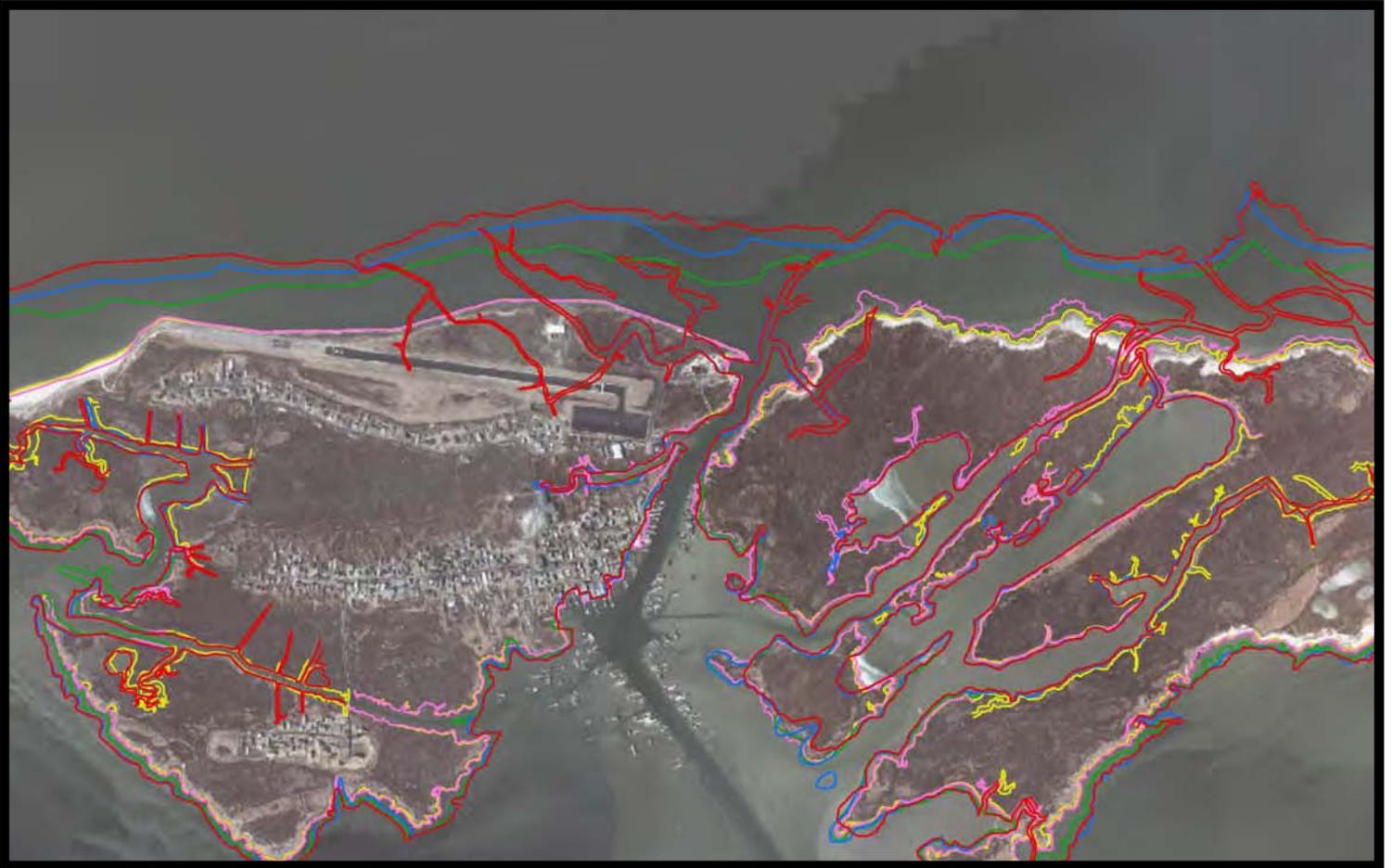


Shoreline Evolution: Accomack County, Virginia

Chesapeake Bay Shorelines



Shoreline Studies Program
Virginia Institute of Marine Science
College of William & Mary
Gloucester Point, Virginia

October 2015

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Data Summary Report

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October 2015

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1 Introduction

Accomack County is situated on the upper reaches of Virginia's Eastern Shore (Figure 1). Because the County's shoreline is continually changing, determining where the shoreline was in the past, how far and how fast it is moving, and what factors drive shoreline change will help define where the shoreline will be going in the future. These rates and patterns of shore change along Chesapeake Bay's estuarine shores will differ through time as winds, waves, tides, and currents shape and modify coastlines by eroding, transporting, and depositing sediments.

The purpose of this report is to document how the Chesapeake Bay shore zone of Accomack County has evolved since 1938. The report does not include the ocean side shorelines of Accomack County.

Aerial imagery was taken for most of the Bay region beginning that year and can be used to assess the geomorphic nature of shore change. Aerial photos show how the coast has changed, how beaches, dunes, bars, and spits have grown or decayed, how barriers have breached, how inlets have changed course, and how one shore type has displaced another or has not changed at all. Shore change is a natural process but, quite often, the impacts of man, through shore hardening or inlet stabilization, come to dominate a given shore reach. In addition to documenting historical shorelines, the change in shore positions along the larger creeks in Accomack County will be quantified in this report. The shorelines of very irregular coasts, small creeks and around inlets, and other complicated areas will be shown but not quantified.

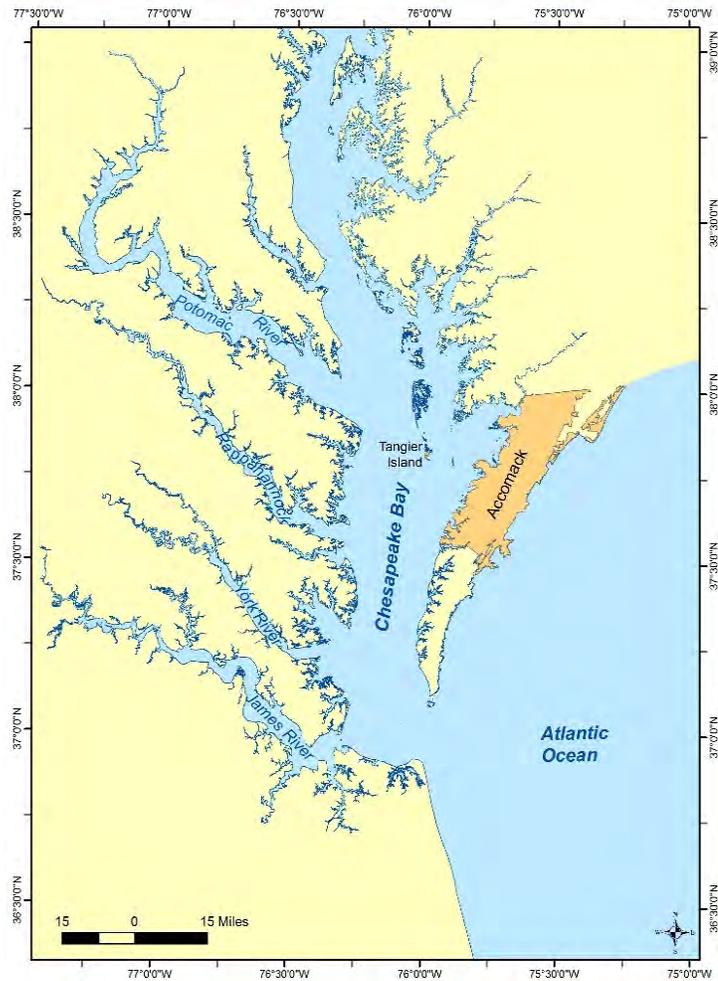


Figure 1. Location of Accomack County within the Chesapeake Bay system.

2 Methods

2.1 Photo Rectification and Shoreline Digitizing

An analysis of aerial photographs provides the historical data necessary to understand the suite of processes that work to alter a shoreline. Images of the Accomack County Shoreline from 1938, 1949, 1960, 1963, 1994, 2002, and 2009, and 2013 were used in the analysis. The 1994, 2002, 2009, and 2013 images were available from other sources. The 1994 imagery was orthorectified by the U.S. Geological Survey (USGS) and the 2002, 2009, and 2013 imagery was orthorectified by the Virginia Base Mapping Program (VBMP). The 1938, 1949, 1960, and 1963 photos are part of the VIMS Shoreline Studies Program archives. The historical aerial images used to analyze the entire County shoreline were not always flown on the same day. The exact dates that the 1994 images were flown could not be ascertained; however, the dates for the other years are as follows:

1938: May 1, 7, 17; June 7 and 25;
1949: March 13, November 8 and 9;
1960: July 23 (Tangier Island only)
1963: May 15;
2002: February 14, 16, 19, 22, and 24;
2009: February 6 and 7;
2013: March 9.

The 1938, 1949, 1960, and 1963 images were scanned as tiffs at 600 dpi and converted to ERDAS IMAGINE (.img) format. These aerial photographs were orthographically corrected to produce a seamless series of aerial mosaics following a set of standard operating procedures. The 1994 Digital Orthophoto Quarter Quadrangles (DOQQ) from USGS were used as the reference images. The 1994 photos are used rather than higher quality, more recent aeriels because of the difficulty in finding control points that match the earliest 1937 images.

ERDAS Orthobase image processing software was used to orthographically correct the individual flight lines using a bundle block solution. Camera lens calibration data were matched to the image location of fiducial points to define the interior camera model. Control points from 1994 USGS DOQQ images provide the exterior control, which is enhanced by a large number of image-matching tie points produced automatically by the software. The exterior and interior models were combined with a digital elevation model (DEM) from the USGS National Elevation Dataset to produce an orthophoto for each aerial photograph. The orthophotographs were adjusted to approximately uniform brightness and contrast and were mosaicked together using the ERDAS Imagine mosaic tool to produce a one-meter resolution mosaic .img format. To maintain an accurate match with the reference images, it is necessary to

distribute the control points evenly, when possible. This can be challenging in areas given the lack of ground features and poor photo quality on the earliest photos. Good examples of control points were manmade features such as road intersections and stable natural landmarks such as ponds and creeks that have not changed much over time. The base of tall features such as buildings, poles, or trees can be used, but the base can be obscured by other features or shadows making these locations difficult to use accurately. Many areas Accomack County were particularly difficult to rectify, due to the lack of development in both the historical and the reference images. The extensive marsh shorelines were particularly difficult to rectify.

Once the aerial photos were orthorectified and mosaicked, the shorelines were digitized in ArcMap with the mosaics in the background. The morphologic toe of the beach or edge of marsh was used to approximate low water. High water limit of runup can be difficult to determine on some shorelines due to narrow or non-existent beaches against upland banks or vegetated cover. The feature digitized is noted in the shoreline attributes for the 2009 photos. Six hundred and eight miles of shoreline were digitized from the 2009 photos. However, not all tidal shoreline was digitized inside very small creeks and marshes. The most extensive digitizing occurred on the 1938 and 2009 photos. Other dates were not as extensively digitized in the smaller creeks because the lack of change makes viewing multiple shorelines difficult. Poor quality photos in some areas made rectifying and digitizing images difficult. The 1938 aerial photos were not available for several areas of marsh shoreline and one small island.

Environmental conditions along the shoreline made it difficult to delineate the shoreline even on the latest photos. In some areas, it was difficult to tell the difference between marsh and tidal flats. The 2009 images have ice along the shoreline that can make digitizing problematic (Figure 2A). Tidal differences between when the latest photos made direct comparison of digitized shorelines difficult. In particular, the 2013 photos seem to have been flown at high tide. Under high tide conditions the toe of the beach or edge of marsh are not always visible (Figure 2B). In areas where the shoreline was not clearly identifiable on the aerial photography, the location was estimated based on the experience of the digitizer. The displayed shorelines are in shapefile format. One shapefile was produced for each year that was mosaicked.

Horizontal positional accuracy is based upon orthorectification of scanned aerial photography against the USGS digital orthophoto quadrangles. For vertical control, the USGS 30m DEM data was used. The 1994 USGS reference images were developed in accordance with National Map Accuracy Standards (NMAS) for Spatial Data Accuracy at the 1:12,000 scale. The 2002 and 2009 Virginia Base Mapping Program's orthophotography were developed in accordance with the National Standard for Spatial Data Accuracy

(NSSDA). Horizontal root mean square error (RMSE) for historical mosaics was held to less than 20 ft.

2.2 Rate of Change Analysis

AMBUR (Analyzing Moving Boundaries Using R) is a suite of tools that are used to better analyze and understand historic shoreline changes. These tools use the free, open-source R software environment and can be customized to perform not only advanced statistics but also geospatial and geostatistical functions. The AMBUR package provides tools for investigating diverse shoreline types through: multiple shoreline settings, improved transect casting methods, and detailed analysis and output. The package allows import and export of geospatial data in ESRI shapefile format, which is compatible with most commercial and open-source GIS software. The "baseline and transect" method is the primary technique used to quantify distances and rates of shoreline movement, and to detect classification changes across time.

One hundred fifty six miles of baselines and 24,560 transects about 30 feet apart were created for Accomack County. Baselines were digitized slightly seaward of the 1938 shoreline and encompassed most of the County's coast. The baselines may not include very small creeks and areas that have unique shoreline morphology such as creek mouths and spits.

The End Point Rate (EPR) is calculated by determining the distance between the oldest and most recent shoreline in the data and dividing it by the number of years between them. This method provides an accurate net rate of change over the long term and is relatively easy to apply to most shorelines since it only requires two dates. This method does not use the intervening shorelines so it may not account for changes in accretion or erosion rates that may occur through time. However, Milligan *et al.* (2010a, 2010b, 2010c, 2010d) found that in several localities within the bay, EPR is a reliable indicator of shore change even when intermediate dates exist.

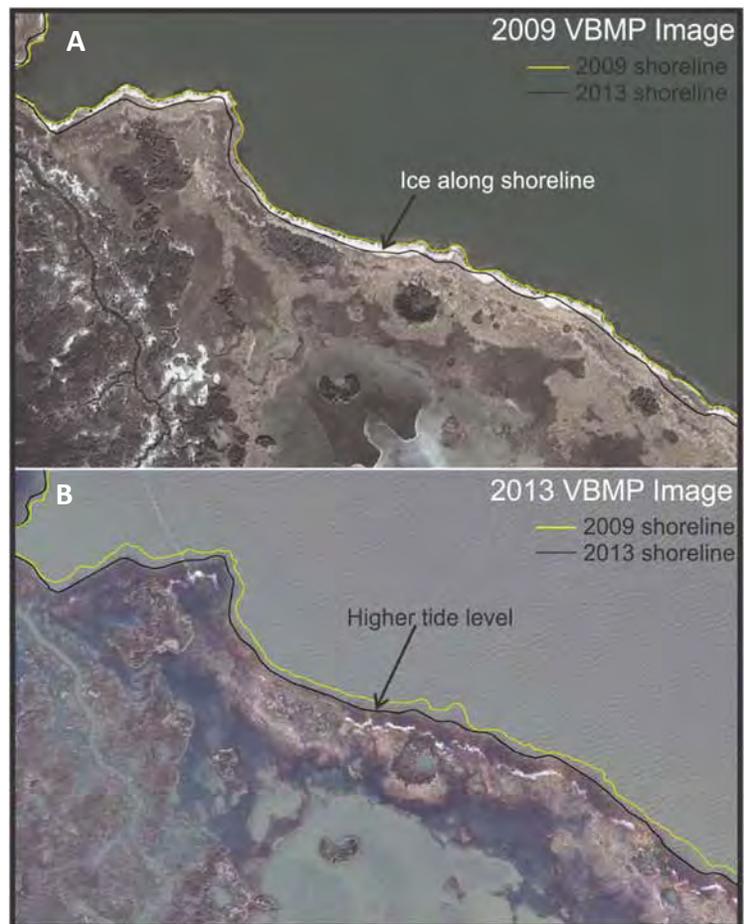


Figure 2. The 2009 and 2013 VBMP images showing issues that impacted digitizing of the shoreline.

Using methodology reported in Morton *et al.* (2004) and National Spatial Data Infrastructure (1998), estimates of error in orthorectification, control source, DEM and digitizing were combined to provide an estimate of total maximum shoreline position error. The data sets that were orthorectified (1938, 1949, 1960, and 1963) have an estimated total maximum shoreline position error of 20.0 ft, while the total maximum shoreline error for the three existing datasets are estimated at 18.3 ft for USGS and 10.2 ft for VBMP. The maximum annualized error for the shoreline data is ± 0.7 ft/yr. The smaller rivers and creeks are more prone to error due to their lack of good control points for photo rectification, narrower shore features, tree, and ground cover and overall smaller rates of change. These areas are digitized but due to the higher potential for error, rates of change analysis are not calculated. As shown in [Figure 2B](#), the higher tide level at which the 2013 photos were flown made it difficult to accurately depict the actual shore change between 2009 and 2013. The shoreline change analysis, in some areas, may show larger amounts of erosion between 2009 and 2013 than actually occurred. Many areas of Accomack County have shore change rates that fall within the calculated error. Some of the areas that show very low accretion can be due to errors within the method as described above.

The Accomack County shoreline was divided into 15 plates ([Figure 3](#)) in order to display the shoreline data. In [Appendix A](#), the 2009 image is shown with only the 1938 and 2009 shorelines and the calculated EPR of change. In [Appendix B](#), one photo date and the associated shoreline is shown on each. These include the photos taken in 1938, 1949, 1960 (Tangier only), 1963, 1994, 2002, 2009, and 2013. The shorelines are summarized on the 2013 image.

3 Results and Discussion

Accomack is a very large county with diverse types of shorelines. In the rivers and creeks, shoreline change can be very small, but shorelines along Chesapeake Bay and Pocomoke Sound are exposed to higher wind/wave climates resulting in higher erosion rates (Table 1). The large amount of marsh shoreline is particularly susceptible to erosion in this environment. Typically, the very low erosion (<1 ft/yr) occurs in the upper reaches of the creeks, and more toward the Bay, the rate increases to low erosion (-1 to -2 ft/yr). Along the Chesapeake Bay and Pocomoke sound shorelines, rates of change can range from medium erosion (-2 to -5 ft/yr) to very high erosion (<-10 ft/yr). Western-facing shorelines tend to have higher erosion rates than north and south facing shorelines.

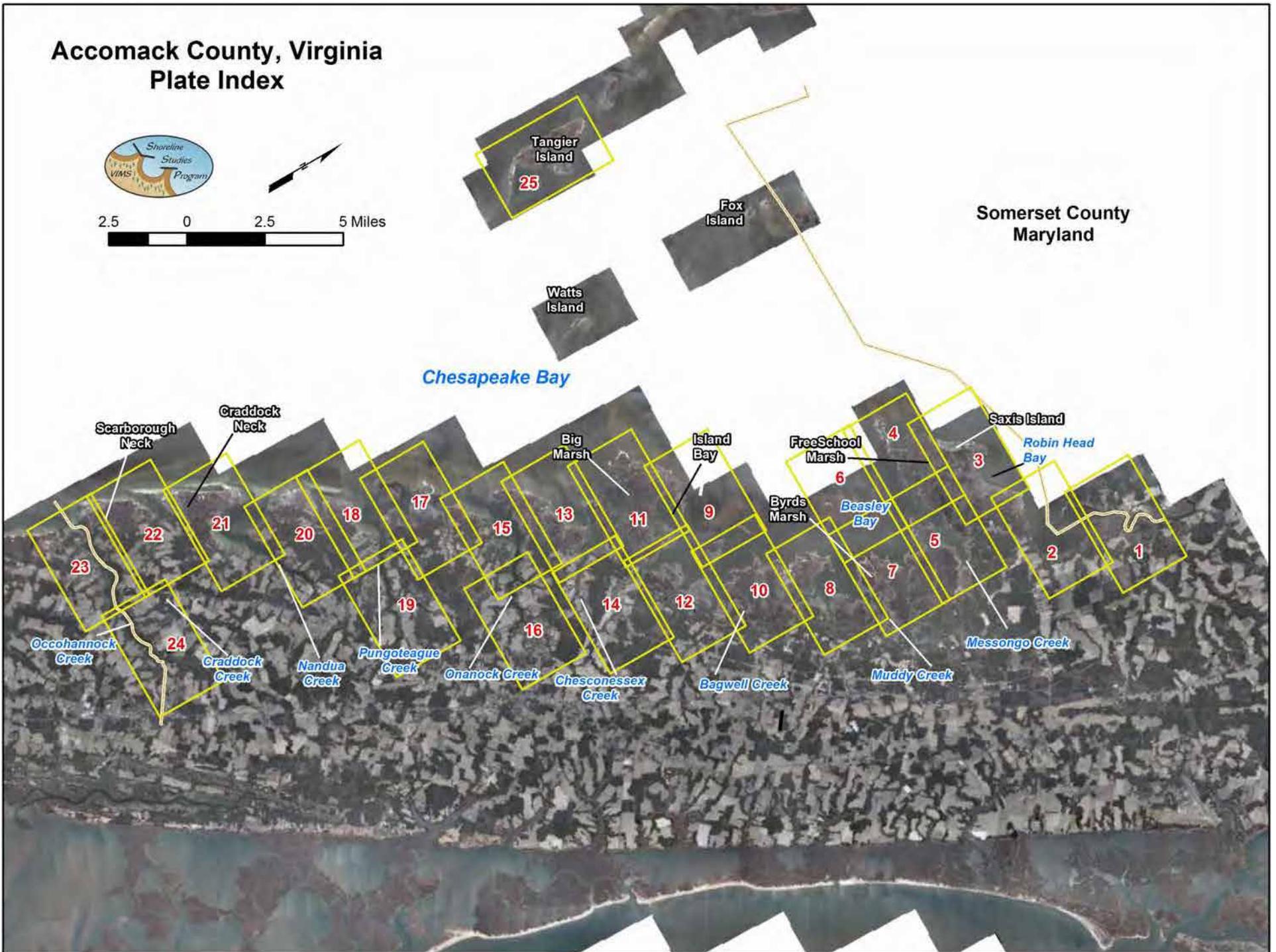


Figure 3. Plate index for Accomack County shorelines.

