

# Stratospheric Ozone Recovery

ESRL has a long history in ozone science: monitoring, laboratory, process studies, theory, as well as assessment/information service.

Our goal for the next two hours: Explain the reasons for our continuing deep interest in this area of work.



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## *What is Changing? Is the Montreal Protocol Working?*

Steve Montzka: Ozone Depleting Substances and Their Substitutes

Dave Hofmann: Global and Antarctic Ozone

## *How has Policy Changed Recently?*

David Fahey: Climate Benefits of the Montreal Protocol

## *How Does Our Work Help Provide Solutions?*

Jim Burkholder: Evaluating Potential ODS Substitutes

## *How Does Our Work Link to Climate?*

Susan Solomon: Stratospheric Ozone Linkages to Climate Change

# A NOAA Strategic Goal

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## Understand Climate Variability and Change to Enhance Society's Ability to Plan and Respond

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To enable society to better respond to changing climate conditions, NOAA, working with national and international partners, will employ an end-to-end system comprised of integrated observations of key atmospheric, oceanic, and terrestrial variables; a scientific understanding of past climate variations and present atmospheric, oceanic, and land-surface processes that influence climate; application of this improved understanding to create more reliable climate predictions on all time scales; and service delivery methods that continuously assess and respond to user needs with the most reliable information possible.

### Clean Air Act (1990 Amendments)

#### SEC. 603. MONITORING AND REPORTING REQUIREMENTS

##### *Monitoring and Reporting to Congress:*

*The Administrators of the National Aeronautics and Space Administration and the National Oceanic and Atmospheric Administration shall monitor, and not less often than every 3 years following enactment of the Clean Air Act Amendments of 1990, submit a report to Congress on the current average tropospheric concentration of chlorine and bromine and on the level of stratospheric ozone depletion. Such reports shall include updated projections of-*

- (a) peak chlorine loading;*
- (b) the rate at which the atmospheric abundance of chlorine is projected to decrease after the year 2000; and*
- (c) the date by which the atmospheric abundance of chlorine is projected to return to a level of two parts per billion.*