

# 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  
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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/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

*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

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#### 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

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##### ADDRESS

TYPE both

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CITY Winnipeg

ADMINISTRATIVE AREA Manitoba

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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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[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\SMAPdataset
s Station_SAGES_2 # "Legal "Legal" true true false 254 Text 0 0
,First,#,W:\data8\projects\land\soil\SMAPVEX12\data\Kurt\SAGES_Stations.shp,Le
gal,-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,SA
GES_ID,-1,-1" #
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2013-03-04 10:09:25

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

COMMAND ISSUED

```
CalculateField Station_Soil_SAGES SAGES_ID "1" VB #
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2013-03-04 10:09:42

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

COMMAND ISSUED

```
CalculateField Station_Soil_SAGES SAGES_ID "3" VB #
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2013-03-04 10:09:57

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

COMMAND ISSUED

CalculateField Station\_Soil\_SAGES SAGES\_ID "9" VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2013-03-04 10:10:13

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

COMMAND ISSUED

CalculateField Station\_Soil\_SAGES SAGES\_ID "7" VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2013-03-04 10:10:30

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

COMMAND ISSUED

CalculateField Station\_Soil\_SAGES SAGES\_ID "6" VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2013-03-04 10:10:44

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

COMMAND ISSUED

CalculateField Station\_Soil\_SAGES SAGES\_ID "2" VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2013-03-04 10:11:01

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

COMMAND ISSUED

CalculateField Station\_Soil\_SAGES SAGES\_ID "4" VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2013-03-04 10:11:12

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

COMMAND ISSUED

CalculateField Station\_Soil\_SAGES SAGES\_ID "5" VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2013-03-04 10:11:22

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

COMMAND ISSUED

CalculateField Station\_Soil\_SAGES SAGES\_ID "8" VB #

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 2013-03-19

#### 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 12:37:15

LAST MODIFIED IN ARCGIS FOR THE ITEM 2013-03-19 10:42:59

#### AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2013-03-19 10:42:59

#### 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