

Soil_Moisture_Stn_MAFRI

File Geodatabase Feature Class



Tags

SMAPVEX12, soil moisture, MAFRI

Summary

This shapefile was generated for use in field campaign planning, mapping and analysis associated with the SMAPVEX12 (Soil Moisture Active-Passive Validation Experiment 2012) project.

Description

This shapefile contains the point locations of four temporary soil moisture recording stations situated within fields surveyed during the SMAPVEX12 field campaign, carried out between June 7 and July 19, 2012. The stations are operated by Manitoba Agriculture, Food and Rural Initiatives (MAFRI).

Credits

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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/MS/CHAL 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 Goita, 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

[Hide Topics and Keywords ▲](#)

Citation ▶

TITLE Soil_Moisture_Stn_MAFRI

PRESENTATION FORMATS

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

RESOURCE IDENTIFIER

VALUE Soil_Moisture_Stn_MAFRI

[Hide Citation ▲](#)

Resource Details ▶

DATASET LANGUAGES * English (CANADA)

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

SPATIAL REPRESENTATION TYPE * vector

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

CREDITS

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ARC GIS ITEM PROPERTIES

* NAME Station_Soil_MAFRI

* LOCATION file:///mbwinfnfs106/gis\$/data8/projects/land/soil/SMAPVEX12/data/Geodatabase/SMAPVEX_MASTER.gdb

* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Extents ▶

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching
 * WEST LONGITUDE -98.282562
 * EAST LONGITUDE -97.908856
 * NORTH LATITUDE 49.812137
 * SOUTH LATITUDE 49.546828
 * EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM
 * WEST LONGITUDE 551895.118400
 * EAST LONGITUDE 578507.277000
 * SOUTH LATITUDE 5488812.773100
 * NORTH LATITUDE 5517993.107000
 * EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

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 ►

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[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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Principle Investigators

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 Jiali Shang, Agriculture and Agri-Food Canada
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 Narendra Das, JPL
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 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 Goita, University of Sherbrooke
 Marco Carrera, Environment Canada, Meteorological Research Division
 Steven Chan, JPL
 Vanessa Escobar, NASA GSFC

[Hide Resource Constraints ▲](#)

Spatial Reference ▶

ARCGIS COORDINATE SYSTEM

* TYPE **Projected**
 * GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983
 * PROJECTION NAD_1983_UTM_Zone_14N
 * COORDINATE REFERENCE DETAILS
 PROJECTED COORDINATE SYSTEM
 WELL-KNOWN IDENTIFIER 26914
 X ORIGIN -5120900
 Y ORIGIN -9998100
 XY SCALE 10000
 Z ORIGIN -100000
 Z SCALE 10000
 M ORIGIN -100000
 M SCALE 10000
 XY TOLERANCE 0.001
 Z TOLERANCE 0.001
 M TOLERANCE 0.001
 HIGH PRECISION true
 WELL-KNOWN TEXT PROJCS["NAD_1983_UTM_Zone_14N",GEOGCS["GCS_North_American_1983",DATUM["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Transverse_Mercator"],PARAMETER["False_Easting",500000.0],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",-99.0],PARAMETER["Scale_Factor",0.9996],PARAMETER["Latitude_Of_Origin",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",26914]]

REFERENCE SYSTEM IDENTIFIER

* VALUE 26914
 * CODESPACE EPSG
 * VERSION 7.4.1

REFERENCE THAT DEFINES THE VALUE ▶

RESOURCE IDENTIFIER
 VALUE UTM NAD83 Zone 14N

Hide Reference that defines the value ▲

Hide Spatial Reference ▲

Spatial Data Properties ▶

VECTOR ▶

* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME Station_Soil_MAFRI
 * OBJECT TYPE point
 * OBJECT COUNT 4

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES ▶

* FEATURE TYPE Simple
 * GEOMETRY TYPE Point
 * HAS TOPOLOGY FALSE
 * FEATURE COUNT 4
 * SPATIAL INDEX TRUE
 * LINEAR REFERENCING FALSE

Hide ArcGIS Feature Class Properties ▲

Hide Spatial Data Properties ▲

Data Quality ▶

SCOPE OF QUALITY INFORMATION ▶

RESOURCE LEVEL dataset

Hide Scope of quality information ▲

Hide Data Quality ▲

Lineage ▶

SOURCE DATA ▶

SOURCE REFERENCE SYSTEM

VALUE UTM NAD83 Zone14

REFERENCE THAT DEFINES THE VALUE ▶

RESOURCE IDENTIFIER
 VALUE UTM NAD83 Zone14

Hide Reference that defines the value ▲

Hide Source data ▲

Hide Lineage ▲

Geoprocessing history ▶

PROCESS

PROCESS NAME

DATE 2012-05-23 10:52:45

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

COMMAND ISSUED

DeleteField SMAPVEX_1A

QTRDESC;FID_2;AREA;PERIMETER;F024_MB_;F024_MB_ID;TWP;RGE;SEC;QTR;MER;TWPX;RGEX;SECX;PFL;ACRES;TWPTMP;RGETMP;SECTMP;LOT_NUMBER;QS_VALUE;ARE.

