Philip Mote

Professor; Director, OCCRI and Oregon Climate Services

Discipline: Physics of Oceans and Atmospheres
Secondary Discipline: Geography, Environmental Sciences, and Marine Resource Management
Office: StAg 326B
Phone: 541-737-5694
Fax: 541-737-2540
Email: pmote@coas.oregonstate.edu

Philip W. Mote is a professor in the College of Earth, Oceanic, and Atmospheric Sciences at Oregon State University; director of the Oregon Climate Change Research Institute (OCCRI) for the Oregon University System; and director of Oregon Climate Services, the official state climate office for Oregon. Dr. Mote's current research interests include scenario development, regional climate change, regional climate modeling with a superensemble generated by volunteers' personal computers, and adaptation to climate change. He is the coleader of the NOAA-funded Climate Impacts Research Consortium for the Northwest, and also of the Northwest Climate Science Center for the US Department of the Interior. Since 2005 he has been involved in the Intergovernmental Panel on Climate Change, which shared the 2007 Nobel Peace Prize. He is also a coordinating lead author and advisory council member for the US National Climate Assessment, and has served on numerous author teams for the National Research Council (NRC). He earned a B.A. in physics from Harvard University and a Ph.D. in atmospheric sciences from the University of Washington, and arrived at OSU to establish OCCRI in 2009.

Research Interests

Climate variability and change in the Pacific Northwest; mountain snowpack and its response to climate variability and change; interpretation of global model and satellite data; impacts of climate change on water resources, forests, shorelands; sea level rise; adaptation to climate change.

Current Research

Regional modeling with massive ensembles using volunteer computing; optimal design of surface climate observing networks; finescale variability of surface temperature; satellite observations of tropical climate variability and feedbacks

Education

A.B., Physics, Harvard College 1987
PhD, Atmospheric Sciences, University of Washington 1994