

# Shoreline Inventory for Gloucester 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** -76.702941 **East** -76.389304  
**North** 37.563164 **South** 37.242679

## 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   Aberdeen Creek, Adams Creek, Carter Creek, Cedarbush Creek, Mobjack Bay, North River, Perrin River, Piankatank River, Poropotank River, Sarah Creek, Severn River, Timberneck Creek, Ware River, York River

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

## Citation

TITLE   Shoreline Inventory for Gloucester 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 Gloucester County Shoreline Inventory database: gloucester\_lubc\_2014, gloucester\_sstru\_2014, gloucester\_astru\_2014 and glou\_TMI2010\_2014. Gloucester\_lubc\_2014 (land use and bank cover for Gloucester County) is a linear shapefile containing data about land use, tree fringe, bank height, bank cover, bank stability and beach status along the shoreline. Gloucester\_sstru\_2014 (Gloucester 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). Gloucester\_astru\_2014 (Gloucester County access structures) is a point shapefile with locations of docks, dilapidated docks, boathouses, and private and public boat ramps. glou\_TMI2010\_2014 (Gloucester 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   gloucester\_astru\_2014

- \* SIZE 0.048
- \* 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 -76.702941
- \* EAST LONGITUDE -76.389304
- \* NORTH LATITUDE 37.563164
- \* SOUTH LATITUDE 37.242679
- \* EXTENT CONTAINS THE RESOURCE Yes

#### EXTENT IN THE ITEM'S COORDINATE SYSTEM

- \* WEST LONGITUDE 349589.905400
- \* EAST LONGITUDE 376782.375500
- \* SOUTH LATITUDE 4123141.404400
- \* NORTH LATITUDE 4158263.677900
- \* 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\_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  
\* 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 gloucester\_astru\_2014

\* OBJECT TYPE point

\* OBJECT COUNT 1781

### ARCGIS FEATURE CLASS PROPERTIES



FEATURE CLASS NAME gloucester\_astru\_2014

\* FEATURE TYPE Simple

\* GEOMETRY TYPE Point

\* HAS TOPOLOGY FALSE

\* FEATURE COUNT 1781

\* SPATIAL INDEX TRUE

\* LINEAR REFERENCING FALSE

## Data Quality

### SCOPE OF QUALITY INFORMATION

RESOURCE LEVEL dataset

## Lineage

### PROCESS STEP



WHEN THE PROCESS OCCURRED 2014-03-01 00:00:00

DESCRIPTION A shoreline for Gloucester County was generated using the 2011 VBMP imagery and using ArcGis version 10.0. Bing and Google Earth online imagery was used to provide additional interpretive information to improve accuracy.

### PROCESS STEP



WHEN THE PROCESS OCCURRED 2014-05-01 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 2009 imagery. Conditions were also verified using Bing Birds Eye and aerial imagery. For the land use/bank cover shapefile arcs were split and coded for land use, bank height, bank cover, bank stability, 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, delapidated bulkhead, riprap, unconventional, debris, wharf, breakwater, groinfield, jetty, marsh toe revetment and marina >50 and <50 slips.

### PROCESS STEP



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

DESCRIPTION A 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 2014-10-01 00:00:00

DESCRIPTION This Red Hen data was used as part of the QAQC.

## Distribution

### DISTRIBUTION FORMAT

\* NAME Shapefile

VERSION Shapefile

### TRANSFER OPTIONS

\* TRANSFER SIZE 0.048

## Fields

DETAILS FOR OBJECT GLOUCESTER\_ASTRU\_2014

\* TYPE Feature Class

\* ROW COUNT 1781

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 PNTSTRU



\* ALIAS PNTSTRU

\* DATA TYPE String

\* WIDTH 50

\* 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 Date of Survey

## 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 2015-01-07

#### ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

CREATED IN ARCGIS FOR THE ITEM 2014-09-15 11:52:17

LAST MODIFIED IN ARCGIS FOR THE ITEM 2015-01-07 15:44:10

#### AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2015-01-07 15:44:10

## Metadata Contacts

#### METADATA CONTACT

INDIVIDUAL'S NAME Sharon Killeen

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

CONTACT'S POSITION GIS Programmer/Analyst

CONTACT'S ROLE point of contact

#### CONTACT INFORMATION

PHONE

VOICE 804-684-7534

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 [sharon@vims.edu](mailto:sharon@vims.edu)

## Thumbnail and Enclosures

THUMBNAIL

THUMBNAIL TYPE JPG