

Weather_Data

File Geodatabase Table

Thumbnail Not
Available

Tags

SMAPVEX12, weather, air teperature, soil temperature, precipitation, MAFRI, Environment Canada, WeatherFarm

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 summarizes weather data recorded at 16 permanent weather stations in and adjacent to the SMAPVEX12 study area, within 50 km of the study area boundary. Weather attributes include air temperature, precipitation and soil temperature, and are summarized in hourly increments. Weather stations are operated by Manitoba Agriculture, Food and Rural Initiatives (MAFRI), Environment Canada and WeatherFarm.

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 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 Weather_Data

PRESENTATION FORMATS * digital table

RESOURCE IDENTIFIER
VALUE Weather

[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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ARC GIS ITEM PROPERTIES

* NAME Weather_Data
* LOCATION file:///I:\mbwinfnfs106\gis\data8\projects\land\soil\SMAPVEX12\data\Geodatabase\SMAPVEX_MASTER.gdb
* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Resource Points of Contact ►

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CONTACT'S POSITION Senior Geomatics Scientist – Scientifique principal en géomatique
 CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

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Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY as needed

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Resource Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

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Principle Investigators

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Co-Investigators

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Data Quality ►

SCOPE OF QUALITY INFORMATION ►

RESOURCE LEVEL non-geographic dataset

[Hide Scope of quality information ▲](#)

[Hide Data Quality ▲](#)

Geoprocessing history ►

PROCESS

PROCESS NAME

DATE 2012-11-02 12:45:59

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

COMMAND ISSUED

DeleteField Weather

NoName;NoName_1;NoName_12;NoName_12_13;NoName_12_13_14;NoName_12_13_14_15;NoName_12_13_14_15_16;NoName_12_13_14_15_16_17;NoName_12_13_14_15_16_17_18;NoName_12_13_14_15_16_17_18_19;NoName_12_13_14_15_16_17_18_19_20;NoName_12_13_14_15_16_17_18_19_20_21;NoName_12_13_14_15_16_17_18_19_20_21_22;NoName_12_13_14_15_16_17_18_19_20_21_22_23;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46_47;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46_47_48;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46_47_48_49;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46_47_48_49_50;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46_47_48_49_50_51;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46_47_48_49_50_51_52;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46_47_48_49_50_51_52_53;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46_47_48_49_50_51_52_53_54;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46_47_48_49_50_51_52_53_54_55;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46_47_48_49_50_51_52_53_54_55_56;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46_47_48_49_50_51_52_53_54_55_56_57;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46_47_48_49_50_51_52_53_54_55_56_57_58;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46_47_48_49_50_51_52_53_54_55_56_57_58_59;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46_47_48_49_50_51_52_53_54_55_56_57_58_59_60;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46_47_48_49_50_51_52_53_54_55_56_57_58_59_60_61;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46_47_48_49_50_51_52_53_54_55_56_57_58_59_60_61_62;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46_47_48_49_50_51_52_53_54_55_56_57_58_59_60_61_62_63;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46_47_48_49_50_51_52_53_54_55_56_57_58_59_60_61_62_63_64;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46_47_48_49_50_51_52_53_54_55_56_57_58_59_60_61_62_63_64_65;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46_47_48_49_50_51_52_53_54_55_56_57_58_59_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_75_76_77_78_79_80_81_82_83_84_85_86_87_88_89_90;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46_47_48_49_50_51_52_53_54_55_56_57_58_59_60_61_62_63_64_65_66_67_68_69_70_71_72_73_74_75_76_77_78_79_80_81_82_83_84_85_86_87_88_89_90_91;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46_47_48_49_50_51_52_53_54_55_56_57_58_59_60_61_62_63_64_65_66_67_68_69_70_71_72_73_74_75_76_77_78_79_80_81_82_83_84_85_86_87_88_89_90_91_92;No

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

DISTRIBUTION FORMAT

* NAME File Geodatabase Table

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

* TYPE Table

* ROW COUNT 16000

DEFINITION

Weather data recorded at 16 permanent weather stations in and adjacent to the SMAPVEX12 study area.

