

Soil_Vol_Moisture

File Geodatabase Table

Thumbnail Not Available

Tags

SMAPVEX12, soil moisture, volumetric, gravimetric

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 volumetric soil moisture data. Data were collected during the course of the SMAPVEX12 field campaign between June 7 and July 19. Volumetric soil moisture based on moist and oven-dry soil, and gravimetric moisture were calculated from field samples.

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/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_Vol_Moisture

PRESENTATION FORMATS * digital table

RESOURCE IDENTIFIER

VALUE Soil_Vol_Moisture

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_Vol_Moisture

* 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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FAX 204-259-4055

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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 ▲](#)

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_Vol_Moisture](#) ►

* TYPE Table

* ROW COUNT 838

DEFINITION

Volumetric soil moisture data calculated from moist and oven-dry soil 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 [Sample_Date ►](#)

* [ALIAS](#) Sample_Date

* [DATA TYPE](#) Date

* [WIDTH](#) 8

* [PRECISION](#) 0

* [SCALE](#) 0

[FIELD DESCRIPTION](#)

 Date of observation.

[DESCRIPTION SOURCE](#)

 AAFC

[Hide Field Sample_Date ▲](#)

FIELD [Site_ID ►](#)

* [ALIAS](#) Site_ID

* [DATA TYPE](#) String

* [WIDTH](#) 255

* [PRECISION](#) 0

* [SCALE](#) 0

[FIELD DESCRIPTION](#)

 Identification number of site at which observation was recorded.

[DESCRIPTION SOURCE](#)

 AAFC

[Hide Field Site_ID ▲](#)

FIELD Vol_Moist_m3 ►

* ALIAS Vol_Moist_m3

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Volumetric soil moisture content (m3 water/m3 oven-dry soil). Calculated from the mass of water in each soil core (converted to volume) divided by the volume of the individual core.

DESCRIPTION SOURCE

AAFC

Hide Field Vol_Moist_m3 ▲

FIELD Vol_Moist_2 ►

* ALIAS Vol_Moist_2

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Second volumetric soil moisture content (m3 water/m3 oven-dry soil). Derived from the gravimetric soil moisture content multiplied by the field average bulk density of the soil.

DESCRIPTION SOURCE

AAFC

Hide Field Vol_Moist_2 ▲

FIELD Gravimet_soil_moist_g_g ►

* ALIAS Gravimet_soil_moist_g_g

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Gravimetric soil moisture content (g water/g oven-dry soil). Calculated by subtracting the oven-dry soil mass from the moist soil mass, then dividing the derived soil moisture mass by the oven-dry soil mass.

DESCRIPTION SOURCE

AAFC

Hide Field Gravimet_soil_moist_g_g ▲

Hide Details for object Soil_Vol_Moisture ▲

Hide Fields ▲

Metadata Details ►

* METADATA LANGUAGE English (CANADA)

METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

METADATA IDENTIFIER 79D0655D-515A-4D2D-A7C0-D186F212FD90

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 12:37:01

LAST MODIFIED IN ARCGIS FOR THE ITEM 2013-03-19 10:27:31

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2013-03-19 10:27:31