



GEOLOGY 1122 HISTORY OF GLOBAL CHANGE

WALKER/PATINO-DOUCE FALL 08

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LECTURE 1 WEDNESDAY 20 AUG 08 OVERVIEW OF EARTH'S SYSTEMS

A. Earth's structure in relation to plate tectonics (*how are the following structures linked by plate tectonics?*)

Internal composition (Mantle: outer mantle, inner mantle; Core: outer core, inner core)

External composition (crust)

Ocean crust

Continental crust

B. Three major rock types of the Earth's crust

Is the rock cycle a plate tectonic process? If so, why?
(*"drive by crusters & subducting slabs"*)

C. Earth's hydrosphere, geosphere, biosphere and atmosphere are dynamically linked (see: <http://www.cotf.edu/ete/ESS/ESSspheres.html>)

Oldest known history of these spheres
How are they linked?

EARTH STRUCTURE WEBSITES TO VISIT:

Concise version: <http://zebu.uoregon.edu/~soper/Earth/earthstructure.html>

Fun version: <http://www.learner.org/interactives/dynamicearth/structure.html>

More intense version: <http://www.amonline.net.au/geoscience/earth/structure.htm>

With plate tectonics:

http://www.washington.edu/burkemuseum/geo_history_wa/The%20Restless%20Earth%20v.2.0.htm

Rock cycle:

http://www.classzone.com/books/earth_science/terc/content/investigations/es0602/es0602page02.cfm

Rock types: <http://www.es.ucl.ac.uk/schools/Glossary/rocks.htm>