Saxis Island ([Appendix A, Plate 3](#)) has medium to high erosion at North End Point while the center of the Island has very low to low erosion. This lower rate is the result of structures placed along the shoreline. Many marsh islands occur in the Bay offshore of Accomack County. These islands like Halfmoon Island ([Appendix A, Plate 9](#)) and Parkers Island ([Appendix A, Plate 17](#)) have lost a great deal of land mass in the 70 years between 1938 and 2009. The 1938 photos were not available for a section of Big Marsh ([Appendix A, Plate 11](#)). Hyslop Marsh ([Appendix A, Plate 21](#)) also is eroding significantly.

Table 1. Average end point rates of shoreline change in feet per year along sections of Accomack County's coast.

Reach Name	Plate Number	Avg EPR (ft/yr)	Category
County line with Maryland to Pig Point	1 and 2	-1.3	Low Erosion
Pig Point to North Point at mouth of Messongo Creek	2, 3, and 4	-1.6	Low Erosion
Messongo Creek to Rock Gut off Deep Creek	5-12	-0.9	Very Low Erosion
Rock Gut off Deep Creek to Pompcoc Creek	12-13	-0.9	Very Low Erosion
Pompcoc Creek to East Point	12-15	-1.3	Low Erosion
East Point to West Point	15-18	-1.1	Low Erosion
West Point to Bluff Point, Pungoteague Creek	18-19	-0.6	Very Low Erosion
Finneys Island, Scarborough Island and Parkers Island	17	-1.5	Low Erosion
Bluff Point to Back Creek off Nandua Creek	18 and 20	-1.3	Low Erosion
Nandua Creek and Curratuck Creek	20-21	-0.6	Very Low Erosion
Hyslop Point to Back Creek	21	-2.3	Medium Erosion
Back Creek to and including Craddock Creek	22	-0.6	Very Low Erosion
Mouth of Craddock Creek to Occohannock Creek	22-23	-3.0	Medium Erosion
Occohannock Creek	23-24	-0.3	Very Low Erosion
Spit by Cod Harbor to Tangier Channel	25	-14.8	Very High Erosion
Tangier Channel to the north end of The Uppards	25	-11.6	Very High Erosion
The eastern-facing shore of The Uppards	25	-2.0	Medium Erosion
The eastern-facing shore of Tangier from Mailboat Harbor to Whale Point	25	-1.2	Low Erosion
Eastern-facing shore of Port Isobel	25	-5.9	High Erosion
Western-facing shore of Port Isobel	25	-0.1	Very Low Erosion
All of Interior of The Uppards	25	-0.8	Very Low Erosion

Tangier Island has the highest erosion rates in all of Accomack County ([Appendix A, Plate 25](#)). The western-facing shoreline is eroding at the long-term rate of -12 to -15 ft/yr. In particular, the large spit at the southern end of the Island has migrate eastward in response to the loss along the main part of the Island. In 1938, Tangier was one island with no channel between the main part of the Island and the Uppards. The main part of Tangier Island, where

there is now an airport, is now protected by a revetment. Near-future shore changes should be minimal. The southeastern facing shoreline of Port Isobel also has very high erosion rates. Only the interior of the Uppards and the protected west-facing shoreline of Port Isobel have very low erosion rates. On the interior of the Uppards, change in the marsh is likely due to sea level rise rather than shore erosion. On the protected side of Port Isobel, boat wakes and waves during increased water levels can erode the shoreline.

4 Summary

The rates of change shown in Table 1 are averaged across large sections of shoreline and may not be indicative of rates at specific sites within the reach. The marsh shoreline exposed to the wind/waves of Chesapeake Bay have some of the highest rates of erosion. Inside the creeks, minimal erosion is occurring. Some of the areas with very low accretion, particularly in the smaller creeks and rivers, may be the result of errors within photo rectification and digitizing wooded shorelines.

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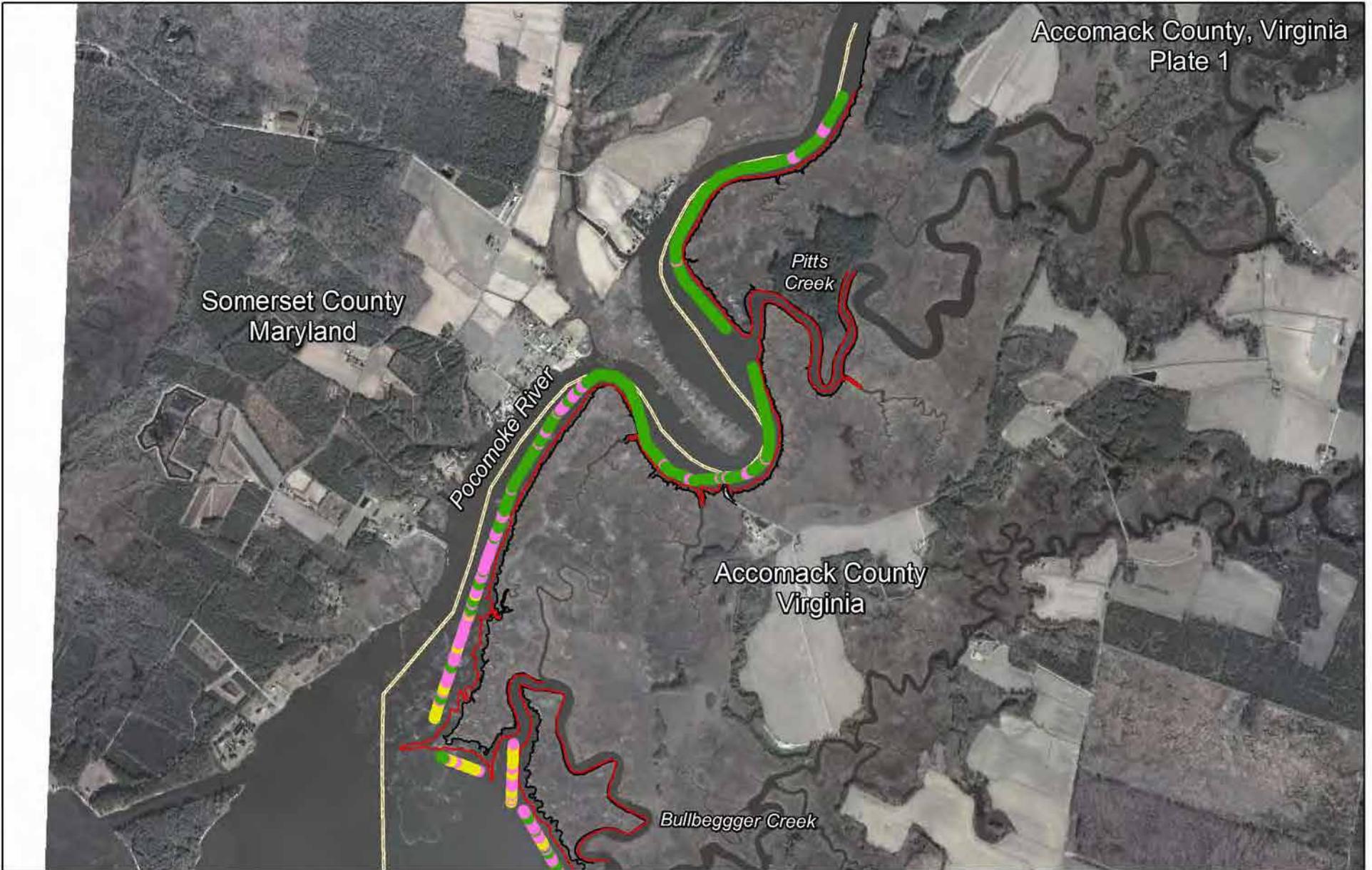
Appendix A

End Point Rate of Shoreline Change Maps

Shoreline change rates calculated between 1937 and 2009 are shown on a 2009 VBMP aerial photo. The calculated rates of change were averaged to determine an average rate of change for sections of shoreline as shown in Table 1 of the report.

Note: The location labels on the plates come from U.S. Geological Survey topographic maps, Google Earth, and other map sources and may not be accurate for the historical or even more recent images. They are for reference only.

Plate 1	Plate 9	Plate 17
Plate 2	Plate 10	Plate 18
Plate 3	Plate 11	Plate 19
Plate 4	Plate 12	Plate 20
Plate 5	Plate 13	Plate 21
Plate 6	Plate 14	Plate 22
Plate 7	Plate 15	Plate 23
Plate 8	Plate 16	Plate 24
		Plate 25



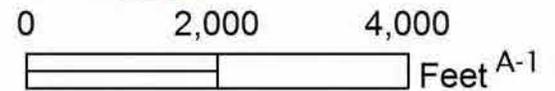
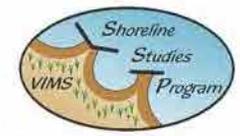
Shoreline Rates of Change

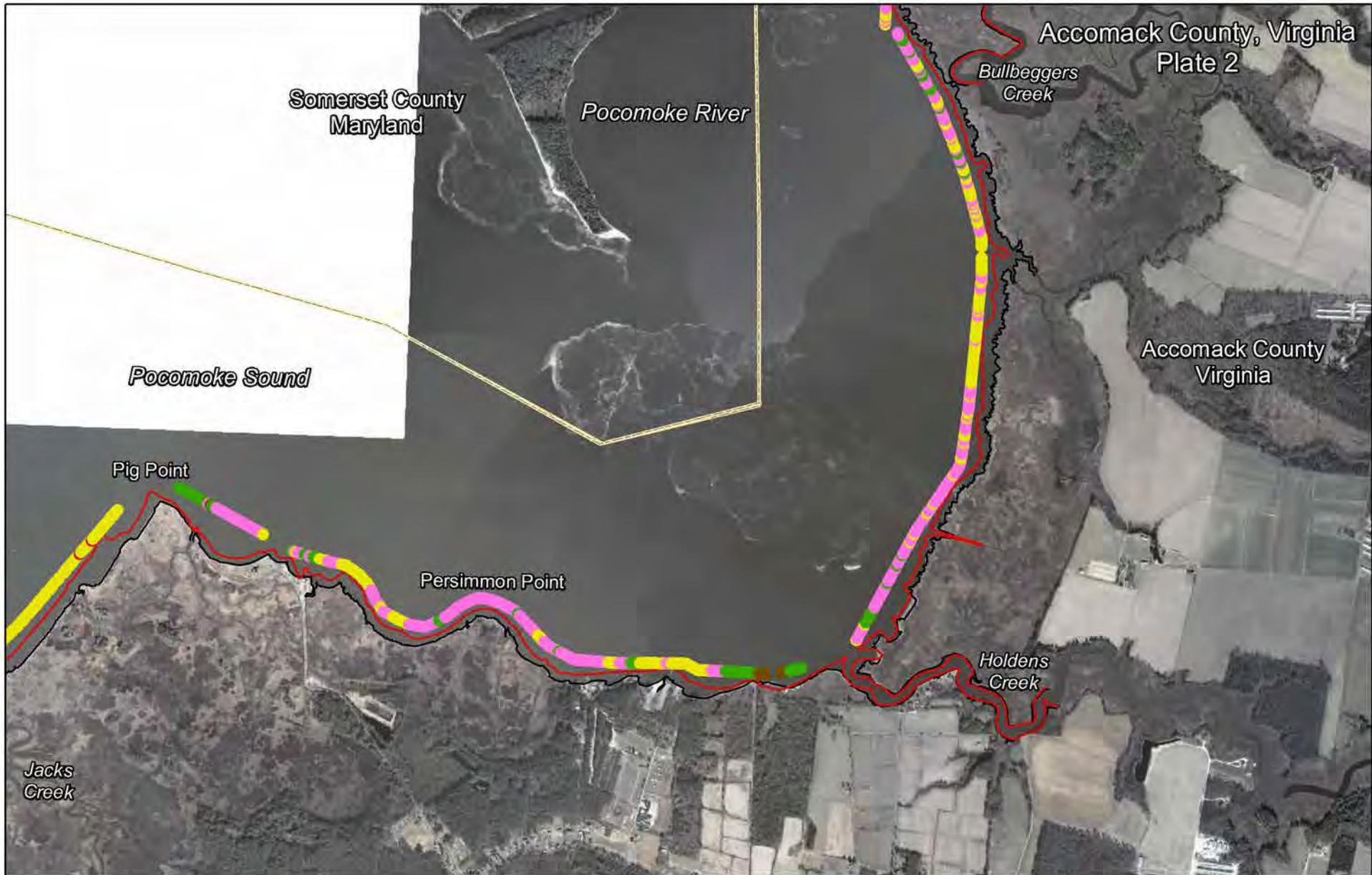
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● Medium Accretion: +5 to +2 (ft/yr)	● Medium Erosion: -2 to -5 (ft/yr)
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● Very Low Accretion: +1 to 0 (ft/yr)	◆ Very High Erosion: < -10 (ft/yr)

Legend

- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo





Accomack County, Virginia
Plate 2

Somerset County
Maryland

Pocomoke River

Bullbeggars
Creek

Pocomoke Sound

Accomack County
Virginia

Pig Point

Persimmon Point

Holdens
Creek

Jacks
Creek

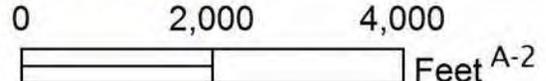
Shoreline Rates of Change

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| ● Medium Accretion: +5 to +2 (ft/yr) | ● Medium Erosion: -2 to -5 (ft/yr) |
| ● Low Accretion: +2 to +1 (ft/yr) | ● High Erosion: -5 to -10 (ft/yr) |
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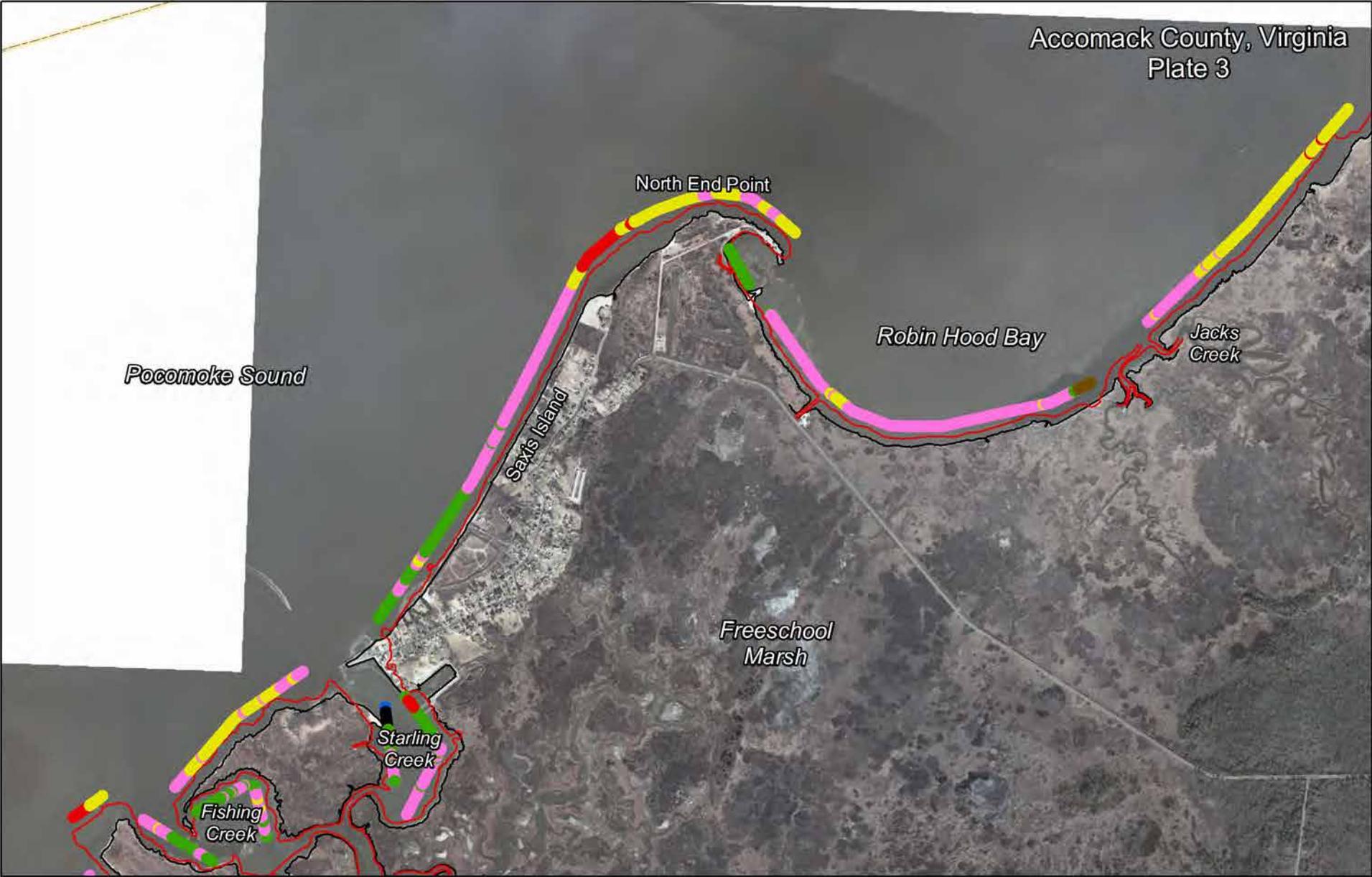
Legend

- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo



A-2



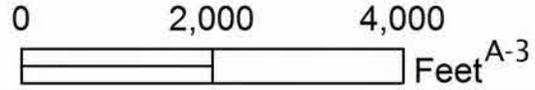
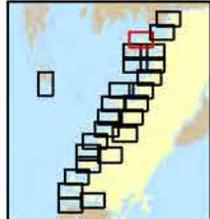
Shoreline Rates of Change

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- Very Low Accretion: +1 to 0 (ft/yr)
- Very Low Erosion: 0 to -1 (ft/yr)
- Low Erosion: -1 to -2 (ft/yr)
- Medium Erosion: -2 to -5 (ft/yr)
- High Erosion: -5 to -10 (ft/yr)
- ◆ Very High Erosion: < -10 (ft/yr)

Legend

- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo



A-3

Freeschool
Marsh

Pocomoke Sound

Drum Bay

Tunnels Island

Back
Creek

Back

Cove

Scarborough
Point

North
Point

Messongo Creek

Beasley Bay

South
Point

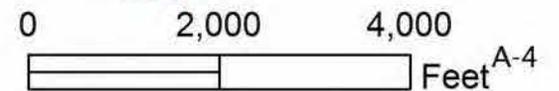
Shoreline Rates of Change

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| ● Medium Accretion: +5 to +2 (ft/yr) | ● Medium Erosion: -2 to -5 (ft/yr) |
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| ● Very Low Accretion: +1 to 0 (ft/yr) | ◆ Very High Erosion: < -10 (ft/yr) |

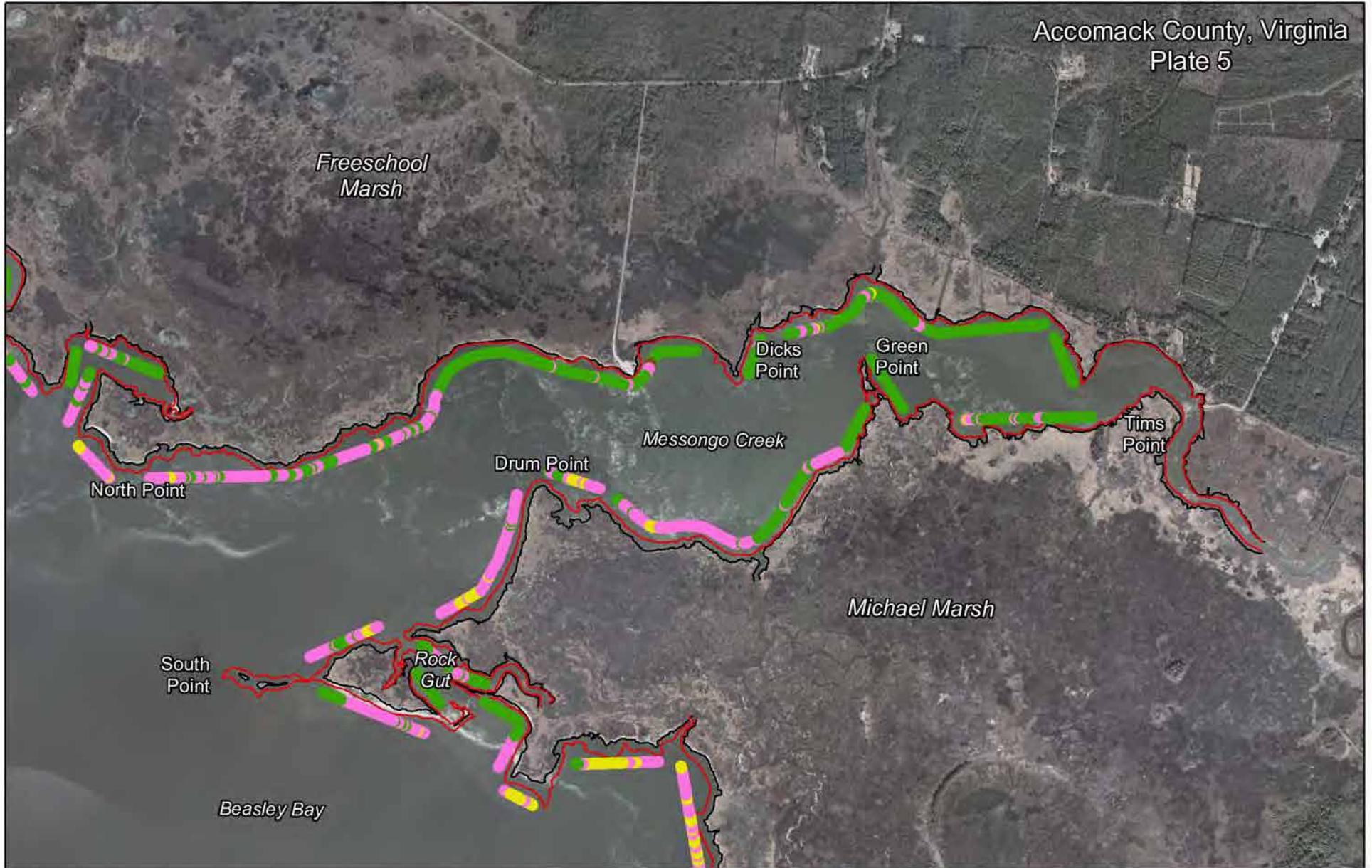
Legend

- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo



A-4



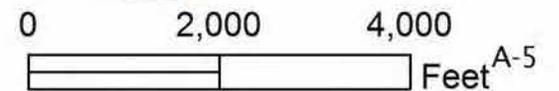
Shoreline Rates of Change

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| ● Very Low Accretion: +1 to 0 (ft/yr) | ◆ Very High Erosion: < -10 (ft/yr) |