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 [Sample_Time ►](#)

* ALIAS Sample_Time

* DATA TYPE Date

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Time of observation

DESCRIPTION SOURCE

AAFC

[Hide Field Sample_Time ▲](#)FIELD [Station ►](#)

* ALIAS Station

* DATA TYPE String

* WIDTH 255

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Weather station name

DESCRIPTION SOURCE

AAFC

[Hide Field Station ▲](#)FIELD [Data_Source ►](#)

* ALIAS Data_Source

* DATA TYPE String

* WIDTH 255

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Data provider

DESCRIPTION SOURCE

AAFC

[Hide Field Data_Source ▲](#)

FIELD Air_Temp ►

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

FIELD DESCRIPTION

Recorded air temperature (°C). Missing values are marked as Not Available. Data gaps consisting of greater than 24 consecutive hours, in which neither temperature nor precipitation were reported, were deleted from the database. Two non-matching values were occasionally reported for a single day and time at a given station; in these cases, the two values were averaged. Days with averaged values are displayed in red.

DESCRIPTION SOURCE
 AAFC

[Hide Field Air_Temp ▲](#)

FIELD Precip_Amt ►

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

FIELD DESCRIPTION

Precipitation amount (mm) per hour increment. Missing values are marked as Not Available. Data gaps consisting of greater than 24 consecutive hours, in which neither temperature nor precipitation were reported, were deleted from the database. Two non-matching values were occasionally reported for a single day and time at a given station; in these cases, the larger value was kept. Days with two values are displayed in red.

DESCRIPTION SOURCE
 AAFC

[Hide Field Precip_Amt ▲](#)

FIELD Soil_Temp ►

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

FIELD DESCRIPTION

Soil temperature (°C) at a depth of 5 cm. Stations not reporting soil temperature are marked as Not Available.

DESCRIPTION SOURCE
 AAFC

[Hide Field Soil_Temp ▲](#)

[Hide Details for object Weather_Data ▲](#)

[Hide Fields ▲](#)

Metadata Details ►

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

METADATA IDENTIFIER A9316136-0CE4-418A-B6CA-F71B19D40044

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 12:37:09
 LAST MODIFIED IN ARCGIS FOR THE ITEM 2013-01-10 16:14:56

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
 LAST UPDATE 2013-01-10 16:14:56

[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 Weather_Data

ENTITY TYPE DEFINITION

Weather data recorded at 16 permanent weather stations in and adjacent to the SMAPVEX12 study area.

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 Sample_Date

ATTRIBUTE DEFINITION

Date of observation

ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE

ATTRIBUTE LABEL Sample_Time

ATTRIBUTE DEFINITION

Time of observation

ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE

ATTRIBUTE LABEL Station

ATTRIBUTE DEFINITION

Weather station name

ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE

ATTRIBUTE LABEL Data_Source

ATTRIBUTE DEFINITION

Data provider

ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE

ATTRIBUTE LABEL Air_Temp

ATTRIBUTE DEFINITION

Recorded air temperature (°C). Missing values are marked as Not Available. Data gaps consisting of greater than 24 consecutive hours, in which neither temperature nor precipitation were reported, were deleted from the database. Two non-matching values were occasionally reported for a single day and time at a given station; in these cases, the two values were averaged. Days with averaged values are displayed in red.

ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE

ATTRIBUTE LABEL Precip_Amt

ATTRIBUTE DEFINITION

Precipitation amount (mm) per hour increment. Missing values are marked as Not Available. Data gaps consisting of greater than 24 consecutive hours, in which neither temperature nor precipitation were reported, were deleted from the database. Two non-matching values were occasionally reported for a single day and time at a given station; in these cases, the larger value was kept. Days with two values are displayed in red.

ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE

ATTRIBUTE LABEL Soil_Temp

ATTRIBUTE DEFINITION

Soil temperature (°C) at a depth of 5 cm. Stations not reporting soil temperature are marked as Not Available.

ATTRIBUTE DEFINITION SOURCE AAFC

Hide Entities and Attributes ▲