# Soil_Crop_Temp

**File Geodatabase Table**

Thumbnail Not Available

**Tags**

SMAPVEX12, soil temperature, vegetation temperature

## Summary

This table was generated for use in analysis and validation associated with the SMAPVEX12 (Soil Moisture Active-Passive Validation Experiment 2012) project.

## Description

This table presents soil and vegetation temperature dataduring the course of the SMAPVEX12 field campaignbetween June 7 and July 19. Temperature values were recorded for both shaded and exposed soil and vegetation at the surface, as well as for soil at depths of 5 and 10 cm.

## Credits

Grant Wiseman Senior Geomatics Scientist – Scientifique principal en géomatique Agriculture and Agri-Food Canada – Agriculture et Agroalimentaire Canada Telephone - Téléphone: 204-259-4006 Cellular - Cellulaire: 204-293-6074 Facsimile - Télécopieur: 204-259-4055 200-303 Main Street, Winnipeg, MB R3C 3G7 grant.wiseman@agr.gc.ca

## Use limitations

All SMAPVEX12 data (except those already on public domain servers) will be placed on the University of Sherbrooke site. Access will be limited by password that will be provided to principle investigators and co-investigators listed below. It will be up to the principle investigators and co-investigators to ensure that staff, graduate students and post docs respect the terms of the agreement on usage and distribution. Access to the website will be restricted until July 1, 2013 for preliminary research and quality control. After July 1, 2013 all data will be transferred to a SMAP DAAC. Principle Investigators Heather McNairn, Agriculture and Agri-Food Canada Tom Jackson, USDA, ARS Hydrology and Remote Sensing Laboratory Co-Investigators Aaron Berg, University of Guelph Amine Merzouki, Agriculture and Agri-Food Canada Andreas Colliander, JPL Anne Walker, Environment Canada Brenda Toth, Environment Canada/MSC/HAL Catherine Champagne, Agriculture and Agri-Food Canada Craig Smith, Environment Canada Dara Entekhabi, MIT Eni Njoku, JPL Grant Wiseman, Agriculture and Agri-Food Canada Jarrett Powers, Agriculture and Agri-Food Canada Jiali Shang, Agriculture and Agri-Food Canada John Fitzmaurice, Agriculture and Agri-Food Canada Mahta Moghaddam, University Southern California Mike Cosh, USDA, ARS Hydrology and Remote Sensing Laboratory Narendra Das, JPL Paul Bullock, University of Manitoba Peggy O'Neill, NASA GSFC Ramata Magagi, University of Sherbrooke Rotimi Ojo, University of Manitoba Sab Kim, JPL Stéphane Bélair, Environment Canada - NWP and Data Assimilation Alicia Joseph, NASA GSFC Erika Podest, JPL John Kimball, University of Montana Kalifa Goïta, University of Sherbrooke Marco Carrera, Environment Canada, Meteorological Research Division Steven Chan, JPL Vanessa Escobar, NASA GSFC

ArcGIS Metadata ▶

## Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE environment, geoscientificInformation

* CONTENT TYPE Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

*Hide Topics and Keywords ▲*

## Citation ►

* TITLE Soil_Crop_Temp

PRESENTATION FORMATS * digital table

*Hide Citation ▲*

## Resource Details ►

DATASET LANGUAGES * English (CANADA)

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

SPATIAL REPRESENTATION TYPE * text table

* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; ESRI ArcGIS 10.0.5.4400

CREDITS

Grant Wiseman Senior Geomatics Scientist – Scientifique principal en géomatique Agriculture and Agri-Food Canada – Agriculture et Agroalimentaire Canada Telephone - Téléphone: 204-259-4006 Cellular - Cellulaire: 204-293-6074 Facsimile - Télécopieur: 204-259-4055 200-303 Main Street, Winnipeg, MB R3C 3G7 grant.wiseman@agr.gc.ca

ARCGIS ITEM PROPERTIES

* NAME Soil_Crop_Temp

* LOCATION
file://\\mbwinnfs106\gis$\data8\projects\land\soil\SMAPVEX12\data\Geodatabase\SMAPVEX_MASTER.gdb

* ACCESS PROTOCOL Local Area Network

*Hide Resource Details ▲*

## Resource Points of Contact ►

POINT OF CONTACT

INDIVIDUAL'S NAME Grant Wiseman

ORGANIZATION'S NAME Agriculture and Agri-Food Canada – Agriculture et Agroalimentaire Canada

CONTACT'S POSITION Senior Geomatics Scientist – Scientifique principal en géomatique

CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

PHONE

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FAX 204-259-4055

ADDRESS

TYPE

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ADMINISTRATIVE AREA Manitoba

