Earthquakes!

Brad Hubeny

The Earth Quakes

Two Flavors of Seismic Waves

- P-Waves
- S-Waves
- (Surface Waves)

Seismographs Record Seismic Waves

S-Wave Velocity Variability in the Mantle

Cruising Through Liquid

Why???
The Nature of the Core

Part 1: S-Wave Shadow Zone

Part 2: P-Wave Shadow Zone

“Seeing” the Whole Picture

Destructive Nature of Earthquakes

Richter’s Scale

Magnitude vs. Probability
Earthquake Hazard Probability

Tsunamis

2004 Sumatra Tsunami

2004 Sumatra Tsunami