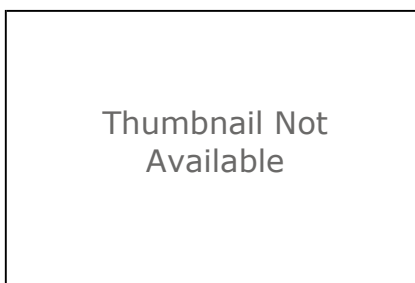


Soil_Txt_Properties

File Geodatabase Table



Tags

SMAPVEX12, soil texture, particle size analysis

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 texture data. Data were collected during the course of the SMAPVEX12 field campaign between June 7 and July 19. A particle size analysis was conducted to determine the textural class of samples.

Credits

Grant Wiseman Senior Geomatics Scientist – Scientifique principal en géomatique 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 Soil_Txt_Properties

PRESENTATION FORMATS * digital table

RESOURCE IDENTIFIER

VALUE Soil_Txt_Properties

[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

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ARCGIS ITEM PROPERTIES

* NAME Soil_Txt_Properties

* 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

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 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

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
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 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

[Hide Resource Constraints ▲](#)

Data Quality ►

SCOPE OF QUALITY INFORMATION ►

RESOURCE LEVEL non-geographic dataset

[Hide Scope of quality information ▲](#)

[Hide Data Quality ▲](#)

Distribution ►

DISTRIBUTION FORMAT

* NAME File Geodatabase Table

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT [Soil_Txt_Properties](#) ►

* TYPE Table

* ROW COUNT 71

DEFINITION

Soil textural data collected during the course of 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 Site_ID ►

* ALIAS Site_ID
* DATA TYPE String
* WIDTH 255
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Alphanumeric identification number of the sample.

DESCRIPTION SOURCE

AAFC

[Hide Field Site_ID ▲](#)

FIELD Sand ►

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

FIELD DESCRIPTION

Percentage of the total soil contained in the sand fraction.

DESCRIPTION SOURCE

AAFC

[Hide Field Sand ▲](#)

FIELD Silt ►

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

FIELD DESCRIPTION

Percentage of the total soil contained in the silt fraction.

DESCRIPTION SOURCE

AAFC

[Hide Field Silt ▲](#)

FIELD Clay ►

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

FIELD DESCRIPTION

Percentage of the total soil contained in the clay fraction.

DESCRIPTION SOURCE

AAFC

[Hide Field Clay ▲](#)

FIELD [SF_Very_Fine ►](#)

* [ALIAS](#) SF_Very_Fine
 * [DATA TYPE](#) Double
 * [WIDTH](#) 8
 * [PRECISION](#) 0
 * [SCALE](#) 0

[FIELD DESCRIPTION](#)

Percentage of the total soil contained in the very fine sand fraction (<106 um).

[DESCRIPTION SOURCE](#)

AAFC

[Hide Field SF_Very_Fine ▲](#)

FIELD [SF_Fine ►](#)

* [ALIAS](#) SF_Fine
 * [DATA TYPE](#) Double
 * [WIDTH](#) 8
 * [PRECISION](#) 0
 * [SCALE](#) 0

[FIELD DESCRIPTION](#)

Percentage of the total soil contained in the fine sand fraction (106-250 um).

[DESCRIPTION SOURCE](#)

AAFC

[Hide Field SF_Fine ▲](#)

FIELD [SF_Medium ►](#)

* [ALIAS](#) SF_Medium
 * [DATA TYPE](#) Double
 * [WIDTH](#) 8
 * [PRECISION](#) 0
 * [SCALE](#) 0

[FIELD DESCRIPTION](#)

Percentage of the total soil contained in the medium sand fraction (250-500 um).

[DESCRIPTION SOURCE](#)

AAFC

[Hide Field SF_Medium ▲](#)

FIELD [SF_Coarse ►](#)

* [ALIAS](#) SF_Coarse
 * [DATA TYPE](#) Double
 * [WIDTH](#) 8
 * [PRECISION](#) 0
 * [SCALE](#) 0

[FIELD DESCRIPTION](#)

Percentage of the total soil contained in the coarse sand fraction (500 um-1 mm).

