

# How Ice Sheets Influence Global Climate Change and Sea Level Rise



Peter U. Clark

Distinguished Professor of Earth, Ocean, and Atmospheric Sciences

## CURRENT RESEARCH

### Consequences of future sea level change aid policy decisions

With a high percentage of the world's population living near sea level, even small amounts of future sea level rise will have substantial societal and economic impacts. But why are sea levels rising? The largest contribution is from melting glaciers and ice sheets. Therefore, understanding their past behavior in response to climate change can provide critical information for assessing their future contributions due to climate change. Dr. Peter Clark, Professor of Earth, Ocean, and Atmospheric Sciences at Oregon State University, studies the history of glaciers and ice sheets to understand their role in the global climate system and their contributions to sea level changes. Involved in projects that investigate the history of glaciation in Scandinavia, Ireland, North America, the tropics, and Antarctica, he and his group are working to understand how these former glaciers and ice sheets interacted with the climate system and caused past changes in sea level.

Dr. Clark has been involved in research for twenty-five years, leading to a number of ongoing projects with important milestones. His expertise sets him apart from many other researchers within his field because of the breadth of his research on climate change, ranging from relatively "deep time" to future change, in all aspects of the climate system and a wide variety of strategies to conduct that research. In recognition of his broadly based interdisciplinary research expertise, Dr. Clark recently served as a Coordinating Lead Author with the Fifth Assessment report by the Intergovernmental Panel on Climate Change, where he oversaw the chapter addressing past, present, and future global sea level change. The scientific findings by Dr. Clark and his close...

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## AFFILIATION



Oregon State University

## EDUCATION

- Ph.D. in 1984, University of Colorado
- M.Sc. in 1980, University of Waterloo
- B.S. in 1978, St. Lawrence University

## AWARDS

- Fellow, American Association for the Advancement of Science, 2016
- Distinguished Professor, Oregon State University, 2016
- Fellowship, Radcliffe Institute for Advanced Study, Harvard University (declined), 2016
- John Simon Guggenheim Fellowship, 2012
- Carter Award, Outstanding and Inspirational Graduate Teaching, Oregon State University, 2011
- and 3 more...

## RESEARCH AREAS

Environment, Atmospheric / Space, Natural Disasters / Emergency, Oceanic

## FUNDING REQUEST

Your contributions will support the continued research of Dr. Peter Clark, of Oregon State University, as he studies the history of glaciers and ice sheets and their interactions with the global climate system. Donations will fund the necessary \$250K/year required for personnel and \$150K-\$200K/year for field work, laboratory expenses, and publications costs. Combat the challenges that future climate and sea-level rise will have on our global community; support Dr. Clark's research.