

Shoreline Inventory for Stafford County 2015: Land use, land cover

Shapefile



Tags

Virginia, Shoreline condition, Potomac River, Rappahannock River, Stafford County, Shoreline structures

Summary

To inventory Stafford County tidal shoreline conditions.

Description

Shoreline Situation Reports (SSR) were first generated by VIMS in the 1970s to report the condition and status of the shore lands. The SSR series were published in hardcopy on a county by county basis for each of the Tidewater Virginia localities. The reports were intended to assist planners, managers, and regulators in decisions pertaining to management of coastal areas and natural resources therein. This report continues the process which updates and expands earlier reports. Data collected describes conditions in the immediate riparian zone, the bank, and along the shore. Stafford County was last inventoried in 2006.

Credits

There are no credits for this item.

Use limitations

These data should not be used for jurisdictional permit determinations beyond providing general shoreline condition or status information. These data have not been surveyed to property boundaries.

Extent

West -77.638392 **East** -77.283986

North 38.518940 **South** 38.237399

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata

Topics and Keywords

THEMES OR CATEGORIES OF THE RESOURCE structure, farming, boundaries, environment

*** CONTENT TYPE** Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS Virginia, Potomac River, Rappahannock River, Potomac Creek, Aquia Creek, Chopawamsic Creek, Stafford County

THEME KEYWORDS Shoreline condition, Shoreline structures, Land use, Shoreline Inventory, Bank cover, Shoreline stability, Bank height, Beach, Access structures

Citation

TITLE Shoreline Inventory for Stafford County 2015: Land use, land cover

PUBLICATION DATE 2015-09-30 00:00:00

PRESENTATION FORMATS * digital map

Citation Contacts

RESPONSIBLE PARTY

ORGANIZATION'S NAME Comprehensive Coastal Inventory, Virginia Institute of Marine Science

CONTACT'S ROLE originator

RESPONSIBLE PARTY

ORGANIZATION'S NAME Virginia Institute of Marine Science

CONTACT'S ROLE publisher

CONTACT INFORMATION

ADDRESS

DELIVERY POINT Gloucester Point, Virginia

RESPONSIBLE PARTY

INDIVIDUAL'S NAME Marcia Berman

ORGANIZATION'S NAME Virginia Institute of Marine Science (VIMS)

CONTACT'S POSITION Director Comprehensive Coastal Inventory Program

CONTACT'S ROLE point of contact

CONTACT INFORMATION

PHONE

VOICE (804) 684-7188

FAX (804) 684-7179

ADDRESS
TYPE postal
DELIVERY POINT P.O. Box 1346
CITY Gloucester Point
ADMINISTRATIVE AREA Virginia
POSTAL CODE 23062
COUNTRY US
E-MAIL ADDRESS marcia@vims.edu

Resource Details

DATASET LANGUAGES English (UNITED STATES)
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS completed
SPATIAL REPRESENTATION TYPE * vector

SUPPLEMENTAL INFORMATION

There are four shapefiles that are part of the 2015 Stafford County Shoreline Inventory database: Stafford_lubc_2015, Stafford_sstru_2015, Stafford_astru_2015 and Stafford_tm_2015. Stafford_lubc_2015 (land use and bank cover for Stafford County) is a linear shapefile containing data about land use, tree fringe, bank height, bank cover, and beach status along the shoreline. Stafford_sstru_2015 (Stafford County shoreline structures) is a linear shapefile delineating hard structures in place at the shoreline (bulkhead, dilapidated bulkhead, riprap, wharf, unconventional, debris, marina < 50 slips, marina > 50 slips, jetty, marsh toe revetment, groinfield and breakwaters). Stafford_astru_2015 (Stafford County access structures) is a point shapefile with locations of docks, dilapidated docks, boathouses, and private and public boat ramps. Stafford_tm_2015 (Stafford County tidal marshes) shows the location, size, species and type of tidal marshes. The attributes of these four shapefiles are explained in the Entity and Attribute Information section below.

* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.1.0.3035

ARCGIS ITEM PROPERTIES

* NAME StaffordCo_lubc_2015
* SIZE 0.367
* LOCATION *****
* ACCESS PROTOCOL Local Area Network

Extents

EXTENT
DESCRIPTION
ground condition at time of survey.

