Daily Routine

- Sit in your appropriate seat quietly
- Make sure you are wearing your ID's
- Have all necessary materials out
- All back packs on the floor
- All cell phones on silent and away in backpacks
- All IPods off and headphones out of your ears
- Hats off
- No food or drink except for water

Earth Science Announcements

- Volcano Project: Due 10/6
- Volcano Quiz Tomorrow
- Midterm 10/9 or 10/10

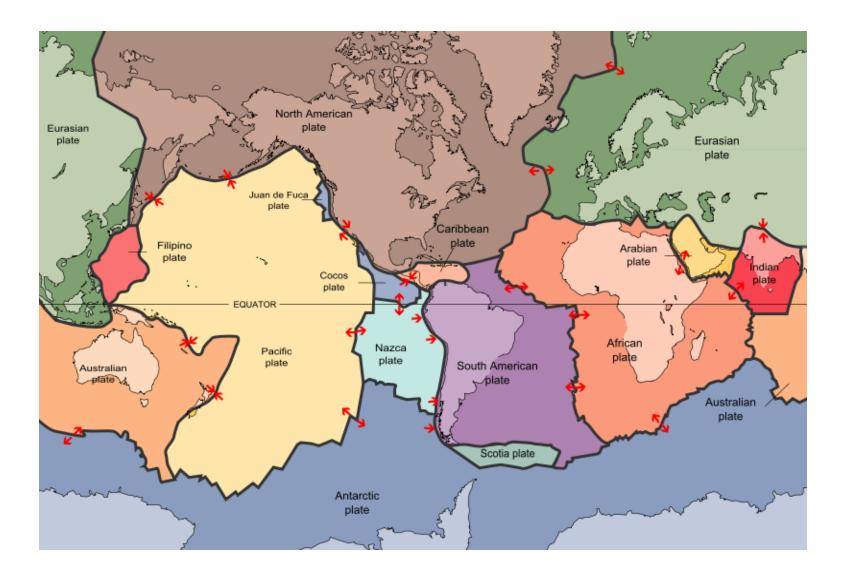
Introduction to Earthquakes

How does earthquakes affect our lives?

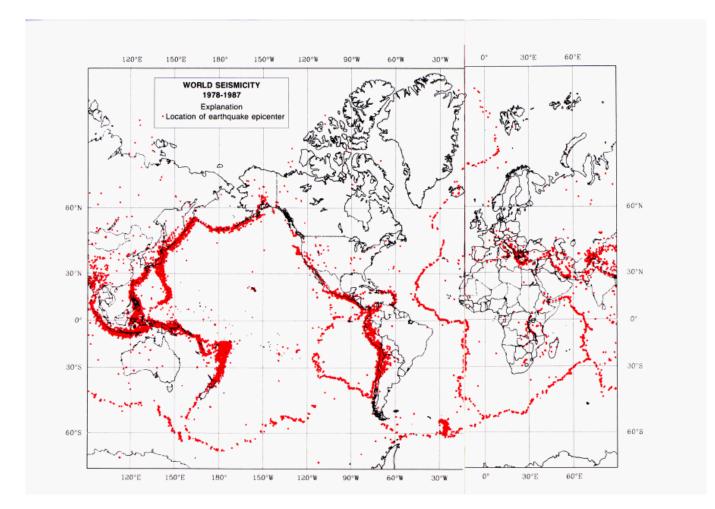
I will be able to...

