ERTH 448 Lecture 19 Outline

Internal structure of the Earth
  - examples of seismic wave heterogeneity and implications for structure

Composition of the Earth
  - crustal material
  - mantle materials
    - olivine
    - phase transitions
  - core material
    - information from meteorites
  - CMB complexity

Convection in the mantle
  - assumptions used
  - physical constraints
  - Rayleigh number
  - Reynolds number
  - Nusselt number