

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)
Visibility Sensor 2 data in Iqaluit, NU - STAR project

How should the data be cited: *(As unpublished data or a journal reference)

(Maximum characters: 500, including spaces)

Study Site: *
Environment Canada Weather Office in Iqaluit, NU

Purpose: * (A summary of the intentions with which the data set was developed)
Visibility measurements (max range 16 km with this instrument), used in analysis with blowing snow and precipitation observations.

(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.)

Two Sentry SVS-1 visibility sensors were installed at the Iqaluit Weather Office site. One instrument was an RS-232 Output version (Visibility 1), while the second was Analog version (Visibility 2) of the instrument. The instruments have measurement ranges of 30 m to 16 km with an accuracy of $\pm 10\%$. Both sensors were set to sample once every minute, and mounted at a height of 1.5 m.

Visibility 2 (Analog output), was positioned with the 10-m tower automatic weather station (A3) and the Weather Office site. A Campbell Scientific CR23X data logger was used to log the data. Data files are in a simple *.csv format where they contain date, time, visibility (km). To derive the visibility from the VDC the following formula was used: $\sigma \text{ km}^{-1} = 20 * (0.150/\text{VDC})$.

(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 Moore, University of Toronto, Toronto, ON

Peter Taylor, York University, Toronto, ON

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

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

Links to data (if available, [enter NI Email address if direct link is not yet 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): 63°44.847'

South (latitude N):

West (longitude W): 68°32.611'

East (longitude W):

Time Period (covered by the data set)

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

Start Year: * 2007

End Year: * 2008

Start Month: * October

End Month: * March

Start Day: * 23

End Day: * 31

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: * Visibility

Keyword 2: *

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