Legend

- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo



Accomack County, Virginia
Plate 6



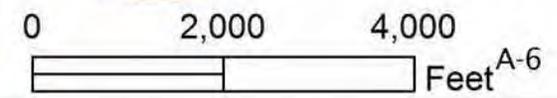
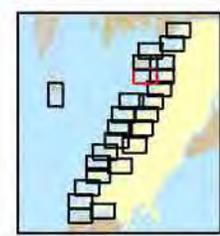
Shoreline Rates of Change

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● Low Accretion: +2 to +1 (ft/yr)	● High Erosion: -5 to -10 (ft/yr)
● Very Low Accretion: +1 to 0 (ft/yr)	◆ Very High Erosion: < -10 (ft/yr)

Legend

- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo



Accomack County, Virginia
Plate 7



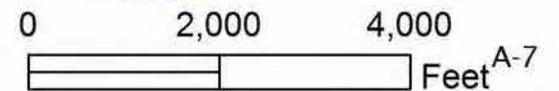
Shoreline Rates of Change

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|---------------------------------------|-------------------------------------|
| ◆ Very High Accretion: > +10 (ft/yr) | ● Very Low Erosion: 0 to -1 (ft/yr) |
| ● High Accretion: +10 to +5 (ft/yr) | ● Low Erosion: -1 to -2 (ft/yr) |
| ● Medium Accretion: +5 to +2 (ft/yr) | ● Medium Erosion: -2 to -5 (ft/yr) |
| ● Low Accretion: +2 to +1 (ft/yr) | ● High Erosion: -5 to -10 (ft/yr) |
| ● Very Low Accretion: +1 to 0 (ft/yr) | ◆ Very High Erosion: < -10 (ft/yr) |

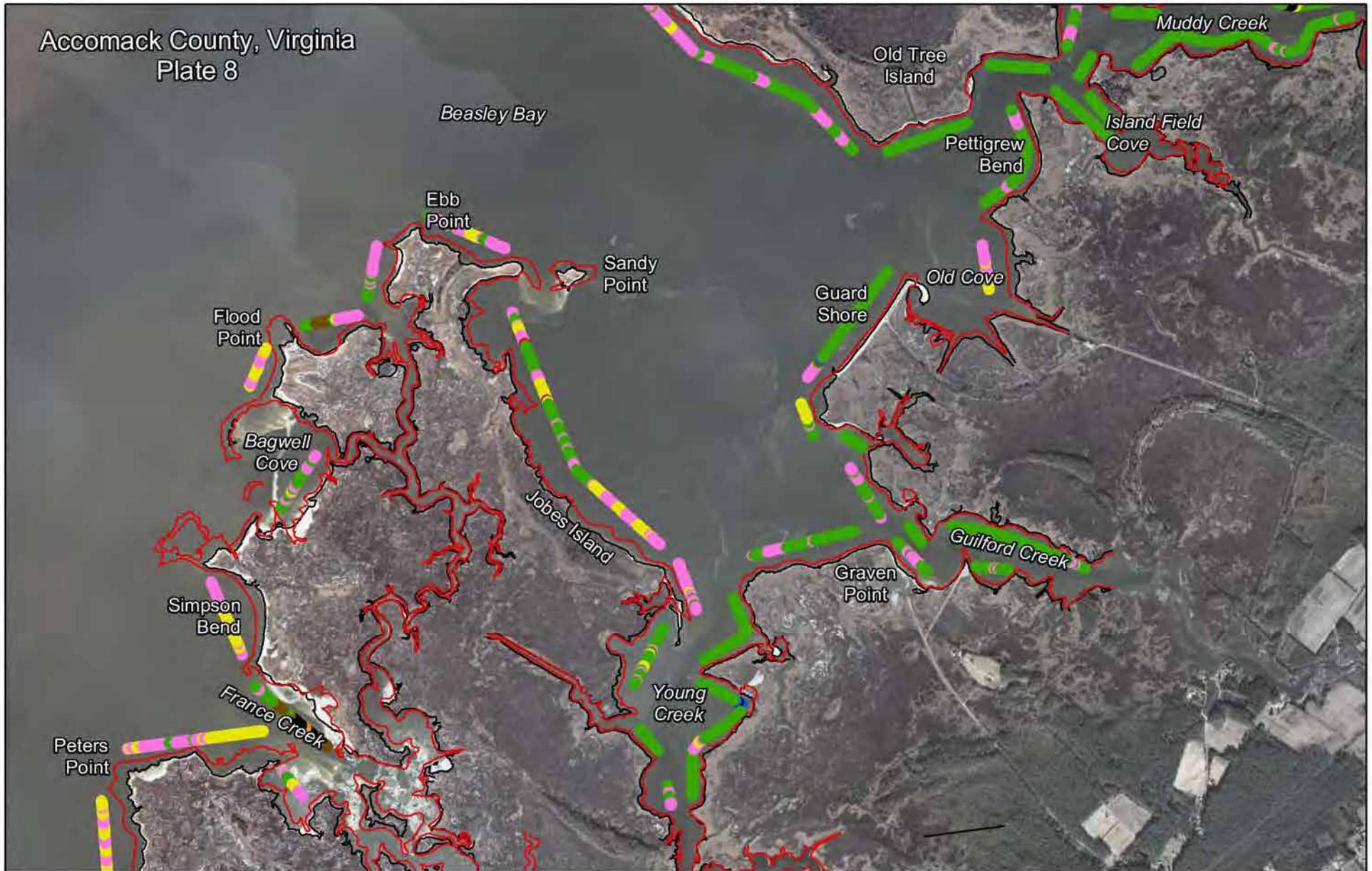
Legend

- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo



Accomack County, Virginia
Plate 8



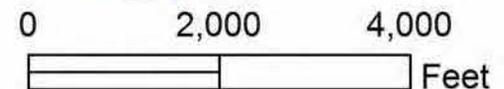
Shoreline Rates of Change

- | | |
|---------------------------------------|-------------------------------------|
| ◆ Very High Accretion: > +10 (ft/yr) | ● Very Low Erosion: 0 to -1 (ft/yr) |
| ● High Accretion: +10 to +5 (ft/yr) | ● Low Erosion: -1 to -2 (ft/yr) |
| ● Medium Accretion: +5 to +2 (ft/yr) | ● Medium Erosion: -2 to -5 (ft/yr) |
| ● Low Accretion: +2 to +1 (ft/yr) | ● High Erosion: -5 to -10 (ft/yr) |
| ● Very Low Accretion: +1 to 0 (ft/yr) | ◆ Very High Erosion: < -10 (ft/yr) |

Legend

- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo



Accomack County, Virginia
Plate 9



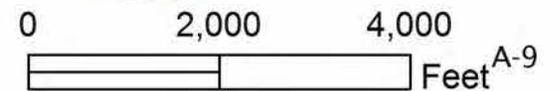
Shoreline Rates of Change

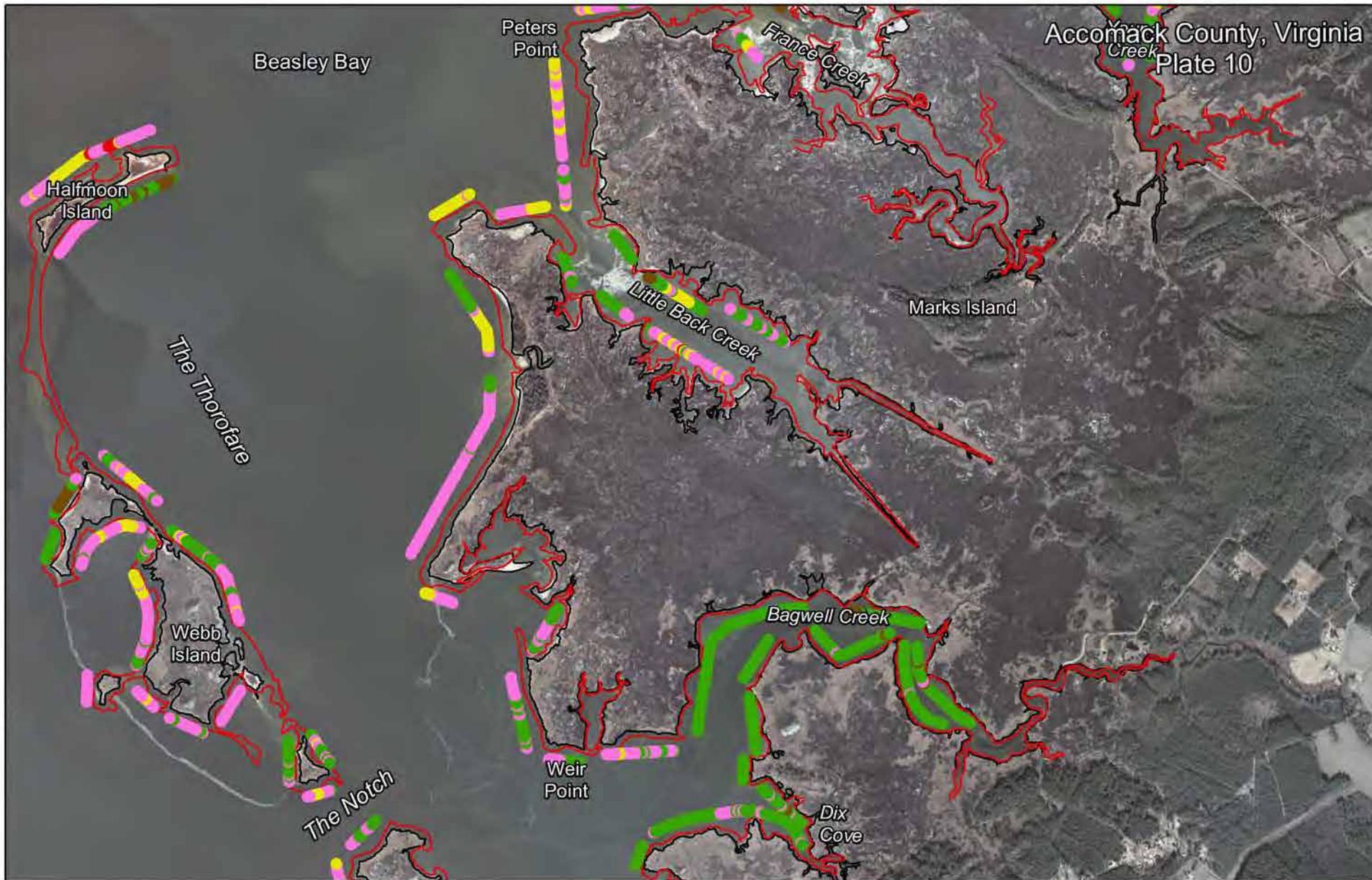
- | | |
|---------------------------------------|-------------------------------------|
| ◆ Very High Accretion: > +10 (ft/yr) | ● Very Low Erosion: 0 to -1 (ft/yr) |
| ● High Accretion: +10 to +5 (ft/yr) | ● Low Erosion: -1 to -2 (ft/yr) |
| ● Medium Accretion: +5 to +2 (ft/yr) | ● Medium Erosion: -2 to -5 (ft/yr) |
| ● Low Accretion: +2 to +1 (ft/yr) | ● High Erosion: -5 to -10 (ft/yr) |
| ● Very Low Accretion: +1 to 0 (ft/yr) | ◆ Very High Erosion: < -10 (ft/yr) |

Legend

- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo





Accomack County, Virginia
Plate 10

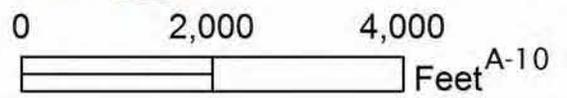
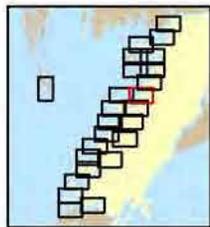
Shoreline Rates of Change

- | | |
|---------------------------------------|-------------------------------------|
| ◆ Very High Accretion: > +10 (ft/yr) | ● Very Low Erosion: 0 to -1 (ft/yr) |
| ● High Accretion: +10 to +5 (ft/yr) | ● Low Erosion: -1 to -2 (ft/yr) |
| ● Medium Accretion: +5 to +2 (ft/yr) | ● Medium Erosion: -2 to -5 (ft/yr) |
| ● Low Accretion: +2 to +1 (ft/yr) | ● High Erosion: -5 to -10 (ft/yr) |
| ● Very Low Accretion: +1 to 0 (ft/yr) | ◆ Very High Erosion: < -10 (ft/yr) |

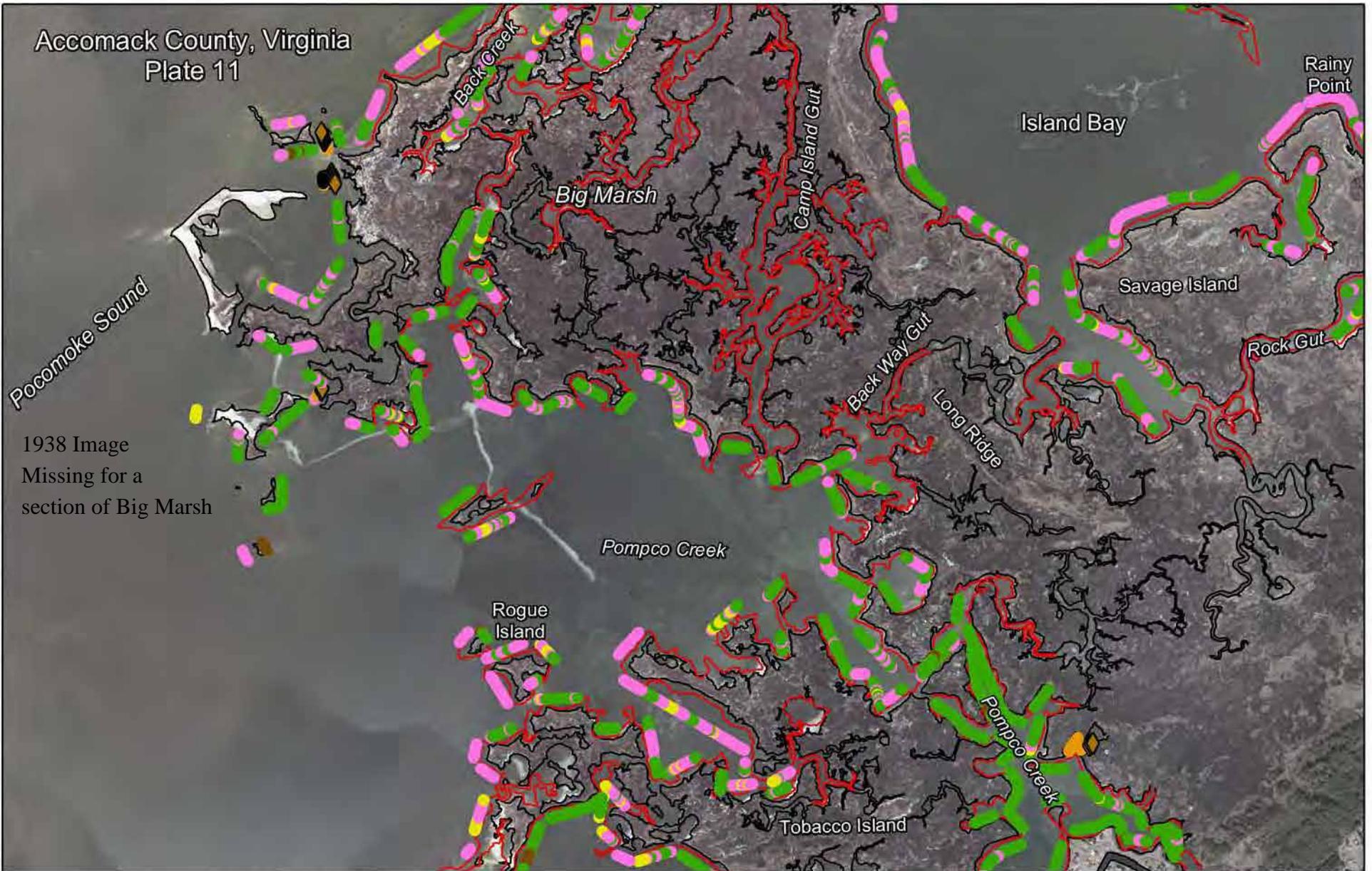
Legend

- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo



Accomack County, Virginia
Plate 11

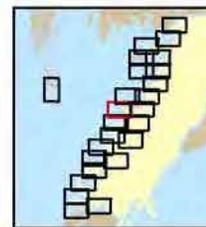


Shoreline Rates of Change			
◆	Very High Accretion: > +10 (ft/yr)	●	Very Low Erosion: 0 to -1 (ft/yr)
●	High Accretion: +10 to +5 (ft/yr)	●	Low Erosion: -1 to -2 (ft/yr)
●	Medium Accretion: +5 to +2 (ft/yr)	●	Medium Erosion: -2 to -5 (ft/yr)
●	Low Accretion: +2 to +1 (ft/yr)	●	High Erosion: -5 to -10 (ft/yr)
●	Very Low Accretion: +1 to 0 (ft/yr)	◆	Very High Erosion: < -10 (ft/yr)

Legend

— Shoreline 1938
— Shoreline 2009

2009 VBMP Photo



Shoreline Studies Program
VIMS

0 2,000 4,000 Feet

A-11

Accomack County, Virginia
Plate 12



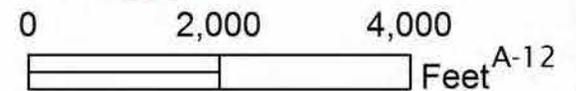
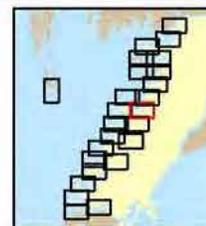
Shoreline Rates of Change

- | | |
|---------------------------------------|-------------------------------------|
| ◆ Very High Accretion: > +10 (ft/yr) | ● Very Low Erosion: 0 to -1 (ft/yr) |
| ● High Accretion: +10 to +5 (ft/yr) | ● Low Erosion: -1 to -2 (ft/yr) |
| ● Medium Accretion: +5 to +2 (ft/yr) | ● Medium Erosion: -2 to -5 (ft/yr) |
| ● Low Accretion: +2 to +1 (ft/yr) | ● High Erosion: -5 to -10 (ft/yr) |
| ● Very Low Accretion: +1 to 0 (ft/yr) | ◆ Very High Erosion: < -10 (ft/yr) |

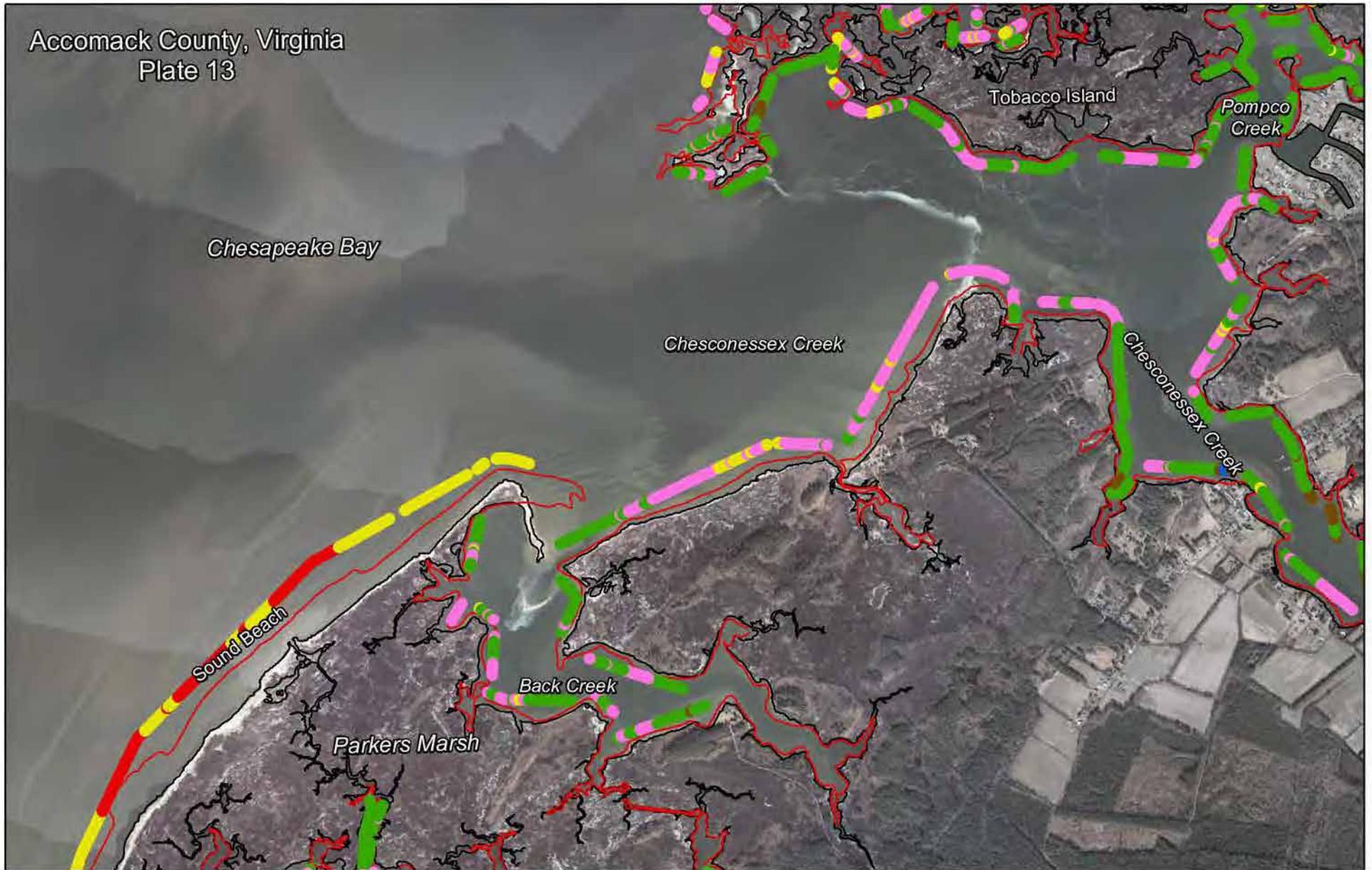
Legend

- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo



Accomack County, Virginia
Plate 13



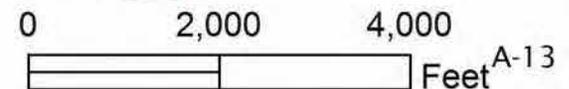
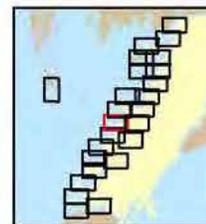
Shoreline Rates of Change

