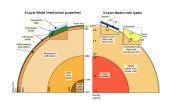
SIO 15 LECTURE 04: CONTINENTAL DRIFT AND PLATE TECTONICS

Leftovers from Lecture 3 Announcements

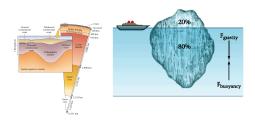
Elastic, Ductile and Brittle Material and Earth's Layers see short video 4a; short videos are test material

The Layered Earth



Isostasy and the Lithosphere-Asthenosphere System

see short video 4b



Lithospheric Plates



Mantle Convection (see Lecture 2 online notes)

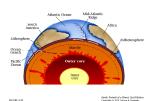
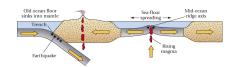


Plate Tectonics - The Grand Unifying Theory



The 2 Driving Forces:





Alfred Wegener 1915

Earth's Magnetic Field

Recording Earth's Magnetic Field see short video 4c

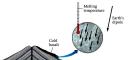
Apparent Polar Wander Curves see short video 4c

Seafloor Observations see short video 4d

Seafloor Spreading

Age of Oceanic Lithosphere

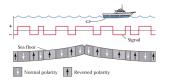
Geograpio Magnetic Pietra Piet

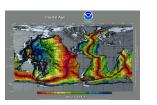




Harry Hess 1950s







The Cooling Oceanic Lithosphere

