Meet our guest editors

Matthew Chadwick
British Antarctic Survey, Cambridge, UK, and Cornwall Insight, Norwich, UK

Matthew completed his PhD at the British Antarctic Survey in 2021, where he worked on reconstructing Antarctic sea ice during the peak of the last interglacial period. He is now a lead research analyst at Cornwall Insight, researching the latest developments in renewable energy and providing insights to help the UK's energy sector make the transition to net zero.

Karen E. Kohfeld
Simon Fraser University, Burnaby, BC, Canada

Karen is an Earth systems scientist concentrating on understanding climate and the global carbon cycle over glacial–interglacial cycles, using global datasets to test climate models. She also studies regional changes in climate and the carbon cycle, focusing on extreme weather behavior, ocean acidification, carbon storage in coastal wetlands and lacustrine environments, and changes in climate and fire behavior in western Canada over the last 10,000 years. She is a steering committee member of the PAGES working group Cycles of Sea-Ice Dynamics in the Earth System (C-SIDE; pastglobalchanges.org/c-side).

Amy Leventer
Colgate University, Hamilton, NY, USA

Amy is a micropaleontologist, who specializes in paleoclimatic reconstructions of the Antarctic, and modern geologic and biologic processes in the southern ocean. Her teaching specialties include oceanography, paleoclimatology, and environmental studies. Amy is the 2018 recipient of the Goldthwait Polar Medal, awarded by the Byrd Polar and Climate Research Center in recognition of her distinguished record of scholarship and service in polar science.

Anna Pieńkowski
Adam Mickiewicz University, Poznań, Poland, and University Centre in Svalbard, Longyearbyen, Norway

Anna works in the fields of micropaleontology, biogeochemistry, and marine geology in polar environments. She is a steering committee member of the PAGES working group Arctic Cryosphere Change and Coastal Marine Ecosystems (ACME; pastglobalchanges.org/acme). Her interests include studying environmental and climatic response of marine polar regions to global change past and present, the Late Quaternary environmental evolution of Arctic archipelagos, fidelity and appropriate use of biogenic proxies, and marine radiocarbon chronologies. She is currently PI on CHanging AntaRctic Marine Environments (CHARME), a project focused on the effects of recent climate warming on Antarctic ecosystems and environments funded by POLS (National Science Centre Poland & Norwegian Grants).

Heike Zimmermann
Geological Survey of Denmark and Greenland, Copenhagen, Denmark

Heike is an expert in paleoecology, working as researcher in the department of Glaciology and Climate. There, she studies changes in the cryosphere and marine ecosystems over time using sedimentary ancient DNA. She has participated in several field expeditions to retrieve both ice cores and marine sediment cores from polar regions.

Glaciated marine coastal environments are sentinels for climate change (Photo credit: Anna Pieńkowski).