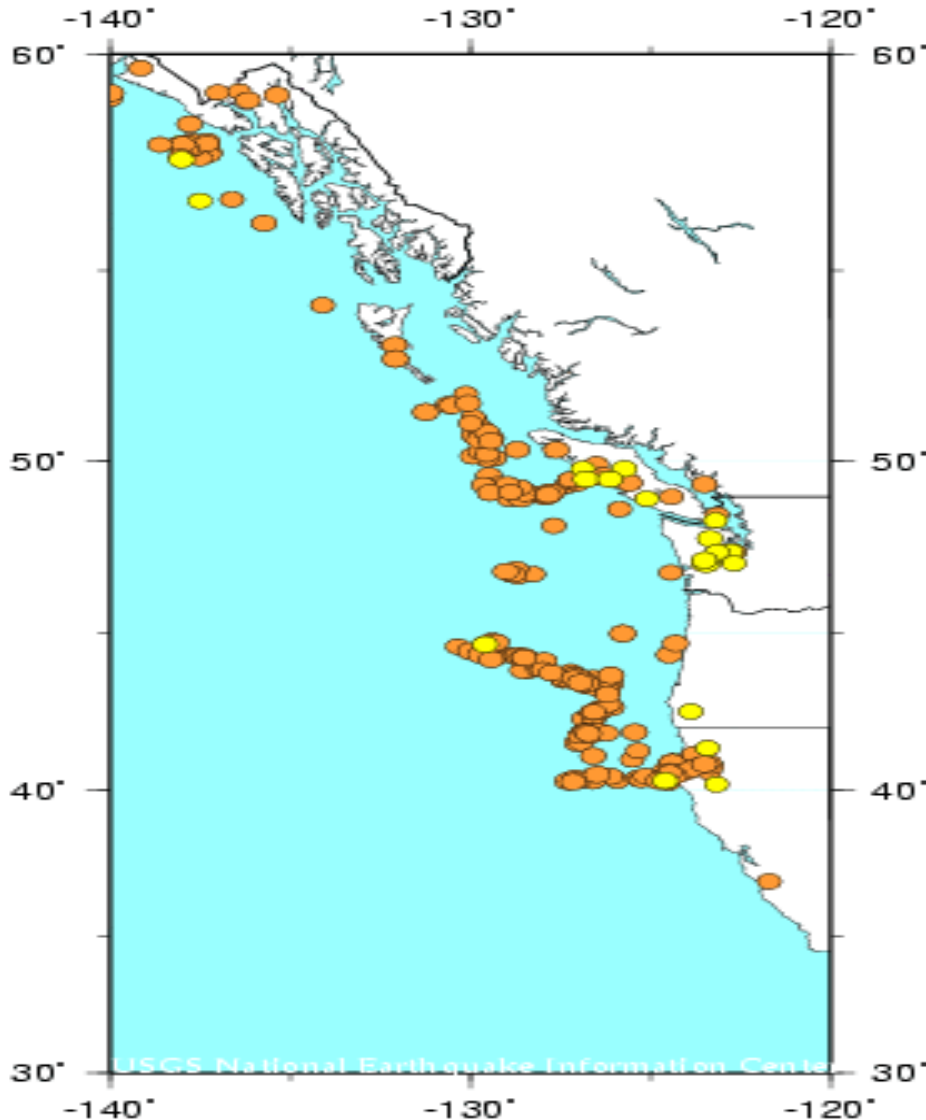


Around the Ring of Fire

Locating Plate Boundaries
of the Pacific Rim

Pacific Northwest Seismic Data



This is a map of seismic activity of the Pacific Northwest

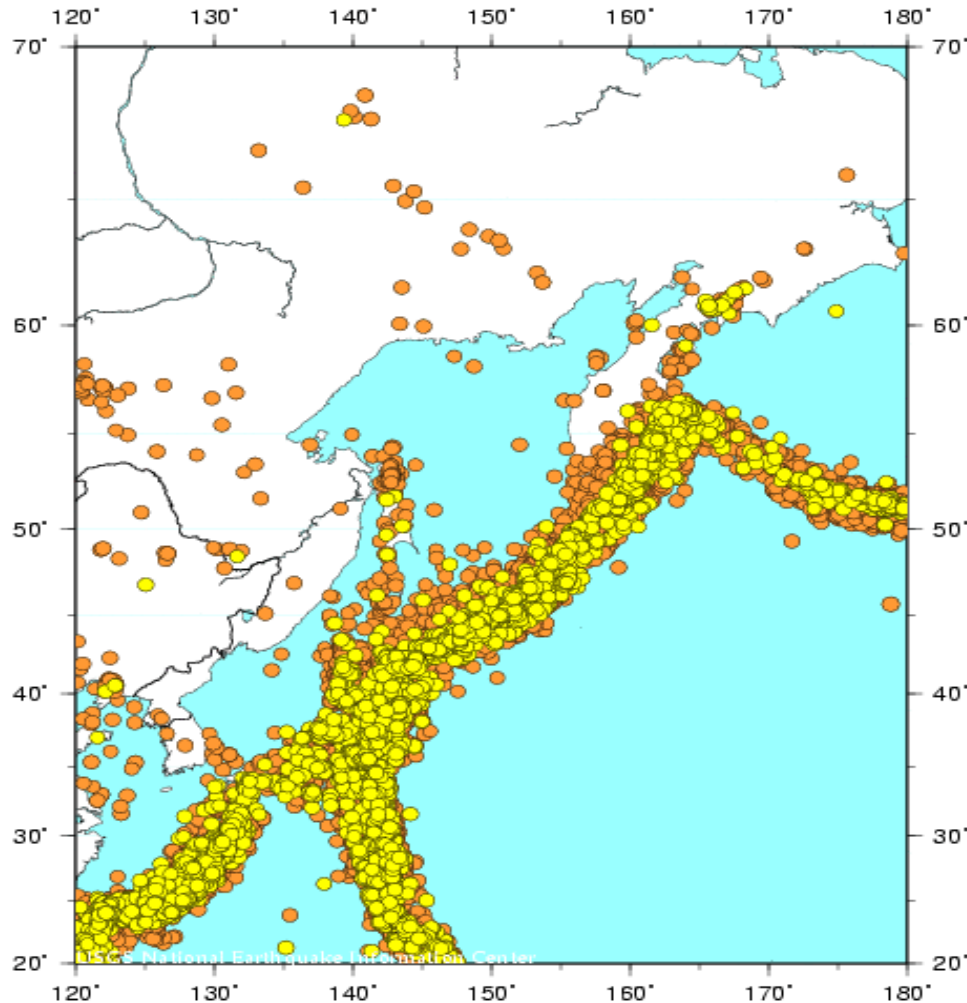
Each yellow (35-70 km deep) and orange (less than 35 km deep) dot represents an earthquake

What pattern do you see?

What does this pattern mean?

Map generated using the U.S. Geological Survey. "Earthquake Hazards Program :Earthquake Center"