- Define what an earthquake is
- Interpret a graph referring to elastic and plastic deformation
- Diagram and explain what the three types of faults are and the anatomy of a fault

Earth's Plates

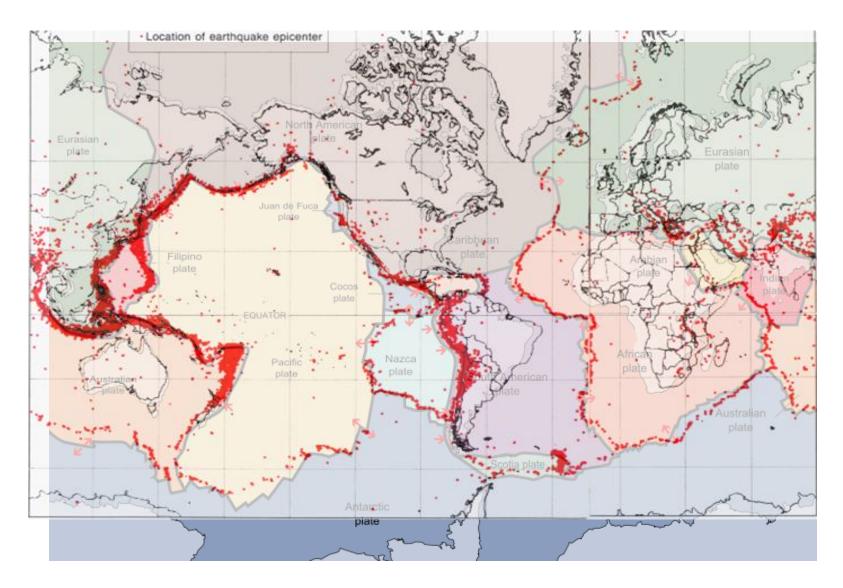


Earthquake Map



Are they similar?

Earth's Plates



Are they similar?



 A sudden movement or offset from a release of energy and stress in Earth's crust

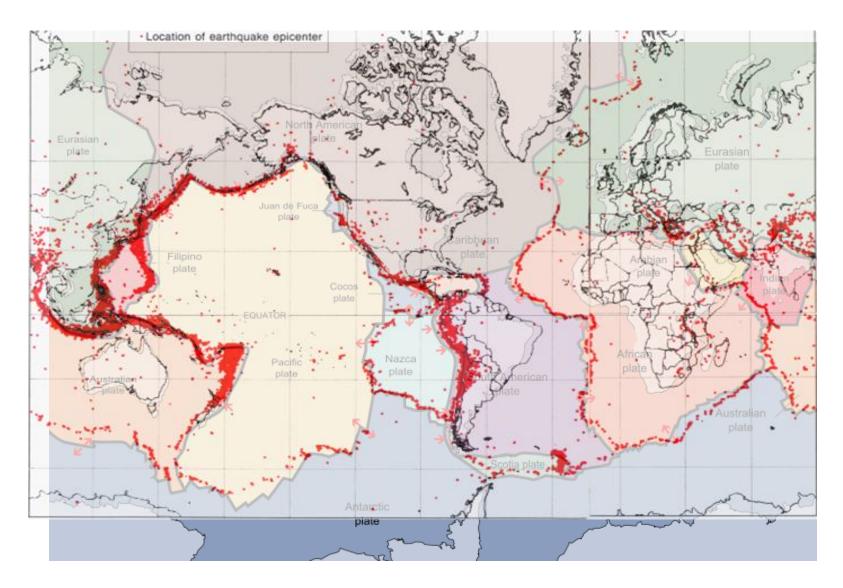




- A sudden movement or offset from a release of energy and stress in Earth's crust
- Most earthquakes occur around plate tectonic boundaries



Earth's Plates

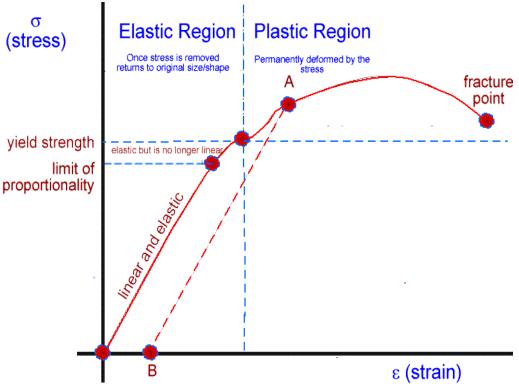


- Most earthquakes occur around plate tectonic boundaries
- Stress vs. Strain relationship





