

## 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)  
aircraft W-band Doppler Velocity - Vertical profile (VDvp)

How should the data be cited: \*(As unpublished data or a journal reference)

(Maximum characters: 500, including spaces)

Study Site: \*

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

Purpose: \* (A summary of the intentions with which the data set was developed)

Provide vertical profile of wind speed

(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.)

The data from the nadir antenna should be good within  $\pm 0.5$  m/s even in high aircraft roll and pitch in non-folding situation. In high roll and pitch, the Vd data values could be higher than the maximum unambiguous velocity which is typically less than 8 m/s for W-band so the corrected data can have wrong values. No attempt is made to correct the folding.

Please note that the Up-looking/ down-looking data from the aft antenna are obtained using a fixed antenna and a reflector inside the radome (<http://www.nawx.nrc.gc.ca/nawx.html>). The position of the reflector is recorded in the real time data, but its accuracy is within a degree as a result the corrected data from the aft antenna can be off by up to 1 m/s. Since there is no reference to check how good the a/c removal is when the aft antenna beam is pointing Up, caution has to be used in using the Vd numbers. When the radar beam is pointing down (using either the aft antenna + reflector, or the fixed nadir antenna), one can use the ground Vd values to assess the accuracy of the aircraft motion removal.

(Maximum characters: 1500, including spaces)

Data Originators: \*(e.g. name of data collector(s))

(Do not enter duplicate originators)

on Stewart, University of Manitoba CEOS, Winnipeg, MB

John Hanesiak, 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](#)  
As needed

### 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): 69°03.07'

South (latitude N): 53°19.38'

West (longitude W): 66°27.38'

East (longitude W): 61°59.63'

### Time Period (covered by the data set)

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

Start Year: \* 2007

End Year: \*2007

Start Month: \*Nov

End Month: \*Nov

Start Day: \* 05

End Day: \*28

### 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: \*vertical profile of wind speed

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