

Peter Bauer

Director of Destination Earth (Temp)

Destination Earth Department

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Summary:

I am the Director of Destination Earth at ECMWF and responsible for implementing ECMWF's contribution to this European Commission funded flagship action. This responsibility requires a strong engagement with our partners, the European Space Agency and the European Organization for the Exploitation of Meteorological Satellites, the funding agency represented by the Directorate General for Communications Networks, Content and Technology, but also with several contractual partners and the wider stakeholder communities from academia, national research centres and meteorological-hydrological services across our Member States, the European Commission, international organisations and industry.

Professional interests:

- Coordinating challenging international science-technology programmes in weather and climate prediction
- Implementing the concept of digital twins towards enhanced performance and making complex, interactive workflows accessible to users
- Addressing the high-performance computing and data handling challenges towards the exascale in our community
- Advancing Earth-system modelling and the fusion of simulations with observations
- Creating opportunities for a new generation of experts at the interface between Earth-system, computing and application science

Career background:

Education

- 1990-1992: University of Hamburg, Germany, Promotion Meteorology (Ph.D. degree), Prof. Dr. H. Grassl

- 1985-1989: University of Cologne, Germany, Diplom Meteorology (M.Sc. level), Prof. Dr. E. Raschke
- 1982-1985: University of Muenster, Germany, Vordiplom (B.Sc. level) Geophysics
- 1974-1982: Humboldt-Gymnasium, Dortmund, Germany, Abitur

Employment

- since 01/2022: Director Destination Earth, ECMWF
- 12/2015-12/2021: Deputy Director of Research, ECMWF
- 11/2013-12/2021: Manager of Scalability Programme, ECMWF
- 01/2011-12/2015: Head of Model Division, ECMWF
- 08/2007-12/2010: Head of Satellite Section, ECMWF
- 01/2000-07/2006: Senior scientist, ECMWF
- 10/1998-03/1999: Guest Scientist (DLR Research Award), Centre d'Etude des Environnements Terrestre et Planetaires l'Institut Pierre Simon Laplace, Velizy, Paris, France, Department de l'Atmosphere Basse et Moyenne
- 11/1997-04/1998: Guest Scientist, Universities Space Research Association (USRA), at NASA Goddard Space Flight Center, Greenbelt, MD, U.S.A., Laboratory for Atmospheres
- 07/1993-03/1994: Visiting Scientist Appointment by University Corporation of Atmospheric Research (UCAR fellowship) at National Oceanic and Atmospheric Administration (NOAA), National Environmental Satellite Data and Information Service (NESDIS), Camp Springs, Maryland, U.S.A., Microwave Sensing Group, Oceanic Sciences Branch
- 11/1989-12/1999: Researcher, German Aerospace Center (DLR), Institute for Systems Analysis, Group Leader: 'Remote Sensing of Precipitation and Evaporation'

External recognitions

Awards

- 2018: German Helmholtz Society International Fellow Award

- 2015: Group Achievement Award to Global Precipitation Measurement Post-Launch Team issued by the National Aeronautics and Space Administration (NASA)
- 2014: Certification of appreciation in recognition of outstanding contribution to the THORPEX programme issued by the World Meteorological Organization (WMO)
- 2012: Prof. Dr. Vilho Vaisala Award for the Development and Implementation of the Instruments and Methods of Observation, issued by World Meteorological Organization (WMO)
- 1997: Research Sabbatical Award of the German Aerospace Center
- 1994: Science Award of the German Aerospace Center

Field campaigns

- 1997: SO 116 campaign, Indian Ocean: Radiometric measurements of sea surface skin temperature and global radiation
- 1988: ARKTIS 88, Arctic Sea: Derivation of the surface radiation budget over sea-ice by satellite data. Validation by both airborne and surface measurement
- 1987: International Cirrus Experiment (ICE), North Sea: Derivation of radiative properties of cirrus clouds by airborne measurements and satellite data

Memberships and appointments

Member in several advisory and steering committee for WMO, ESA, EUMETSAT, DWD, KNMI, CMCC, PRACE, ISRO, NASA over the years