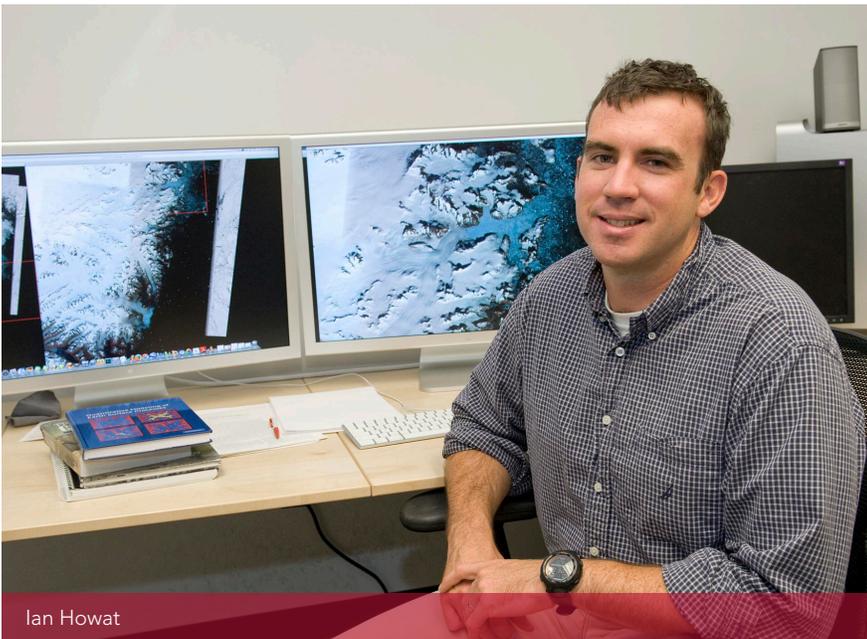


The Ohio State University Climate, Water, and Carbon Program (CWC) is a collaboration of 45 scientists and policy researchers from across disciplines at Ohio State, studying abrupt global climate change and related impacts. The CWC brings together faculty from five colleges and multiple departments to work together, forming interdisciplinary teams.



Ian Howat

FACULTY FOCUS: SCIENTIST EARNS TOP AWARD

Earth Scientist Ian Howat studies glacier and ice sheet dynamics. He uses data collected from space satellites, in-situ data networks, and field observation to construct models to predict future changes in ice sheet mass balance and rates of sea level rise. Howat has led expeditions to Antarctica, Iceland and Greenland; in 2011, Howat received a Presidential Early Career Award for Scientists and Engineers (PECASE), the U.S. government's top award for young researchers in these areas.

AT A GLANCE

The CWC has developed six core projects that include:

- Satellite Hydrology with Emphasis on the Amazon and Congo River Basins (water)
- Carbon Management In Terrestrial Ecosystems (carbon)
- Low-latitude glacier retreat: Evidence of accelerating climate change and impacts on local to regional water resources (climate)
- Designing Incentives for Ecosystem Services (carbon)
- Designing effective land management policies for the 21st century Ohio River Basin (water)
- Quantifying the geophysical causes of present-day global sea level rises, a look at how the melting of tropical glaciers impacts those living downstream (climate)

CWC PROGRAM ACCOMPLISHMENTS

Funded 44 faculty including their students, travel, and equipment

Integrates faculty from five colleges: Arts and Sciences; Engineering; Food, Agricultural and Environmental Sciences; Public Health; and Veterinary Medicine; from the John Glenn School of Public Affairs; the Byrd Polar Research Center; and the Ohio Agricultural Research and Development Center

Sponsored researchers have published or submitted over 250 publications.

Awarded grants valued at \$15.8 million

Has supported funding for over 150 researchers, scientists and staff

Awarded joint funding with the Public Health Preparedness for Infectious Diseases for two new projects addressing public health and climate change

Launched a fully operational home on the web that is providing communication to scientific and policy colleagues as well as content directed toward public outreach—cwc.osu.edu

Hosted many seminars, including the visits of President Grímsson of Iceland and President Ahmed of Bangladesh, leading to joint research commitments

Hosted the meeting of the Surface Water and Ocean Topography satellite mission attended by 70 researchers from around the world



Coshocton Watershed Project, researching carbon in Ohio's waterstreams

“THE CLIMATE, WATER, AND CARBON PROGRAM WAS INITIATED BY A FIVE-YEAR TIE (TARGETED INVESTMENT IN EXCELLENCE) GRANT OF \$12 MILLION. FUNDING TODAY CONTINUES THROUGH THE UNIVERSITY, AND ALL OF THE CWC PROJECTS ARE SUPPORTED BY GRANT MONEY FROM GOVERNMENT AGENCIES.”

{Doug Alsdorf, Director, CWC}

RESEARCHERS FOCUS ON THREE KEY QUESTIONS

- Are we causing an abrupt climate change today?
- How much water is available and how does it vary in space and time?
- What strategies can be implemented to offset the impact of fossil fuel combustion on the Earth's ecosystems and how do these affect climate change and water resources?

CLIMATE, WATER, AND CARBON PROGRAM
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DISCOVER ASC