

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

Admission Ticket, Lecture 4

Due: Tuesday, 5 February 2013 (at start of class)

15 points

Your name: _____

1. (5 points) Briefly summarize (2 to 3 sentences) how scientists use isotopes to quantify variations in Earth's past climate.

2. (5 points) Briefly summarize (2 to 3 sentences) the Milankovitch theory of Earth's ice ages. Include in your response a description of how the small initial cooling that leads to the initiation of an ice age, first described by Milankovitch, is amplified.

3. (5 points) How does the present rate of warming compared to the rate of warming Earth experienced during the recovery period from the last glacial maximum?