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Annual Summary Report for project 02 002 123R-M-Amended

This project seeks to reconstruct the Canadian High Arctic climate of the past by the analysis annual laminations (or varves) from lake sediments. The goal of this field season is conduct a stratigraphic survey of sediments layers. An inflatable boat will be used on the lake in order to measure sediment thickness and architecture with an acoustic device called "CHIRP". In parallel to the stratigraphic measurements, a bathymetric survey will be carried out. A temporary camp will be erected for the duration of the work. During the field season, two means of transportation will be used: airplane to reach the field locations and an ATV for ground transportation. No hasardous material is brought in the field and we will bring everything back to Resolute Bay. Instrumental data will be analyzed in our respective universities.

These data will be used for two PhD projects. Data will eventually be made freely available in world data centers and the Polar Data Catalog.

We will also provide NRI with an annual report. Results will be published in scientific journals and conferences, and on web sites. If results are important, press releases will be made.

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