

Metadata Input Form (* Mandatory fields)

Data Identification Information (Basic information about the data set)

Please use this template and save in your files as a backup of your metadata. Simply copy/paste information onto website.

Click on grey rectangles to type text

Title of data: *(e.g. Climate data in Northern Québec)
Automatic Weather Stations-Southern Baffin Island Mesonet

How should the data be cited: *(As unpublished data or a journal reference)

(Maximum characters: 500, including spaces)

Study Site: *
York University, Toronto, ON

Purpose: * (A summary of the intentions with which the data set was developed) provide measurements of temperature, humidity, wind and etc. for every 10 minutes.

(Maximum characters: 1500, including spaces)

Abstract: * (description of methodology and data type, e.g., interviews, physical and chemical variables, imagery, recordings, maps and other spatial data, profile, etc.)

A small mesonet of 10 automatic weather stations, within a 100 km radius of Iqaluit where installed at the end of September . The weather stations were positioned over various forms of topography to assess storm influences on surface weather. By collaborating with the local northern groups, Indian and Northern Affairs Canada (INAC) and Qulliq Energy Corp., four of the mesonet weather stations provided real-time weather data. Nine of these stations measured 3m wind velocity, pressure, 2m temperature, and 2m humidity every 10-minutes. One of the ten stations was a 10-m tower installation at the Environment Canada site in Iqaluit. This 10-m tower was equipped with similar instrumentation as the other mesonet stations, but also included anemometers sampling at 10 m, 4 m, 3 m, 2 m and 1 m and a visibility sensor. The Sentry visibility sensor has a maximum range up to 16 km, and was set to record data at one-minute sampling intervals . In addition to the ten southern Baffin Island weather station sites, an additional automatic weather station was setup in the community of Pangnirtung, October 13 – November 18, 2007.

(Maximum characters: 1500, including spaces)

Data Originators: *(e.g. name of data collector(s))
(Do not enter duplicate originators)
John Hanesiak, University of Manitoba CEOS, Winnipeg, MB

Ron Stewart, University of Manitoba CEOS, Winnipeg, MB

Kent Morre, University of Toronto, Toronto, ON

Peter Taylor, York University, Toronto, ON

Mengistu Wolde, Flight Research Laboratory, National Research Council of Canada, Ottawa, ON

Walter Strapp, Cloud Physics and Severe Weather Division, Environment Canada, Ottawa, ON

Links to data (if available, [enter NI Email address if direct link is not yet available](#)):
Not available

Status of data: * [Click on grey rectangle to view scroll down menu](#)
Completed

Maintenance and update frequency: * [Click on grey rectangle to view scroll down menu](#)
Daily

Geographic Coordinates (in decimal format)

Research Area *

[Coordinates should be in the range of -90.0000 to 90.0000 for the latitude and -180.0000 to 180.0000 for the longitude](#)

North (latitude N): 64.337.86'

South (latitude N): 63.12.72'

West (longitude W): -70° 13.94'

East (longitude W): -67° 15.49'

Time Period (covered by the data set)

* [Select entry from scroll down menu on website](#)

Start Year: * 2007

End Year: * 2007

Start Month: * October

End Month: * November

Start Day: * 1

End Day: * 30

Keywords (see Keywords Library)

(e.g., Air, temperature, Precipitation, Photosynthesis, Ocean, Soil, Bacterial production, Climate, Land, Policy, Charr)

* Select entry from the scroll down menu on the website or consult the Keywords Library

Keyword 1: *AWOS
Keyword 2: *Mesonet
Keyword 3: *
Keyword 4: *
Keyword 5: *
Keyword 6:
Keyword 7:
Keyword 8:
Keyword 9:
Keyword 10:

Security

Access: * Click on grey rectangle to view scroll down menu
Public