- | | |
|---------------------------------------|-------------------------------------|
| ◆ Very High Accretion: > +10 (ft/yr) | ● Very Low Erosion: 0 to -1 (ft/yr) |
| ● High Accretion: +10 to +5 (ft/yr) | ● Low Erosion: -1 to -2 (ft/yr) |
| ● Medium Accretion: +5 to +2 (ft/yr) | ● Medium Erosion: -2 to -5 (ft/yr) |
| ● Low Accretion: +2 to +1 (ft/yr) | ● High Erosion: -5 to -10 (ft/yr) |
| ● Very Low Accretion: +1 to 0 (ft/yr) | ◆ Very High Erosion: < -10 (ft/yr) |

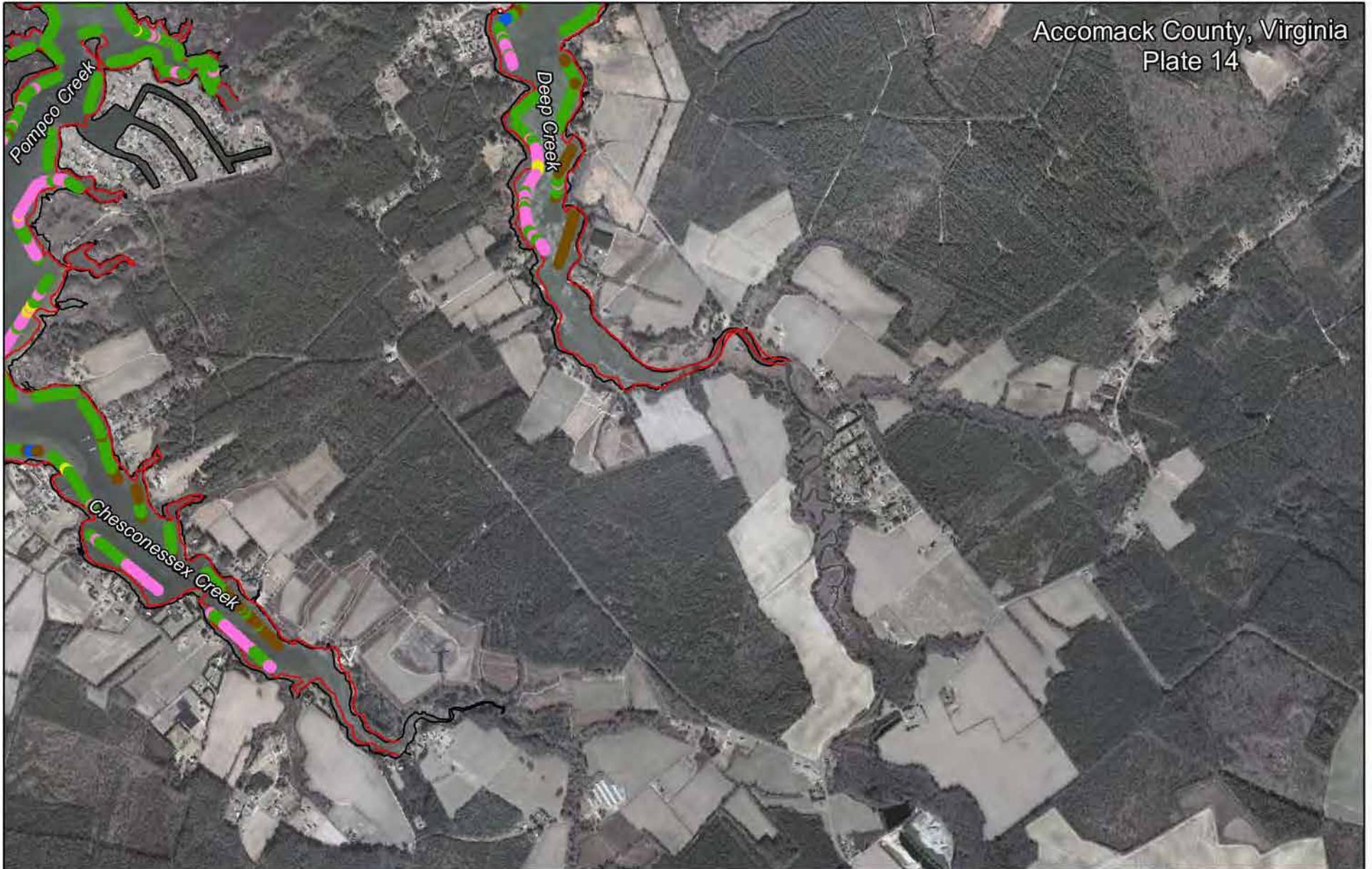
Legend

- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo



A-13



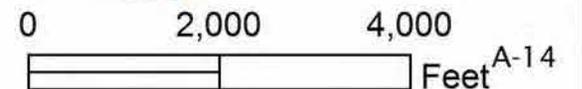
Shoreline Rates of Change

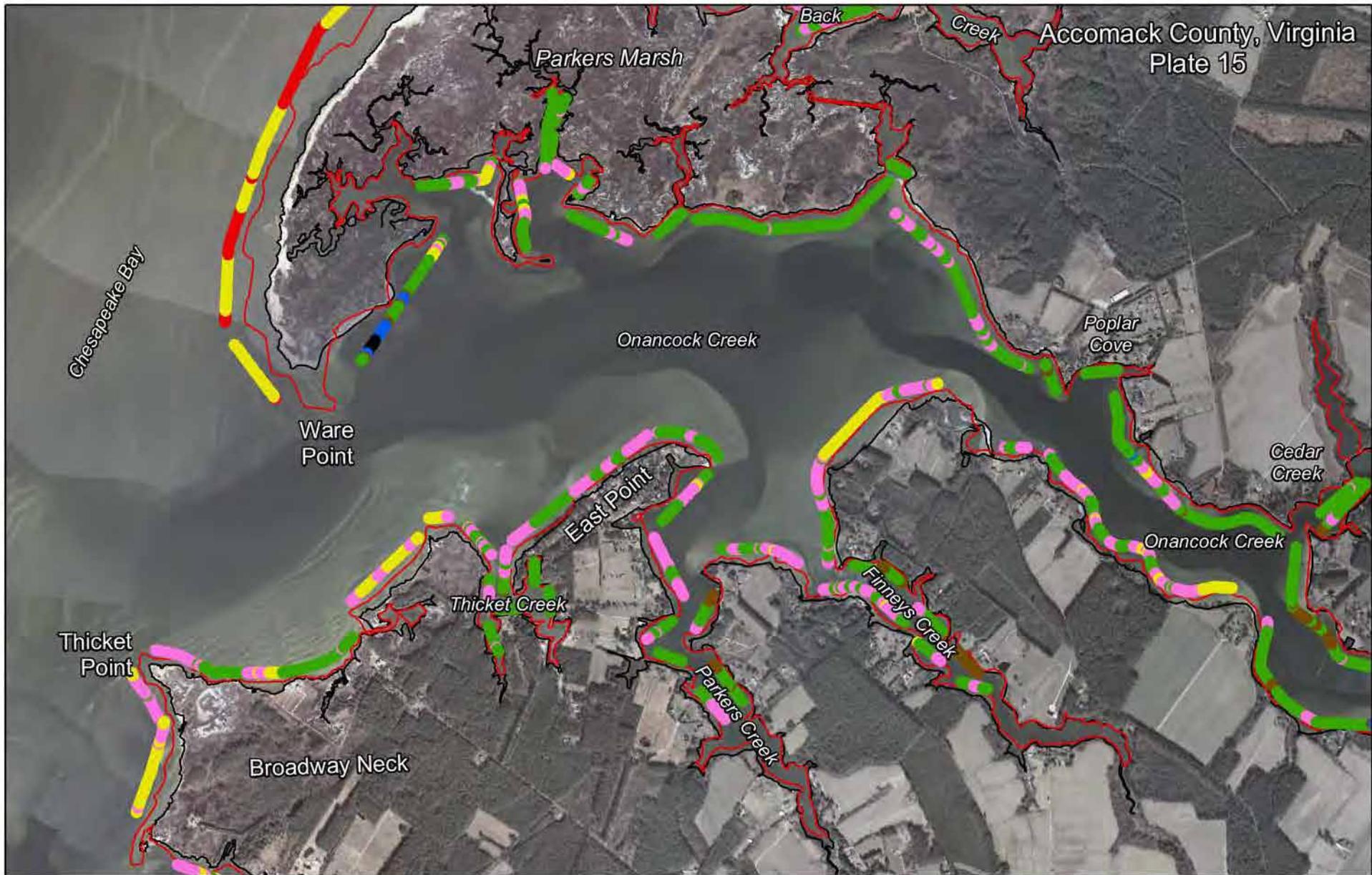
- | | |
|---------------------------------------|-------------------------------------|
| ◆ Very High Accretion: > +10 (ft/yr) | ● Very Low Erosion: 0 to -1 (ft/yr) |
| ● High Accretion: +10 to +5 (ft/yr) | ● Low Erosion: -1 to -2 (ft/yr) |
| ● Medium Accretion: +5 to +2 (ft/yr) | ● Medium Erosion: -2 to -5 (ft/yr) |
| ● Low Accretion: +2 to +1 (ft/yr) | ● High Erosion: -5 to -10 (ft/yr) |
| ● Very Low Accretion: +1 to 0 (ft/yr) | ◆ Very High Erosion: < -10 (ft/yr) |

Legend

- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo





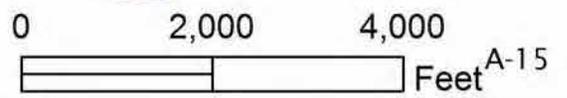
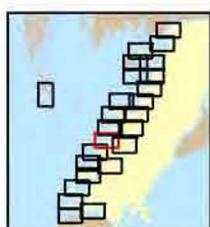
Shoreline Rates of Change

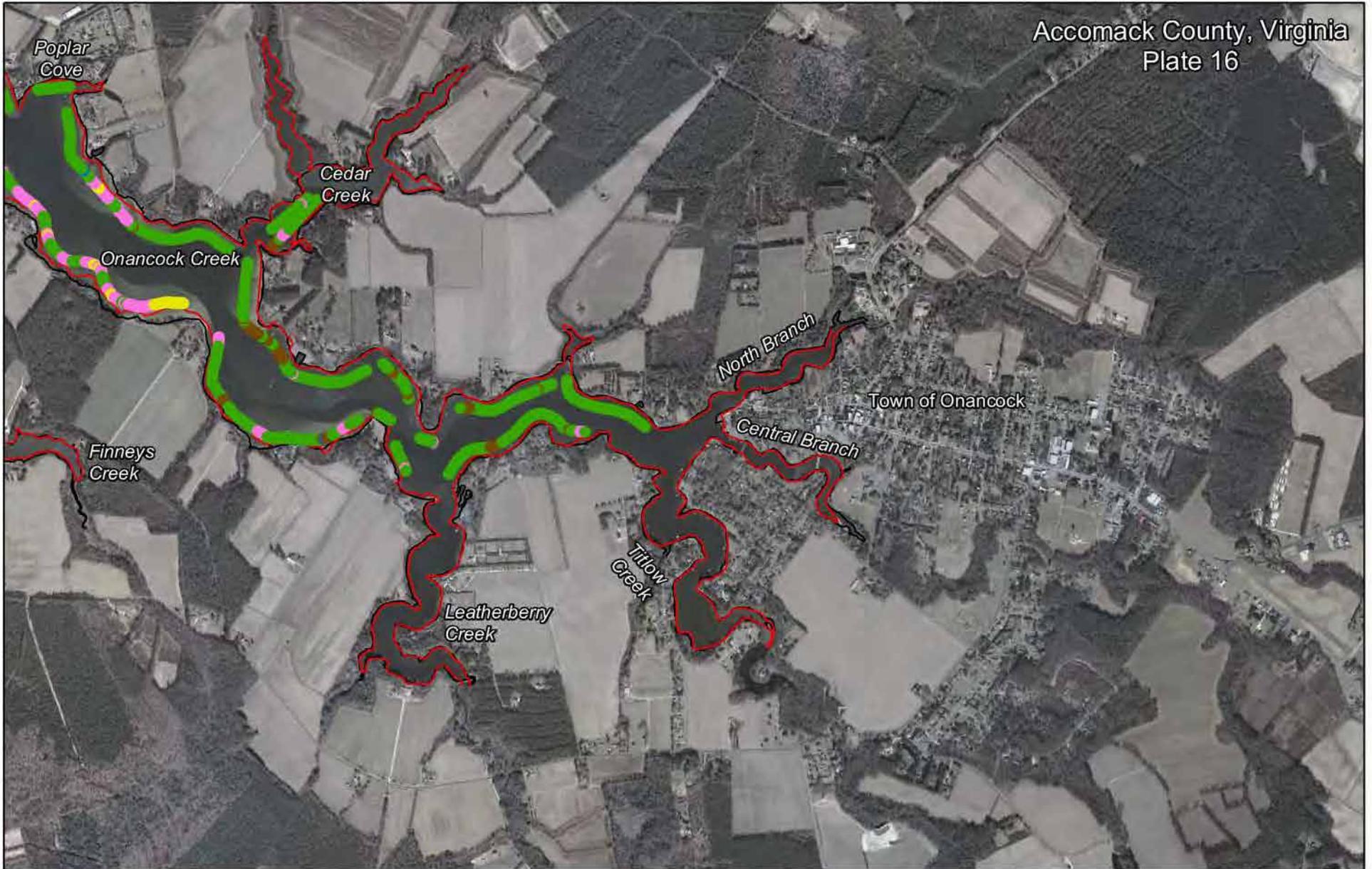
- | | |
|---------------------------------------|-------------------------------------|
| ◆ Very High Accretion: > +10 (ft/yr) | ● Very Low Erosion: 0 to -1 (ft/yr) |
| ● High Accretion: +10 to +5 (ft/yr) | ● Low Erosion: -1 to -2 (ft/yr) |
| ● Medium Accretion: +5 to +2 (ft/yr) | ● Medium Erosion: -2 to -5 (ft/yr) |
| ● Low Accretion: +2 to +1 (ft/yr) | ● High Erosion: -5 to -10 (ft/yr) |
| ● Very Low Accretion: +1 to 0 (ft/yr) | ◆ Very High Erosion: < -10 (ft/yr) |

Legend

- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo





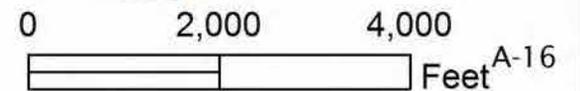
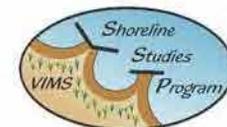
Shoreline Rates of Change

- | | |
|---------------------------------------|-------------------------------------|
| ◆ Very High Accretion: > +10 (ft/yr) | ● Very Low Erosion: 0 to -1 (ft/yr) |
| ● High Accretion: +10 to +5 (ft/yr) | ● Low Erosion: -1 to -2 (ft/yr) |
| ● Medium Accretion: +5 to +2 (ft/yr) | ● Medium Erosion: -2 to -5 (ft/yr) |
| ● Low Accretion: +2 to +1 (ft/yr) | ● High Erosion: -5 to -10 (ft/yr) |
| ● Very Low Accretion: +1 to 0 (ft/yr) | ◆ Very High Erosion: < -10 (ft/yr) |

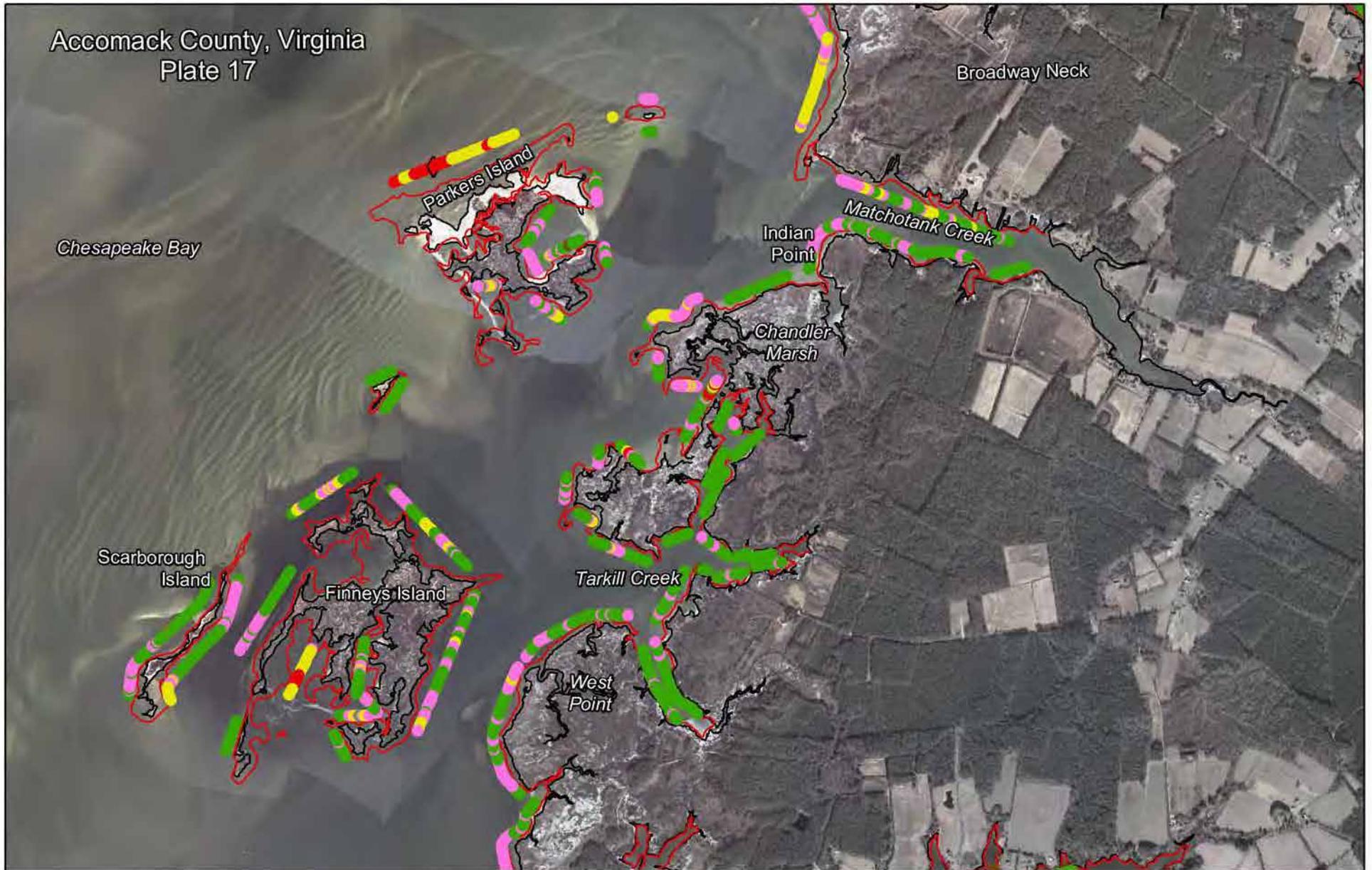
Legend

- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo



Accomack County, Virginia
Plate 17



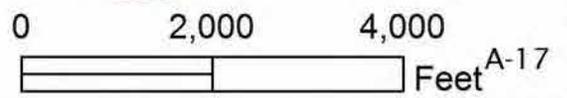
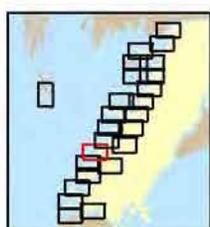
Shoreline Rates of Change

- | | |
|---------------------------------------|-------------------------------------|
| ◆ Very High Accretion: > +10 (ft/yr) | ● Very Low Erosion: 0 to -1 (ft/yr) |
| ● High Accretion: +10 to +5 (ft/yr) | ● Low Erosion: -1 to -2 (ft/yr) |
| ● Medium Accretion: +5 to +2 (ft/yr) | ● Medium Erosion: -2 to -5 (ft/yr) |
| ● Low Accretion: +2 to +1 (ft/yr) | ● High Erosion: -5 to -10 (ft/yr) |
| ● Very Low Accretion: +1 to 0 (ft/yr) | ◆ Very High Erosion: < -10 (ft/yr) |

