

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

Admission Ticket, Lecture 17

Due: Thursday, 4 April 2013 (at start of class)

6 points

Your name: _____

The “full stage” of stratospheric ozone recovery is identified as the time when stratospheric ozone is no longer significantly affected by ozone-depleting substances emitted by humans.

When the ozone layer reaches its full stage of recovery, the abundance of total column ozone may be different than the amount of column ozone present prior to the anthropogenic release of ozone-depleting substances.

Briefly provide an example of a process that could cause the abundance of column ozone, at the time of full recovery, to be different than the abundance of ozone before the impact of human activity. Also, indicate for your example whether the recovery will be expected to be to a column ozone level that is either *higher* or *lower* than the pre-industrial value.