POSTAL CODE R3C 3G7

COUNTRY CA

E-MAIL ADDRESS grant.wiseman@agr.gc.ca

*Hide Contact information ▲*

*Hide Resource Points of Contact ▲*

## Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY as needed

*Hide Resource Maintenance ▲*

## Resource Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

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*Hide Resource Constraints ▲*

## Data Quality ►

SCOPE OF QUALITY INFORMATION ►

RESOURCE LEVEL non-geographic dataset

*Hide Scope of quality information ▲*

*Hide Data Quality ▲*

## Geoprocessing history ►

PROCESS

PROCESS NAME

DATE 2012-12-14 12:38:05

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\CopyRows

COMMAND ISSUED

```
CopyRows "W:\data8\projects\land\soil\SMAPVEX12\data\Kurt\Final Tables\Soil and Veg Temperatures 20121015 .txt" W:\data8\projects\land\soil\SMAPVEX12\data\Kurt\SMAPVEX_MASTER.gdb\Soil_and_Veg_Temperatures_20121015 #
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

*Hide Geoprocessing history ▲*

## Distribution ►

DISTRIBUTION FORMAT

* NAME File Geodatabase Table

*Hide Distribution ▲*

## Fields ►

DETAILS FOR OBJECT Soil_Crop_Temp ►

* TYPE Table

* ROW COUNT 2919

DEFINITION

Soil and vegetation temperature data collected during the SMAPVEX12 field campaign.

DEFINITION SOURCE

AAFC

FIELD OBJECTID ►

* ALIAS OBJECTID

* DATA TYPE OID

* WIDTH 4

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Internal feature number.

* DESCRIPTION SOURCE

ESRI

* DESCRIPTION OF VALUES Sequential unique whole numbers that are automatically generated.

*Hide Field OBJECTID ▲*

FIELD Date_Capture ▶

* ALIAS Date_Capture

* DATA TYPE Date

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Date of observation.

DESCRIPTION SOURCE

AAFC

*Hide Field Date_Capture ▲*

FIELD Site_ID ▶

* ALIAS Site_ID

* DATA TYPE String

* WIDTH 255

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Identification number of the site at which the readings were taken.

DESCRIPTION SOURCE

AAFC

*Hide Field Site_ID ▲*

FIELD Soil_Temp_5 ►

* ALIAS Soil_Temp_5

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The soil temperature (°C) at a depth of 5 cm.

DESCRIPTION SOURCE

AAFC

*Hide Field Soil_Temp_5 ▲*

FIELD Soil_Temp_10 ►

* ALIAS Soil_Temp_10

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The soil temperature at a depth of 10 cm.

DESCRIPTION SOURCE

AAFC

*Hide Field Soil_Temp_10 ▲*

FIELD Sun_Veg ►

* ALIAS Sun_Veg

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Surface temperature (°C) of vegetation exposed to sunlight.

DESCRIPTION SOURCE

AAFC

*Hide Field Sun_Veg ▲*

FIELD Shade_Veg ►

* ALIAS Shade_Veg

* DATA TYPE String

* WIDTH 255

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Surface temperature  (°C) of vegetation in shadow.

DESCRIPTION SOURCE

AAFC

*Hide Field Shade_Veg ▲*

FIELD Sun_Soil ►

* ALIAS Sun_Soil

* DATA TYPE Integer

* WIDTH 4

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Surface temperature (°C) of soil exposed to sunlight.

DESCRIPTION SOURCE

AAFC

*Hide Field Sun_Soil ▲*

FIELD Shade_Soil ►

* ALIAS Shade_Soil

* DATA TYPE String

* WIDTH 255

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Surface temperature  (°C) of soil in shadow.

DESCRIPTION SOURCE

AAFC

*Hide Field Shade_Soil ▲*

*Hide Details for object Soil_Crop_Temp ▲*

*Hide Fields ▲*

## Metadata Details ►

* METADATA LANGUAGE English (CANADA)

* METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

METADATA IDENTIFIER 741B9E0E-07E4-4AFB-B476-C5749D086892

SCOPE OF THE DATA DESCRIBED BY THE METADATA * non-geographic dataset
SCOPE NAME * dataset

* LAST UPDATE 2013-03-19

ARCGIS METADATA PROPERTIES
METADATA FORMAT ArcGIS 1.0

METADATA STYLE FGDC CSDGM Metadata

STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2012-12-20 12:36:53
LAST MODIFIED IN ARCGIS FOR THE ITEM 2013-03-19 10:24:03

AUTOMATIC UPDATES
HAVE BEEN PERFORMED Yes

LAST UPDATE 2013-03-19 10:24:03