

## AOSC 433/633 & CHEM 433/633 Atmospheric Chemistry & Climate

### Admission Ticket, Lecture 2

**Due: Tuesday, 29 January 2013 (at *start* of class)**

**15 points**

**Your name:**

a) What are the three most important *anthropogenic* greenhouse gases, in order of their effect on the radiative forcing of Earth's climate during the past two and a half centuries?

b) When might members of *sensitive groups* begin to experience health effects of air pollution?

What particular characteristic of air pollution affects people with lung disease, children, older adults, and people who are active outdoors?

What particular characteristic of air pollution affects people with heart or lung disease, older adults, and children?

c) In which layer of the atmosphere is ozone considered to be "good ozone" and in which layer of the atmosphere is ozone considered to be "bad ozone"?

Briefly, how has human activity affected "good ozone" and how has human activity affected "bad ozone"?

Is there any "natural ozone" and, if so, briefly (i.e., a phrase or two ☺) state why natural ozone is important?