

SIO 15 LECTURE 02: ENERGY SOURCES OF DISASTERS

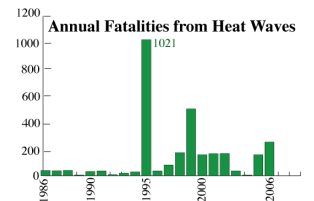
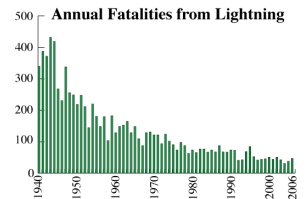
Leftovers from Lecture 1

Some not so Obvious Natural Disasters

Heat Waves

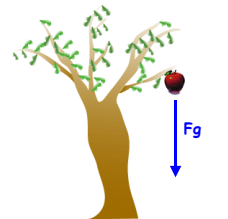
Some Numbers

Some Weird Statistics

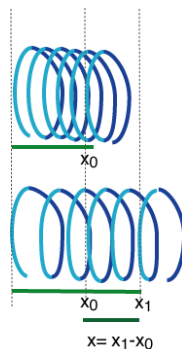


Forces, Energy, and the Earth-Moon system are covered by short videos 2a and 2b. Material will also be covered in this week's problem sessions. This material is test material. Check the online quizzes for possible questions!

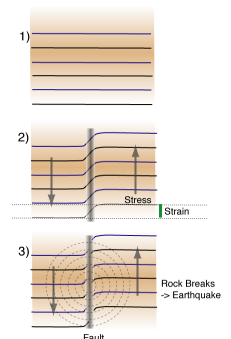
Potential and Kinetic Energy



Potential Energy of a Spring

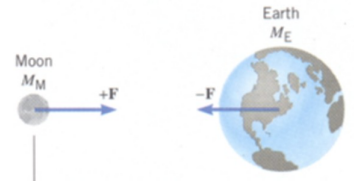


Force and Deformation of an Earthquake Fault



Gravitation, Potential Energy and the Earth-Moon System (covered in short video 2b)

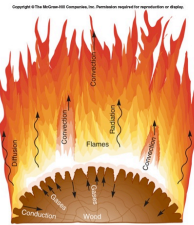
Basic Types of Energy



Earth's 4 Internal Sources of Heat

The 4 Ways to Transfer Heat

Fig. 15.6



Mantle Convection

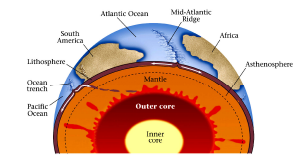


FIGURE 4.12

Smith, Fundamentals of Geology, 3rd Edition
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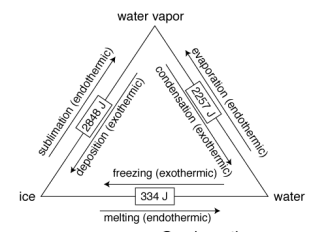
Earth's External Source of Heat

Fission and Fusion

The Concept of Latent Heat

The 3 Phases of H₂O

Heat Capacity



Evaporation and Condensation

