

Clues on how the ocean exhales from the Southern Ocean: The importance of Drake Passage and deep gateways

Professor Liz Sikes, Rutgers University, USA

Thursday, 12 March 2020 at 1pm

Venue: Oceanography Seminar Room

Dr. Liz Sikes' research focuses on the interconnection of global carbon cycling, ocean circulation and climate change. She investigates past sea surface temperature and circulation changes in the Southern Ocean to determine sequestration and releases CO₂ from the deep ocean on glacial to interglacial time scales, that is, how the Southern Ocean "exhales". Dr. Sikes has over 25 years of experience in Southern Ocean sea-going science. She has been on 8 voyages to the Southern Ocean spanning activities that include a WOCE transect, sediment trap deployments, and coring. Most recently she led a coring cruise to the Southern Indian Ocean. Liz also examines sources, pathways, and sinks of terrestrial and marine carbon in modern environments and their role in ocean acidification.