Séminaire lundi le 23 janvier 2016 11:00 / Seminar Monday Jan 23rd 2017 11:00h

Sujet/Subject: Characterization of the mixed-layer height at Iqaluit, Nunavut from ground-based observations and numerical weather prediction models

Langue/language : Anglais/English

Conférencier/Lecturer: Dr. Gabrielle Gascon (EC)

Résumé/Abstract:

In an effort to improve weather forecast services in the Arctic, Environment and Climate Change Canada established a comprehensive automated and continuous weather observation site located next to the Iqaluit airport, Nunavut (64°N, 69°W), in the winter of 2016. The Iqaluit atmospheric observation site provides a unique set of ground-based measurements in the Eastern Canadian Arctic. Inaccurate mixing layer height (MLH) can affect short-range forecasting of high-impact weather, and regional climate modelling. Very few studies documented the MLH in the Arctic, especially over the eastern Canadian Arctic where atmospheric observations are limited. In this presentation, we use Iqaluit atmospheric observation between January and October 2016 to i) characterize the MLH at Iqaluit, and ii) evaluate the MLH representation in the HRDPS and RDPS.