Legend

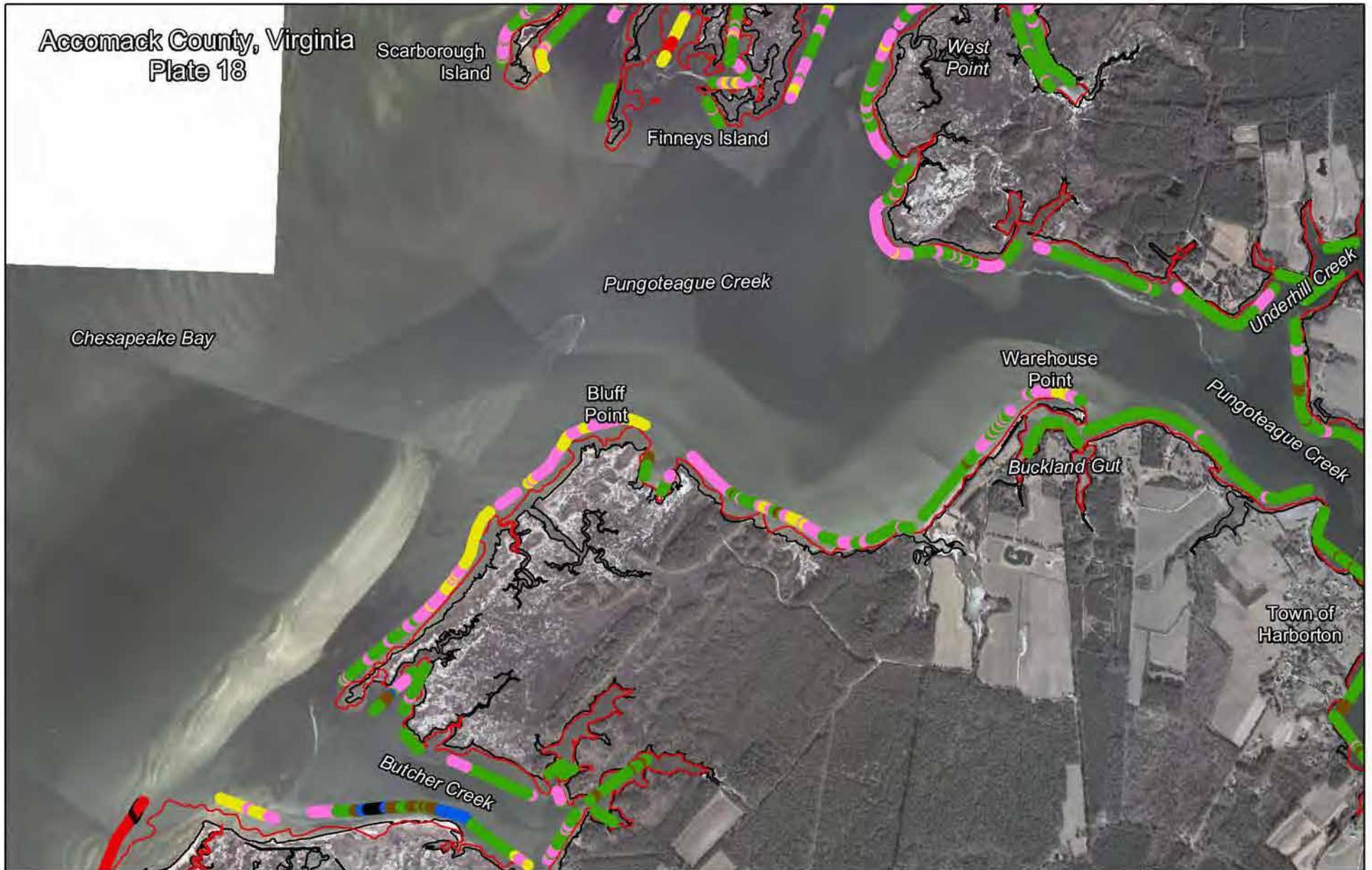
- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo



A-17

Accomack County, Virginia
Plate 18



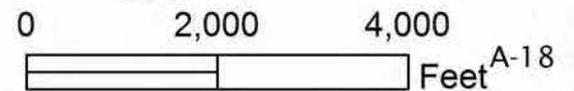
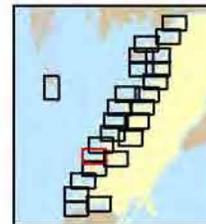
Shoreline Rates of Change

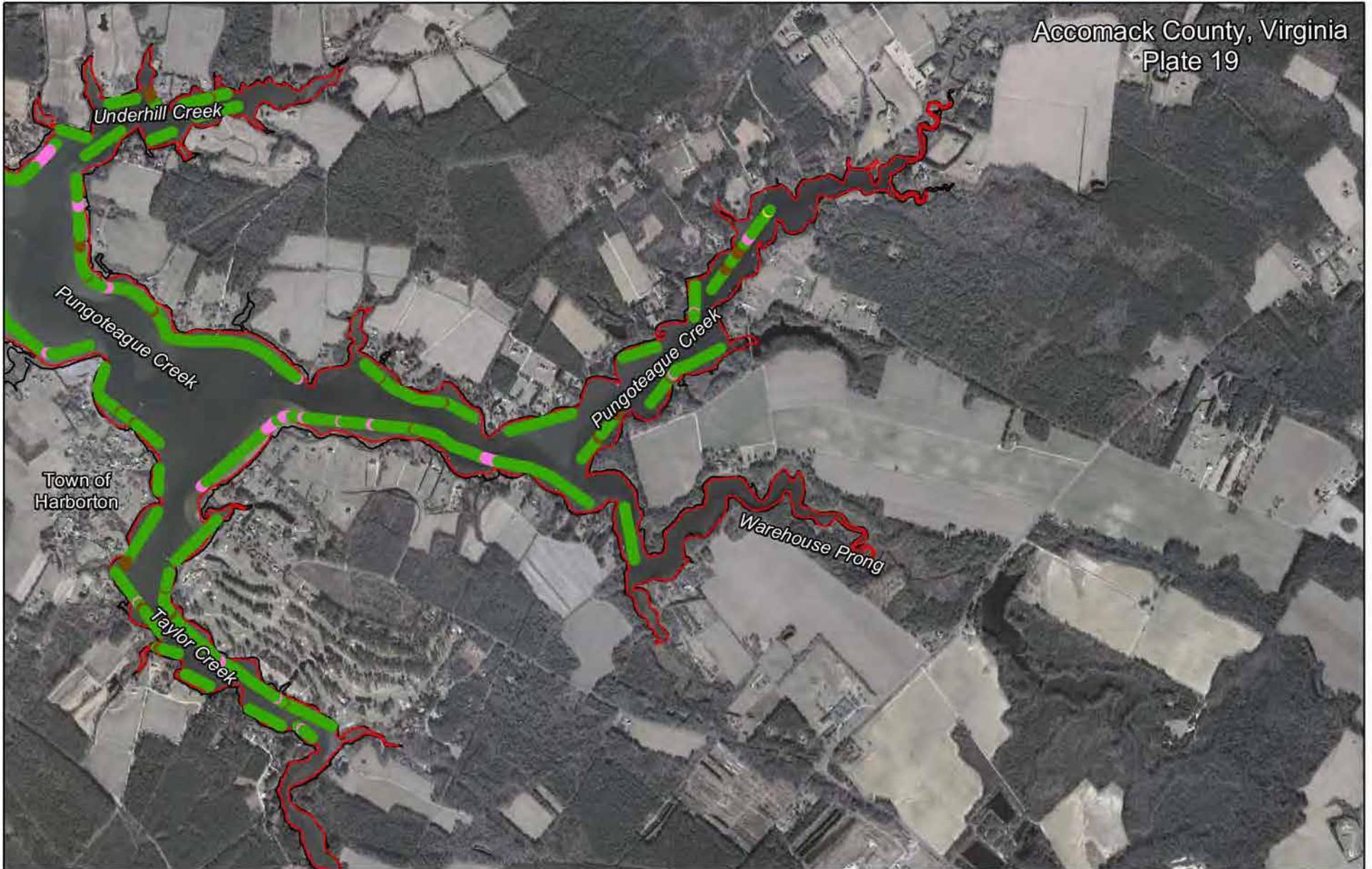
◆ Very High Accretion: > +10 (ft/yr)	● Very Low Erosion: 0 to -1 (ft/yr)
● High Accretion: +10 to +5 (ft/yr)	● Low Erosion: -1 to -2 (ft/yr)
● Medium Accretion: +5 to +2 (ft/yr)	● Medium Erosion: -2 to -5 (ft/yr)
● Low Accretion: +2 to +1 (ft/yr)	● High Erosion: -5 to -10 (ft/yr)
● Very Low Accretion: +1 to 0 (ft/yr)	◆ Very High Erosion: < -10 (ft/yr)

Legend

- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo





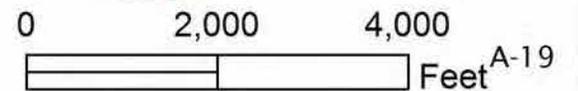
Shoreline Rates of Change

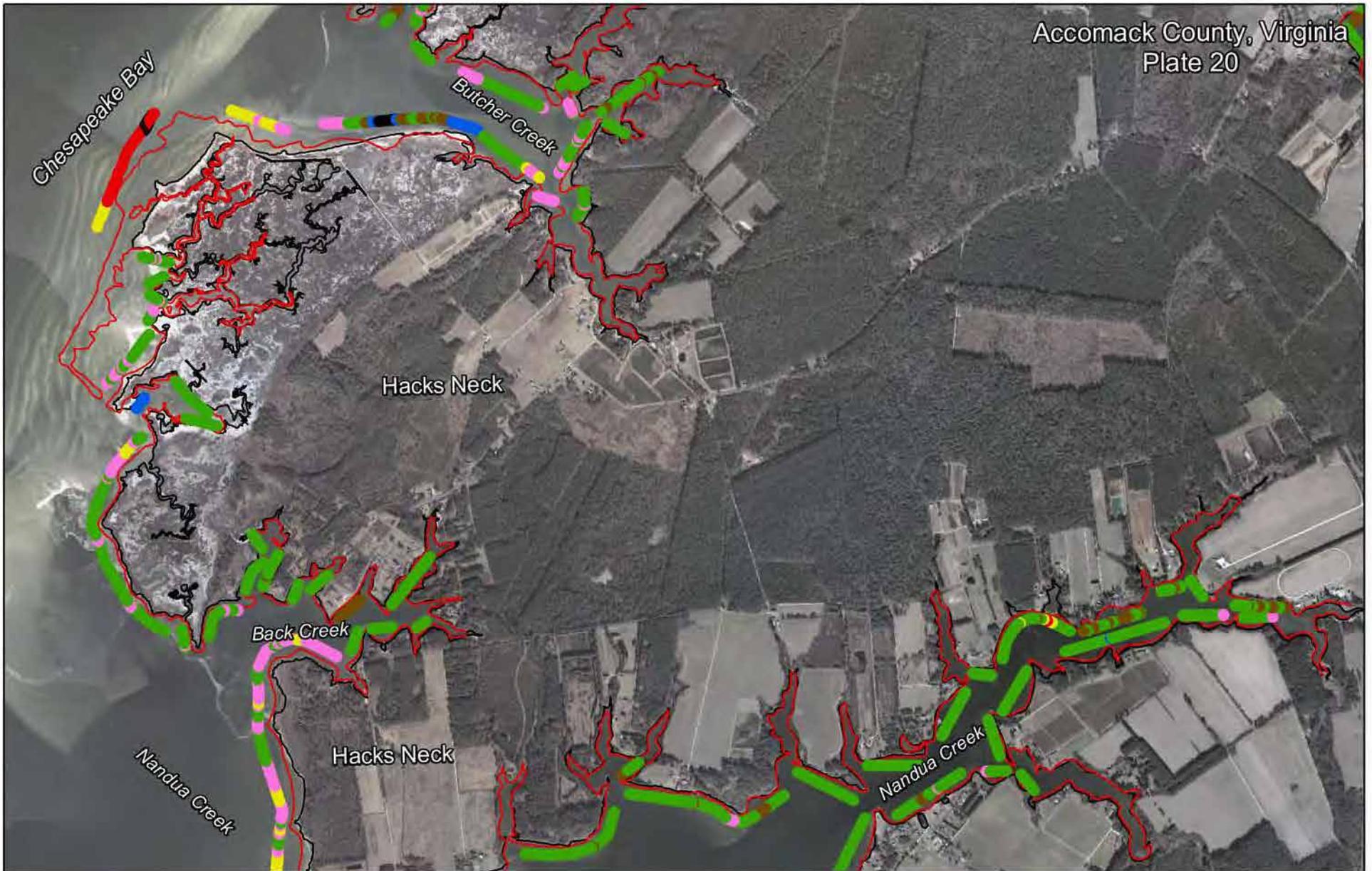
- | | |
|---------------------------------------|-------------------------------------|
| ◆ Very High Accretion: > +10 (ft/yr) | ● Very Low Erosion: 0 to -1 (ft/yr) |
| ● High Accretion: +10 to +5 (ft/yr) | ● Low Erosion: -1 to -2 (ft/yr) |
| ● Medium Accretion: +5 to +2 (ft/yr) | ● Medium Erosion: -2 to -5 (ft/yr) |
| ● Low Accretion: +2 to +1 (ft/yr) | ● High Erosion: -5 to -10 (ft/yr) |
| ● Very Low Accretion: +1 to 0 (ft/yr) | ◆ Very High Erosion: < -10 (ft/yr) |

Legend

- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo





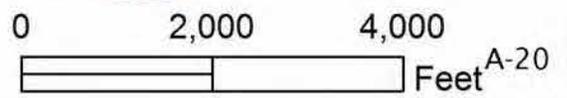
Shoreline Rates of Change

- | | |
|---------------------------------------|-------------------------------------|
| ◆ Very High Accretion: > +10 (ft/yr) | ● Very Low Erosion: 0 to -1 (ft/yr) |
| ● High Accretion: +10 to +5 (ft/yr) | ● Low Erosion: -1 to -2 (ft/yr) |
| ● Medium Accretion: +5 to +2 (ft/yr) | ● Medium Erosion: -2 to -5 (ft/yr) |
| ● Low Accretion: +2 to +1 (ft/yr) | ● High Erosion: -5 to -10 (ft/yr) |
| ● Very Low Accretion: +1 to 0 (ft/yr) | ◆ Very High Erosion: < -10 (ft/yr) |

Legend

- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo



Accomack County, Virginia
Plate 21



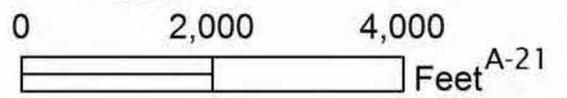
Shoreline Rates of Change

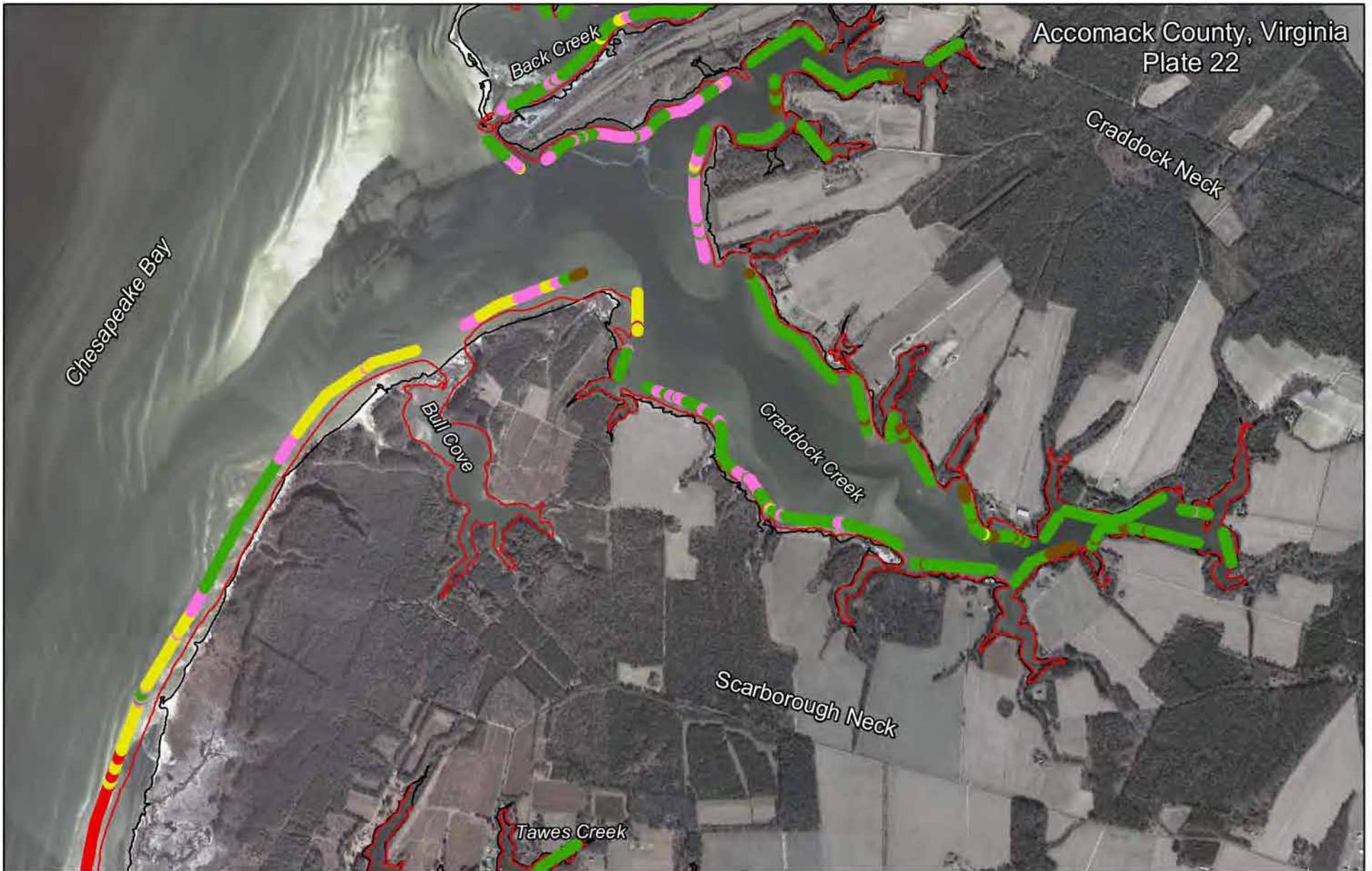
- | | |
|---------------------------------------|-------------------------------------|
| ◆ Very High Accretion: > +10 (ft/yr) | ● Very Low Erosion: 0 to -1 (ft/yr) |
| ● High Accretion: +10 to +5 (ft/yr) | ● Low Erosion: -1 to -2 (ft/yr) |
| ● Medium Accretion: +5 to +2 (ft/yr) | ● Medium Erosion: -2 to -5 (ft/yr) |
| ● Low Accretion: +2 to +1 (ft/yr) | ● High Erosion: -5 to -10 (ft/yr) |
| ● Very Low Accretion: +1 to 0 (ft/yr) | ◆ Very High Erosion: < -10 (ft/yr) |

Legend

- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo





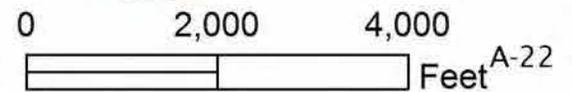
Shoreline Rates of Change

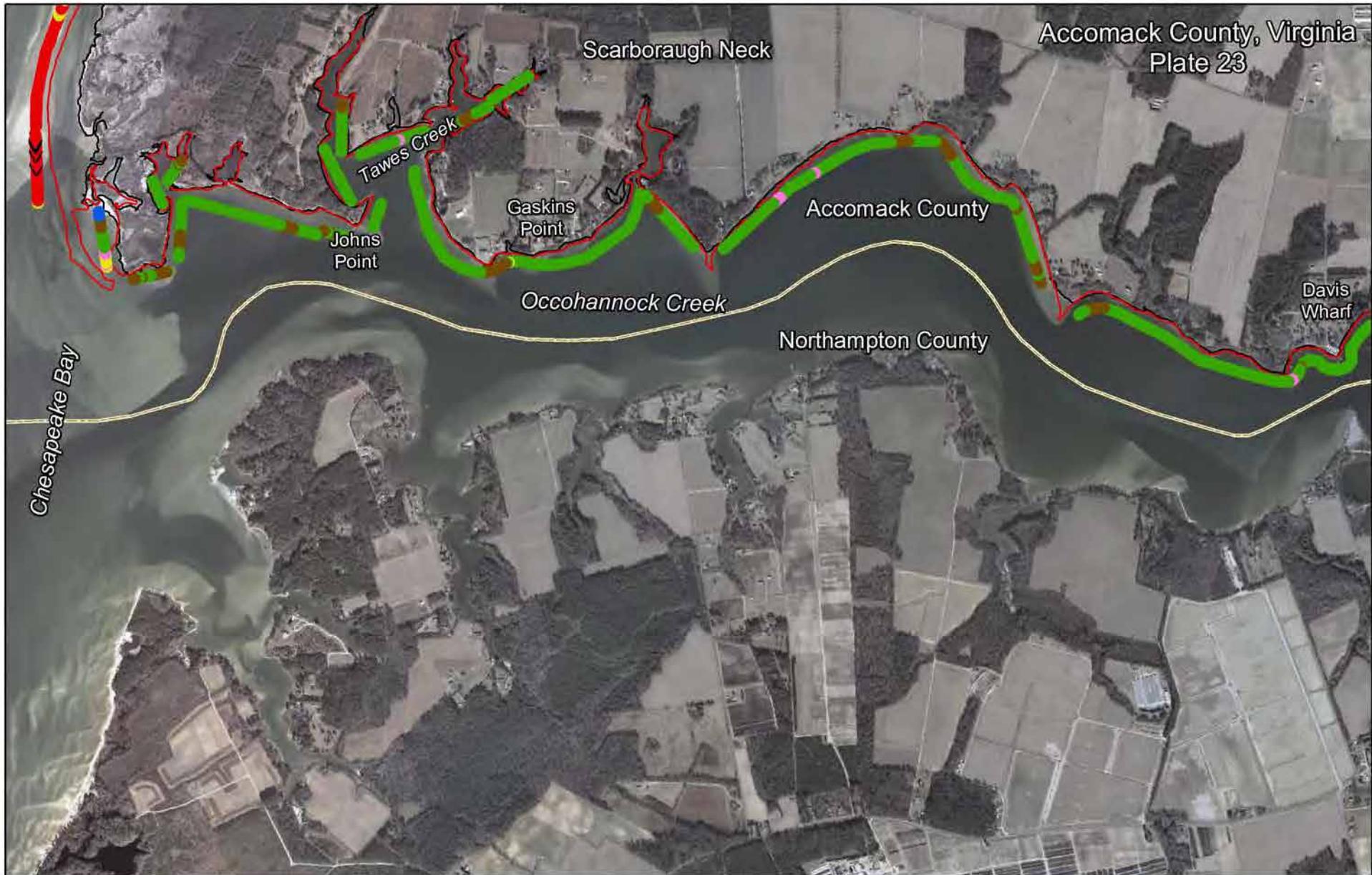
- | | |
|---------------------------------------|-------------------------------------|
| ◆ Very High Accretion: > +10 (ft/yr) | ● Very Low Erosion: 0 to -1 (ft/yr) |
| ● High Accretion: +10 to +5 (ft/yr) | ● Low Erosion: -1 to -2 (ft/yr) |
| ● Medium Accretion: +5 to +2 (ft/yr) | ● Medium Erosion: -2 to -5 (ft/yr) |
| ● Low Accretion: +2 to +1 (ft/yr) | ● High Erosion: -5 to -10 (ft/yr) |
| ● Very Low Accretion: +1 to 0 (ft/yr) | ◆ Very High Erosion: < -10 (ft/yr) |

