



1989-12

***NCAR Hosts Workshop to Formulate Theoretical Predictions for Stratospheric Ozone: 1989 Report to Be Published by UNEP/WMO***

Guy Brasseur, head of NCAR's Atmospheric Chemical Modeling Section, convened a workshop at NCAR March 13–15 to formulate theoretical predictions for the report, *Scientific Assessment of Stratospheric Ozone: 1989*, which will be published by the United Nations Environment Programme and the World Meteorological Organization on August 15.

Brasseur, an expert on the subject of trace gases and ozone and a former member of the Belgium Parliament, is a new staff member with NCAR's Atmospheric Chemistry Division (ACD). He is one of three coordinators; the other two are A. Cox of the United Kingdom and Ivar Isaksen of Norway. The three coordinators, chosen for their expertise as well as the country each represents, are responsible for producing Part Three: Theoretical Predictions for the prospective report. (Part One, entitled, Polar Ozone, will include discussions concerning the climatology of ozone trends and polar stratospheric clouds, the photochemistry of the Antarctic and Arctic spring, and causes and effects of temperature trends. Part Two, entitled Global Trends, will include discussions of observational methods relevant to ozone trend detection; trends in total ozone and its vertical distribution; and trends in temperature, source gases, aerosols, and surface ultraviolet radiation.)

Specifically, Brasseur and 25 colleagues will produce assessments of model formulation and reliability, including brief summaries of the main features of one-, two-, and three-dimensional models; the ability for joint representation of the stratosphere and troposphere; the growing need for improved representation of tropospheric chemistry; and a discussion of model intercomparisons and comparisons between model predictions and observations.

A separate section under Part Three, co-authored by Brasseur, NCAR colleagues Byron Boville and Sasha Madronich, and other scientists from Norway, Japan, Germany, the United Kingdom, Belgium, and the United States, will focus on model predictions, a definition of scenarios, predicted response of the atmosphere for the sample scenarios, predicted changes in surface ultraviolet radiation, the effects of ozone changes on circulation, and ozone depletion and global warming potentials.

NCAR ACD participants at the workshop convened by Brasseur were: Rolando Garcia, Claire Granier, Sasha Madronich, and Stacy Walters.

Other agencies involved in the workshop included: Atmospheric and Environmental Research, Incorporated; Belgium Institute of Spatial Aeronomy, Brussels; Lawrence Livermore Laboratory; Max Planck Institute for Chemistry, Mainz, Federal Republic of Germany; Meteorological Research Institute, Ibaraki, Japan; NASA Goddard Institute for Space Studies and NASA Goddard Space Flight Center; National Oceanic and Atmospheric Administration Aeronomy Laboratory; Physics Department, Universita' Degli Studi dell' Aquila, Italy; University of Oslo, Norway; and the University of Wisconsin Department of Meteorology.

The End

Update Contact: Joan Vandiver Frisch, NCAR Director's Office, (303) 497-8720