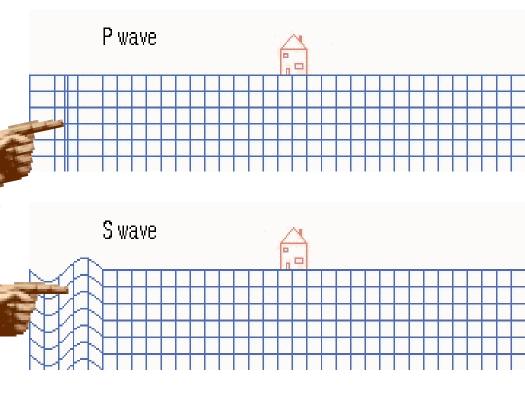
- Most earthquakes occur around plate tectonic
 boundaries
- Stress vs. Strain relationship
 - Elastic Deformationbounces back
 - Plastic Deformation
 = deformed and
 breaks

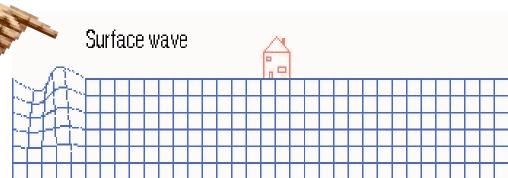




What are Seismic Waves?

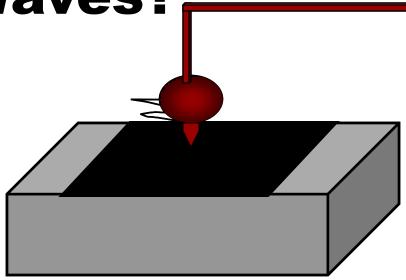
- When an earthquake goes off it releases seismic waves
- 3 types of seismic waves exist: Primary, Secondary, and Surface
- <u>Primary waves</u> are the fastest waves and cause r to compress and stretch rock
- <u>Secondary waves</u> are slower than primary waves and move rock up and down
- Surface waves are the modestructive because they travel through rock at the surface causing rock to move up and down and side to side

