

Shoreline Inventory for Northumberland County

2014: Access structures

Shapefile



Tags

Shoreline conditions, Shoreline structures, Hardened structures, Access structures, Riparian land use, Shoreline Inventory

Summary

To inventory Virginia's tidal shoreline conditions.

Description

Shoreline Situation Reports (SSR) were first generated by VIMS in the 1970's 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 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 Shoreline Inventory report continues a process which updates and expands the earlier reports. Data collected reports conditions surveyed in the immediate riparian zone, the bank, and along the shoreline.

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 -76.591001 **East** -76.236736
North 38.029763 **South** 37.682985

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 farming, boundaries, environment, structure

* CONTENT TYPE Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS Virginia, Yeocomico River, Judith Sound, Glebe River, Coan River, Hull Creek, Little Wicomico River, Great Wicomico River, Cockrell Creek, Mill Creek, Dividing Creek, Indian Creek

THEME KEYWORDS Land use, Shoreline Inventory, Bank cover, Shoreline Stability, Bank Height, Beach, Access Structures, Shoreline Structures

Citation

TITLE Shoreline Inventory for Northumberland County 2014: Access structures

PUBLICATION DATE 2014-12-31 00:00:00

PRESENTATION FORMATS * digital map

Resource Details

DATASET LANGUAGES * English (UNITED STATES)

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

SPATIAL REPRESENTATION TYPE * vector

SUPPLEMENTAL INFORMATION

There are four shapefiles that are part of the 2014 Northumberland County Shoreline Inventory database: Northumberland_lubc_2014, Northumberland_sstru_2014, Northumberland_astru_2014 and Northumberland_tm_2014.

Northumberland_lubc_2014 (land use and bank cover for Northumberland County) is a linear shapefile containing data about land use, tree fringe, bank height, bank cover, bank stability and beach status along the shoreline.

Northumberland_sstru_2014 (Northumberland 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).

Northumberland_astru_2014 (Northumberland County access structures) is a point shapefile with locations of docks, dilapidated docks, boathouses, and private and public boat ramps.

Northumberland_tm_2014 (Northumberland 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 Northumberland_astru_2014
- * SIZE 0.113
- * LOCATION <http://ccrm.vims.edu/ccrmp/index.html>
- * ACCESS PROTOCOL Comprehensive Coastal Resource Management Portal

Extents

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

- * WEST LONGITUDE -76.591001
- * EAST LONGITUDE -76.236736
- * NORTH LATITUDE 38.029763
- * SOUTH LATITUDE 37.682985
- * EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

- * WEST LONGITUDE 360358.480900
- * EAST LONGITUDE 390956.038202
- * SOUTH LATITUDE 4171822.325986
- * NORTH LATITUDE 4209845.724900
- * EXTENT CONTAINS THE RESOURCE Yes

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

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

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_No
rth_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenw
ich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Transverse_Mercator"],PARA
METER["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["Met
er",1.0],AUTHORITY["EPSG",26918]]

REFERENCE SYSTEM IDENTIFIER

* 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 Northumberland_astru_2014
* OBJECT TYPE point
* OBJECT COUNT 4214

ARCGIS FEATURE CLASS PROPERTIES



FEATURE CLASS NAME Northumberland_astru_2014
* FEATURE TYPE Simple
* GEOMETRY TYPE Point
* HAS TOPOLOGY FALSE
* FEATURE COUNT 4214
* SPATIAL INDEX FALSE
* LINEAR REFERENCING FALSE

Data Quality

SCOPE OF QUALITY INFORMATION

RESOURCE LEVEL dataset

Lineage

PROCESS STEP



WHEN THE PROCESS OCCURRED 2014-06-01 00:00:00

DESCRIPTION small draft boat was used to collect data in the field. 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 2014-08-01 00:00:00

DESCRIPTION A shoreline for Northumberland County was created using 2009 VBMP imagery as a backdrop and using ArcGis version 10.0. Using this as a baseline the shoreline inventory was remotely generated using two sources: 2012 oblique Pictometry imagery available through Bing Maps, and 2013 high resolution imagery available from the Virginia Base Mapping Program (VBMP).

