SE03: Recent advances in Canadian Arctic Geoscience Research

Conveners: Andrew Schaeffer[1], Fiona Darbyshire[2], and Pascal Audet[3]

Co-chairs: Andrew Schaeffer[1], Fiona Darbyshire[2] and Pascal Audet[3]

[1] Dept. Earth and Environmental Sciences, University of Ottawa, Ottawa, ON, K1N 6N5
Phone: 613-562-5800 x4761, E-mail: andrew.schaeffer@uottawa.ca
[2] Centre GEOTOP, Université du Québec à Montréal, Montréal, QC, H3C 3P8, Phone: 514-987-3000 x5054, Email: darbyshire.fiona_ann@uqam.ca
[3] Dept. Earth and Environmental Sciences, University of Ottawa, Ottawa, ON, K1N 6N5
Phone: 613-562-5800 x2344, E-mail: pascal.audet@uottawa.ca

Session Description

Due to its remote location and correspondingly complex logistics, large-scale detailed study of the Canadian Arctic has been relatively limited in contrast to the southern and central Canadian landmass. However, over the last decade, increased terrestrial geophysical instrumentation and geologic investigation are shedding new insight on the complex tectonic evolution of this northern region. Furthermore, as levels of sea ice coverage continue to decrease over the summer months, access to offshore regions will continue to expand. With such increased access and corresponding instrumentation, long-standing questions elucidating the links between surface geology and subsurface crust and mantle structure can now be more thoroughly investigated.

In this session we encourage submissions from geological, geochemical and geophysical studies examining the tectonic history and natural resource potential of the Canadian Arctic. In particular we welcome innovative and multi-disciplinary approaches addressing large-scale structure and evolution of the Arctic landmass and its margins.

Primary Affiliation: Joint Solid Earth / Earth Surface Processes