

Polar Knowledge Canada (POLAR) camp on Greiner Lake, Cambridge Bay
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Annual Report for 2017

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Because of logistic and organizatory reasons, the POLAR camp could not be set up on the northern shore of Greiner Lake in the field season of 2017. No activities related to the POLAR camp were performed in 2017. In the field season 2018, however, following the official opening of the Canadian High Arctic Research Station's (CHARS) campus, scientific research activities in the CHARS Experimental and Reference Area (ERA) will ramp up, with many POLAR in-house and partner scientists working in the CHARS ERA, especially in its Intensive Monitoring Area on the northern shore of Greiner Lake, north of Cambridge Bay. Therefore, the need arises again for a camp in the same location, which would accommodate the scientists working in the area in various projects.

Plans for 2018

In the spring, summer and early fall of 2018, POLAR will be conducting a range of field research activities, and a number of visiting research scientists, their graduate students, as well as northern students will come to Cambridge Bay to conduct this research. Most of these research activities, as well as the deployed scientific instrumentation will be on the northern shore of Greiner Lake. For safety and convenience, it is necessary for researchers to be stationed near these research and monitoring sites. Therefore, POLAR's Science & Technology Team would like to set up a field camp near Cambridge Bay, on the northern shore of Greiner Lake, in the same location (69° 13.145' N, 104° 51.911' W), and with the same structures and setup as in the proposal from the previous year. A range of research projects will be carried out, including work on tundra ecosystem description and mapping, arthropod monitoring, freshwater lake surveys, small mammal trapping, and installation of research instruments such as a weather station, frost tubes and thermistor arrays, river gauging stations, and eddy covariance towers. Researchers will come and go over the summer; there will be no more than 10 people in camp at any one time. Normal occupancy will be 4–5 people.