

Subproject: Cryospheric geochemistry of halides

Actual field dates: January 24 – February 11, 2014

Field site: Sea-ice Environmental Research Facility (SERF), University of Manitoba, Winnipeg, Canada

Number of man-days in the field: 16

Summary:

In the 2014 SERF project, sea ice formation process was simulated at SERF's pond. Our main task is to look at chloride and bromide vertical distributions during the growth of new ice. Therefore, in this fieldwork, sea ice, snow and seawater samples were taken as the ice gradually grows into 36 cm thick. In-situ measurements are air temperature, snow surface and bottom temperatures, and ice core temperatures. Ice core samples in different depths (per 5 cm) were separated and we analyzed halides concentrations in the laboratory

Photos:

Fig.1: Collecting ice cores for analysis in the laboratory.

Credit: Dr. Feiyue Wang

Fig. 2: Wen Xu collecting snow samples.

Credit: Dr. Feiyue Wang

Participants:

Wen Xu (CEOS); Feiyue Wang (CEOS)

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For more information contact Wen Xu at xuw345@myumanitoba.ca



Figure 1



Figure 2