

Meet our guest editors



Jessica Badgeley

University of Washington,
Seattle, USA

Jessica recently completed her PhD under the supervision of Dr. Eric Steig and Dr. Gregory Hakim. Her research explored the ways in which the network of polar ice cores can be leveraged to learn about climate and ice-sheet changes. Her current focus is on Antarctic Ice Sheet ice-surface elevation change, particularly in West Antarctica. Along with research, Jessica emphasizes outreach and collaboration. For over 10 years, she has been involved in Inspiring Girls Expeditions, a team-oriented organization that seeks to inspire female-identifying high-school-age youth by bringing them into the field with female-identifying professional scientists, mountaineers, and artists.

T.J. Fudge

University of Washington, Seattle, USA

T.J. studies glaciers and past climate, focusing on Antarctic ice cores. He grew up on a small island in California and is drawn to



questions about how climate change will impact sea level. T.J. looks at records from the past decades to thousands of years ago that are stored in the ice sheet, to understand how our climate system and ice sheets evolve. He chooses to work at the University of Washington because of great colleagues and students and the amazing natural laboratory that is Washington state.



Bess Koffman

Colby College,
Waterville, ME, USA

Bess is a geochemist and paleoclimate scientist whose research is focused on understanding past climate variability. In particular, she uses ice-core records of atmospheric dust to learn how and why Earth's atmospheric circulation has changed through time. Earth's atmospheric circulation influences large-scale climate variability in several important ways: it affects the transport and delivery

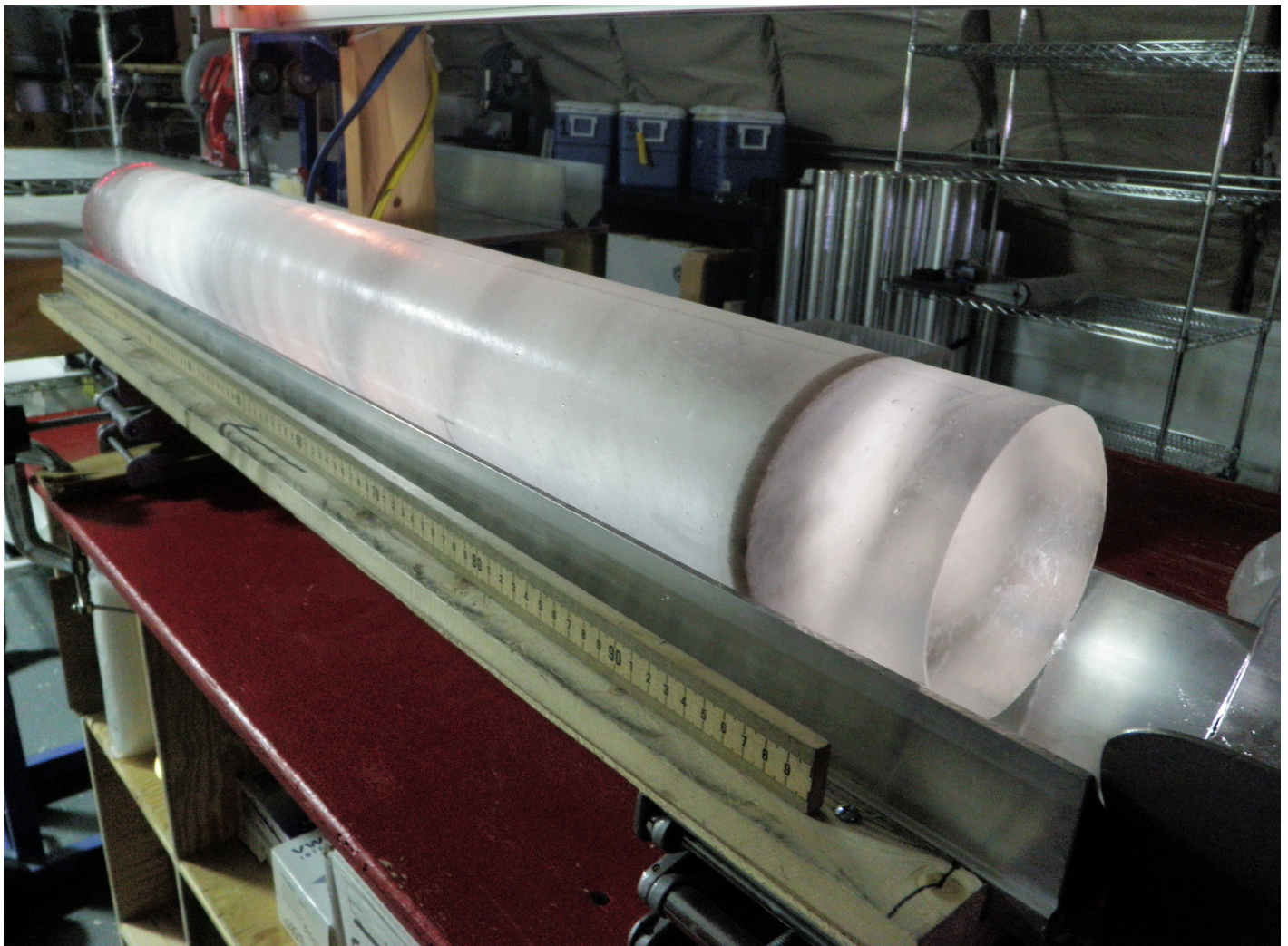
of oceanic heat; it exerts a strong influence on the exchange of carbon dioxide (CO₂) between the ocean and atmosphere; and it plays a large role in determining global rainfall distribution. Bess is also interested in the biogeochemical impacts of atmospheric deposition (e.g. mineral dust, volcanic ash, pollutants) on terrestrial and marine environments. Her work on ice, dust, and sediments has taken her to New Zealand, Antarctica, Alaska, and the Republic of Kiribati.



Summer Rupper

University of Utah, Salt
Lake City, USA

Summer's research objectives are part of a larger effort to characterize natural climate variability, and to quantify the impacts of climate change on physical and human systems. Her current research projects focus on quantifying glacier contributions to water resources and sea-level rise, assessing glacier sensitivity to climate change, and reconstructing past climate using ice cores and geomorphic evidence of past glacier extents.



Ice core from the West Antarctic Ice Sheet (WAIS) Divide showing a layer of volcanic ash (Photo credit: iccores.org, Heidi Roop, National Science Foundation, USA).