

# Concerns for Ozone Recovery

**Science Question:** Will the stratospheric ozone layer continue its recovery as projected?

**Findings:** Recent observations suggest ozone recovery will likely be slowed due to:

1. Unregulated ozone depleting substances (ODSs), e.g., dichloromethane (DCM).
2. Incomplete Montreal Protocol compliance of regulated ODSs, e.g.,  $\text{CCl}_4$ .
3. Climate-induced increases in natural ODS emissions.

**Impact:** These factors, combined, will decrease the Antarctic total column ozone by ~10% between 2050 and 2100, and slowdown ozone recovery.

**Why does it matter?** The Montreal Protocol has been a huge success with stratospheric ozone showing signs of recovery. Improved Montreal Protocol compliance and monitoring of regulated and unregulated substances as well as successful efforts to limit climate change are crucial to stratospheric ozone recovery.