SOURCE DATA



SOURCE CITATION

TITLE Virginia Base Mapping Program (VBMP)

PUBLICATION DATE 2014-01-01 00:00:00

PROCESS STEP



WHEN THE PROCESS OCCURRED 2014-09-01 00:00:00

DESCRIPTION The Red Hen video data was used for QAQC.

Distribution

DISTRIBUTION FORMAT

* NAME Shapefile
VERSION Shapefile

TRANSFER OPTIONS

* TRANSFER SIZE 0.113

Fields

DETAILS FOR OBJECT [Northumberland_astru_2014](#)

* TYPE Feature Class

* ROW COUNT 4214

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.

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 PNTSTRUC



* ALIAS PNTSTRUC

* DATA TYPE String

* WIDTH 30

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Access structure type: Dock, Dilapidated Dock, Boathouse, Private Ramp and Public Ramp

DESCRIPTION SOURCE

Processor

LIST OF VALUES

VALUE Dock/Pier

DESCRIPTION In this survey, a dock or pier is a structure, generally constructed of wood, which is built perpendicular or parallel to the shore. These are typical on private property, particularly residential areas. They provide access to the water, usually for recreational purposes. Docks and piers are mapped as point features on the shore. Pier length is not surveyed.

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

VALUE Dilapidated Dock

DESCRIPTION A pier which has failed due to deterioration from age or storm damage is classified as a dilapidated pier. The remnants of this structure may be original pilings only

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

VALUE Private Ramp

DESCRIPTION Boat ramps are used to launch vessels of all types. They are usually constructed of concrete, but wood and gravel ramps are also found. Point identification of boat ramps does not discriminate based on type, size, material, or quality of the launch. This inventory attempts to distinguish, when possible, private versus public ramps. Ramps located in privately owned, commercial marinas and residential communities are classified as private.

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

VALUE Public Ramp

DESCRIPTION Boat ramps are used to launch vessels of all types. They are usually constructed of concrete, but wood and gravel ramps are also found. Point identification of boat ramps does not discriminate based on type, size, material, or quality of the launch. This inventory attempts to distinguish, when possible, private versus public ramps. Ramps located in privately owned, commercial marinas and residential communities are classified as private.

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

VALUE Boathouse

DESCRIPTION A boathouse is considered any covered structure alongside a dock or pier built to cover a boat. They include true "houses" for boats with roof and siding, as well as awnings that offer only overhead protection. Since nearly all boathouses have adjoining piers, piers are not surveyed separately, but are assumed. Boathouses may be difficult to see in aerial photography.

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

DESCRIPTION OF VALUES Dock, Dilapidated Dock, Boathouse, Private Ramp and Public Ramp

FIELD Survey



* ALIAS Survey
* DATA TYPE String
* WIDTH 20
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Date of Survey

DESCRIPTION SOURCE

Processor

DESCRIPTION OF VALUES Survey date

Metadata Details

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

SCOPE OF THE DATA DESCRIBED BY THE METADATA * dataset
SCOPE NAME * dataset

* LAST UPDATE 2015-01-08

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0
METADATA STYLE Item Description
STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

CREATED IN ARCGIS FOR THE ITEM 2014-09-30 10:28:28
LAST MODIFIED IN ARCGIS FOR THE ITEM 2015-01-08 08:35:02

AUTOMATIC UPDATES
HAVE BEEN PERFORMED Yes
LAST UPDATE 2015-01-08 08:35:02

Metadata Contacts

METADATA CONTACT
INDIVIDUAL'S NAME Sharon Killeen
ORGANIZATION'S NAME Comprehensive Coastal Inventory, Virginia Institute of Marine Science
CONTACT'S POSITION GIS Programmer/Analyst
CONTACT'S ROLE point of contact

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Thumbnail and Enclosures

THUMBNAIL
THUMBNAIL TYPE JPG