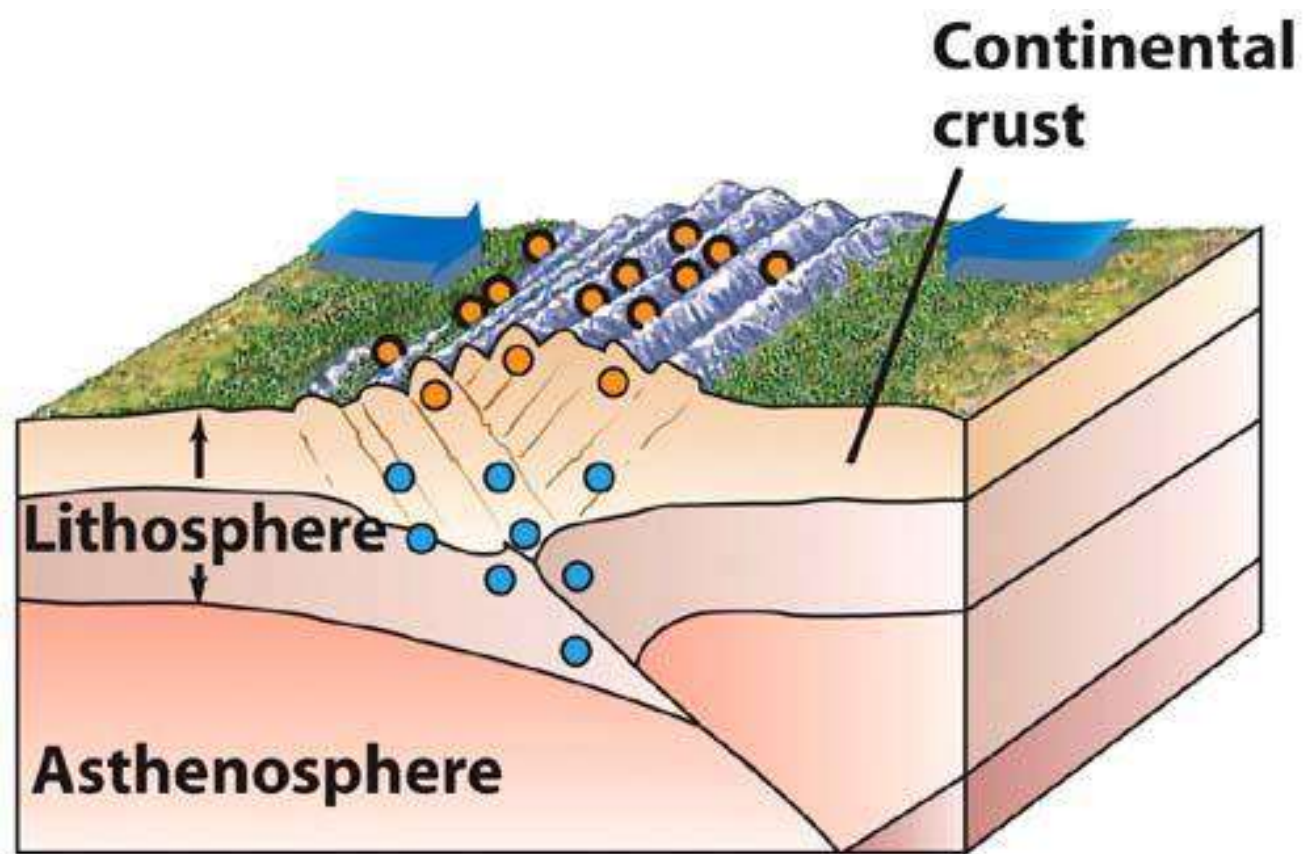


Earthquakes and Boundaries

What does the seismology information tell you?