Southeast Asia Seismic Data



This is a map of seismic activity of Southeast Asia

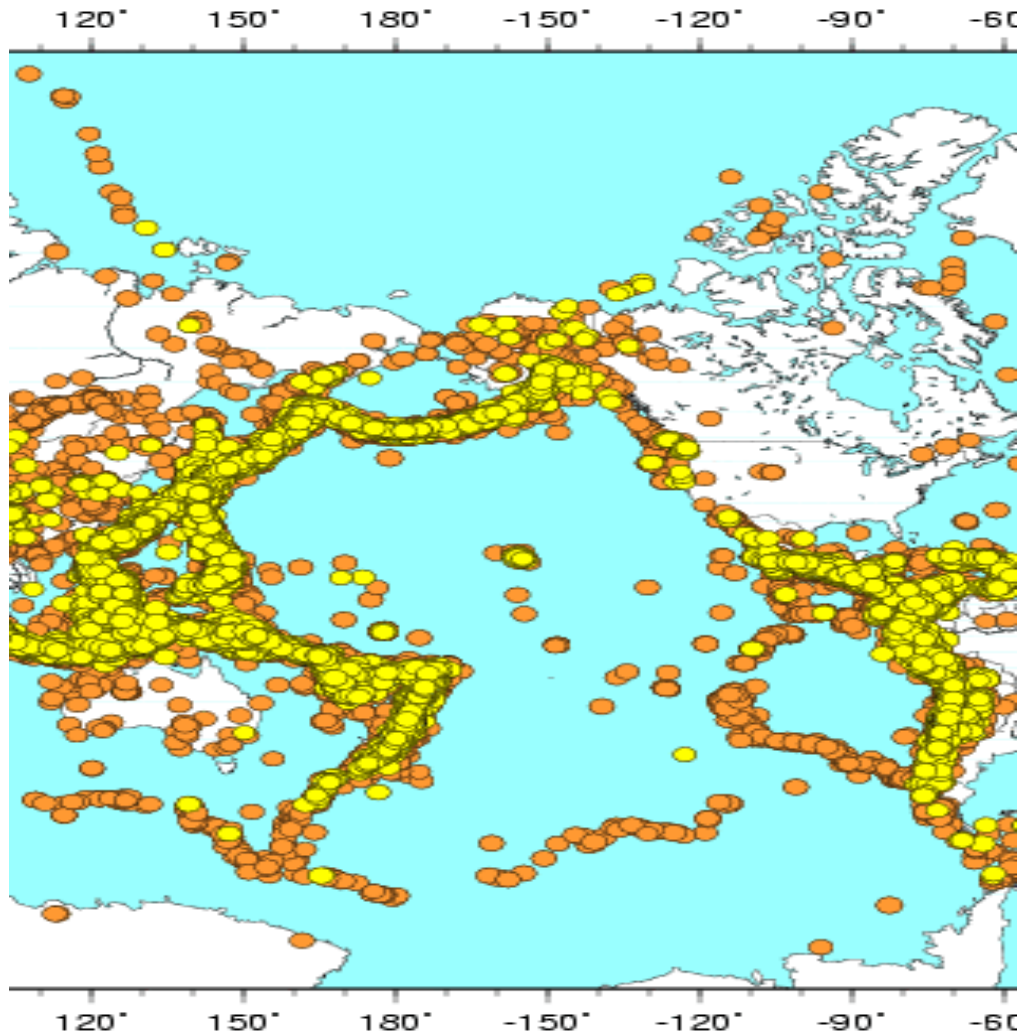
Each yellow (35-70 km deep) and orange (less than 35 km deep) dot represents an earthquake

What pattern do you see?

What does this pattern mean?

Map generated using the U.S. Geological Survey. "Earthquake Hazards Program :Earthquake Center"

