

## **Biographical Sketches**

### **Dr. Becky Alexander**

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Professor Alexander received her B.A. degree with honors in chemistry at Colgate University in 1997, and her Ph.D. in Atmospheric Chemistry from the Department of Chemistry and Biochemistry at the University of California, San Diego in 2002 on an EPA STAR graduate fellowship. She was a NOAA and Daly postdoctoral fellow in the Department of Earth and Planetary Sciences at Harvard University from 2003-2005, and has been an Assistant Professor in the Department of Atmospheric Sciences and the Program on Climate Change at the University of Washington since July 2005. Her research interests lie in the feedbacks between atmospheric chemistry and climate change. She makes use of the oxygen isotopic composition of nitrate and sulfate aerosols from aerosol, water, snow and ice samples to study photochemical oxidant chemistry on a variety of timescales. Her research also involves global 3-D chemical transport modeling with emphasis on quantifying the importance of various oxidation pathways using oxygen isotopic tracers.

### **Dr. Roger Barry**

Distinguished Professor  
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Roger Barry is currently a Distinguished Professor of Geography at the University of Colorado and a Fellow of the Cooperative Institute for Research in Environmental Sciences. He has most recently served as the Director of the National Snow and Ice Data Center. Dr. Barry received his B.S degree in Geography in 1957 from Liverpool University, his M.Sc. in 1959 from McGill University and his Ph.D. in 1965 in climatology from Southampton University. His teaching and research have focused on climate change, arctic and mountain climates, and snow and ice processes with field research in arctic Canada and New Guinea. He has published 20 textbooks, over 200 articles and supervised 55 graduate degrees. He has served on committees of the National Academy of Sciences and international programs (WCRP, GTOS, IPCC). His honors include Guggenheim Fellow (1982-3), Fulbright Teaching Fellow, Moscow (2001), Fellow, American Geophysical Union (1999); Foreign Member, Russian Academy of Natural Sciences (2001), Goldthwait Polar Medal (2006), Founder's Medal, Royal

Geographical Society, London, 2007. He has served visiting professorships in Australia, France, Germany, Japan, New Zealand, Russia, Switzerland and the United Kingdom.

**Dr. Cecilia Bitz**

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Cecilia Bitz is an assistant professor in the Atmospheric Sciences Department at University of Washington. Her research focuses on climate and climate change in high latitudes, especially involving snow and ice. One of Cecilia's recent publications offers an explanation for why Arctic sea ice is retreating rapidly in summer, but not in winter. She has also written about the near absence of warming and sea ice retreat in the Antarctic. The primary tools for her work are a variety of climate models, from simple reduced models to sophisticated climate system models. Dr. Bitz earned her Ph.D. in atmospheric sciences from the University of Washington in 1997. She is a member of the advisory board for the Community Climate System Model and the steering committee for the NOAA Climate and Global Change Postdoc program. Presently she serves on the Climate Research Committee of the National Research Council. She recently served on the US International Polar Year planning committee organized by National Research Council.

**Dr. Rosanne D'Arrigo**

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Dr. D'Arrigo received her B.S. and M.A. degrees in Biology from SUNY Binghamton in 1976 and 1980, and her Ph.D. in Geological Sciences from Columbia University in 1989. She is presently a Senior Research Scientist in the Tree-Ring Laboratory of the Lamont-Doherty Earth Observatory at Columbia University, and is the Associate Director of Lamont's Biology and Paleoenvironment Division. Her research involves the study of tree-ring analysis and dendroclimatic reconstructions of the climate of the past several millennia. Dr. D'Arrigo has conducted field investigations at the Arctic treeline in Alaska and Canada, among other locations. She has published a number of papers and conference presentations on these and related topics related to understanding the past variability of the earth's climate system.

### **Dr. Daniel Kirk-Davidoff**

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Dr. Kirk-Davidoff received his B.S. degree in Geology and Geophysics from Yale College in 1990 and his Ph.D. in Meteorology from the Massachusetts Institute of Technology in 1998. He is Assistant Professor in the department of Atmospheric and Oceanic Science at University of Maryland. His research involves climate modeling of both ancient and future climates, as well as analysis and comparison of modern data records and climate model output, to reduce uncertainty in climate prediction. His paleoclimate modeling has included work on the warm polar climates of the Eocene, and on the Messinian desiccation of the Mediterranean.

