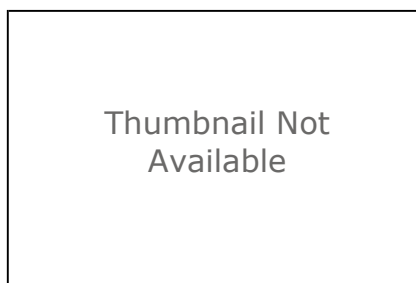


Photo_NADIR

File Geodatabase Table



Tags

SMAPVEX12, fisheye photos, nadir, leaf area index, LAI

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 contains fisheye photos of crop cover taken at nadir at three sites within each SMAPVEX field during the course of field campaign between June 7 and July 19. Photos were captured on several days at each site throughout the field campaign, and were used to identify and assess changes in leaf area index. The site identification numbers and photo file names are also included.

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

SMAPVEX12 DATA DISTRIBUTION AGREEMENT 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 Photo_NADIR

PRESENTATION FORMATS * digital table

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 Photo_NADIR

* LOCATION file:///\\mbwinfs106\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

CONTACT INFORMATION ►

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FAX 204-983-2178

ADDRESS

TYPE both

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 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

SMAPVEX12 DATA DISTRIBUTION AGREEMENT

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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

Catherine Champagne, Agriculture and Agri-Food Canada

Craig Smith, Environment Canada

Dara Entekhabi, MIT

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Mike Cosh, USDA, ARS Hydrology and Remote Sensing Laboratory

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Paul Bullock, University of Manitoba

Peggy O'Neill, NASA GSFC

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 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 ▲](#)

Geoprocessing history ►

PROCESS

PROCESS NAME

DATE 2012-11-16 10:56:28

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

COMMAND ISSUED

CalculateField Photo_NADIR_2 Site_ID "[Field]"+ "-" + "[Site]" VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2012-11-16 10:57:35

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

COMMAND ISSUED

CalculateField Photo_NADIR_2 Site_ID "[Field] & "-" & [Site]" VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2012-11-21 15:37:55

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

COMMAND ISSUED

CopyRows W:\data8\projects\land\soil\SMAPVEX12
 \data\Kurt\SMAPVEX_MASTER.gdb\Photo_NADIR_2 W:\data8
 \projects\land\soil\SMAPVEX12\data\Kurt\Photos.gdb\Photo_NADIR_2 #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2012-11-29 15:20:37

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

Management Tools.tbx\CopyRows**COMMAND ISSUED**

```
CopyRows W:\data8\projects\land\soil\SMAPVEX12
\data\Kurt\Photos.gdb\Photo_NADIR_3 W:\data8\projects\land\soil\SMAPVEX12
\data\Geodatabase\SMAPVEX_MASTER.gdb\Photo_NADIR_3 #
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

Hide Geoprocessing history ▲

Distribution ►**DISTRIBUTION FORMAT**

* **NAME** File Geodatabase Table

Hide Distribution ▲

Fields ►**DETAILS FOR OBJECT Photo_NADIR ►**

* **TYPE** Table

* **ROW COUNT** 435

DEFINITION

Fisheye photos of crop cover taken at nadir at three sites within each SMAPVEX field .

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 Photo_Name ►

* **ALIAS** Photo_Name

* **DATA TYPE** String

* **WIDTH** 255

* **PRECISION** 0

* **SCALE** 0

FIELD DESCRIPTION

Name of the JPEG photo file.

DESCRIPTION SOURCE

AAFC

Hide Field Photo_Name ▲

FIELD **Field** ▶

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

FIELD DESCRIPTION

Identification number of the SMAPVEX field in which the photo was taken.

DESCRIPTION SOURCE

AAFC

Hide Field Field ▲

FIELD **Site** ▶

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

FIELD DESCRIPTION

Identification number of the site at which the photo was taken.

DESCRIPTION SOURCE

AAFC

Hide Field Site ▲

FIELD **Collection_Date** ▶

* ALIAS Collection_Date
 * DATA TYPE Date
 * WIDTH 8
 * PRECISION 0
 * SCALE 0

FIELD DESCRIPTION

Date the photo was captured.

DESCRIPTION SOURCE

AAFC

Hide Field Collection_Date ▲

FIELD **Site_ID** ▶

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

FIELD DESCRIPTION

Hyphenated identification number of the SMAPVEX field and site at which the photo was taken.

DESCRIPTION SOURCE

AAFC

[Hide Field Site_ID ▲](#)

FIELD Photo_Nadir ►

* ALIAS Photo_NADIR
 * DATA TYPE Raster
 * WIDTH 0
 * PRECISION 0
 * SCALE 0

FIELD DESCRIPTION

Clickable photo stored in a Raster-type attribute field.

DESCRIPTION SOURCE

AAFC

[Hide Field Photo_Nadir ▲](#)

[Hide Details for object Photo_NADIR ▲](#)

[Hide Fields ▲](#)

Metadata Details ►

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

METADATA IDENTIFIER 7B8297A4-8EBB-4560-8FC9-5403D54F5E60

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 12:08:10
 LAST MODIFIED IN ARCGIS FOR THE ITEM 2013-01-10 16:07:26

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
 LAST UPDATE 2013-01-10 16:07:26

[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 Photo_NADIR

ENTITY TYPE DEFINITION

Fisheye photos of crop cover taken at nadir at three sites within each SMAPVEX field .

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 Photo_Name

ATTRIBUTE DEFINITION

Name of the JPEG photo file.

ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE

ATTRIBUTE LABEL Field

ATTRIBUTE DEFINITION

Identification number of the SMAPVEX field in which the photo was taken.

ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE

ATTRIBUTE LABEL Site

ATTRIBUTE DEFINITION

Identification number of the site at which the photo was taken.

ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE

ATTRIBUTE LABEL Collection_Date

ATTRIBUTE DEFINITION

Date the photo was captured.

ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE

ATTRIBUTE LABEL Site_ID

ATTRIBUTE DEFINITION

Hyphenated identification number of the SMAPVEX field and site at which the photo was taken.

ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE

ATTRIBUTE LABEL Photo_Nadir

ATTRIBUTE DEFINITION

Clickable photo stored in a Raster-type attribute field.

ATTRIBUTE DEFINITION SOURCE AAFC

Hide Entities and Attributes ▲