

SCIENTIFIC RESEARCH LICENCE

LICENCE # 0202309N-M

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TITLE: CANDAC

OBJECTIVES OF RESEARCH:

In 2002 a group of researchers joined together to form the Canadian Network for the Detection of Atmospheric Change (CANDAC) with the objective of improving the state of observational atmosphere research in Canada. One of the first identified objectives was the necessity of an Arctic laboratory. Within four years, successful applications allowed CANDAC to open the Polar Environment Atmospheric Research Laboratory (PEARL) complex, leasing the building from the Meteorological Service of Canada (MSC) for a nominal fee, and equipping it with instrumentation appropriate to current questions in atmospheric science.

The PEARL complex is located at Eureka, Nunavut, 80N, 86.25W and 1,100km from the North Pole. It is located 425km northwest of the most Northern community in Canada (Grise Fiord) and is only accessible by charter plane, with the exception of an annual "sea-lift" by the Canadian Coast Guard. It is a unique national and international resource used for a variety of atmospheric research programs. It also provides support for other research programs. Parts of the PEARL complex are required to be independent. For example, the Ridge Laboratory has to provide and maintain resources for power, water, sanitation, accommodation and the like during emergencies. The other sites (OPAL and SAFIRE) can take advantage of the nearby weather station infrastructure that is used for regular support.

CANDAC is dedicated to addressing the issues within the three broad areas of air quality, ozone and climate change. The CANDAC objectives are: (1) understanding atmospheric change over Canada; (2) integrating measurements taken from space, aircraft, balloons and the ground; (3) providing quality-controlled research datasets to researchers; (4) linking with international networks for data exchange; (5) maintaining research-critical resources; (6) training skilled personnel; and (7) public education.

TERMS & CONDITIONS:

The holder of the licence will be bound by the terms and conditions of the Nunavut Impact Review Board Screening Decision Report (09YN017) and by the Department of Culture, Language, Elders and Youth archeological sites terms and conditions. These terms and conditions will form part of this licence.

DATA COLLECTION IN NU:

DATES: January 01, 2009-December 31, 2010

LOCATION: Ellesmere Island

Scientific Research Licence 0202309N-M expires on December 31, 2009

Issued at Iqaluit, NU on April 28, 2009



Mary Ellen Thomas
Science Advisor