TEMPORAL EXTENT
BEGINNING DATE 2001-06-05
ENDING DATE 2005-09-01

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -77.638392

* EAST LONGITUDE -77.283986

* NORTH LATITUDE 38.518940

* SOUTH LATITUDE 38.237399

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 269956.437474

* EAST LONGITUDE 300127.537750

* SOUTH LATITUDE 4235422.544148

* NORTH LATITUDE 4265886.118935

* EXTENT CONTAINS THE RESOURCE Yes

Resource Points of Contact

POINT OF CONTACT

INDIVIDUAL'S NAME Marcia Berman

ORGANIZATION'S NAME Virginia Institute of Marine Science (VIMS)

CONTACT'S POSITION Director Comprehensive Coastal Inventory Program

CONTACT'S ROLE point of contact

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POSTAL CODE 23062

COUNTRY US

E-MAIL ADDRESS marcia@vims.edu

Resource Maintenance

RESOURCE MAINTENANCE

UPDATE FREQUENCY not planned

Resource Constraints

LEGAL CONSTRAINTS

LIMITATIONS OF USE

The Comprehensive Coastal Inventory Program (CCI) at VIMS performs a service by distributing data generated by either CCI or public agencies which offer data without

restriction or charge. CCI assumes no responsibility for data accuracy or precision, metadata completeness or correctness for digital information. CCI assumes no liability for misuse of any data which may arise as a result of any alteration, conversion, or combination with other data sources. As well, the timeliness and scale of these products must be considered when evaluating appropriate use.

CONSTRAINTS

LIMITATIONS OF USE

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Spatial Reference

ARCGIS COORDINATE SYSTEM

* TYPE Projected

* GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983

* PROJECTION NAD_1983_UTM_Zone_18N

* COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 26918

X ORIGIN -5120900

Y ORIGIN -9998100

XY SCALE 450445547.3910538

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

LATESTWKID 26918

WELL-KNOWN TEXT

PROJCS["NAD_1983_UTM_Zone_18N",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",-

75.0],PARAMETER["Scale_Factor",0.9996],PARAMETER["Latitude_Of_Origin",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",26918]]

REFERENCE SYSTEM IDENTIFIER

DIMENSION horizontal

* VALUE 26918

* CODESPACE EPSG

* VERSION 7.9.4

Spatial Data Properties

VECTOR

* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME StaffordCo_lubc_2015

* OBJECT TYPE composite

* OBJECT COUNT 1167

ARCGIS FEATURE CLASS PROPERTIES

FEATURE CLASS NAME StaffordCo_lubc_2015

* FEATURE TYPE Simple

* GEOMETRY TYPE Polyline

* HAS TOPOLOGY FALSE

* FEATURE COUNT 1167

* SPATIAL INDEX TRUE

* LINEAR REFERENCING FALSE

Data Quality

SCOPE OF QUALITY INFORMATION

RESOURCE LEVEL dataset

Lineage

PROCESS STEP

WHEN THE PROCESS OCCURRED 2015-03-01 00:00:00

DESCRIPTION The shoreline produced for the 2001 Stafford County Shoreline Inventory Report was copied and corrected to the new 2013 VBMP imagery. Other resources, such as Google Earth and Bing Maps, were used when shoreline visibility was obscured.

SOURCE DATA

RELATIONSHIP TO THE PROCESS STEP used

SOURCE CITATION ►

ALTERNATE TITLES VBMP

PROCESS STEP

WHEN THE PROCESS OCCURRED 2015-06-01 00:00:00

DESCRIPTION All processing steps for the shoreline inventory were done using ArcGis version 10. Using the latest VBMP 2013 imagery as a background, conditions visible on shore were used to code a digital shoreline created using VBMP 20013 imagery at a scale of 1:1000. Conditions were also verified using Bing Birds Eye, VBMP 2011, and VBMP 2009 imagery. For the land use/bank cover shapefile arcs were split and coded for land use, bank height, bank cover, tree fringe and presence or absence of beach, for the access structure shapefile arcs were coded for dock, dilapidated dock, boathouse, and public and private ramps, for the shoreline structure shapefile arcs were coded for bulkhead, dilapidated bulkhead, riprap, unconventional, debris, wharf, breakwater, groinfield, jetty, marsh toe revetment and marina >50 and <50 slips.

PROCESS STEP

WHEN THE PROCESS OCCURRED 2015-07-01 00:00:00

DESCRIPTION A small draft boat was used to collect tidal marsh inventory data in the field. A video camera is set up and collects imagery of the coastline as it passes by the camera lens. Data is logged using a geo-referenced video camera. The Red Hen System provides hardware and software to collect geo-referenced video and photo data in the field. A standard video camera (sony ACC-HDV7) is interfaced with a GPS antennae via the Red Hen hardware device - VMS 300. VMS 300 converts GPS data into audio signals, which are sent to a video camera through its microphone input connector. As the video is recorded, GPS data are transmitted once per second to the video camera by VMS 300. Each GPS location is linked with a time code on the video. Therefore, the survey is a set of videos containing geographically referenced shoreline data.

PROCESS STEP

WHEN THE PROCESS OCCURRED 2015-07-01 00:00:00

DESCRIPTION The first step in the QAQC process involves complete checks of shoreline coding by a GIS Programmer/Analyst and a Marine Scientist.

