

The Canadian Air and Precipitation Monitoring Network

Réseau canadien d'échantillonnage des précipitations et de l'air

**Air Quality Research Division
Citation and Acknowledgement Statements
For Inclusion in AQRD Data Files
Distributed through the Government of Canada Open Data Portal**

January 15, 2016

1. INTRODUCTION

Data files of the Air Quality Research Division (AQRD) are disseminated to the public through the Open Data Portal of the Government of Canada (open.canada.ca). The Open Government License – Canada (shown in Appendix 1) applies to all files disseminated through this Portal. The key elements of the Open Government License - Canada are:

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AQRD data files are formatted in the National Atmospheric Chemistry Database (NAtChem) Data Exchange Standard (DES). All DES files contain the following two attribution statements for use by scientists citing AQRD data sets in their scientific publications:

- Attribution Statement 1--Citation
- Attribution Statement 2--Acknowledgement.

Details of the two statements are provided below.

2. AQRD Attribution Statement 1 – Citation

The ‘AQRD Attribution Statement 1 – Citation’ follows the “Data Citation Guidelines for Data Providers and Archives of the Federation of Earth Science Information Partners (ESIP)” available at commons.esipfed.org/node/308. The ESIP citation elements are summarized in Table 1 with AQRD’s associated adaptations for use in DES data files.

Table 1. Elements of the “Data Citation Guidelines for Data Providers and Archives of the Federation of Earth Science Information Partners (ESIP)” with AQRD’s associated citation elements.

ESIP Citation Element	ESIP Citation Element Description	AQRD Citation Element	AQRD Citation Element Descriptions/Remarks
Author(s)	the people or organizations responsible for the intellectual work to develop the data set. The data creators.	Principal Investigator(s) and Co-Investigator(s) <i>or</i> Environment and Climate Change Canada [and collaborating agencies, if applicable], Air Quality Research Division [or name of monitoring network, if applicable], Toronto [or Ottawa], Canada	<i>Selection to be made by the Principal Investigator.</i> <i>If applicable, include the names of external co-investigator(s) and/or collaborating institution(s).</i> <i>In the case of data files from AQRD monitoring networks, state the network name rather than the Division name, e.g., Canadian Air and Precipitation Monitoring Network.</i>
Release Date	when the particular version of the data was first made available for use (and potential) citation by others.	Publication Date: Year the data set was published on the Data Portal	<i>Year the data file was released to the public through the Government of Canada Open Data Portal.</i>
Title	the formal title of the data set.	Data File Name(s)	<i>Available in the data file. Include multiple file names as appropriate.</i>
Version	the precise version of the data used. Careful version tracking is critical to accurate citation.	Date File Generated and Version Number [if available]	<i>Available in the data file.</i> <i>Include the version number(s) if available.</i>
Archive and/or Distributor	the organization distributing or caring for the data, ideally over the long term.	Government of Canada Open Data Portal at open.canada.ca/data	<i>Data distributor.</i>
Locator / Identifier	this could be a URL but ideally it should be a persistent service, such as a DOI, Handle or ARL, that resolves to the current location of the data in question	Digital Object Identifier (doi)	<i>Include if available in the data file.</i>
Access Date and Time	because data can be dynamic and changeable in ways that not always reflected in release dates and versions, it is important to indicate when on-line data were accessed.	Access Year-Month-Day	<i>The date the data user accessed the data file(s) from the Open Data Portal. For rapidly-changing files, include the time of day.</i>
Additional Fields as Necessary	Additional fields can be added as necessary to credit other people and institutions, etc.	External Co-investigator(s) <i>or</i> External Institution(s)	<i>As indicated above, include names of external co-investigator(s) and/or institution(s) as appropriate.</i>
Data Subsets	Additionally, it is important to provide a scheme for users to indicate the precise subset of	Data Subset	<i>As applicable, describe specific subset(s) of data extracted and used, e.g., specific time periods,</i>

	data that were used. This could be the temporal and spatial range of the data, the types of files used, specific query id, or other ways of describing the data were subsetted.		<i>site locations, aircraft flights, chemical species.</i>
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The Air Quality Research Division has three optional statements for “Attribution Statement 1 – Citation”. The AQRD Principal Investigator responsible for the data file will: (1) select one of the three Citation statements described below, (2) complete the appropriate statement by inserting the required information in the **red sections**, and (3) place the statement in the “Attribution Statement 1-Citation” cell of the DES file.

