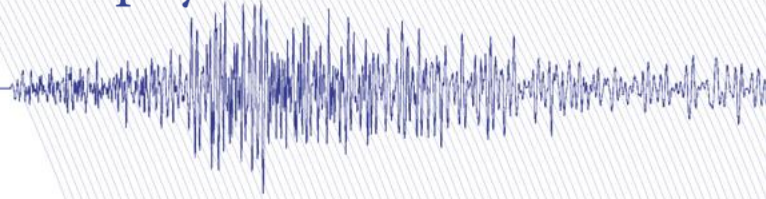


Australian Society of Exploration Geophysicists



Webinar

Date/Time: Tuesday April 21st | 12 pm AEST

Title: Characterizing extensive hydrogeologic systems beneath ice sheets and oceans using electromagnetic methods.

Presenter: Chloe Gustafson

To register: Email secretary@aseg.org.au by Monday April 20th, 12pm AEST

Abstract:

Groundwater systems hidden beneath ice sheets and oceans impact modern hydrologic processes and hold information about past Earth environments. These hydrologic systems are likely common features, yet the distribution and volume of groundwater remains poorly constrained due to challenging environments limiting observations. Improved characterization of subglacial and submarine groundwater systems is necessary for understanding past and present mechanisms of groundwater emplacement and global biogeochemical cycles. Furthermore, characterizing these systems is of immediate societal relevance, as subglacial groundwater may influence how ice is flowing and ultimately contributing to sea level rise, and submarine groundwater may represent an unexploited freshwater resource. In my talk, I will discuss how I use electromagnetic geophysical methods coupled with complementary geophysical and geochemical data to better understand groundwater systems beneath the West Antarctic Ice Sheet and offshore the U.S. Atlantic margin.

Bio:

Chloe graduated from Colorado School of Mines with a B.S. in geophysical engineering, and then continued on to graduate school at the Scripps Institution of Oceanography where she received her M.S. in Earth Science. Chloe is now a doctoral candidate at the Lamont-Doherty Earth Observatory where she uses marine and terrestrial electromagnetic geophysical methods to image submarine and subglacial groundwater systems. Chloe does remote fieldwork in Antarctica as well as offshore work on research vessels.



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