SOURCE DATA

RELATIONSHIP TO THE PROCESS STEP used

SOURCE CITATION

ALTERNATE TITLES VBMP

PROCESS STEP

WHEN THE PROCESS OCCURRED 2015-08-27 00:00:00

DESCRIPTION The second and third step in the QAQC process involves complete checks of shoreline coding by a GIS Programmer/Analyst and a Marine Scientist.

SOURCE DATA

DESCRIPTION Provided the latest 2013 imagery used to produce a new digital shoreline coverage that serves as the base shoreline for shoreline conditions. Used to accurately position land use and land cover data.

SOURCE CITATION

TITLE Virginia Base Map Program Imagery and Hydrology
ALTERNATE TITLES VBMP
PUBLICATION DATE 0301-20-03

PRESENTATION FORMATS digital map
FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

RESPONSIBLE PARTY

ORGANIZATION'S NAME Geographic Network Division of its Department of Technology Planning (VGIN).
CONTACT'S ROLE originator

RESPONSIBLE PARTY

ORGANIZATION'S NAME Geographic Network Division of its Department of Technology Planning (VGIN).
CONTACT'S ROLE publisher

CONTACT INFORMATION

ADDRESS
DELIVERY POINT Richmond, VA

EXTENT OF THE SOURCE DATA

DESCRIPTION
data of source photography

TEMPORAL EXTENT

BEGINNING DATE 0201-20-02
ENDING DATE 0401-20-02

Distribution

DISTRIBUTOR

CONTACT INFORMATION

ORGANIZATION'S NAME Virginia Institute of Marine Science (VIMS)
CONTACT'S POSITION Director Comprehensive Coastal Inventory Program
CONTACT'S ROLE distributor

CONTACT INFORMATION

PHONE

VOICE (804) 684-7188

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DELIVERY POINT P.O. Box 1346

CITY Gloucester Point

ADMINISTRATIVE AREA Virginia

POSTAL CODE 23062

COUNTRY US

E-MAIL ADDRESS marcia@vims.edu

CONTACT INSTRUCTIONS

Contact via email

DISTRIBUTION FORMAT

* NAME Shapefile

VERSION Shapefile

TRANSFER OPTIONS

* TRANSFER SIZE 0.367

ONLINE SOURCE

LOCATION <URL:<http://www.vims.edu/ccrm/gis/gisdata.html>

Fields

DETAILS FOR OBJECT [StaffordCo_lubc_2015](#)

* TYPE Feature Class

* ROW COUNT 1167

DEFINITION

A collection of geographical features with the same geometry type (such as point, line or poly), same attributes, and the same spatial reference.

DEFINITION SOURCE

ESRI

FIELD FID

* ALIAS FID

* 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.

BEGINNING DATE OF VALUES 2015-01-01

ENDING DATE OF VALUES 2015-09-30

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.

FIELD LENGTH

* ALIAS LENGTH
* DATA TYPE Double
* WIDTH 19
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Length of arc in meters

DESCRIPTION SOURCE
ESRI

FIELD COVER

* ALIAS COVER
* DATA TYPE String
* WIDTH 25
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Bank cover is a classification based on a visual inspection of the bank. "Cover" can include either vegetative or structural cover and is labeled one of the following: total, partial or bare.

DESCRIPTION SOURCE

Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

LIST OF VALUES

VALUE Bare

DESCRIPTION bare < 25% vegetative/structural cover

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

VALUE Partial

DESCRIPTION partial 25-75% vegetative/structural cover

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

VALUE Total

DESCRIPTION total > 75% vegetative/structural cover

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

BEGINNING DATE OF VALUES 2015-01-01

ENDING DATE OF VALUES 2015-09-30

FIELD HEIGHT

* ALIAS HEIGHT

* DATA TYPE String

* WIDTH 25

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Bank height is a visual inspection of the height of the bank from the base to the top. We estimate height from imagery, field inspection, videography or a combination of all three data sources. Bank height is labeled on of the following: 0-5 feet, 5-30 feet and >30 feet.

DESCRIPTION SOURCE

Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

LIST OF VALUES

VALUE 0-5

DESCRIPTION Bank is 0-5 feet high

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

VALUE 5-30

DESCRIPTION Bank is 5-30 feet high

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

VALUE <30

DESCRIPTION Bank is greater than 30 feet

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

BEGINNING DATE OF VALUES 2015-01-01

ENDING DATE OF VALUES 2015-09-30

FIELD FEATURE

* ALIAS FEATURE

* DATA TYPE String

* WIDTH 25

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Feature refers to a combination of land use in the immediate riparian area within 100 feet of the adjacent shoreline and best professional judgment when the infrastructure is setback on the parcel. Feature is labeled one of the following: agriculture, bare, commercial, detached marsh, forested, grass, industrial, marsh island, paved, residential, timbered and scrub-shrub.