Pacific Rim Seismic Data



This is a map of seismic activity of the Pacific Rim

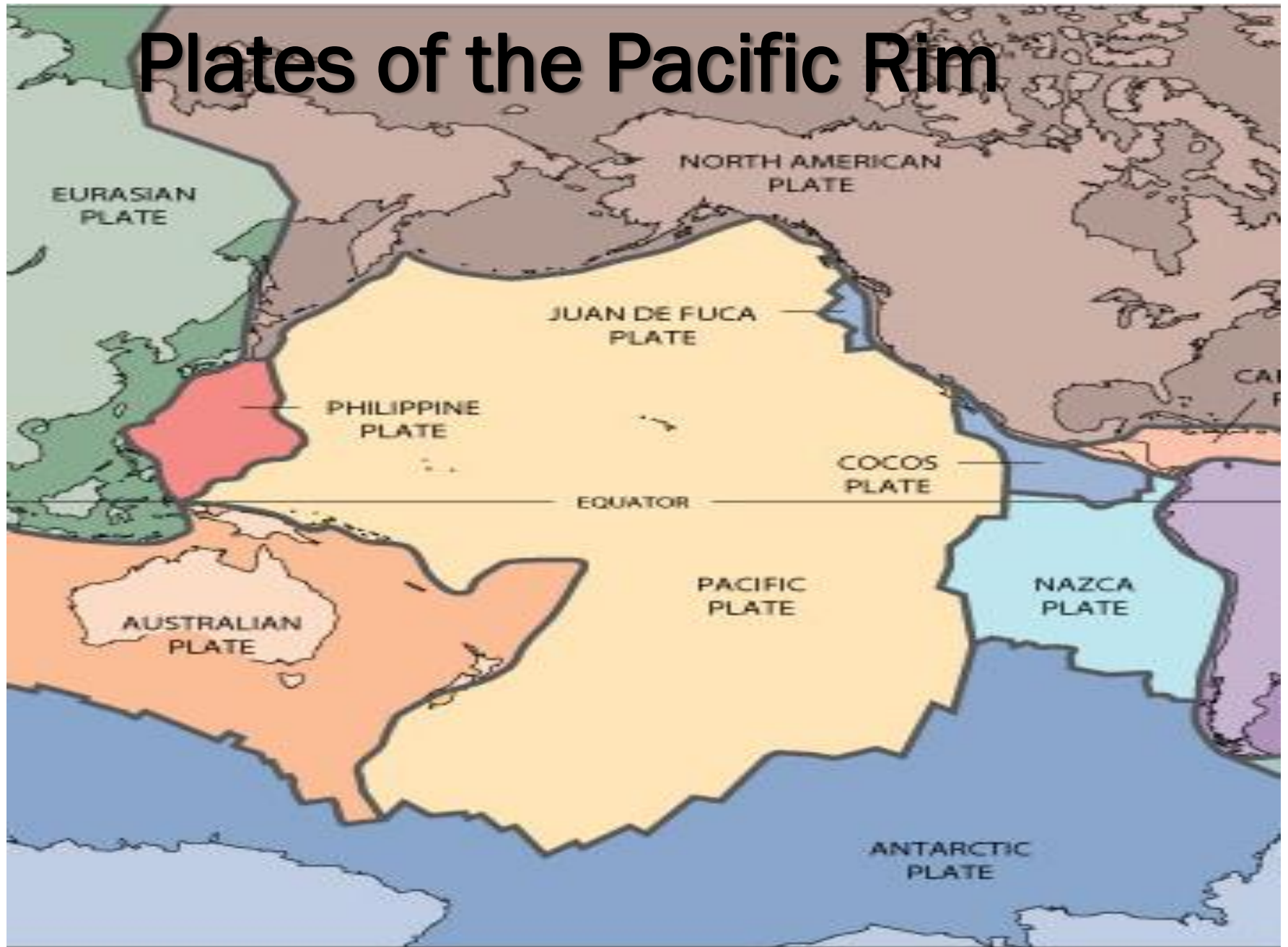
Each yellow (35-70 km deep) and orange (less than 35 km deep) dot represents an earthquake

Do you see any patterns?

What do these patterns tell you?

Map generated using the U.S. Geological Survey. "Earthquake Hazards Program :Earthquake Center"

Plates of the Pacific Rim



Analyze your map

1. How many plates underlie of the Pacific Ocean also known as the Ring of Fire?
2. Are all plates the same size?
3. How many plates interact near Washington?
4. How many plates interact near Japan?
5. Explain how earthquakes can be used to infer plate boundaries.

Ring of Fire

1. Where are the majority of volcanoes found in the Pacific Rim? (Are they found in the middle of the plates or on the edges?)
2. Are volcanoes found everywhere earthquakes are found?

Map from U. S. Geological Survey.

http://vulcan.wr.usgs.gov/Glossary/PlateTectonics/Maps/map_plate_tectonics_world.html