The three Citation statements cover the following options/cases:

Option 1: Citation to the Principal Investigator(s) and Co-Investigator(s), i.e., the data originators who created the data set;

Option 2: Citation to Environment and Climate Change Canada [and collaborating agencies as applicable] and the Air Quality Research Division or AQRD Monitoring Network;

Option 3: Citation to the authors of a journal publication to which the data file is directly associated.

Note: Principal Investigators will insert the appropriate information in the red sections from the file metadata and leave the blue sections for the data users to complete at the time of citing the data file.

Option 1: Citation to the Principal Investigator(s) by Name (Including External Co-Investigator(s) if applicable).

ATTRIBUTION STATEMENT 1--CITATION. Name of Principal Investigator(s), Year Released on Data Portal. Data file(s): Name, Version number [if available], generated Year – Month – Day, Digital Object Identifier(s) [If available]. Accessed [Year-Month-Day] from the Government of Canada Open Data Portal at open.canada.ca.

Hypothetical example as it would appear in a DES data file:

ATTRIBUTION STATEMENT 1--CITATION. Wang, D. and Li, S.-M., [Year Released on Data Portal]. Data file: JOSM_Aircraft_VOC_Canister_AB_2013_V4.csv, Version 4, generated 2013-08-08, doi.org/10.1010/eccan.2016.10.100. Accessed [Year-Month-Day] from the Government of Canada Open Data Portal at open.canada.ca.

Hypothetical example as it would appear in a Data User Publication in 2016:

Wang, D. and Li, S.-M., 2015. Data file: JOSM_Aircraft_VOC_Canister_AB_2013_V4.csv, Version 4, generated 2013-08-08, doi.org/10.1010/eccan.2016.10.100. Accessed 2015-07-02 from the Government of Canada Open Data Portal at open.canada.ca.

Option 2: Citation to Environment and Climate Change Canada (and External Collaborating Agencies if applicable).

ATTRIBUTION STATEMENT 1--CITATION. Environment and Climate Change Canada and Names of Co-Funding or Collaborating Agencies [if applicable], Year Released on Data Portal. Air Quality Research Division or Monitoring Network, Toronto, Canada. Data file(s): Name, Version number [if available], generated Year – Month – Day, Digital Object Identifier(s) [If available]. Accessed [Year-Month-Day] from the Government of Canada Open Data Portal at open.canada.ca.

Hypothetical example as it would appear in a DES data file:

ATTRIBUTION STATEMENT 1--CITATION. Environment and Climate Change Canada, 2015. Air Quality Research Division, Ottawa, Canada. Data file: JOSM_Aircraft_VOC_Canister_AB_2013_V4.csv, Version 4, generated 2013-08-08, doi.org/10.1010/eccan.2016.10.100. Accessed [Year-Month-Day] from the Government of Canada Open Data Portal at open.canada.ca.

Hypothetical example as it would appear in a Data User's Publication in 2016:

Environment and Climate Change Canada, 2015. Air Quality Research Division, Ottawa, Canada. Data file: JOSM_Aircraft_VOC_Canister_AB_2013_V4.csv, Version 4, generated 2013-08-08, doi.org/10.1010/eccan.2016.10.100. Accessed 2015-07-02 from the Government of Canada Open Data Portal at open.canada.ca.

Option 3: Citation to a Data Set Associated with a Journal Publication.

ATTRIBUTION STATEMENT 1--CITATION. Journal Publication Authors' Names, Year Released on Data Portal. Data associated with the following publication: Article Title, Journal Name, Volume #, Pages, Year. Data file(s): Name, Version number [if available], generated Year – Month – Day, Digital Object Identifier [If available]. Accessed [Year-Month-Day] from the Government of Canada Open Data Portal at open.canada.ca.

Hypothetical example as it would appear in a DES data file:

ATTRIBUTION STATEMENT 1--CITATION. Parsons, M.T., McLennan, D., Lapalme, M., Mooney, C., Watt, C. and Mintz, R., 2015. Data associated with the following publication: Total Gaseous Mercury Concentration Measurements at Fort McMurray, Alberta, Canada, Atmosphere, 4, 472-493, 2013. Data files: Fort McMurray Total Gaseous Mercury for 2010, Version 1, generated 2014-03-07, doi.org/10.1010/eccan.2016.10.100; Fort McMurray Total Gaseous Mercury for 2011, Version 1, generated 2014-03-07, doi.org/10.1010/eccan.2016.10.101; Fort McMurray Total Gaseous Mercury for 2012, Version 1, generated 2014-03-07, doi.org/10.1010/eccan.2016.10.102; and Fort McMurray Total Gaseous Mercury for 2013, Version 1, generated 2014-04-16, doi.org/10.1010/eccan.2016.10.103. Accessed [Year-Month-Day] from the Government of Canada Open Data Portal at open.canada.ca.

Hypothetical example as it would appear in a Data User's publication in 2016:

ATTRIBUTION STATEMENT 1--CITATION. Parsons, M.T., McLennan, D., Lapalme, M., Mooney, C., Watt, C. and Mintz, R., 2015. Data associated with the following publication: Total Gaseous Mercury Concentration Measurements at Fort McMurray, Alberta, Canada, Atmosphere, 4, 472-493, 2013. Data files: Fort McMurray Total Gaseous Mercury for 2010, Version 1, generated 2014-03-07, doi.org/10.1010/eccan.2016.10.100; Fort McMurray Total Gaseous Mercury for

2011, Version 1, generated 2014-03-07, doi.org/10.1010/eccan.2016.10.101; Fort McMurray Total Gaseous Mercury for 2012, Version 1, generated 2014-03-07, doi.org/10.1010/eccan.2016.10.102; and Fort McMurray Total Gaseous Mercury for 2013, Version 1, generated 2014-04-16, doi.org/10.1010/eccan.2016.10.103. Accessed [Year-Month-Day] from the Government of Canada Open Data Portal at open.canada.ca.

3. ATTRIBUTION STATEMENT 2--ACKNOWLEDGEMENT

Only a single Acknowledgement statement is provided. The AQRD Principal Investigator completes the Acknowledgement statement by inserting the required information and imbedding the statement into the Attribution Statement 2--Acknowledgement row of the DES file. **Note:** The last sentence of statement in square brackets ensures that, for any Derivative Work distributed or performed, data users take reasonable steps to clearly identify the changes that were made to AQRD's original work.

ATTRIBUTION STATEMENT 2: ACKNOWLEDGEMENT . The author(s) acknowledge Environment and Climate Change Canada and Names of Co-funding or Collaborating Agencies [if applicable] for the provision of type of data accessed from the Government of Canada Open Data Portal at open.canada.ca. [If applicable: The original data or data files were modified, used to produce derivative work, or redistributed in the following manner: ...enter details...].

Example as it would appear in a DES data file:

ATTRIBUTION STATEMENT 2--ACKNOWLEDGEMENT. The author(s) acknowledge Environment and Climate Change Canada and Aboriginal Affairs and Northern Development Canada for the provision of speciated mercury data accessed from the Government of Canada Open Data Portal at open.canada.ca. [If applicable: The original data or data files were modified, redistributed or used to produce derivative work in the following manner: ...enter details...]

Example as it would appear in a Data User's publication:

The authors acknowledge Environment and Climate Change Canada and Aboriginal Affairs and Northern Development Canada for the provision of speciated mercury data accessed from the Government of Canada Open Data Portal at open.canada.ca. The original data files were modified and redistributed in the following manner: UTC sampling dates and times were deleted and the data file format was converted from ASCII Comma Separated Values to Excel.

APPENDIX

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