

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

**Admission Ticket, Lecture 6: 6 points**

**Due: Tuesday, 12 February 2013 (at start of class)**

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

A. (5 points) What fraction of the present methane source is associated with human activity?

B. (5 points) Is the fraction of estimated methane production associated with human activity consistent with the rise in atmospheric methane since pre-industrial times?

Please include either a quick calculation or a sentence or two of logic to justify your reply; a simple one word answer of “yes” or “no” will not receive much credit ☺

C. (5 points) Compare and contrast the conditions within agricultural soils that leads to production of CH<sub>4</sub> and production of N<sub>2</sub>O.