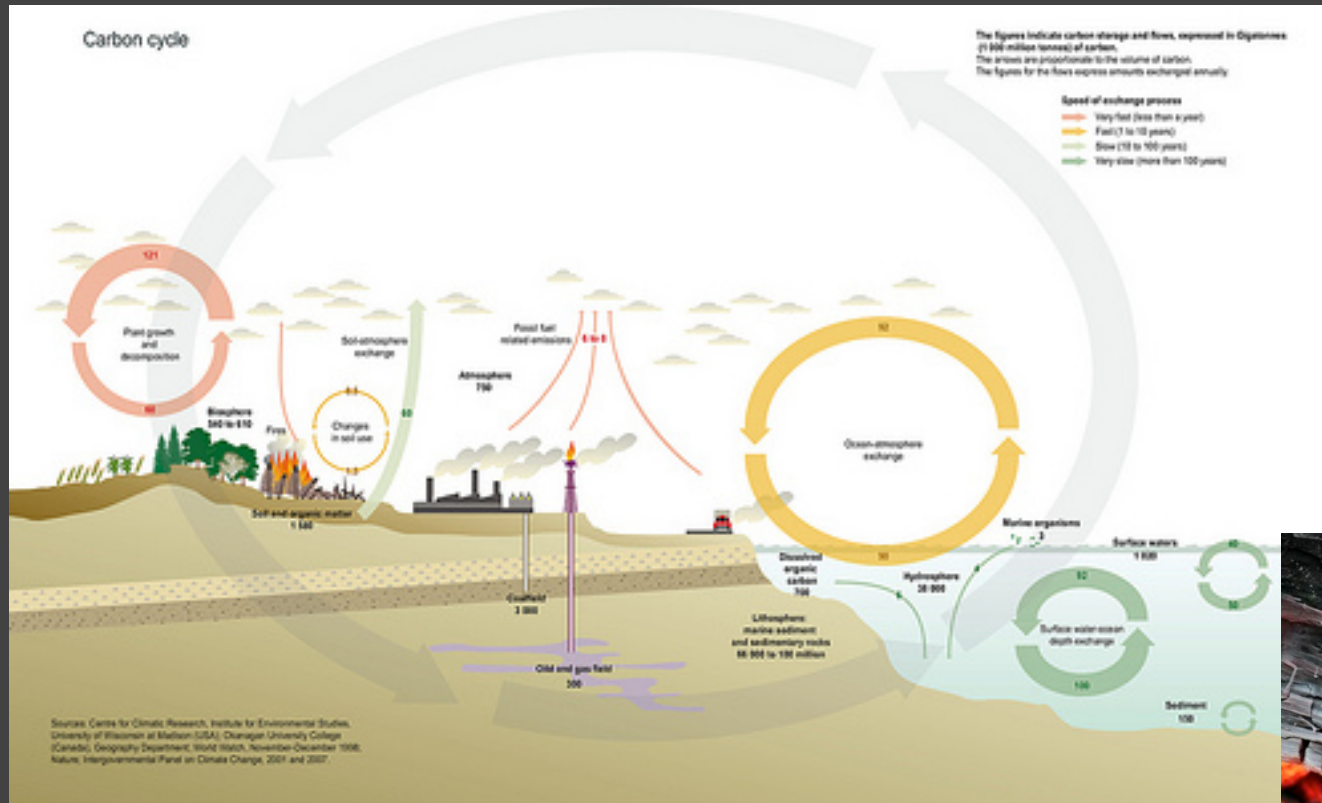


# BIOGEOCHEMICAL CYCLING & CLIMATE CHANGE



<http://www.flickr.com/photos/climatesafety/4112591810/>

# Learning Objectives

At the end of this material, you should be able to:

1. Describe the general chemical composition of life
2. Distinguish between **gaseous** and **sedimentary** types of biogeochemical cycles
3. Explain the pathways and processes in the movement of **carbon, nitrogen, phosphorus, sulfur, and oxygen**.
4. Predict how the carbon cycle responds to elevated atmospheric  $\text{CO}_2$
5. Determine if elevated  $\text{CO}_2$  could increase forest carbon sequestration
6. Use scientific methods to predict the effect of human activity on climate change
7. Describe how biogeochemical cycles are **linked**

# Preview & Assignments

## Assignments

Study for exam

Complete **IDEA survey** for the course

## Vocabulary to Know

Biogeochemistry, turn over time, petagram, sink, passive pool, terms defined in lecture