

Sentinel North International Arctic Field School (March 2-9th, 2018)

Summary of Snow Science Activities

In March 2018, Murray Richardson Richardson (PI for NCP Project M-28 “Surface-air mercury fluxes during spring snowmelt, Iqaluit, NU”) participated in Laval University’s Sentinel North field school activities along with former MSc student, Keegan Smith. During this time, the two organized and helped instruct snow-related field activities for all participants which included graduate students from various countries and Nunavut Arctic College Environmental Technology Program students. This included digging snow pits and analyzing snow properties such as density and grain size at Sylvia Grinnell Territorial Park and conducting snow and ground temperature surveys at a nearby lake and its watershed. Both M. Richardson and K. Smith also delivered lectures on snow and watershed hydrology as part of the in-class curriculum. Some photos are provided below.



Photo 1: Keegan Smith leads a snow pit exercise at Sylvia Grinnell Territorial Park.



Photo 2: An Igloo building session was held in parallel with the snow pit exercise, led by Solomon Awa.



Photo 3: Keegan presents on snow hydrology (using an avalanche probe as his pointer!)



Photo 4: "Lake 1" near Iqaluit, the site of the second snow-related field excursion where students learned about snow surveying and Arctic limnology.