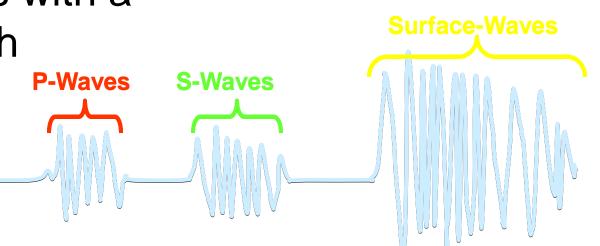


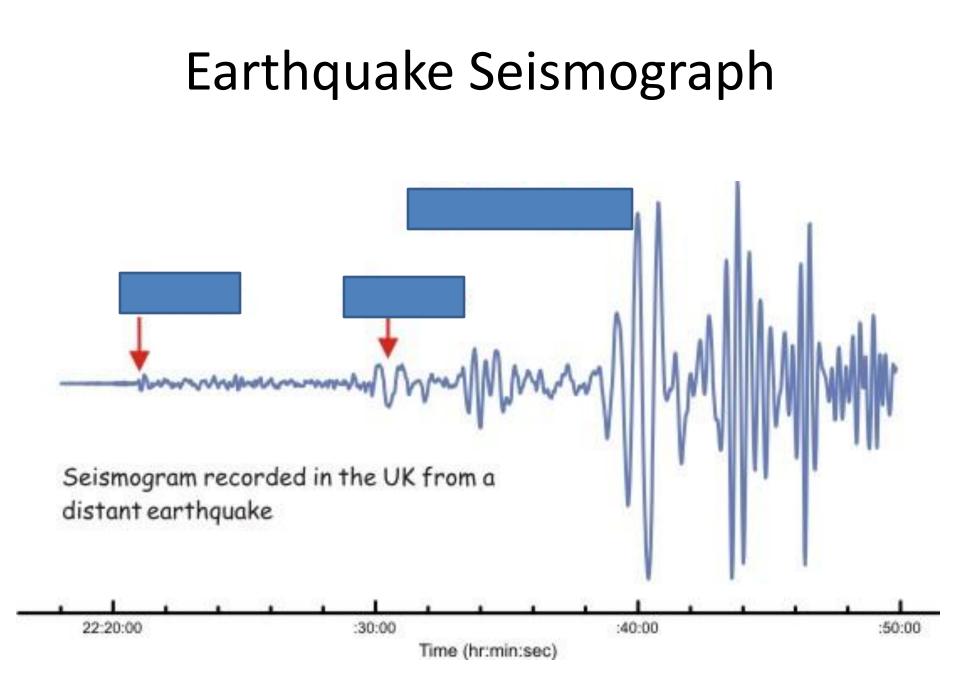


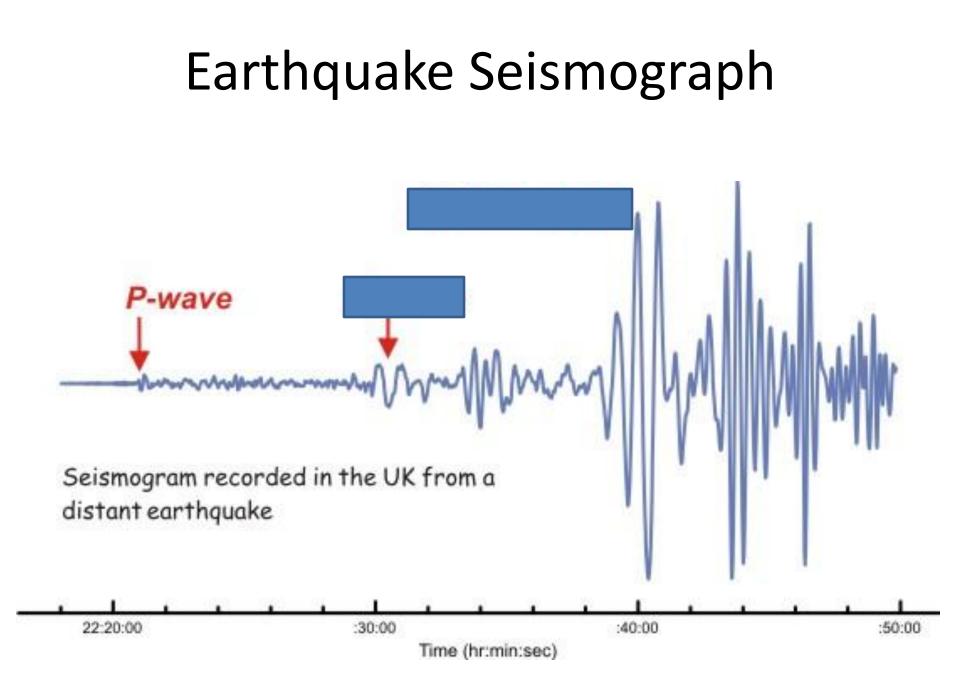
How do we recording Seismic Waves?

