

## ESS11: CLIMATE CHANGE AND POLICY

### Homework # 6

(due Tuesday - 9 March)

1. Describe the two major carbon cycling processes between the atmosphere and the solid earth on millions of year of timescales. (What are they? How do they work?)
2. The ENSO phenomenon is a quasi-periodic climate oscillation that involves what components of the climate system?
3. ENSO oscillations are felt worldwide. Give only four specific examples of climate change outside of the equatorial Pacific basin that are linked to strong El Niño.
4. The Antarctic ozone hole, discovered in 1985 by scientists of the British Antarctic Survey at Halley Bay, was not anticipated in the scientific predictions of ozone depletion of the time. It was not really until 1987 that the combination of chemistry and meteorology that produce the ozone hole were understood. List as many of the specific circumstances (both natural and anthropogenic) that “cause” the ozone hole as you can (at least two).