DESCRIPTION SOURCE

Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

LIST OF VALUES

VALUE Agriculture

DESCRIPTION Land use defined as agricultural includes farm tracts that are cultivated and crop producing. This designation is not applicable for pastureland, which is coded as grass.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

VALUE Bare

DESCRIPTION Land use defined as bare includes areas void of any vegetation or obvious land use. Bare areas include those that have been cleared for construction.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

VALUE Commercial

DESCRIPTION Commercial is a land use classification denoting small commercial operations such as shops, restaurants, as well as campgrounds. These operations are not necessarily water dependent businesses.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

VALUE Forested

DESCRIPTION Forest cover includes deciduous, evergreen, and mixed forest stands. of trees. The land use is classified as Forest if there is a dense cover of trees and no other land use category is apparent close to the shoreline, e.g. residential, commercial, industrial, agriculture, etc.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

VALUE Grass

DESCRIPTION Grasslands include large unmanaged fields, managed grasslands adjacent to large estates, agriculture tracts reserved for pasture, and grazing. While a general rule of thumb will classify a tract as "grass" if a home sits behind a large tract of grass, a designation of "residential" may be made if there are similar tracts adjacent to each other. This designation can be determined using best professional judgment.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

VALUE Industrial

DESCRIPTION Industrial operations are larger commercial businesses and can include areas where power plants, pulp mills, refineries, etc. are in operation along the coast.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

VALUE Paved

DESCRIPTION Paved areas represent roads which run along the shore and generally are located at the top of the banks. Paved also includes parking areas such as parking at boat landing, or commercial facilities.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

VALUE Scrub-Shrub

DESCRIPTION Scrub-shrub is a land use class that includes small trees, shrubs, and bushy plants. This land use is easily distinguished during remote sensing compared to Forest and Grass.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

VALUE Timbered

DESCRIPTION Land that is clear cut with downed trees.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

BEGINNING DATE OF VALUES 2015-01-01

ENDING DATE OF VALUES 2015-09-30

FIELD BEACH

* **ALIAS** BEACH

* DATA TYPE String
* WIDTH 25
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Beaches are sandy shores that are visible during high tides. These features can be wide and persistent, or very thin lenses of sand.

DESCRIPTION SOURCE

Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

LIST OF VALUES

VALUE Yes

DESCRIPTION Beach is present

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

VALUE No

DESCRIPTION Beach is not present

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

BEGINNING DATE OF VALUES 2015-01-01

ENDING DATE OF VALUES 2015-09-30

FIELD Spit

* ALIAS Spit
* DATA TYPE String
* WIDTH 5
* PRECISION 0
* SCALE 0

FIELD Tree_Fring

* ALIAS Tree_Fring
* DATA TYPE String
* WIDTH 5
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

When the dominant riparian land use is not forested but a line of trees is maintained along the bank edge, the land use is noted to include a tree fringe. When the tree fringe is between 100 and 100 feet it is considered a wide tree fringe. Over 1000 feet and it would have Forested as the land use.

DESCRIPTION SOURCE

Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

LIST OF VALUES

VALUE Yes

DESCRIPTION Tree fringe is present

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

VALUE Yes w

DESCRIPTION Tree fringe is between 100 and 1000 feet wide

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

BEGINNING DATE OF VALUES 2015-01-01

ENDING DATE OF VALUES 2015-09-30

FIELD Inv_update

* ALIAS Inv_update

* DATA TYPE String

* WIDTH 200

* PRECISION 0

* SCALE 0

Metadata Details

METADATA LANGUAGE English (UNITED STATES)

METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

METADATA IDENTIFIER 623A50CC-2904-4F08-8E5F-3A4B2DEDD48F

SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset

SCOPE NAME *dataset

* LAST UPDATE 2015-09-09

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE ISO 19139 Metadata Implementation Specification

STANDARD OR PROFILE USED TO EDIT METADATA NAP

CREATED IN ARCGIS FOR THE ITEM 2015-01-06 09:32:12

LAST MODIFIED IN ARCGIS FOR THE ITEM 2015-09-09 08:30:57

AUTOMATIC UPDATES
HAVE BEEN PERFORMED Yes
LAST UPDATE 2015-09-09 08:30:57

Metadata Contacts

METADATA CONTACT
INDIVIDUAL'S NAME Sharon Killeen
ORGANIZATION'S NAME Virginia Institute of Marine Science (VIMS)
CONTACT'S POSITION GIS Programmer/Analyst
CONTACT'S ROLE point of contact

CONTACT INFORMATION

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COUNTRY US
E-MAIL ADDRESS sharon@vims.edu

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MAINTENANCE
UPDATE FREQUENCY not planned

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