[DESCRIPTION SOURCE](#)

AAFC

[Hide Field SF_Coarse ▲](#)

FIELD [SF_Very_Coarse ►](#)

* [ALIAS](#) SF_Very_Coarse
 * [DATA TYPE](#) Double
 * [WIDTH](#) 8
 * [PRECISION](#) 0
 * [SCALE](#) 0

[FIELD DESCRIPTION](#)

Percentage of the total soil contained in the very coarse sand fraction (≥ 1 mm).

[DESCRIPTION SOURCE](#)

AAFC

[Hide Field SF_Very_Coarse ▲](#)

FIELD [Texture_Abbrev ►](#)

* [ALIAS](#) Texture_Abbrev
 * [DATA TYPE](#) String
 * [WIDTH](#) 255
 * [PRECISION](#) 0
 * [SCALE](#) 0

[FIELD DESCRIPTION](#)

Abbreviated soil texture name.

[DESCRIPTION SOURCE](#)

AAFC

[Hide Field Texture_Abbrev ▲](#)

FIELD [Texture ►](#)

* [ALIAS](#) Texture
 * [DATA TYPE](#) String
 * [WIDTH](#) 255
 * [PRECISION](#) 0
 * [SCALE](#) 0

[FIELD DESCRIPTION](#)

Soil texture name.

[DESCRIPTION SOURCE](#)

AAFC

[Hide Field Texture ▲](#)

[Hide Details for object Soil_Txt_Properties ▲](#)

[Hide Fields ▲](#)

Metadata Details ►

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

[METADATA IDENTIFIER](#) 4221C035-7121-40B0-8D08-2FD3F370CBFF

SCOPE OF THE DATA DESCRIBED BY THE METADATA * non-geographic 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 12:37:00

LAST MODIFIED IN ARCGIS FOR THE ITEM 2013-01-10 16:11:26

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2013-01-10 16:11:26

[Hide Metadata Details ▲](#)

Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY as needed

[Hide Metadata Maintenance ▲](#)

FGDC Metadata (read-only) ►

Entities and Attributes ►

DETAILED DESCRIPTION

ENTITY TYPE

ENTITY TYPE LABEL Soil_Txt_Properties

ENTITY TYPE DEFINITION

Soil textural data collected during the course of 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 Site_ID

ATTRIBUTE DEFINITION

Alphanumeric identification number of the sample.

ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE

ATTRIBUTE LABEL Sand

ATTRIBUTE DEFINITION

Percentage of the total soil contained in the sand fraction.

ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE

ATTRIBUTE LABEL Silt

ATTRIBUTE DEFINITION

Percentage of the total soil contained in the silt fraction.

ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE

ATTRIBUTE LABEL Clay

ATTRIBUTE DEFINITION

Percentage of the total soil contained in the clay fraction.

ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE

ATTRIBUTE LABEL SF_Very_Fine

ATTRIBUTE DEFINITION

Percentage of the total soil contained in the very fine sand fraction (<106 um).

ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE

ATTRIBUTE LABEL SF_Fine

ATTRIBUTE DEFINITION

Percentage of the total soil contained in the fine sand fraction (106-250 um).

ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE

ATTRIBUTE LABEL SF_Medium

ATTRIBUTE DEFINITION

Percentage of the total soil contained in the medium sand fraction (250-500 um).

ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE

ATTRIBUTE LABEL SF_Coarse

ATTRIBUTE DEFINITION

Percentage of the total soil contained in the coarse sand fraction (500 um-1 mm).

ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE

ATTRIBUTE LABEL SF_Very_Coarse

ATTRIBUTE DEFINITION

Percentage of the total soil contained in the very coarse sand fraction (≥1 mm).

ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE

ATTRIBUTE LABEL Texture_Abbrev

ATTRIBUTE DEFINITION

Abbreviated soil texture name.

ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE

ATTRIBUTE LABEL Texture

ATTRIBUTE DEFINITION

Soil texture name.

ATTRIBUTE DEFINITION SOURCE AAFC

Hide Entities and Attributes ▲