### **Dr. David Reusch**

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Dr. Reusch received his B.A. degree in Computer Science from the University of Maine at Orono in 1986, M.Sc.'s in Computer Science and Earth Sciences from the University of New Hampshire in 1995 and 1997, respectively, and his Ph.D. in Geosciences from the Pennsylvania State University in 2003. His research involves the application of new analysis methods to the study of variability and change in numerous climate- and paleoclimate-related datasets, primarily involving the polar regions, with the goal of better understanding our records of past and present climate. His work is inherently interdisciplinary involving multiple aspects of meteorology, climatology, glaciology, oceanography and ice core science. He has a modest but growing number of publications in a variety of peer-reviewed journals (e.g., Journal of Geophysical Research, International Journal of Climatology) and has presented at numerous national and international professional meetings.

### **Dr. José A. Rial**

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Dr. Rial received his MSc. degree in Geology from the University of Michigan, Ann Arbor and his Ph.D. in Geophysics from the California Institute of technology in 1979. He is Professor of Geophysics and Environmental Science in the Department of Geological Sciences and the Institute for the Environment at UNC-Chapel Hill. His research involves nonlinear dynamics, paleoclimate modeling of ice core data using GCMs and low-dimensional models and field surveying of the mechanical response of Grenland's ice sheet to global warming. He has approximately 150 publications and conference presentations relating to those topics. He is director of the Environmental Visualization laboratory at the Institute for the Environment.

### **Dr. Vladimir E. Romanovsky**

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Professor Romanovsky received his M.A. degrees in Geophysics and Mathematics in 1975 and 1985 respectively from Moscow State University. He received his Ph.D. in Geology from Moscow State University in 1982 and his Ph.D. in Geophysics from the University of Alaska, Fairbanks in 1996. His research interests include the scientific and practical aspects of environmental and engineering problems involving ice and permafrost. This includes problems in the areas of soil physics, thermodynamics, heat and mass flow, and growth and decay processes associated with permafrost, subsea permafrost, seasonally frozen ground and seasonal snow cover, and analytical and numerical modeling in geology and geophysics.. He currently has over 100 juried publications and has served in several national and international task forces and working groups, engaged in planning efforts for Arctic science and permafrost modeling. He is a past president of the US Permafrost Association and currently serves in the CliC (Climate and Cryosphere) Scientific Steering Group which has the overall responsibility for the planning and guidance of the CliC Project (WCRP-SCAR).

### **Dr. William Ruddiman**

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Dr. Ruddiman received a B.A. in geology from Williams College in 1964 and a PhD in Marine geology from Columbia University in 1969. He retired from the Environmental Sciences department of the University of Virginia in 2001. His research has explored climatic changes on tectonic, orbital, and Holocene time scales. He has published over 120 papers, one textbook ("Earth's Climate"), and one trade book ("Plows, Plagues, and Petroleum").

### **Dr. Gavin Schmidt**

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Dr. Gavin Schmidt received his First Class BA (Hons) in Mathematics from the University of Oxford in 1998 and his PhD in Applied Mathematics (University College London, 1994). He was a postdoctoral fellow at the Center for Climate Change Research, McGill University from 1994 to 1996, and subsequently a NOAA Postdoctoral Fellow in Climate and Global Change until 1998 at the NASA Goddard Institute for Space Studies in New York. He is currently employed by NASA at the same institute. His research is related to modeling the impacts of forcings and events on climates of the past, present and future. He was instrumental in leading the GISS contributions to IPCC AR4 and further development of GISS Earth System Modeling. He has over 50 peer reviewed publications. He is an associate editor for the Journal of Climate and co-chair of the PAGES/CLIVAR Intersection Panel.

### **Henriette Skourup**

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Henriette Skourup received her M. Sc. from University of Copenhagen in 2004. Worked as a research assistant at the Danish National Space Center until starting a Ph.D. program January 2006 in Arctic Ocean sea ice thickness and mean sea level from satellite altimetry. Experience in sea ice since 1997, when she began working part time during her studies as a sea ice analyst at the Danish Meteorological Institute. She has participated in multiple field campaigns since 1999 primarily with airborne altimetry (laser and radar) in the Arctic for retrieval of sea ice freeboards, as well as height estimates of glaciers and ice sheets. In addition she has participated in various airborne gravity surveys in Mongolia and Germany.