Legend

- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo





Accomack County, Virginia
Plate 23

Scarborough Neck

Tawes Creek

Johns Point

Gaskins Point

Accomack County

Occohannock Creek

Northampton County

Davis Wharf

Chesapeake Bay

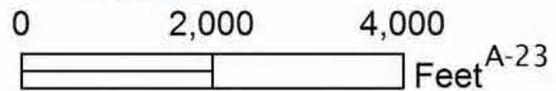
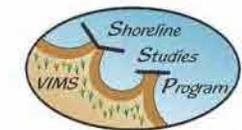
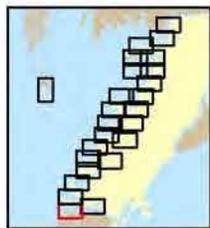
Shoreline Rates of Change

- ◆ Very High Accretion: > +10 (ft/yr)
- High Accretion: +10 to +5 (ft/yr)
- Medium Accretion: +5 to +2 (ft/yr)
- Low Accretion: +2 to +1 (ft/yr)
- Very Low Accretion: +1 to 0 (ft/yr)
- Very Low Erosion: 0 to -1 (ft/yr)
- Low Erosion: -1 to -2 (ft/yr)
- Medium Erosion: -2 to -5 (ft/yr)
- High Erosion: -5 to -10 (ft/yr)
- ◆ Very High Erosion: < -10 (ft/yr)

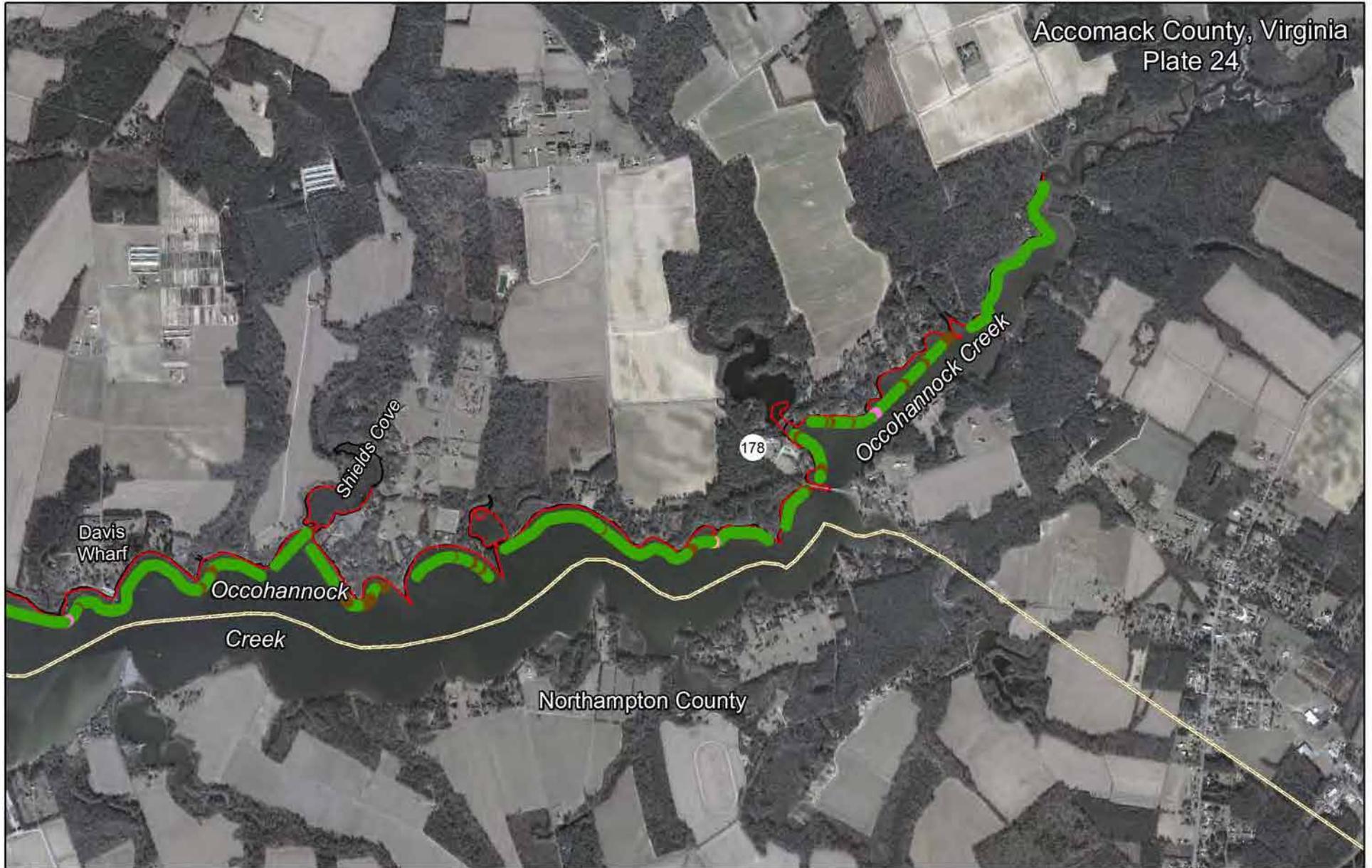
Legend

- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo



A-23



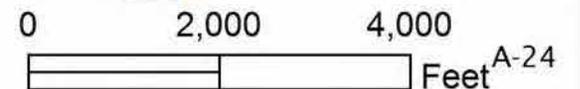
Shoreline Rates of Change

- | | |
|---------------------------------------|-------------------------------------|
| ◆ Very High Accretion: > +10 (ft/yr) | ● Very Low Erosion: 0 to -1 (ft/yr) |
| ● High Accretion: +10 to +5 (ft/yr) | ● Low Erosion: -1 to -2 (ft/yr) |
| ● Medium Accretion: +5 to +2 (ft/yr) | ● Medium Erosion: -2 to -5 (ft/yr) |
| ● Low Accretion: +2 to +1 (ft/yr) | ● High Erosion: -5 to -10 (ft/yr) |
| ● Very Low Accretion: +1 to 0 (ft/yr) | ◆ Very High Erosion: < -10 (ft/yr) |

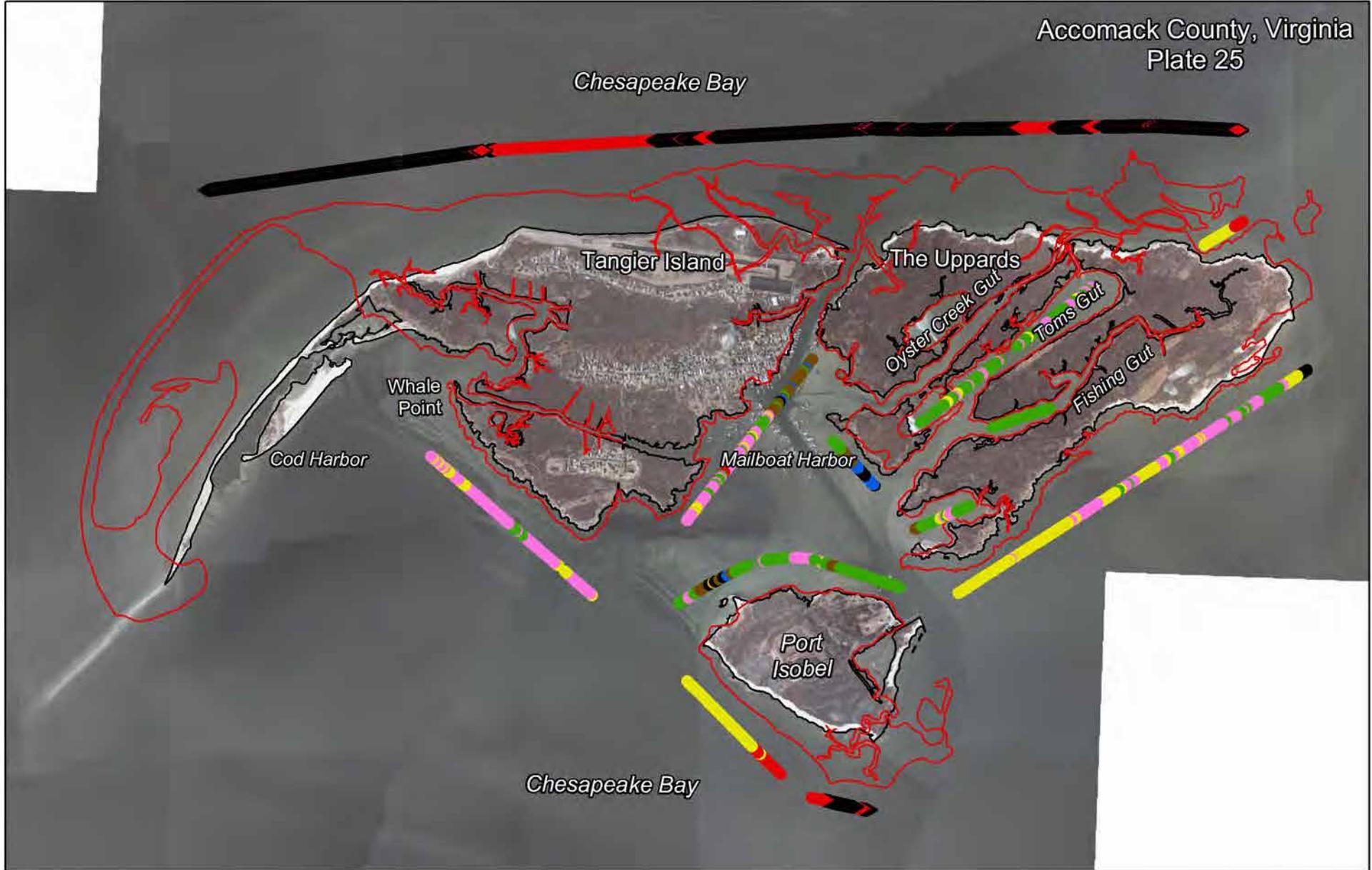
Legend

- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo



Chesapeake Bay



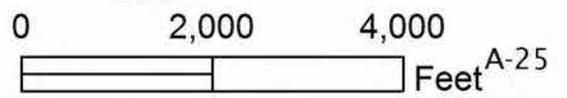
Shoreline Rates of Change

- | | |
|---------------------------------------|-------------------------------------|
| ◆ Very High Accretion: > +10 (ft/yr) | ● Very Low Erosion: 0 to -1 (ft/yr) |
| ● High Accretion: +10 to +5 (ft/yr) | ● Low Erosion: -1 to -2 (ft/yr) |
| ● Medium Accretion: +5 to +2 (ft/yr) | ● Medium Erosion: -2 to -5 (ft/yr) |
| ● Low Accretion: +2 to +1 (ft/yr) | ● High Erosion: -5 to -10 (ft/yr) |
| ● Very Low Accretion: +1 to 0 (ft/yr) | ◆ Very High Erosion: < -10 (ft/yr) |

Legend

- Shoreline 1938
- Shoreline 2009

2009 VBMP Photo



Appendix B

Historical Photo and Digitized Shoreline Maps

Note: The location labels on the plates come from U.S. Geological Survey topographic maps, Google Earth, and other map sources and may not be accurate for the historical or even more recent images. They are for reference only.

Plate 1

Plate 9

Plate 17

Plate 2

Plate 10

Plate 18

Plate 3

Plate 11

Plate 19

Plate 4

Plate 12

Plate 20

Plate 5

Plate 13

Plate 21

Plate 6

Plate 14

Plate 22

Plate 7

Plate 15

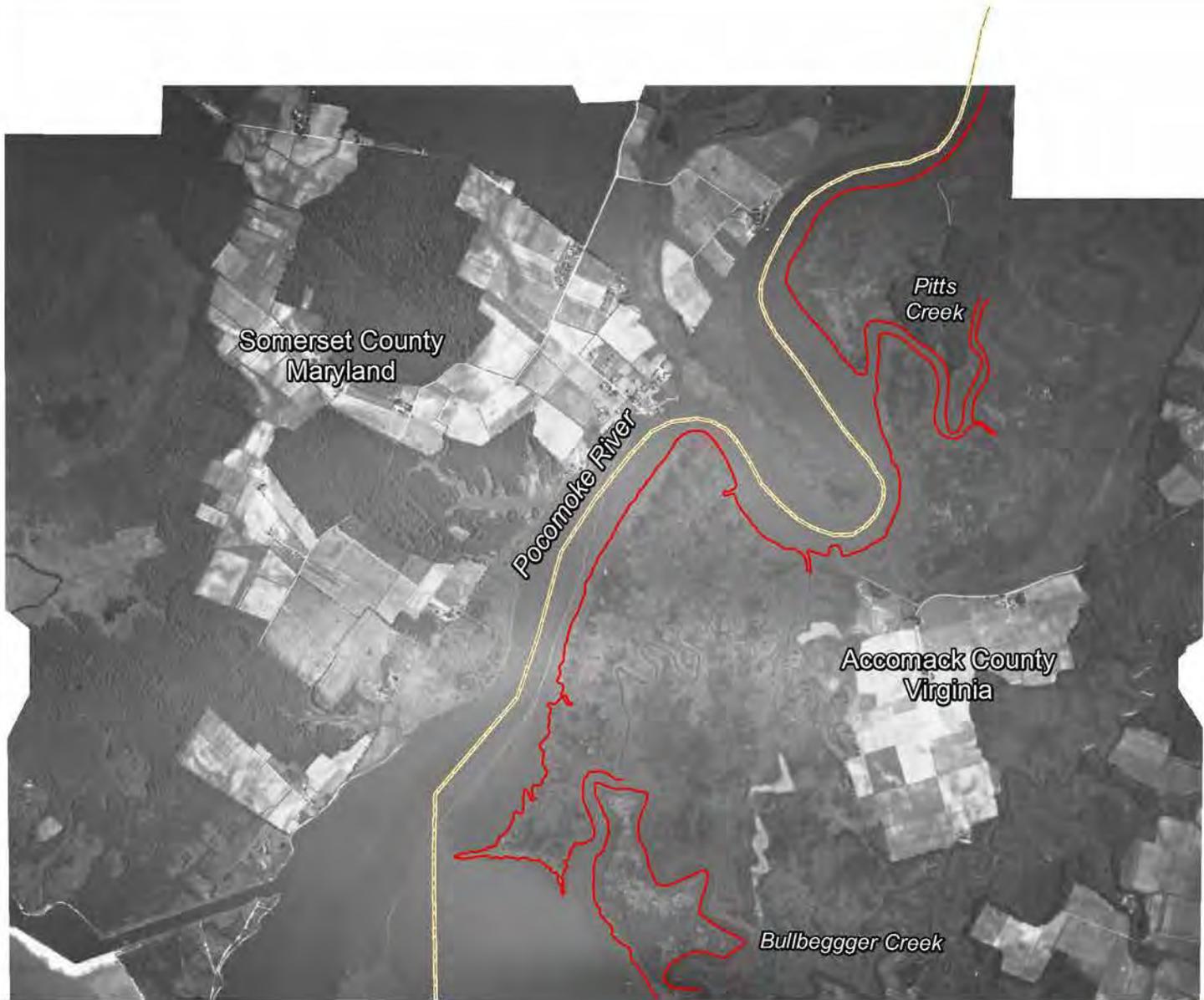
Plate 23

Plate 8

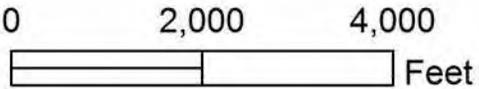
Plate 16

Plate 24

Plate 25

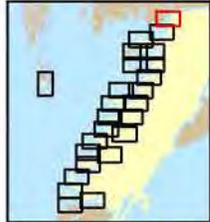


Legend
 — Shoreline 1938



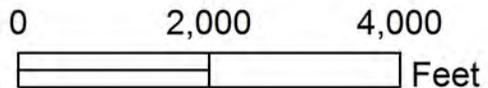
**Accomack County, Virginia
 Plate 1**

Photo Date: 1938



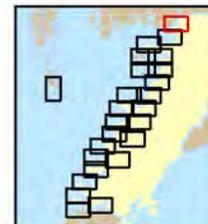


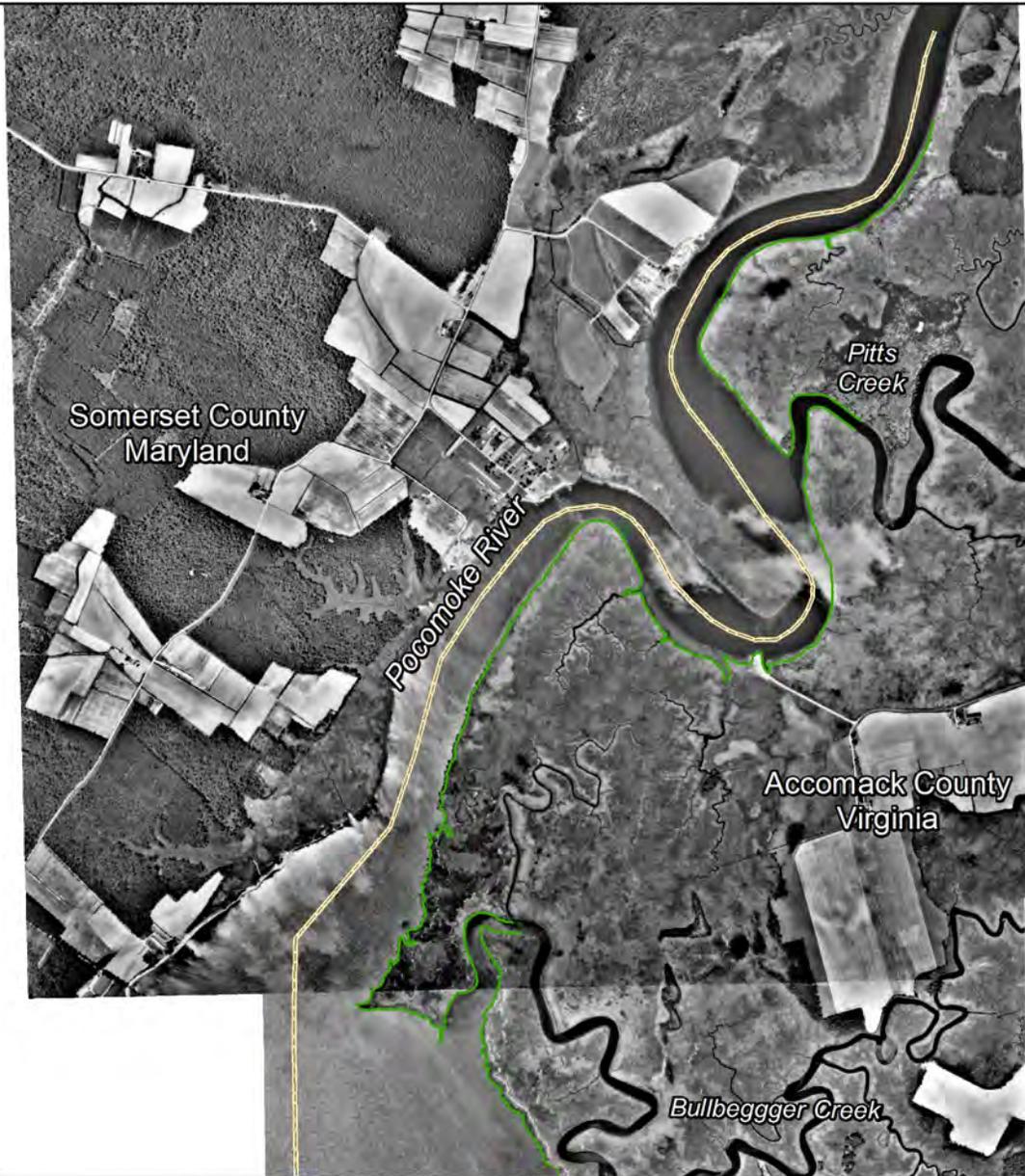
Legend
 — Shoreline 1949



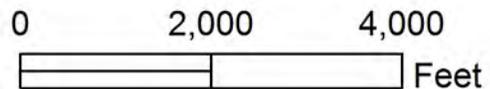
**Accomack County, Virginia
 Plate 1**

Photo Date: 1949



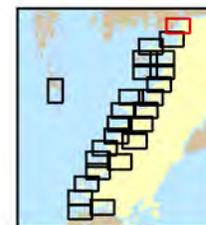


Legend
 — Shoreline 1963



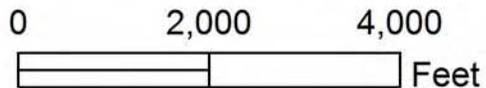
Accomack County, Virginia Plate 1

Photo Date: 1963



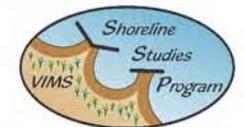
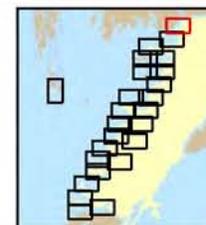


