### **World Meteorological Organization**

7 bis, avenue de la Paix Case postale 2300 CH-1211, Geneva 2 Switzerland

### United Nations Environment Programme Ozone Secretariat

P.O. Box 30552 Nairobi, 00100 Kenya

# U.S. Department of Commerce National Oceanic and Atmospheric Administration

14th Street and Constitution Avenue NW Herbert C. Hoover Building, Room 5128 Washington, D.C. 20230

### National Aeronautics and Space Administration Earth Science Division

NASA Headquarters 300 E Street SW Washington, D.C. 20546-0001

## European Commission Directorate-General for Research

B-1049 Bruxelles Belgium

Published March 2011

ISBN: 9966-7319-5-4

Hardcopies of this report are available from WMO (address above; CRenaudot@wmo.int) and UNEP (address above).

This report is available on the Internet at the following locations:

http://www.wmo.int/pages/prog/arep/gaw/ozone/

 $http://ozone.unep.org/Assessment\_Panels/SAP/Scientific\_Assessment\_2010/index.asp$ 

http://esrl.noaa.gov/csd/assessments

Note: Figures from this report are in the public domain and may be used with proper attribution to source.

#### Citation information:

Executive Summary: Scientific Assessment of Ozone Depletion: 2010, 46 pp., World Meteorological Organization, Geneva, Switzerland, 2011. [Reprinted from Scientific Assessment of Ozone Depletion: 2010, Global Ozone Research and Monitoring Project–Report No. 52, 516 pp., World Meteorological Organization, Geneva, Switzerland, 2011.]

Cover: Artistic rendering of model results showing the dates for upper stratospheric ozone to return to various reference-year values between 1965 and 2000 (x-axis) as a function of latitude (y-axis). Contours are at 5-year intervals and show a range of earlier return dates (purples) to later return dates (greens). Taken from Figure 3-16 of Chapter 3 of Scientific Assessment of Ozone Depletion: 2010; figure originally published in Chapter 9 (J. Austin and J. Scinocca, Lead Authors) of the SPARC Report on the Evaluation of Chemistry-Climate Models (Stratospheric Processes And their Role in Climate), edited by V. Eyring, T.G. Shepherd, and D.W. Waugh, 2010.

Cover design layout by Debra Dailey-Fisher, NOAA ESRL Chemical Sciences Division.