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2012-05-29 10:44:07

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

COMMAND ISSUED

DeleteField SMAPVEX_1A FID_1

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2012-06-01 08:56:09

TOOL LOCATION C:\Program Files (x86)\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

COMMAND ISSUED

CalculateField SMAPVEX_1A QTRDESC "SE-01-10-7W1" VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

[Hide Geoprocessing history ▲](#)**Distribution ►**

DISTRIBUTOR ►

CONTACT INFORMATION

INDIVIDUAL'S NAME Grant Wiseman

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COUNTRY Canada

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[Hide Contact information ▲](#)

TRANSFER OPTIONS

ONLINE SOURCE

* LOCATION file://

* ACCESS PROTOCOL Local Area Network

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

* NAME File Geodatabase Feature Class

VERSION ArcGIS 10

[Hide Distribution ▲](#)**Fields ►**DETAILS FOR OBJECT [Station_Soil_MAFRI ►](#)

* TYPE Feature Class

* ROW COUNT 4

DEFINITION

Four temporary soil moisture recording stations situated within fields surveyed 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 Shape ▶

* ALIAS Shape
 * DATA TYPE Geometry
 * WIDTH 0
 * PRECISION 0
 * SCALE 0
 * FIELD DESCRIPTION
 Feature geometry.
 * DESCRIPTION SOURCE
 ESRI

* DESCRIPTION OF VALUES Coordinates defining the features.

[Hide Field Shape](#) ▲

FIELD Point_ID ▶

* ALIAS Point_ID
 * DATA TYPE String
 * WIDTH 10
 * PRECISION 0
 * SCALE 0

FIELD DESCRIPTION
 Identification number of the field in which the station was situated.

DESCRIPTION SOURCE
 AAFC

[Hide Field Point_ID](#) ▲

FIELD X ▶

* ALIAS X
 * DATA TYPE Double
 * WIDTH 8
 * PRECISION 0
 * SCALE 0

FIELD DESCRIPTION
 X-coordinate location in metres, projected in UTM North American Datum 1983 Zone 14N

DESCRIPTION SOURCE
 AAFC

[Hide Field X](#) ▲

FIELD Y ▶

* ALIAS Y
 * DATA TYPE Double
 * WIDTH 8
 * PRECISION 0
 * SCALE 0

FIELD DESCRIPTION
 Y-coordinate location in metres, projected in UTM North American Datum 1983 Zone 14N

DESCRIPTION SOURCE
 AAFC

[Hide Field Y](#) ▲

[Hide Details for object Station_Soil_MAFRI](#) ▲

[Hide Fields](#) ▲

Metadata Details ▶

* METADATA LANGUAGE English (CANADA)
 METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

METADATA IDENTIFIER B9D73C95-C124-4D14-AA0E-D7631EB771F5

SCOPE OF THE DATA DESCRIBED BY THE METADATA * dataset
 SCOPE NAME * dataset

* LAST UPDATE 2013-01-10

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0
 METADATA STYLE FGDC CSDGM Metadata
 STANDARD OR PROFILE USED TO EDIT METADATA NAP

CREATED IN ARCGIS FOR THE ITEM 2012-12-20 12:37:14
 LAST MODIFIED IN ARCGIS FOR THE ITEM 2013-01-10 16:17:15

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
 LAST UPDATE 2013-01-10 16:17:15

[Hide Metadata Details](#) ▲

Metadata Maintenance ▶

MAINTENANCE

UPDATE FREQUENCY as needed

[Hide Metadata Maintenance ▲](#)**Thumbnail and Enclosures ►**

THUMBNAIL
 THUMBNAIL TYPE JPG

[Hide Thumbnail and Enclosures ▲](#)**FGDC Metadata (read-only) ►****Identification ►**

CITATION
 CITATION INFORMATION
 ONLINE LINKAGE

[Hide Identification ▲](#)**Data Quality ►**

LINEAGE
 PROCESS STEP
 PROCESS DESCRIPTION
 Dataset copied.

SOURCE USED CITATION ABBREVIATION
 PROCESS DATE 2012-06-05
 PROCESS TIME 14:23:14

[Hide Data Quality ▲](#)**Entities and Attributes ►**

DETAILED DESCRIPTION
 ENTITY TYPE
 ENTITY TYPE LABEL Station_Soil_MAFRI
 ENTITY TYPE DEFINITION
 Four temporary soil moisture recording stations situated within fields surveyed during the SMAPVEX12 field campaign
 ENTITY TYPE DEFINITION SOURCE AAFC

ATTRIBUTE
 ATTRIBUTE LABEL OBJECTID
 ATTRIBUTE DEFINITION
 Internal feature number.
 ATTRIBUTE DEFINITION SOURCE ESRI
 ATTRIBUTE DOMAIN VALUES
 UNREPRESENTABLE DOMAIN
 Sequential unique whole numbers that are automatically generated.

ATTRIBUTE
 ATTRIBUTE LABEL Shape
 ATTRIBUTE DEFINITION
 Feature geometry.
 ATTRIBUTE DEFINITION SOURCE ESRI
 ATTRIBUTE DOMAIN VALUES
 UNREPRESENTABLE DOMAIN
 Coordinates defining the features.

ATTRIBUTE
 ATTRIBUTE LABEL Point_ID
 ATTRIBUTE DEFINITION
 Identification number of the field in which the station was situated.
 ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE
 ATTRIBUTE LABEL X
 ATTRIBUTE DEFINITION
 X-coordinate location in metres, projected in UTM North American Datum 1983 Zone 14N
 ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE
 ATTRIBUTE LABEL Y
 ATTRIBUTE DEFINITION
 Y-coordinate location in metres, projected in UTM North American Datum 1983 Zone 14N
 ATTRIBUTE DEFINITION SOURCE AAFC

[Hide Entities and Attributes ▲](#)