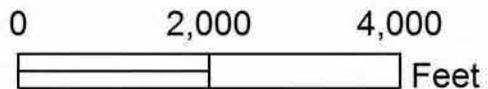
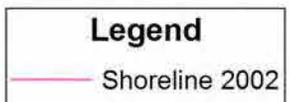
Legend
 — Shoreline 1994



**Accomack County, Virginia
 Plate 1**

Photo Date: 1994





**Accomack County, Virginia
Plate 1**

Photo Date: 2002





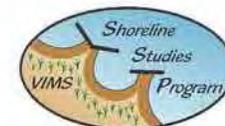
Legend
 — Shoreline 2009

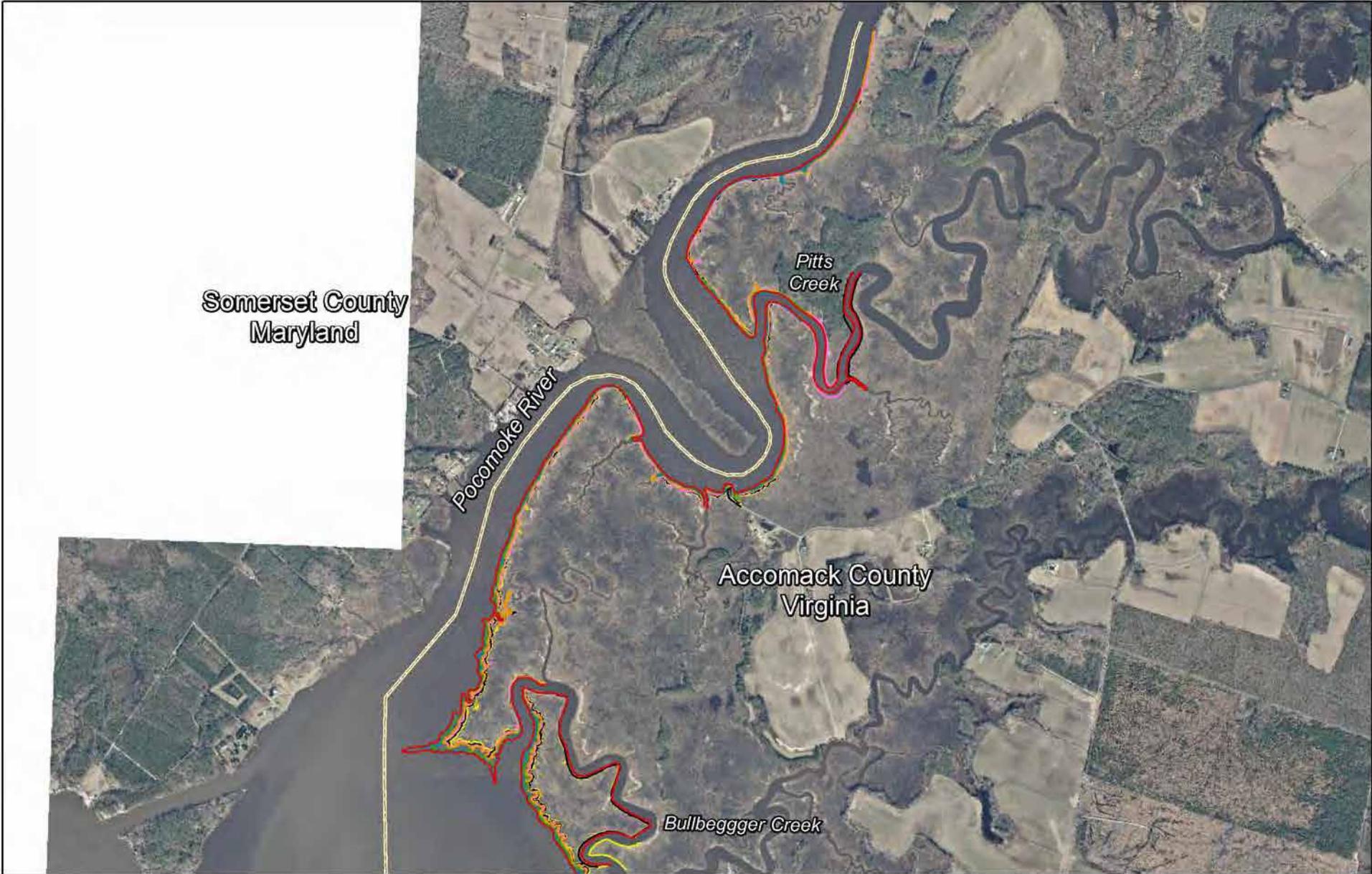


0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 1**

Photo Date: 2009





Somerset County
Maryland

Pocomoke River

Pitts
Creek

Accomack County
Virginia

Bullbegger Creek

Legend

- Shoreline 1938 — Shoreline 2002
- Shoreline 1949 — Shoreline 2009
- Shoreline 1963 — Shoreline 2013
- Shoreline 1994

**Accomack County, Virginia
Plate 1**

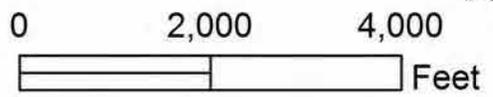
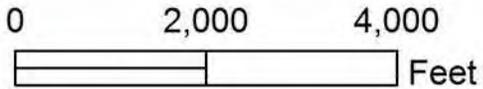


Photo Date: 2013 B-7



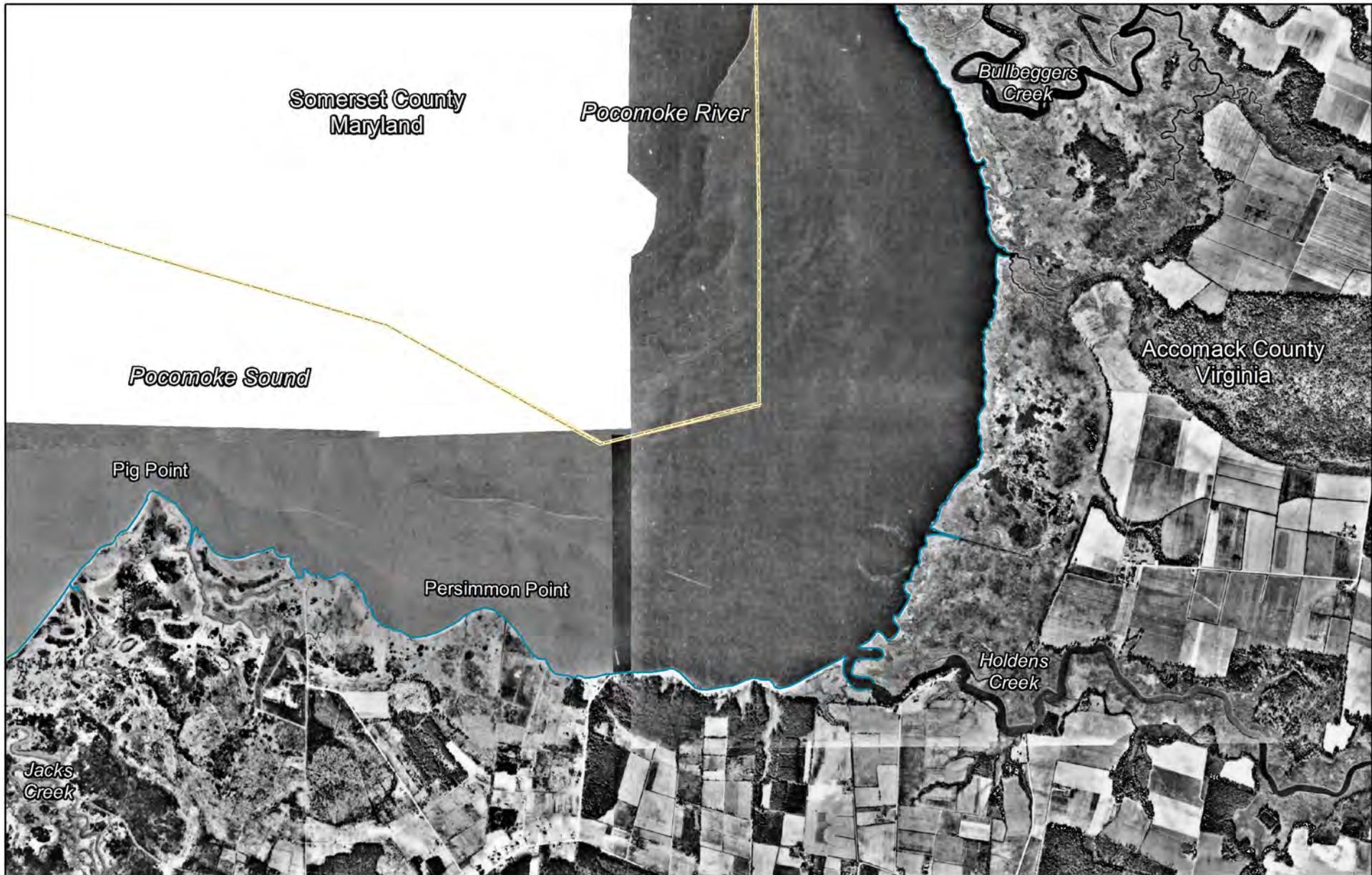
Legend
 — Shoreline 1938



**Accomack County, Virginia
 Plate 2**

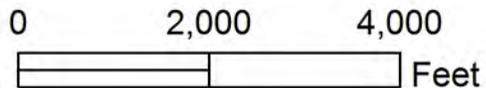
Photo Date: 1938





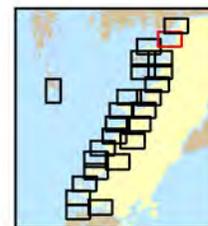
Legend

— Shoreline 1949



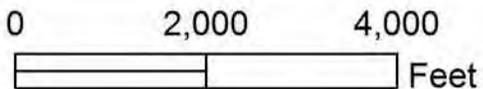
**Accomack County, Virginia
Plate 2**

Photo Date: 1949



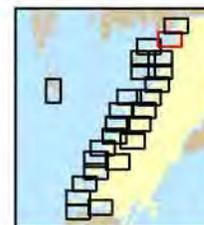


Legend
 — Shoreline 1963



**Accomack County, Virginia
 Plate 2**

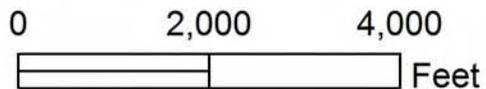
Photo Date: 1963





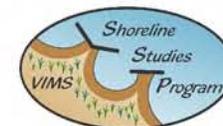
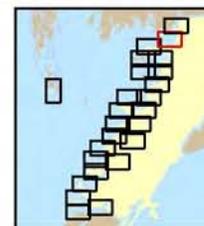
Legend

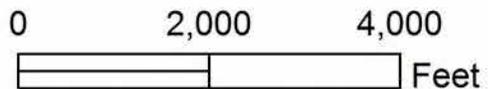
— Shoreline 1994



Accomack County, Virginia Plate 2

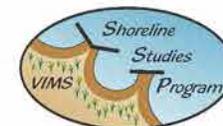
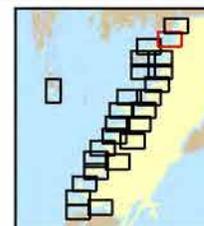
Photo Date: 1994





**Accomack County, Virginia
Plate 2**

Photo Date: 2002





Legend
 — Shoreline 2009

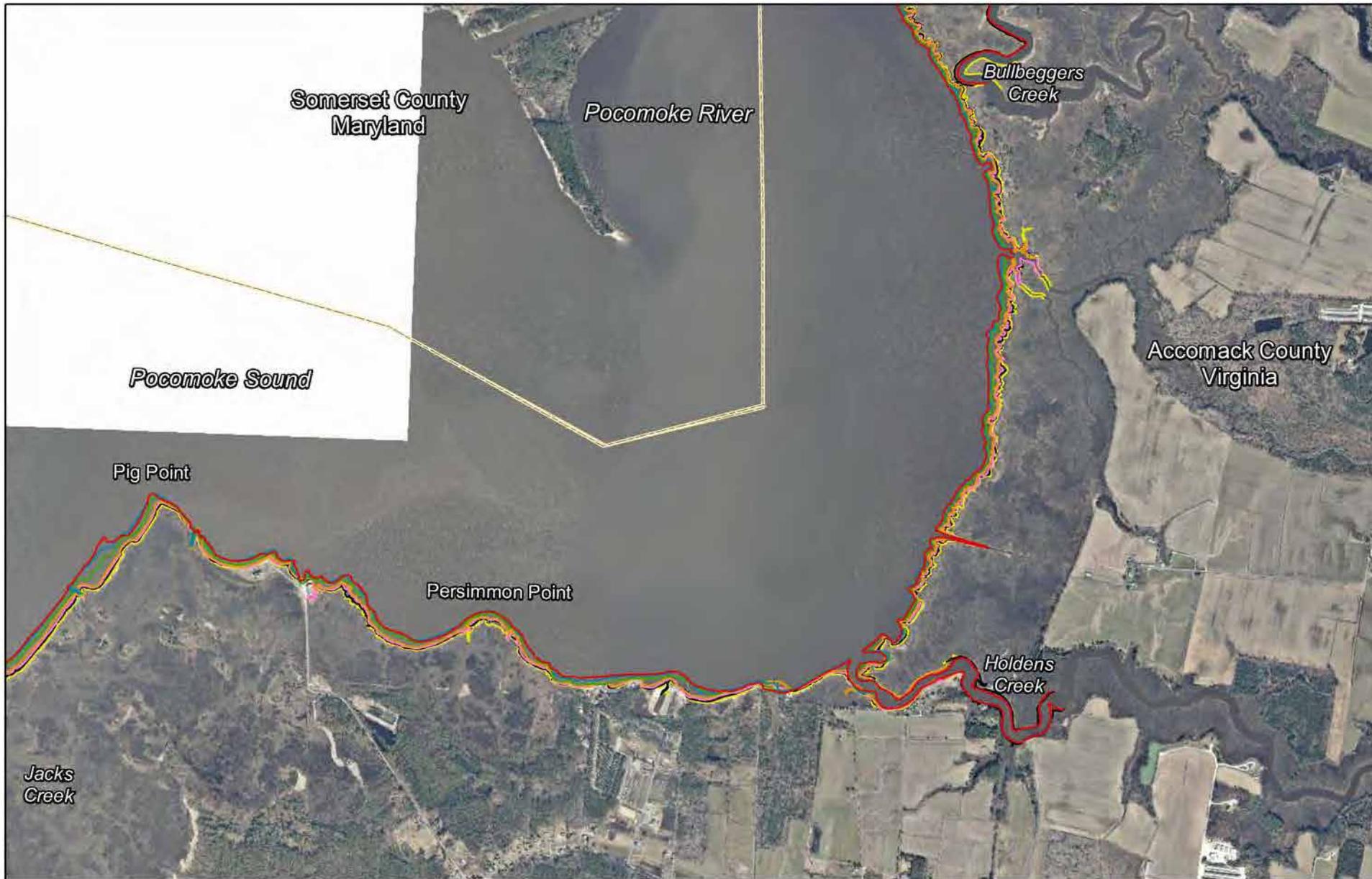


0 2,000 4,000
 Feet

Accomack County, Virginia Plate 2

Photo Date: 2009





Legend

- Shoreline 1938 — Shoreline 2002
- Shoreline 1949 — Shoreline 2009
- Shoreline 1963 — Shoreline 2013
- Shoreline 1994

**Accomack County, Virginia
Plate 2**

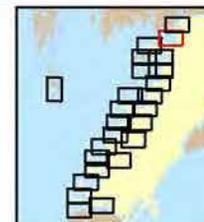
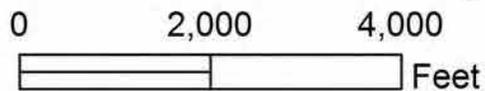
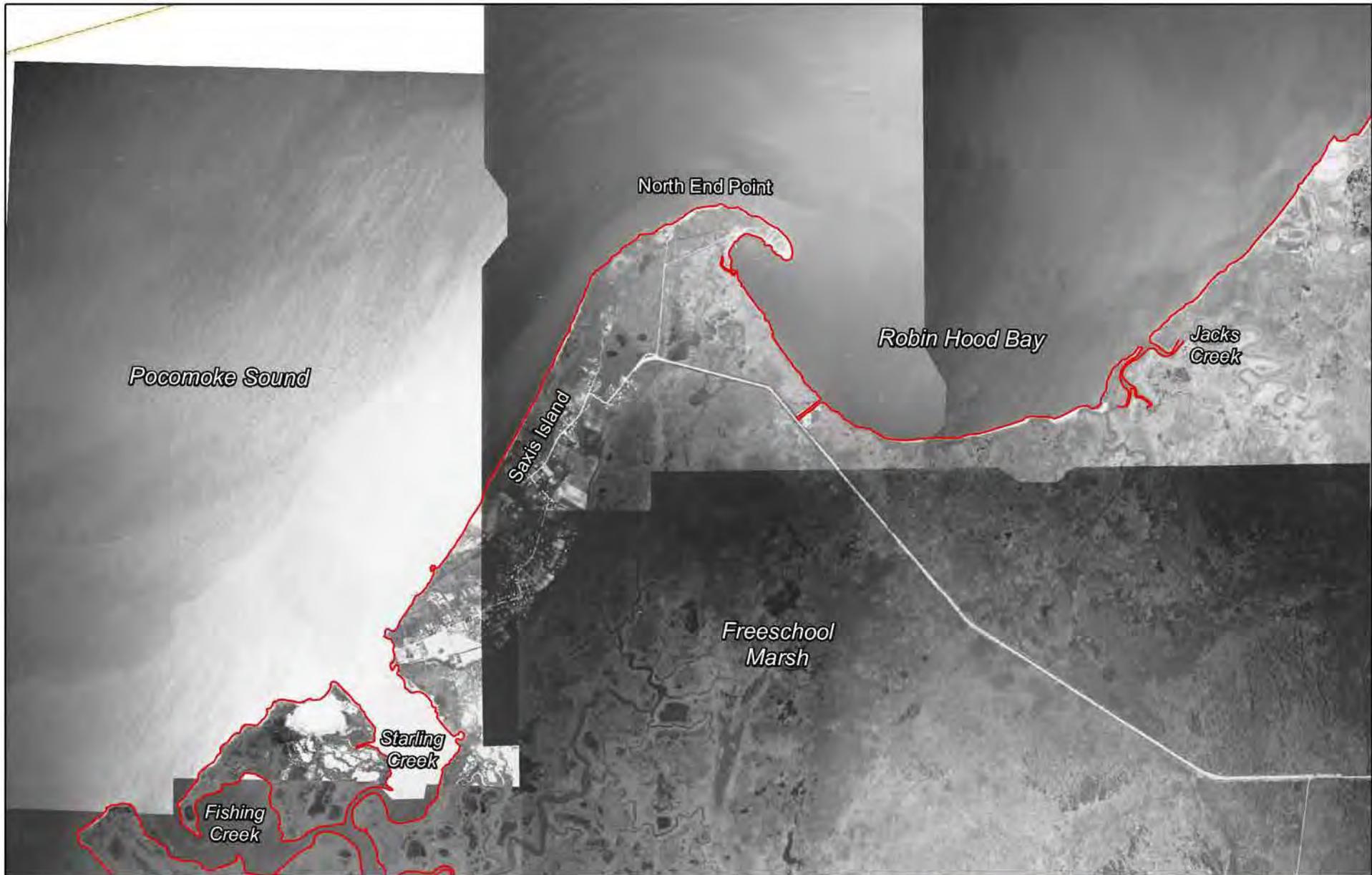
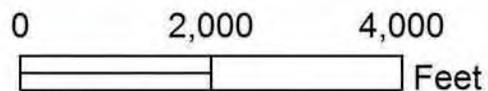


