

Dr. Francis ZWIERS

Dr. ZWIERS is the **Director of the Climate Research Division of Environment Canada and an Adjunct Professor in the Department** of Physics of the University of Toronto. His expertise is in the application of statistical methods to the analysis of observed and simulated climate variability and change. He is a Fellow of the Royal Society of Canada, a recipient of the Pattern Medal, has served as an IPCC Coordinating Lead Author of the Fourth Assessment Report, and was recently elected to the IPCC Bureau where he serves as a **Vice Chair for Working Group I (IPCC)**.

Educational Record

- Ph.D., Dalhousie University, 1980, Department of Mathematics (Statistics)
- M.Sc., Acadia University, 1976, Department of Mathematics (Statistics)
- B. Math., University of Waterloo, 1974, Faculty of Mathematics

Professional Record

- Environment Canada
 - Director, Climate Research Division, 2006 -
 - Chief, Canadian Centre for Climate Modelling and Analysis, 2001-2006
 - Senior Scientist, Canadian Centre for Climate Modelling and Analysis, 2002-2006
 - Research Scientist, Canadian Centre for Climate Modelling and Analysis, 1993-2002
 - Research Scientist, Canadian Climate Centre, 1984-1993
- University of Toronto
 - Adjunct Professor, 2007-present, Department of Physics
- University of Victoria
 - Adjunct Professor, 1999-2007, School of Earth and Ocean Sciences
 - Adjunct Professor, 1995-2008, Department of Mathematics
- University of Saskatchewan
 - Assistant Professor, 1981-1984, Department of Mathematics and Statistics

Expertise

- Analysis of climate extremes, indices, variability and predictability
- Climate change detection
- Climate modelling and model assessment
- Statistics as applied in the climate sciences in general

Scientific Committees and Panels (selected)

- Vice Chair, Working Group I, Intergovernmental Panel on Climate Change, 2008 -
- Coordinating Lead Author, "Understanding and Attributing Climate Change", Chapter 9, Working Group I contribution to the IPCC Fourth Assessment Report
- Member, United States CCSP Product 3.3 Author Team (Climate Extremes)
- Associate Editor, Journal of Climate, 2005 -
- Member, Hadley Centre Science Review Group, 2004-2008
- Co-chair, Joint CCI/CLIVAR/JCOMM Expert Team on Climate Change Detection and Indices, 2003 -
- Lead Author, Climate Change Detection Chapter, WG1, IPCC Third Assessment Report
- Editor, Journal of Climate, 1999-2004
- Chairman, Steering Committee, International Meetings on Statistical Climatology, 1992 -

Awards and recognition

- Patterson Distinguished Service Medal, Meteorological Service of Canada, 2007
- International Meetings on Statistical Climatology Achievement Award, 2007
- Fellow of the American Meteorological Society, 2006
- Fellow of the Royal Society of Canada, 2004

Publications

- Career total: Approximately 160 articles, books, theses, chapters, non-reviewed publications, etc