CONVERGENT BOUNDARIES

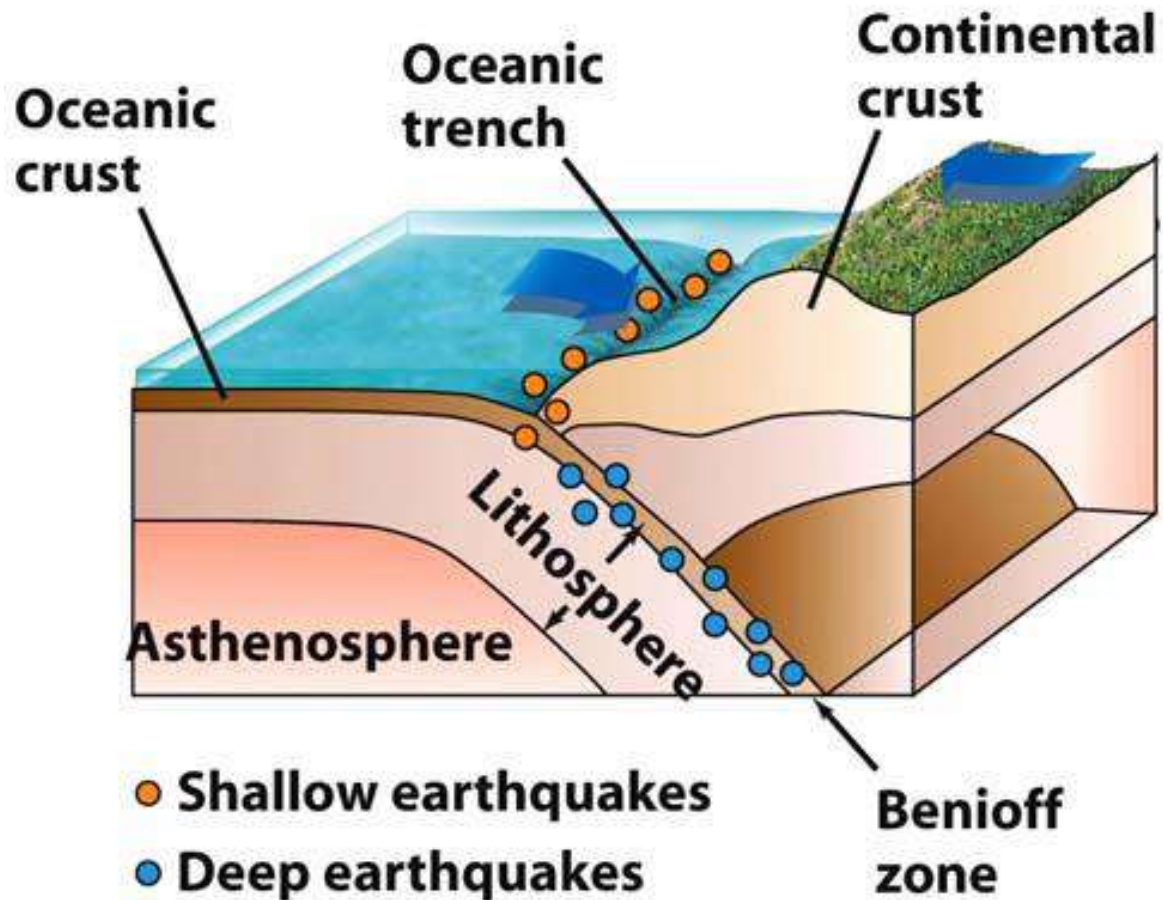
- Shallow earthquakes occur on both sides of the boundary, relatively close to the boundary
- Intermediate depth and deep quakes occur on one side of the boundary
- At continental-continental boundaries, the earthquakes are spread over a larger area



