

Category

GG Geology, Geophysics, Solid Earth

Session Number

GG-1

Session Title

Magmatic, tectonic, and geodynamic investigations of the Polar Regions

Session Description

In recent years, geophysical and geological studies of the Arctic and Antarctic have uncovered exciting details of the crustal and lithospheric structure, the processes of geologic evolution, and the interplay between geodynamics, volcanism, and ice sheet development in the Polar Regions. This session aims to provide an interdisciplinary forum where results from new polar geoscience research will be shared. Contributions are encouraged from a wide range of disciplines, including but not limited to active and passive seismic studies, aerogeophysical investigations, MT, volcanism and volcano-related palaeoenvironmental studies, sedimentary geology, structural geology, and magmatism. By highlighting key investigations and tectonic regions of interest, this session will help seed new cross-disciplinary initiatives and promote the development of future international collaborations for Arctic and Antarctic geoscience. This session is sponsored by AntVolc, the SCAR expert group for Antarctic volcanism.

Keywords: Geophysics, Volcanology, Geology, Geodynamics, Arctic, Antarctic

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