

SIO 15 (Fall 2024) – Week 9 worksheet – Topics 21 - 23

~~FULL NAME AND STUDENT ID:~~

- greenhouse gases and their radiative forcing
- climate feedbacks
- causes for long-term climate change (millions of years)
- Milankovitch cycles; sawtooth patterns
- causes for climate change shorter than 1000 years
- El Niño
- greenhouse gases relevant to the global warming discussion
What is their relative forcing?
- What are their natural vs. anthropogenic sources?
- What is the Keeling Curve? What is its time evolution?
- What is the role of the Kyoto Protocol? What is/are its successor(s)?
- What is the IPCC? What is its role?
- What is the expected impact on global temperature? What is the expected impact on global sea level?

- What is the role of ozone in the stratosphere? Where and when does the ozone hole occur?
- Which chemical destroys the ozone? Where does it come from?
- Which political document tries to limit ozone-destroying chemicals?