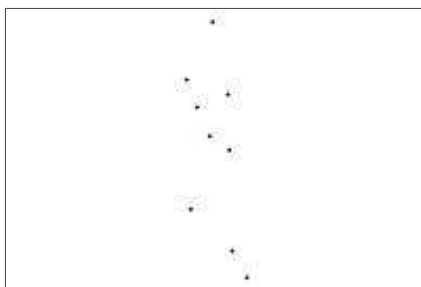


Station_Soil_SAGES

File Geodatabase Feature Class



Tags

SMAPVEX12, SAGES, soil moisture

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 nine permanent 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 Agriculture and Agri-Food Canada as part of the Sustainable Agriculture Environment Systems(SAGES) initiative.

Credits

Grant Wiseman Agriculture and Agri-Food Canada – Agriculture et Agroalimentaire Canada
Telephone - Téléphone: 204-984-4080 Cellular - Cellulaire: 204-293-6074 Facsimile - Télécopieur: 204-983-2178 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/MSCHAL 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

[Hide Topics and Keywords ▲](#)

Citation ►

* TITLE Station_Soil_SAGES

PRESENTATION FORMATS * digital map

RESOURCE IDENTIFIER

VALUE Station_SAGES_2

[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

Grant Wiseman
Agriculture and Agri-Food Canada – Agriculture et Agroalimentaire Canada
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200-303 Main Street, Winnipeg, MB R3C 3G7
grant.wiseman@agr.gc.ca

ARCGIS ITEM PROPERTIES

* NAME Station_Soil_SAGES

* SIZE 0.000

* LOCATION file:///\\mbwinnfs106\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 -98.027951

* EAST LONGITUDE -97.927388

* NORTH LATITUDE 49.752812

* SOUTH LATITUDE 49.492347

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

- * WEST LONGITUDE 570393.000000
- * EAST LONGITUDE 577265.000000
- * SOUTH LATITUDE 5482737.000000
- * NORTH LATITUDE 5511606.000000
- * 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 ►

PHONE

VOICE 204-984-4080
 FAX 204-983-2178

ADDRESS

TYPE both
 DELIVERY POINT 200-303 Main Street
 CITY Winnipeg
 ADMINISTRATIVE AREA Manitoba
 POSTAL CODE R3C 3G7
 COUNTRY Canada
 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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 Brenda Toth, Environment Canada/MS/CHAL
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 Craig Smith, Environment Canada
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 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
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 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

[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_SAGES
 * OBJECT TYPE point
 * OBJECT COUNT 9

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES ►

* FEATURE TYPE Simple
 * GEOMETRY TYPE Point
 * HAS TOPOLOGY FALSE
 * FEATURE COUNT 9
 * 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 ▲

Geoprocessing history ►

PROCESS

PROCESS NAME

DATE 2012-11-08 10:05:24

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

COMMAND ISSUED

CalculateField Manitoba1-10 Northing [X] VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2012-11-08 10:05:40

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

COMMAND ISSUED

CalculateField Manitoba1-10 Easting [X] VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2012-11-08 10:05:59

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

COMMAND ISSUED

CalculateField Manitoba1-10 Northing [Y] VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2012-11-08 10:07:43

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

COMMAND ISSUED

CalculateField Manitoba1-10 SAGES_ID [NewName] VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2012-11-14 10:14:39

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.0\ArcToolbox\Toolboxes\Conversion Tools.tbx\FeatureClassToFeatureClass

COMMAND ISSUED

```
FeatureClassToFeatureClass W:\data8\projects\land\soil\SMAPVEX12
\data\Kurt\SAGES_Stations.shp W:\data8\projects\land\soil\SMAPVEX12
\data\Kurt\SMAPVEX_MASTER.gdb\SMAPdatasets Station_SAGES_2 # "Legal "Legal"
true true false 254 Text 0 0 ,First,#,W:\data8\projects\land\soil\SMAPVEX12
\data\Kurt\SAGES_Stations.shp,Legal,-1,-1;SAGES_ID "SAGES_ID" true true false
10 Text 0 0 ,First,#,W:\data8\projects\land\soil\SMAPVEX12
\data\Kurt\SAGES_Stations.shp,SAGES_ID,-1,-1" #
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

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

DISTRIBUTION FORMAT

* NAME File Geodatabase Feature Class

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT [Station_Soil_SAGES ►](#)

* TYPE Feature Class

* ROW COUNT 9

DEFINITION

Point locations of nine permanent 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 [Legal ►](#)**

* ALIAS Legal

* DATA TYPE String

* WIDTH 254

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Legal land description (Section-Township-Range)

DESCRIPTION SOURCE
AAFC

Hide Field Legal ▲

FIELD **SAGES_ID** ►

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

FIELD DESCRIPTION

SAGES station identification number

DESCRIPTION SOURCE
AAFC

Hide Field SAGES_ID ▲

FIELD **X** ►

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

Hide Field X ▲

FIELD **Y** ►

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

Hide Field Y ▲

Hide Details for object Station_Soil_SAGES ▲

Hide Fields ▲

Metadata Details ►

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

METADATA IDENTIFIER A8DD8814-8DCD-42B3-A046-9F2B916F6FCA

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 12:37:15
 LAST MODIFIED IN ARCGIS FOR THE ITEM 2013-01-10 16:18:07

AUTOMATIC UPDATES
 HAVE BEEN PERFORMED Yes
 LAST UPDATE 2013-01-10 16:18:07

ITEM LOCATION HISTORY
 ITEM COPIED OR MOVED 2012-09-11 11:38:51
 FROM W:\data8\projects\land\soil\SMAPVEX12\data\Manitoba1-10
 TO \\mbwincfil1\gis\data8\projects\land\soil\SMAPVEX12\data\Grant\Manitoba1-10

[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) ►

Entities and Attributes ►

DETAILED DESCRIPTION
 ENTITY TYPE
 ENTITY TYPE LABEL Station_Soil_SAGES
 ENTITY TYPE DEFINITION
 Point locations of nine permanent 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 Legal
ATTRIBUTE DEFINITION
Legal land description (Section-Township-Range)
ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE
ATTRIBUTE LABEL SAGES_ID
ATTRIBUTE DEFINITION
SAGES station identification number
ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE
ATTRIBUTE LABEL X

ATTRIBUTE
ATTRIBUTE LABEL Y

Hide Entities and Attributes ▲