

SCIENTIFIC RESEARCH LICENCE

Licence # 14464R

File # 12 404 707

ISSUED BY: **Aurora Research Institute - Aurora College**
Inuvik, Northwest Territories

ISSUED TO: Dr. David Burgess
Geological Survey of Canada
588 Booth St (Rm 446)
Ottawa, ON K1A 0Y7
Tel: (613) 995-5891

ON: 10-Feb-09

TEAM MEMBERS: James Zheng

AFFILIATION: Geological Survey of Canada

FUNDING: Government A-base

TITLE: Melville Island South Ice Cap Mass Balance & Snow Pollution

OBJECTIVES OF RESEARCH:

The objective of this research is to measure changes in the Melville Ice Cap related to the changing climate.

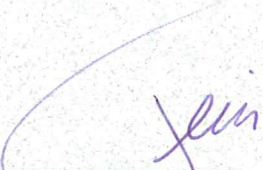
DATA COLLECTION IN THE NWT:

DATE(S): April 16 to April 19, 2009

LOCATION: South Melville Ice Cap

Licence Number 14464 expires on 31-Dec-2009

Issued in the Town of Inuvik on 10-Feb-09



for Pippa Seccombe-Hett
Director, Aurora Research Institute





FILE# 12 404 707

10-Feb-09

Dr. David Burgess
Geological Survey of Canada
588 Booth St (Rm 446)
Ottawa, ON K1A 0Y7

Dear Dr. Burgess:

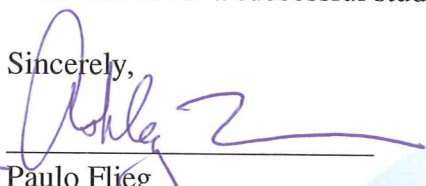
Enclosed you will find your 2009 Scientific Research Licence No. 14464 as prepared under the Northwest Territories Scientists Act and approved by the Science Advisor, Andrew Applejohn. Should you require support from the Aurora Research Institute's Research Centre(s), please contact the applicable Research Centre Manager(s) to discuss your research needs.

According to the Scientists Act, researchers issued licences must provide a summary report for each year of their research. Accordingly, upon completion of your 2009 field work in the Northwest Territories, please ensure that you provide a 200-word (maximum) non-technical summary of your research findings to our office. **This summary is due no later than June 30, 2010, or with your 2010 application, whichever is earlier. In addition, we require a copy of your final report and copies of any papers that you publish that pertain to research conducted under this licence. Finally, if/as applicable, please provide to the communities copies of any reports that you have offered to them or that they have requested as a condition of their support for your project.** Such reports should be provided to the communities prior to submitting new applications. This is especially important on multi-year projects, for which it is to be expected that the communities would be particularly interested in inspecting the results of past work before approving future work.

Thank you for assisting in the promotion and development of a scientific research community and database within the Northwest Territories. The summary report and other information that you provide are utilized in our annual report compendium, which is distributed to communities and organizations in the N.W.T. as well as to researchers across Canada.

Best wishes for a successful study!

Sincerely,


to Paulo Flieg
Manager, Scientific Services



Aurora Research Institute - Aurora College

PO Box 1450 Inuvik NT X0E 0T0

Phone: 867-777-4029 Fax: 867-777-4264 E-mail: licence@nwtresearch.com

Notification of Multi-Year Research

I would like to inform you that Scientific Research Licence No. 14464 has been issued to:

Dr. David O Burgess
Rm 446, 588 Booth Street
Ottawa, ON
K1A 0Y7 Canada
Email: David.Burgess@nrcan.gc.ca
Phone: 613-995-5891

to conduct the following study:

Melville Island South Ice Cap Mass Balance & Snow Pollution

This is year 1 of a 5 year project.

Please contact the researcher if you would like more information.

SUMMARY OF RESEARCH

This licence is being issued for the scientific research application no.1002.

The objective of this research is to measure changes in the Melville Ice Cap related to the changing climate. Weather measurements from an automatic weather station and snow sampling (of about 100g) will be taken. These types of samples have been collected over some time and are showing an ice cap retreat. By measuring the changing volume of the ice cap and maintaining an automatic weather station the researchers are able to track how much the climate is changing. The snow sampling tells how polluted the snow and thus the air above it and whether it is changing.

While at the Melville ice cap, the researchers live in a small hut by the side of the ice cap constructed in 2008.

The researchers have prepared posters of the work done on the ice cap so far and the results. These were sent to the Aurora Research Institute and the communities of Sachs Harbor and Holman. This practice will continue.

The fieldwork for this study will be conducted on the South Melville Ice Cap (75°27' N and 115°0' W) from April 16 to April 19, 2009.

Sincerely,


for Paulo Flieg
Manager, Scientific Services

DISTRIBUTION

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