CONTINENTAL COLLISION BOUNDARY

CONVERGENT BOUNDARIES - SUBDUCTION

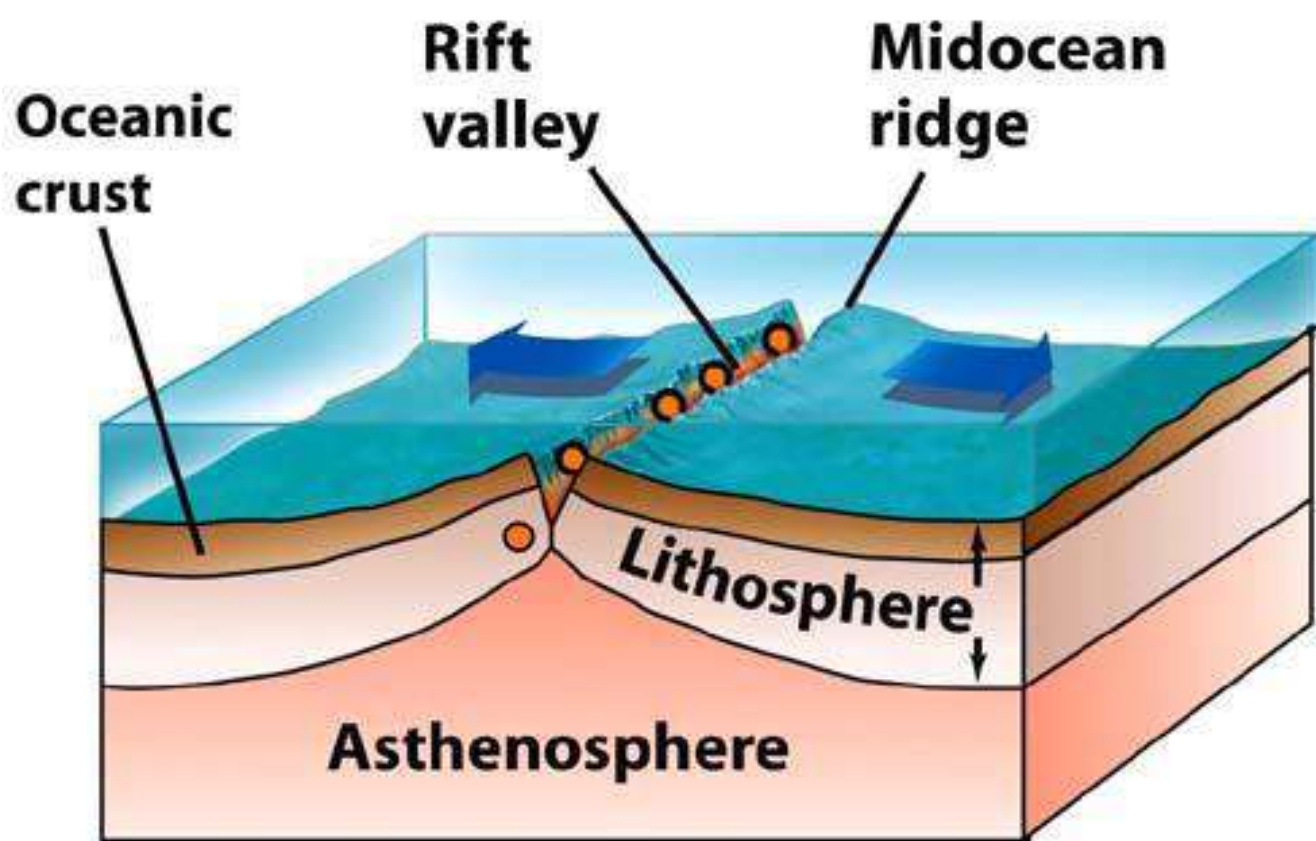
- Deepest quakes occur here
- The quakes spread out from the boundaries, getting deeper as they move away from the boundary



SUBDUCTION ZONE BOUNDARY

DIVERGENT BOUNDARIES

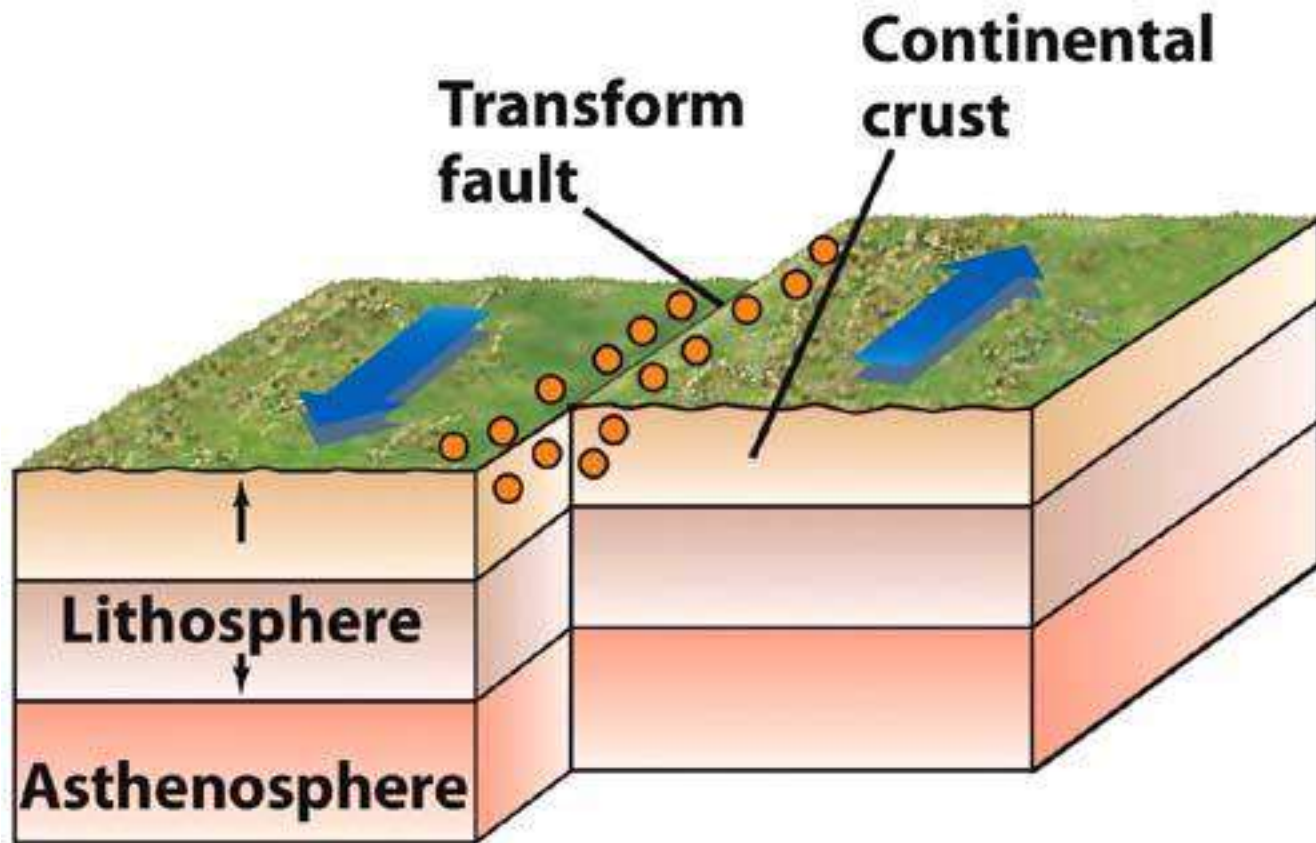
- Shallow earthquakes
- Directly on top of boundary (do not spread out)



DIVERGENT BOUNDARY

TRANSFORM BOUNDARIES

- Shallow quakes occur here
- The quakes spread out from the boundaries, but they are not as widely spaced as the quakes at continental-continental convergent boundaries



TRANSFORM FAULT BOUNDARY