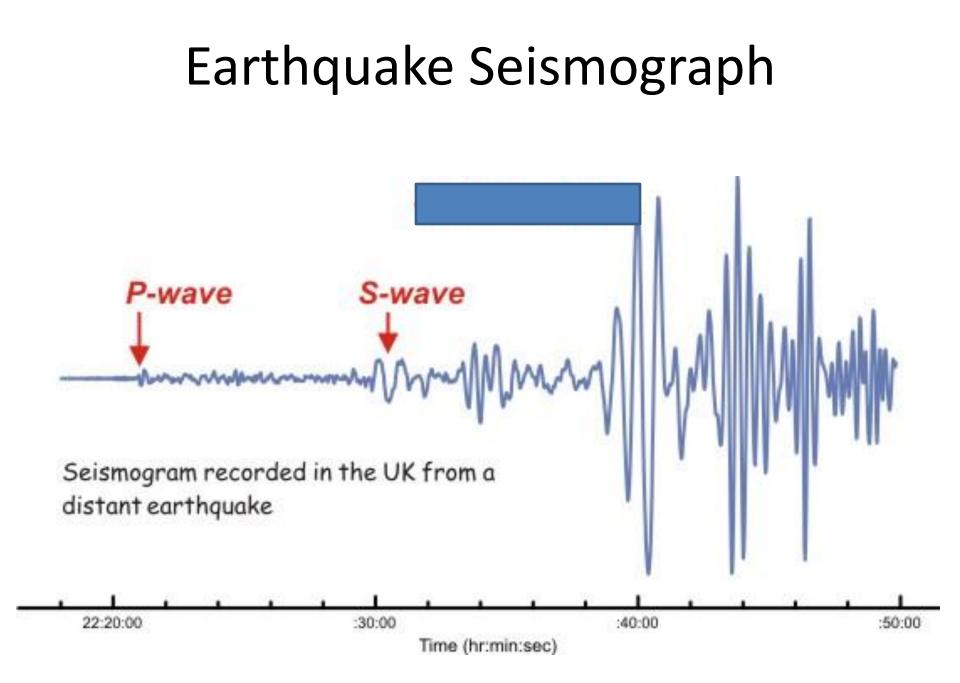
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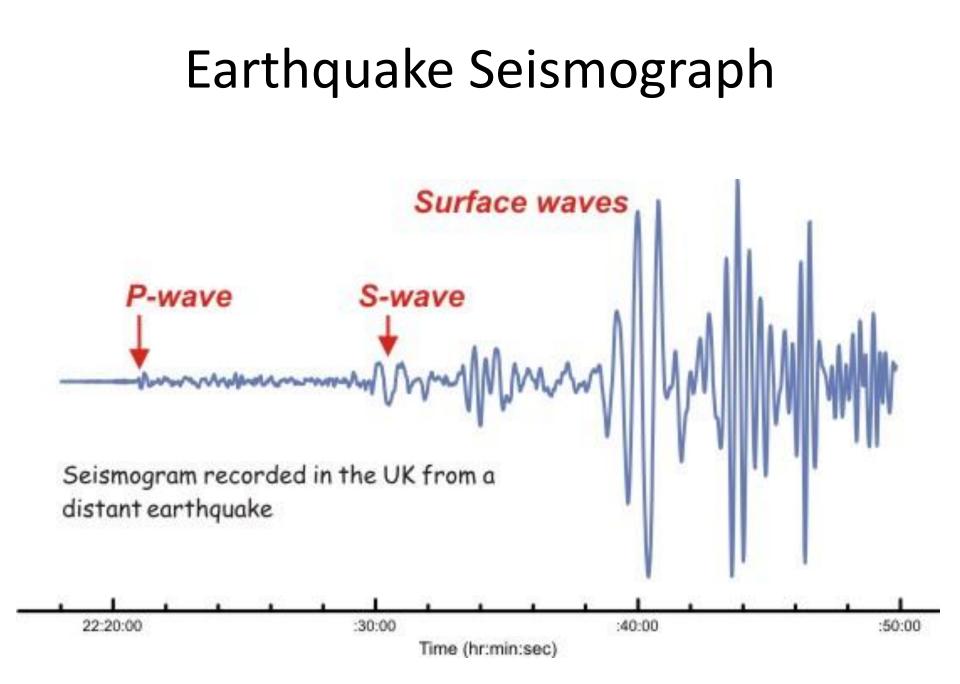












Slinky Lab