

Lecture Questions: Ozone Depletion

These questions are taken from chapter 2 of your textbook (sections 1 and 6-12) and from the paper entitled "Frequently Asked Questions about Ozone."

1. At what altitudes is the ozone layer located? What is the maximum concentration of ozone in the ozone layer?
2. The *Chapman cycle* explains how the ozone layer is formed and maintained. Please describe this process in some detail.
3. What are CFCs? What are they used for?
4. How do CFCs destroy ozone? Explain in some detail.
5. These questions are about the 'ozone hole.'
 - (a) What is it? Be sure to explain where and when it forms.
 - (b) When did it first appear?
 - (c) How does the ozone hole form? Why doesn't it form elsewhere?
6. How severe is ozone depletion now (on a global scale)?
7. What was the name of the treaty signed to address the problem of ozone depletion?