

**AOSC 433/633 & CHEM 433/633 Atmospheric Chemistry and Climate**

**Admission Ticket, Lecture 19**

**Due: Thursday, 18 April 2013 (at start of class)**

**10 points**

**Your name:** \_\_\_\_\_

1. (3 points) The US EPA GHG Endangerment finding states:

The word “air pollution” is defined as the six well-mixed and directly emitted greenhouse gases that together constitute the root of the air pollution problem that is causing climate change. These include carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF<sub>6</sub>).

How did the EPA come up with this unusual mix of six greenhouse gases?

2. (5 points) If you were negotiating on behalf of the US at an Earth Summit meeting focused on the Kyoto Protocol, why might you object to the language of the Protocol as explained in the second paragraph of Section 3.11. Please use the text of this paragraph & Figure 3.27 to outline, in 2 to 4 sentences, a plausible objection.

3. (2 points) What is the name of the program that Maryland has helped to develop that is focused on reducing CO<sub>2</sub> emissions?