

Ocean waves I am ignoring

- **Sound waves** (pressure waves) in water

Speed of sound in water (at 10° C): 1450 m/sec

Speed of 2004 tsunami: < 200 m/sec

Pressure waves create initial conditions for surface waves

- **Internal waves**

Due to variations in fluid density

Period of surface waves: seconds

Period of internal waves: hours

- **Inertial waves** (including Rossby waves)

Due to rotation of earth

Period of inertial waves \geq 12 hours