**Seismic Waves**

There are 2 types of seismic waves:

* Surface waves that travel on the surface of the Earth
  + These are the slowest but most destructive
  + 2 main types
    - Rayleigh- travel like water waves

Diagram:

* + - Love- travel like a snake

Diagram:

* Body waves- travel through the Earth. Can give us data on Earth’s composition
  + P-waves (Primary waves)
    - Fastest waves, and arrive first during an Earthquake
    - Compression waves caused by a forces smashing molecules together
    - Travel in any form, solid liquid or air

Diagram:

* + S-waves (Secondary waves)
    - Slower but more damaging
    - Have a transverse or shearing motion
    - Shake the earth side to side
    - Only travel in solid

Diagram: