



## Data Sharing and Use Agreement

November 15, 2018

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**CANUE Data Request ID:**

**(Note: Data Request ID will be issued by CANUE)**

### 1. Purpose of Agreement

This agreement documents the data sharing and use conditions related to the indicated dataset(s) ([Addendum 1](#)), the intended use of the dataset(s), the Principal Data User who takes delivery of the data and accepts responsibility for ensuring these conditions are fulfilled, and the project team members who will have access to the datasets. The signature of the Principal Data User is required to fully execute this agreement. Copies of this agreement must be provided to CANUE by email ([info@canue.ca](mailto:info@canue.ca)). CANUE will forward copies to all original data developers as per the exposure data source contact listed in the associated metadata files.

### 2. Disclaimer

Data are provided "as-is". While substantial efforts are made to ensure the accuracy of data and associated documentation, complete accuracy cannot be guaranteed. CANUE makes no guarantee, either express or implied, including but not limited to, the fitness for any purpose. The Data User holds all parties involved in the production or distribution of the data harmless for damages resulting from its use or interpretation.

### 3. Intended Use(s)

Use of CANUE datasets is restricted to academic, research, educational, or other not-for-profit purposes.

Project Name:

Associated Health Cohort or Health Database:

Project Summary:



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#### 4. Data users covered by this agreement

Principal Data User:

Email Address:

Academic Affiliation:

**\*REQUIRED:** Include the name of **Additional Project Team Members, Institutional Affiliation, Email Address**. If team members are students include their associated degree program (e.g., BA, BSc, MA, MSc, PhD, Post Doctoral)

I am affiliated with a Canadian academic institution listed in [Addendum 2](#). *(if no, please contact [info@canue.ca](mailto:info@canue.ca) to identify possible study collaborators)*

I have read the associated metadata files for the indicated datasets/variables and agree to abide by the limits for data sharing and use conditions contained in each file.

I will ensure all project team members are aware of and abide by the limits for data sharing and use conditions set out in each metadata file.

I understand this agreement will be terminated immediately upon breach of, or non-compliance with, any of its terms and/or those contained in each metadata file, and that I may be held responsible for any misuse that is caused or encouraged by failure of myself or members of the project team to abide by the terms of this agreement.

I agree to provide CANUE staff with information, upon request, on how the analytical results were disseminated, i.e., published journal articles, academic or professional conference abstracts, posters and presentations, invited presentations and webinars, and project reports.

Signature (Principal Data User)

Date



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### ADDENDUM 1. CANUE dataset(s) covered in this agreement

Please check all datasets requested. If you require subsets, please note in the space provided. A full list of dataset file names and attributes is included in [CANUE Data Dictionary.pdf](#)

#### POSTAL CODE DATASETS

POSTAL CODES - annual DMTI single link postal code files, 1983 to 2016

(DMTI\_SLI\_YY.csv files, where YY = last two digits of specific year of data)

Metadata file: [CANUE Metadata Postal Codes.pdf](#)

Subset only: *indicate specific province(s) and/or year(s)*

#### AIR QUALITY DATASETS

NITROGEN DIOXIDE – Land use regression-based ANNUAL concentration estimate, 1984 to 2012

(NO2LUR\_A\_YY.csv files, where YY = last two digits of specific year of data)

Metadata file: [CANUE Metadata NO2 LUR Annual.pdf](#)

Subset only: *indicate specific province(s) and/or year(s)*

NITROGEN DIOXIDE – Land use regression-based MONTHLY concentration estimates, 1984 to 2012

(NO2LUR\_M\_YY.csv files, where YY = last two digits of specific year of data)

Metadata file: [CANUE Metadata NO2 LUR Monthly.pdf](#)

Subset only: *indicate specific province(s) and/or year(s)*

GROUND-LEVEL OZONE – ANNUAL averages – of all hours, and of daily max 8-hour levels, modelled concentration estimate, 2002 to 2015

(O3NRC\_A\_YY.csv files, where YY = last two digits of specific year of data)

Metadata file: [CANUE Metadata O3 CHG Annual.pdf](#)

Subset only: *indicate specific province(s) and/or year(s)*

GROUND-LEVEL OZONE –MONTHLY averages of all hours, modelled concentration estimate, 2002 to 2015

(O3NRC\_M\_8H\_YY.csv files, where YY = last two digits of specific year of data)

Metadata file: [CANUE Metadata O3 CHG Monthly.pdf](#)

Subset only: *indicate specific province(s) and/or year(s)*

GROUND-LEVEL OZONE –MONTHLY averages –daily max 8-hour levels, modelled concentration estimate, 2002 to 2015

(O3NRC\_M\_MN\_YY.csv files, where YY = last two digits of specific year of data)

Metadata file: [CANUE Metadata O3 NRC Monthly 8H.pdf](#)

Subset only: *(indicate specific regions, time periods, or variables)*

**AIR QUALITY DATASETS (cont.)**

FINE PARTICULATES (PM2.5) – 3-year moving annual average satellite-based estimate, 2000 to 2012 (PM25DAL\_A\_YY.csv files, where YY = last two digits of specific year of data)  
Metadata file: [CANUE Metadata PM25 DAL Annual.pdf](#)  
Subset only: *indicate specific province(s) and/or year(s)*

SULFUR DIOXIDE – 3-year moving annual OMI satellite-based estimate, 2007 to 2015 (SO2OMI\_A\_YY.csv files, where YY = last two digits of specific year of data)  
Metadata File: [CANUE Metadata SO2 OMI Annual.pdf](#)  
Subset only: *indicate specific province(s) and/or year(s)*

**GREEN/BLUE SPACE DATASETS**

LANDSAT ANNUAL MEAN NDVI - annual mean normalized difference vegetation index files, 1984 to 2015 (GRLAN\_AMN\_YY.csv files, where YY = last two digits of specific year of data)  
Metadata file: [CANUE Metadata NDVI Landsat Annual.pdf](#)  
Subset only: *indicate specific province(s) and/or year(s)*

LANDSAT GROWING SEASON MEAN NDVI - growing season (May 1st - Aug 31st) mean normalized difference vegetation index, 1984 to 2015  
(GRLAN\_GMN\_YY.csv files, where YY = last two digits of specific year of data)  
Metadata file: [CANUE Metadata NDVI Landsat Annual.pdf](#)  
Subset only: *indicate specific province(s) and/or year(s)*

LANDSAT ANNUAL MAXIMUM NDVI - annual maximum normalized difference vegetation index, 1984 to 2015  
(GRLAN\_GP\_YY.csv files, where YY = last two digits of specific year of data)  
Metadata file: [CANUE Metadata NDVI Landsat Annual.pdf](#)  
Subset only: *indicate specific province(s) and/or year(s)*

**GREEN/BLUE SPACE DATASETS (cont.)**

MODIS ANNUAL MEAN NDVI - annual mean normalized difference vegetation index files, 2000 to 2015 (GRMOD\_AMN\_YY.csv files, where YY = last two digits of specific year of data)  
Metadata file: [CANUE Metadata NDVI MODIS Annual.pdf](#)  
Subset only: *indicate specific province(s) and/or year(s)*

MODIS ANNUAL MAXIMUM NDVI - annual maximum normalized difference vegetation index files, 2000 to 2005 (GRMOD\_AMX\_YY.csv files, where YY = last two digits of specific year of data)  
Metadata file: [CANUE Metadata NDVI MODIS Annual.pdf](#)  
Subset only: *indicate specific province(s) and/or year(s)*

MODIS GROWING SEASON MEAN NDVI - growing season (May 1st - Aug 31st) mean normalized difference vegetation index, 2000 to 2015 (GRMOD\_GMN\_YY.csv files, where YY = last two digits of specific year of data)  
Metadata file: [CANUE Metadata NDVI MODIS Annual.pdf](#)  
Subset only: *indicate specific province(s) and/or year(s)*

MODIS GROWING SEASON MAXIMUM NDVI - growing season (May 1st - Aug 31st) maximum normalized difference vegetation index, 1984 to 2015 (GRMOD\_GMX\_YY.csv files, where YY = last two digits of specific year of data)  
Metadata file: [CANUE Metadata NDVI MODIS Annual.pdf](#)  
Subset only: *indicate specific province(s) and/or year(s)*

AVHRR ANNUAL and GROWING SEASON NDVI - annual mean and maximum, and growing season (May 1st to Aug 31st) maximum normalized difference vegetation index, 1985 to 2013 (GRAVH\_A\_YY.csv files, where YY = last two digits of specific year of data)  
Metadata file: [CANUE Metadata NDVI AVHRR Annual.pdf](#)  
Subset only: *indicate specific province(s) and/or year(s)*

## **NEIGHBOURHOOD FACTOR DATASETS**

ACCESS TO EMPLOYMENT – measures of employment in Canada’s eight largest urban regions (NAE\_A\_16.csv)

Metadata file: [CANUE Metadata Access to Employment.pdf](#)

Subset only: *indicate specific province(s)*

MATERIAL AND SOCIAL DEPRIVATION INDICES - indicators of material and social deprivation based on census information, 1991, 1996, 2001, 2006 and 2011

(INDMSD\_A\_91.csv; INDMSD\_A\_96.csv; INDMSD\_A\_01.csv; INDMSD\_A\_06.csv; and INDMSD\_A\_11.csv)

Metadata file: [CANUE Metadata Deprivation Index.pdf](#)

Subset only: *indicate specific province(s) and/or year(s)*

CANADIAN MARGINALIZATION INDEX – indices of SES at the dissemination level

(CMG\_A\_YY.csv files, where YY = last two digits of specific year of data)

Metadata file: [CANUE Metadata Canadian Marginalization Index.pdf](#)

Subset only: *indicate specific province(s) and/or year(s)*

DMSP-OLS NIGHTTIME LIGHT - annual average nighttime brightness, 1992 to 2013

(LGTNLT\_A\_YY.csv files, where YY = last two digits of specific year of data)

Metadata file: [CANUE Metadata Nighttime Light Annual.pdf](#)

Subset only: *indicate specific province(s) and/or year(s)*

CANADIAN ACTIVE LIVING ENVIRONMENTS (Can-ALE) – geographic-based set of measures that represent the active living friendliness of Canadian communities, 2006 and 2016

(ALE\_A\_YY.csv files, where YY = last two digits of specific year of data)

Metadata file: [CANUE Metadata Canadian Active Living Environments.pdf](#)

Subset only: *indicate specific province(s) and/or year(s)*

## **WEATHER AND CLIMATE DATASETS**

WEATHER INDICATORS – annual metrics based on interpolated station data, 1985 to 2015

(WTHNRC\_A\_YY.csv files, where YY = last two digits of specific year of data)

Metadata file: [CANUE Weather NRCAN Annual.pdf](#)

Subset only: *indicate specific province(s) and/or year(s)*

LOCAL CLIMATE ZONES – categorized descriptions of climate zones located at postal code level

(LCZ\_A\_YY.csv, where YY = last two digits of specific year of data)

Metadata file: [CANUE Metadata Local Climate Zones.pdf](#)

Subset only: *indicate specific province(s) and/or year(s)*

**WEATHER AND CLIMATE DATASETS (cont.)**

WATER BALANCE – ANNUAL, postal code level, 1983-2015  
(WBNRC\_A\_YY.csv, where YY = last two digits of specific year of data)  
Metadata file: [CANUE Metadata Water Balance NRCAN Annual.pdf](#)  
Subset only: *indicate specific province(s) and/or year(s)*

WATER BALANCE – MONTHLY, postal code level, 1983-2015  
(WBNRC\_M\_YY\_xx.csv, where YY = last two digits of specific year of data, and xx= unique numerical Id for variable)  
Metadata file: [CANUE Metadata Water Balance NRCAN Monthly.pdf](#)  
Subset only: *indicate specific province(s) and/or year(s)*

- 01: Average monthly temperature
- 02: Average daily maximum temperature of the month (celsius)
- 03: Highest daily maximum temperature of the month (celsius)
- 04: Lowest daily maximum temperature of the month (celsius)
- 05: Average daily minimum temperature of the month (celsius)
- 06: Highest daily minimum temperature of the month (celsius)
- 07: Lowest daily minimum temperature of the month (celsius)
- 08: Monthly total precipitation (rain + snow) (mm)
- 09: Monthly total rainfall( mm)
- 10: Total monthly snowfall (mm)
- 11: Number of days in the month with precipitation >0
- 12: Number of days with snowfall
- 13: Number of days with snow on the ground
- 14: Average snow pack thickness of the month (mm)
- 15: Monthly total snow melt (mm)
- 16: Monthly total potential evapotranspiration (mm) or water demand
- 17: Monthly total actual evapotranspiration (mm)
- 18: Monthly total surplus (mm). Amount of excess water in the soil--from surface runoff, through flow, or groundwater recharge
- 19: Number of days surplus occurs
- 20: Monthly total deficit (mm)
- 21: Number of days deficit occurs
- 22: Monthly average soil moisture (%)
- 23: Minimum monthly soil moisture (%)
- 24: Relative index of wetness/dryness. Ranges from -1 (absence of precipitation) to 1 (absence of evapotranspiration); 0 means precipitation equals evapotranspiration



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### **ADDENDUM 2. Academic Institutions participating in the SMART Consortium Agreement with DMTI Spatial Inc.\***

#### **ATLANTIC REGION**

Dalhousie University  
Saint Mary's University  
Université de Moncton  
University of New Brunswick

#### **QUEBEC**

Concordia University  
École Polytechnique de Montréal  
McGill University  
Université de Montréal  
Université Laval

#### **ONTARIO**

Brock University  
Carleton University  
McMaster University  
Nipissing University  
Queen's University  
Ryerson University  
Trent University  
University of Guelph  
University of Ontario Institute of Technology  
University of Ottawa  
University of Toronto  
University of Waterloo  
University of Windsor  
Western University  
Wilfrid Laurier University  
York University

#### **WESTERN REGION**

MacEwan University  
Mount Royal University  
Simon Fraser University  
University of Alberta  
University of British Columbia  
University of Calgary  
University of Lethbridge  
University of Manitoba  
University of Northern British Columbia  
University of Regina  
University of Saskatchewan  
University of Victoria  
University of Winnipeg

*\* If your institution is not listed here, but currently is a member of the SMART Consortium, please contact [info@canue.ca](mailto:info@canue.ca).*