# Chapter 44

#### Learning Objectives:

* Use the concept of *average*to distinguish between weather events, such as El Niño and La Niña, and climate.
* Describe some of the data and methods that paleoclimatologists use to reconstruct ancient climates.
* Practice finding, graphing, and interpreting data about global climate change.
* Construct scientifically based predictions about climate change.

**Directions:**

Distribute the “Global Climate Change: What Does it Look Like?” case study to class ~1 week prior to in-class case study time. Have students get into groups of 3-4 students or assign students into groups of 3-4 students. Have students discuss the case study amongst their group. Each group submits a paper with their respective group’s answers to each of the questions.

You can also distribute the case study part by part so the case study work can encompass several weeks (weeks dependent on how often class meets, etc.). Give students ~20-30 minutes per class to work on the respective part.

Or this case study can be distributed as the instructor sees fit.

Access the case study by using this link - <http://sciencecases.lib.buffalo.edu/cs/collection/detail.asp?case_id=624&id=624>