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Education

Doctor of Philosophy in Atmospheric and Oceanic Sciences, 1992.
Princeton University, Princeton, NJ, USA

Master of Arts in Atmospheric and Oceanic Sciences, 1989.
Princeton University, Princeton, NJ, USA

Laurea in Physics, 1985. Universita' degli Studi di Bologna, Bologna, Italy

Position

Centro Euro-Mediterraneo per i Cambiamenti Climatici, 2006- present

Istituto Nazionale di Geofisica e Vulcanologia, 2002-present.

Max-Planck-Institut für Meteorologie, Hamburg, Germany, 1992-2002.

Committee and other positions

Member of the Scientific Steering Group of the Stratospheric Processes and their Role in Climate (SPARC) project, part of the World Climate Research Programme. 2005-present.

Co-Author of Chapter 6 of the World Meteorological Organization / United Nations Environment Programme "Scientific Assessment of Ozone Depletion: 2006".

Member of the Panel Review for the World Meteorological Organization / United Nations Environment Programme “Scientific Assessment of Ozone Depletion: 2006”. 19-23 June 2006, Les Diablerets, Switzerland.

Review Editor for the Intergovernmental Panel on Climate Change (IPCC) Working Group I Fourth Assessment Report. 2005-2007.

Climate Dynamics, Executive Editor, July 2001-July 2007.

Journal of Geophysical Research, Associate Editor, 2001-2002.

Societies

American Geophysical Union

Publications

Cagnazzo, C., E. Manzini, M. A. Giorgetta, P. M. De F. Forster, and J. J. Morcrette, 2007, Impact of an improved shortwave radiation scheme in the MAECHAM5 General Circulation Model, *Atmos. Chem. Phys.*, 7, 2503–2515.

Charlton, A.J., L.M. Polvani, J. Perlwitz, F. Sassi, E. Manzini, K. Shibata, S. Pawson, J.E. Nielsen, D. Rind, 2007: A new look at stratospheric sudden warmings. Part II. Evaluation of numerical model simulation, *J. Climate*, 20, 470-488.

Eyring, V., N. Butchart, D.W. Waugh, H. Akiyoshi, J. Austin, S. Bekki, G.E. Bodeker, B. Boville, C. Brühl, M.P. Chipperfield, E. Cordero, M. Dameris, S.M. Frith, R. Garcia, A. Gettelman, M. Giorgetta, V. Grewe, L. Jourdain, D.E. Kinnison, M. Marchand, E. Mancini, E. Manzini, T. Nagashima, P. Newman, S. Pawson, D. Plummer, G. Pitari, E. Rozanov, R. Stolarski, T.G. Shepherd, K. Shibata, H. Struthers, W. Tian, and M. Yoshiki, Assessment of coupled chemistry-climate models: 2006: Assessment of temperature, trace species, and ozone in chemistry-climate model simulations of the recent past, 2006, *J. Geophys. Res.*, 111, D22308, doi:10.1029/2006JD007327.

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change (NDSC), *J. Geophys. Res.*, 111, D10308, doi:10.1029/2005JD006454.

Schmidt, H., G.P. Brasseur, M. Charron, E. Manzini, M.A. Giorgetta, T. Diehl, V.I. Fomichev, D. Kinnison, D. Marsh, S. Walters, 2006: The HAMMONIA chemistry climate model: Sensitivity of the mesopause region to the 11-year solar cycle and CO₂ doubling, *J. Climate*, 19, 3903-3931.

Steinbrecht, W., B. Hassler, C. Brühl, M. Dameris, M.A. Giorgetta, V. Grewe, E. Manzini, S. Matthes, C. Schnadt, B. Steil, and P. Winkler, 2006, Interannual variation patterns of total ozone and lower stratospheric temperature in observations and model simulations, *Atmos. Chem. Phys.*, 6, 349-374.

Manzini, E., M.A. Giorgetta, M. Esch, L. Kornblueh, and E. Roeckner, 2006: The influence of sea surface temperatures on the Northern winter stratosphere: Ensemble simulations with the MAECHAM5 model, *J. Climate*, 19, 3863-3881.

Giorgetta, M.A., E. Manzini, E. Roeckner, M. Esch, and L. Bengtsson, 2006: Climatology and forcing of the quasi-biennial oscillation in the MAECHAM5 model, *J. Climate*, 19, 3882-3901.

Roeckner, E., R. Brokopf, M. Esch, M. Giorgetta, S. Hagemann, L. Kornblueh, E. Manzini, U. Schlese, and U. Schulzweida, 2006: Sensitivity of simulated climate to horizontal and vertical resolution in the ECHAM5 atmosphere model, *J. Climate*, 19, 3771-3791.

Tourpali, K., C.J.E. Schuurmans, R. van Dorland, B. Steil, C. Brühl, and E. Manzini, 2005: Solar cycle modulation of the Arctic Oscillation in a chemistry-climate Model, *Geophys. Res. Lett.*, 32, L17803, DOI: 10.1029/2005GL023509.

Egorova, T., E. Rozanov, E. Manzini, M. Haberreiter, W. Schmutz, V. Zubov, and T. Peter, 2004: Chemical and dynamical response to the 11-year variability of the solar irradiance simulated with a chemistry-climate model, *Geophys. Res. Lett.*, 31, L06119, DOI: 10.1029/2003GL019294.

Sigmond, M., P.C. Siegmund, E. Manzini, H. Kelder, 2004: A Simulation of the Separate Climate Effects of Middle-Atmospheric and Tropospheric CO₂ Doubling. *J. Climate*, 17, 2352-2367.

Horinouchi, T., S. Pawson, K. Shibata, U. Langematz, E. Manzini, M.A. Giorgetta, F. Sassi, R.J. Wilson, K.P. Hamilton, J. de Granpre, and A.A. Scaife, 2003: Tropical cumulus convection and upward propagating waves in middle atmospheric GCMs. *J. Atmos. Sci.*, 60, 2765-2782.

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stratospheric cooling, *J. Geophys. Res.*, 108(D14), 4429, DOI:10.1029/2002JD002977.

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Charron, M. and E. Manzini, 2002: Gravity waves from fronts: Parameterization and middle atmosphere response in a general circulation model. *J. Atmos. Sci.*, 59, 923-941.

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Manzini, E. and M.A. Giorgetta, 2001: Stratosphäre als Wetterfrosch, *Physic. Blätte*, 57, 19-20.

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Manzini, E. and K. Hamilton, 1993: Middle atmospheric travelling waves forced by latent and convective heating. *J. Atmos. Sci.*, 50, 2180-2200.

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