Photo Date: 2013

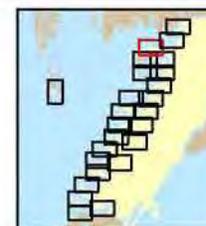


Legend
 — Shoreline 1938



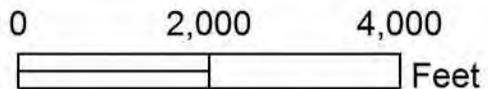
**Accomack County, Virginia
 Plate 3**

Photo Date: 1938





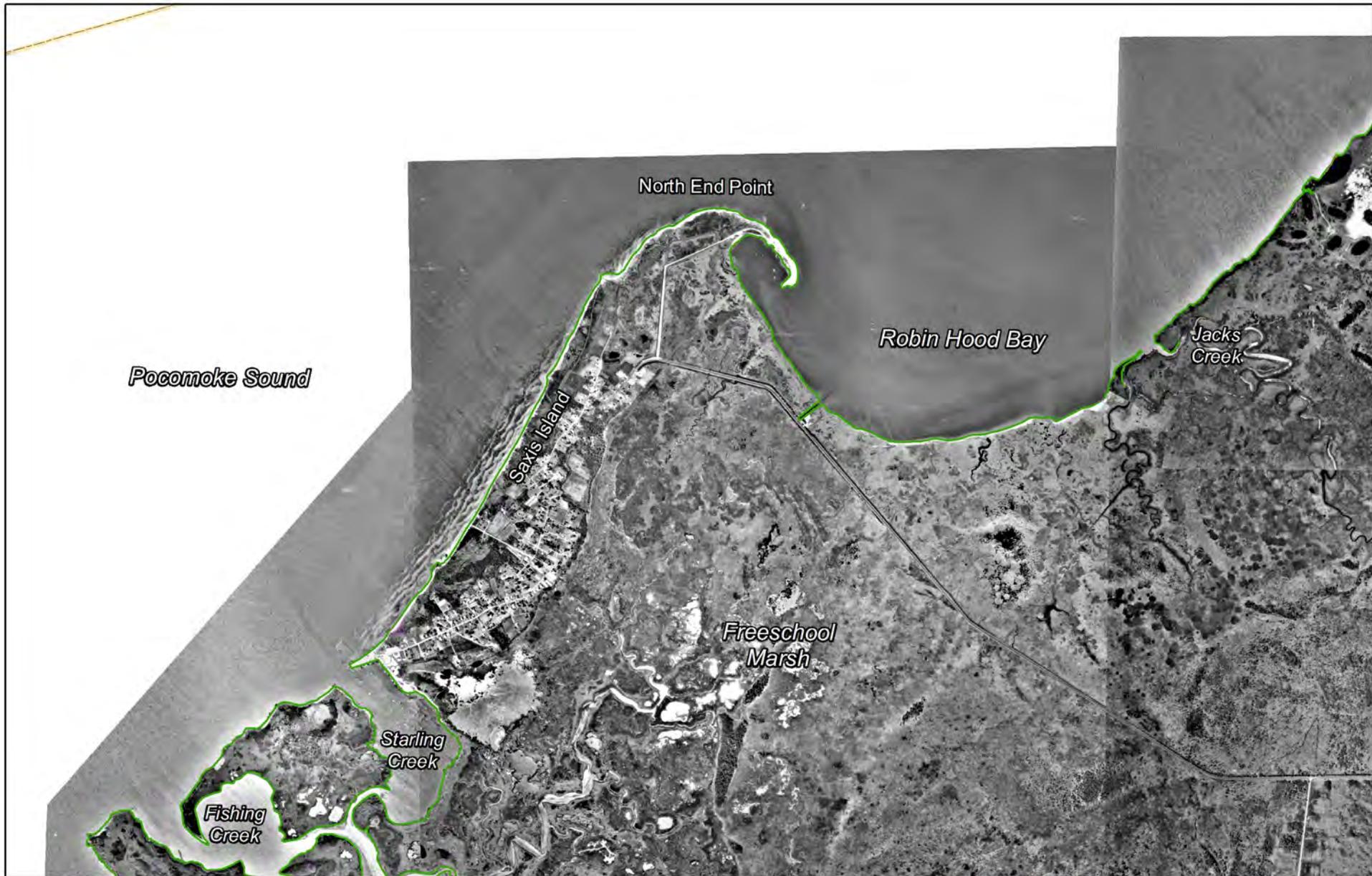
Legend
 — Shoreline 1949



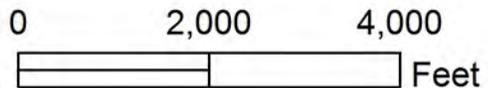
**Accomack County, Virginia
 Plate 3**

Photo Date: 1949



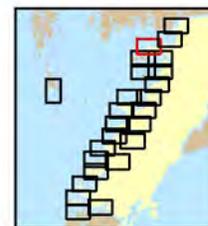


Legend
 — Shoreline 1963



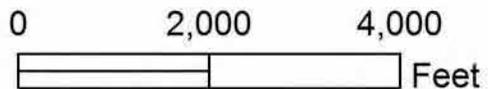
**Accomack County, Virginia
 Plate 3**

Photo Date: 1963



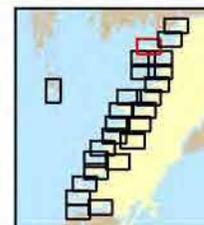


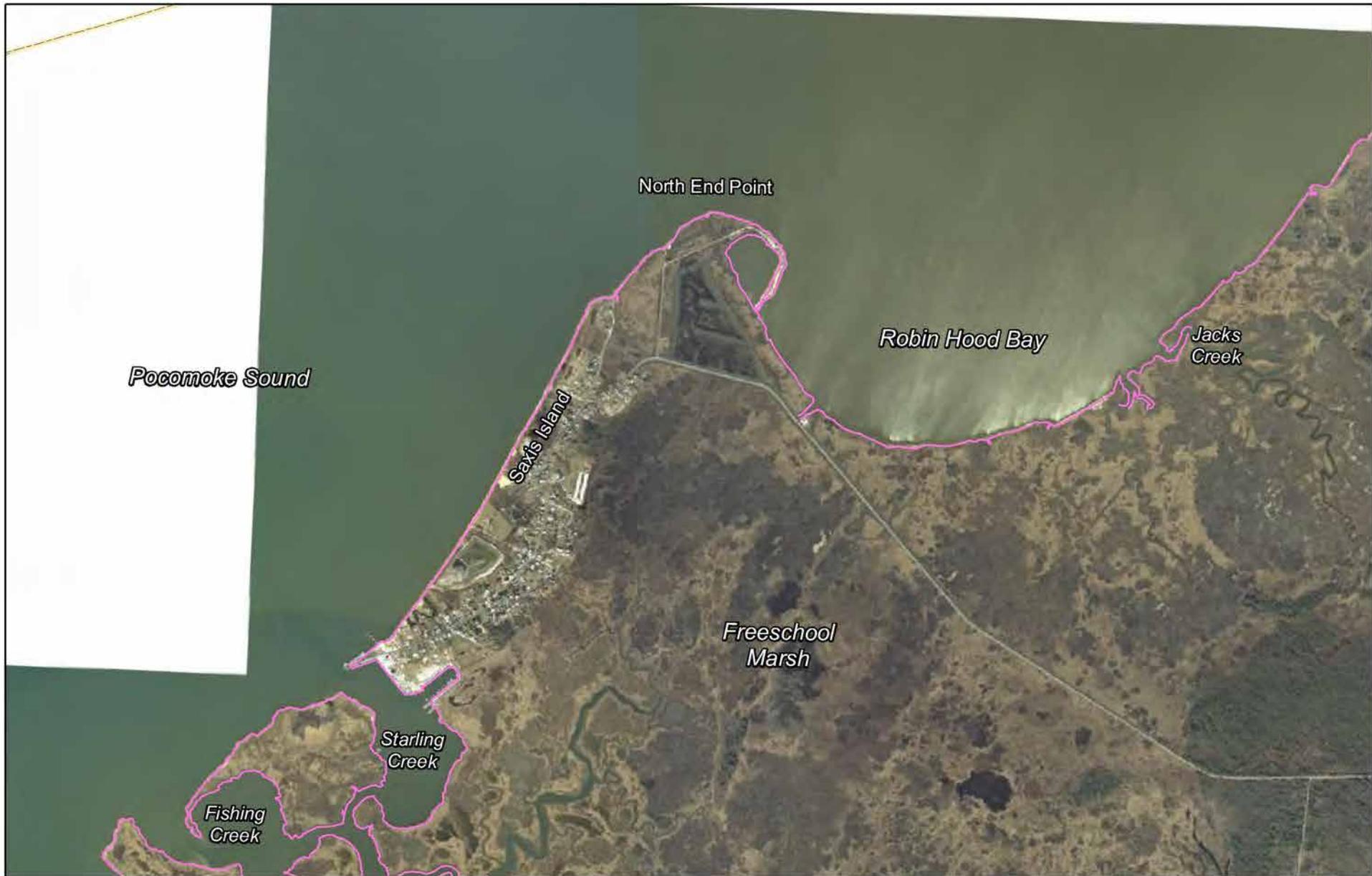
Legend
 — Shoreline 1994



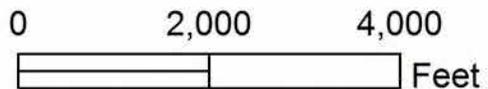
**Accomack County, Virginia
 Plate 3**

Photo Date: 1994



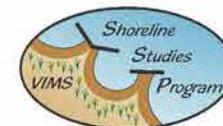


Legend
 — Shoreline 2002



**Accomack County, Virginia
 Plate 3**

Photo Date: 2002





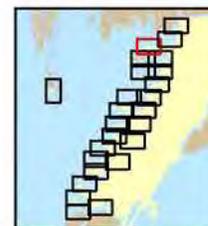
Legend
 — Shoreline 2009



0 2,000 4,000
 Feet

Accomack County, Virginia Plate 3

Photo Date: 2009





Legend

- Shoreline 1938 — Shoreline 2002
- Shoreline 1949 — Shoreline 2009
- Shoreline 1963 — Shoreline 2013
- Shoreline 1994

**Accomack County, Virginia
Plate 3**

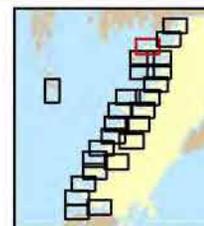
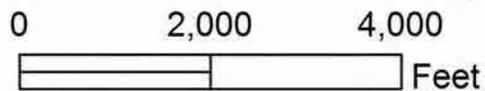
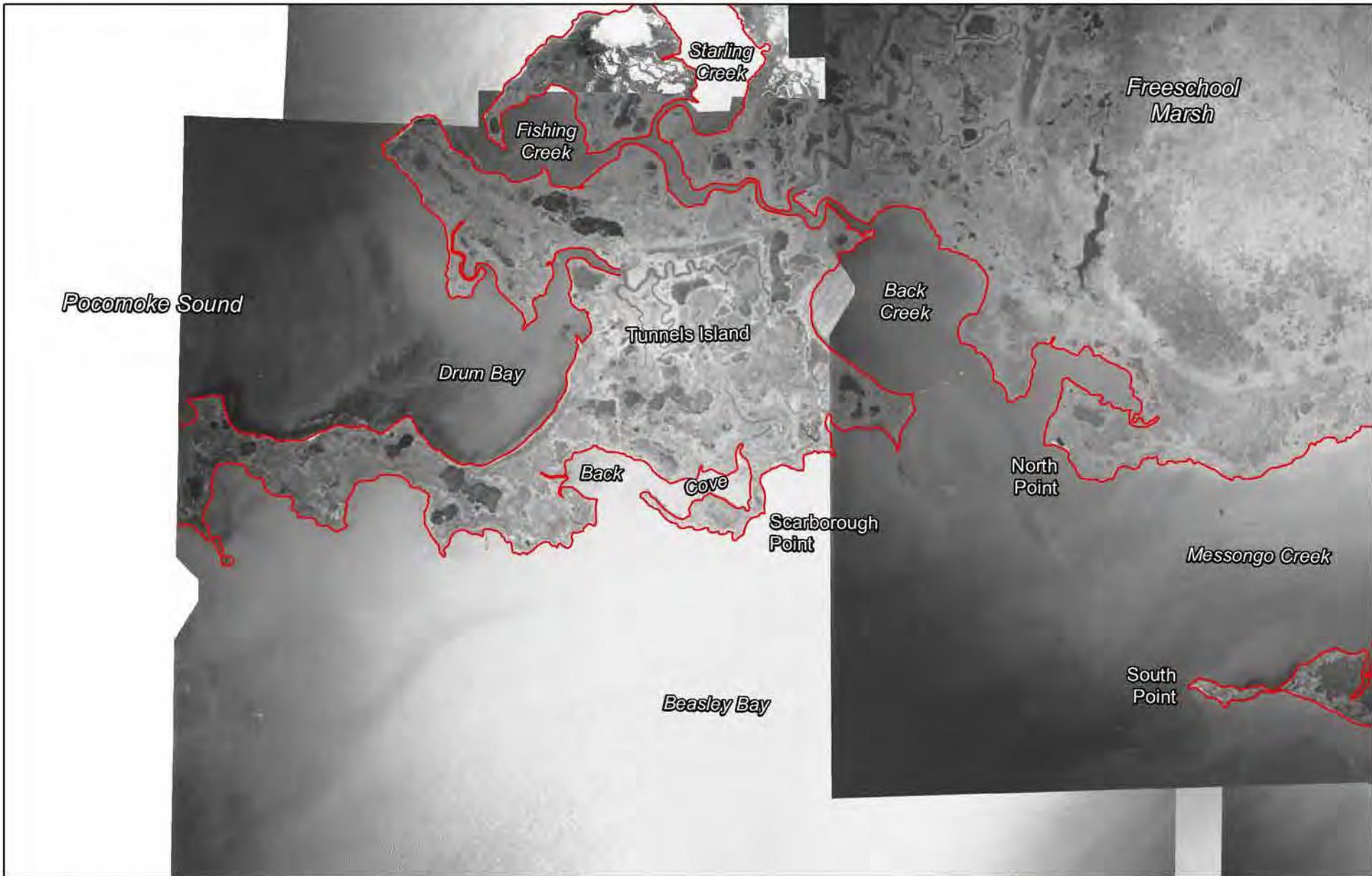


Photo Date: 2013



Legend
 — Shoreline 1938

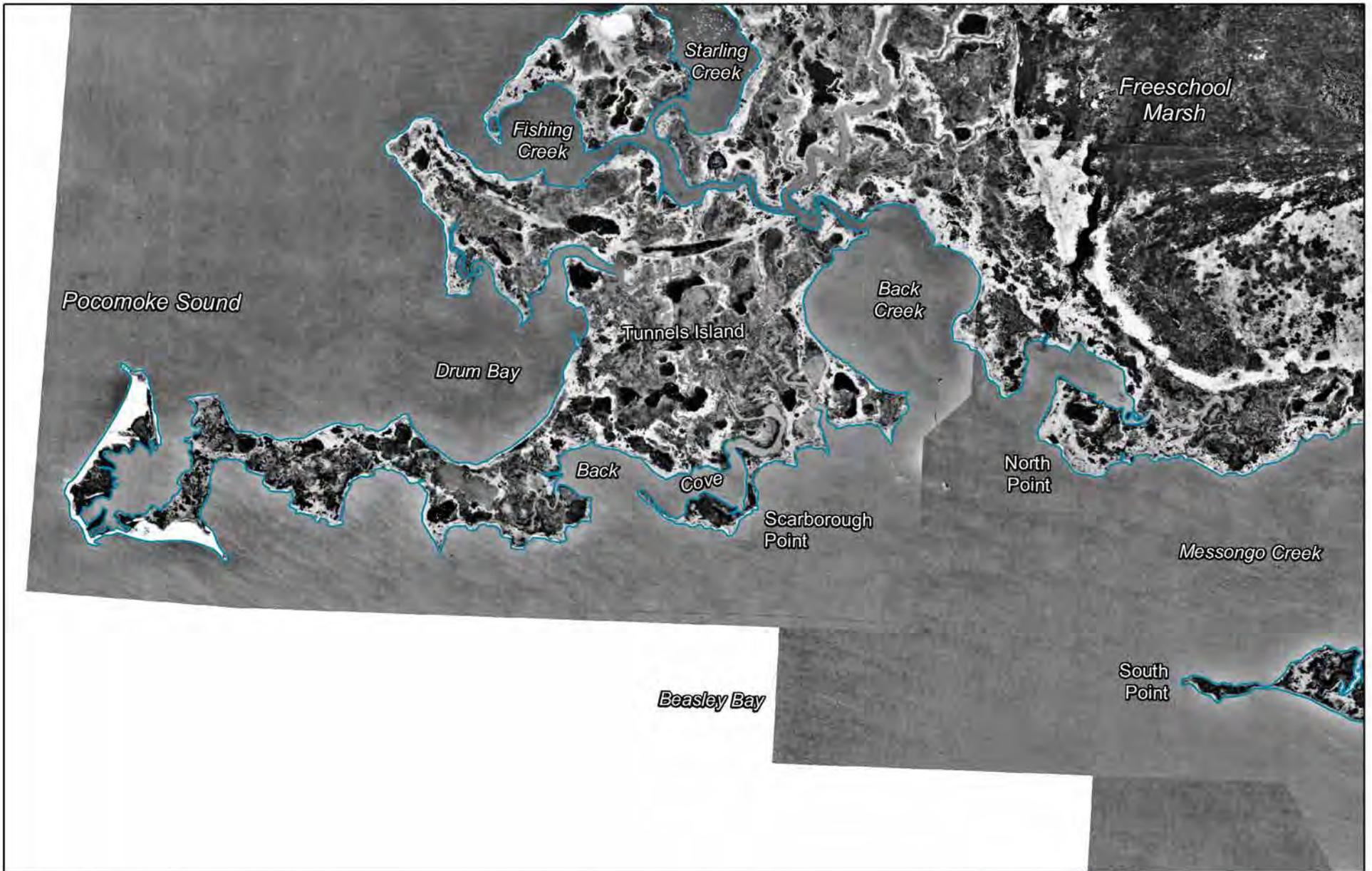


0 2,000 4,000
 Feet

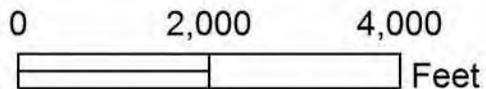
Accomack County, Virginia Plate 4

Photo Date: 1938



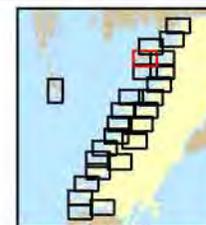


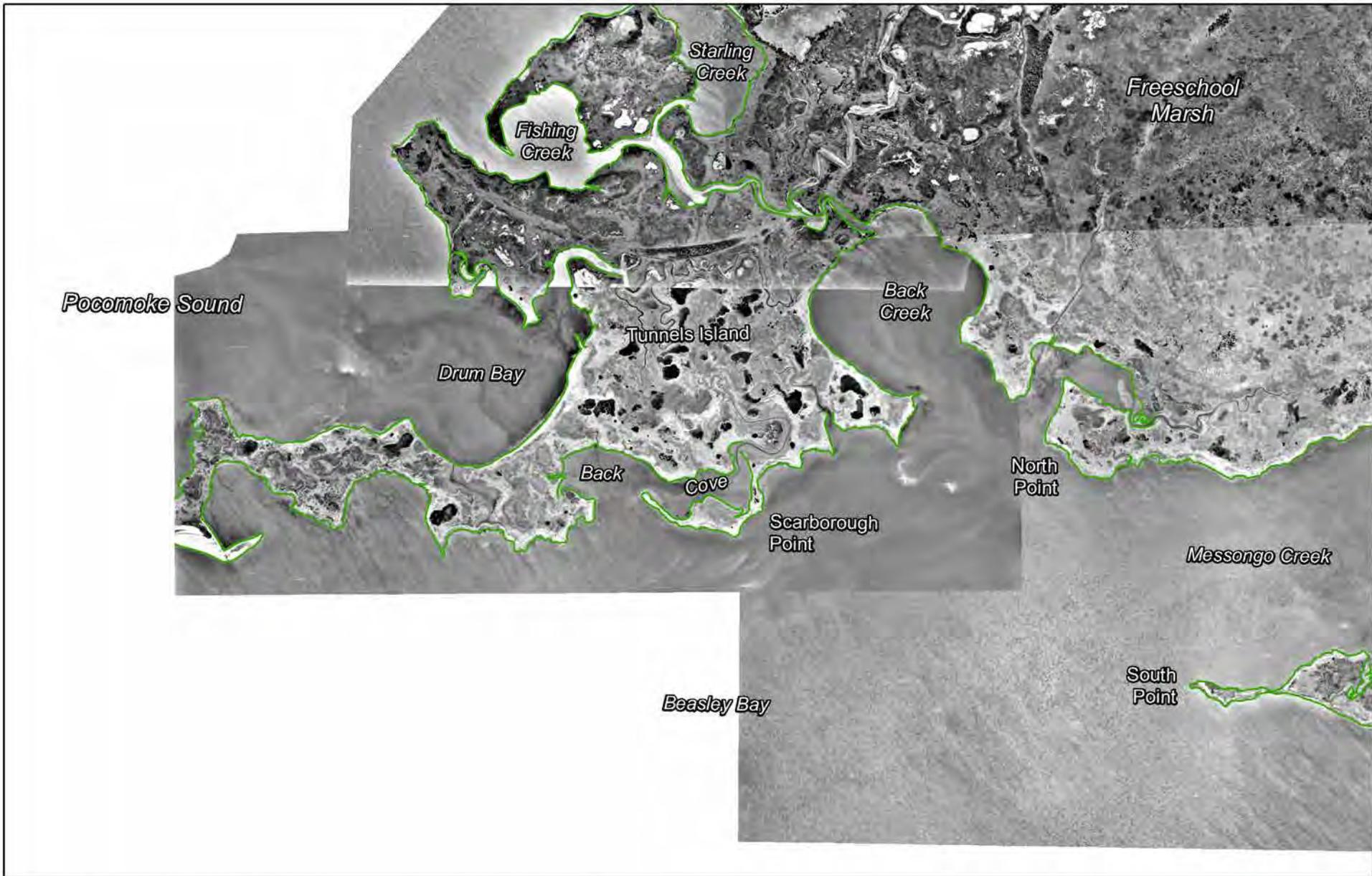
Legend
 — Shoreline 1949



Accomack County, Virginia Plate 4

Photo Date: 1949





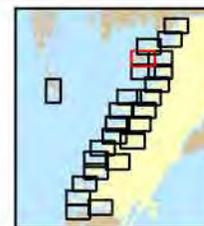
Legend
 — Shoreline 1963



0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 4**

Photo Date: 1963





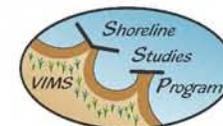
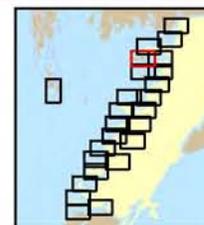
Legend
 — Shoreline 1994

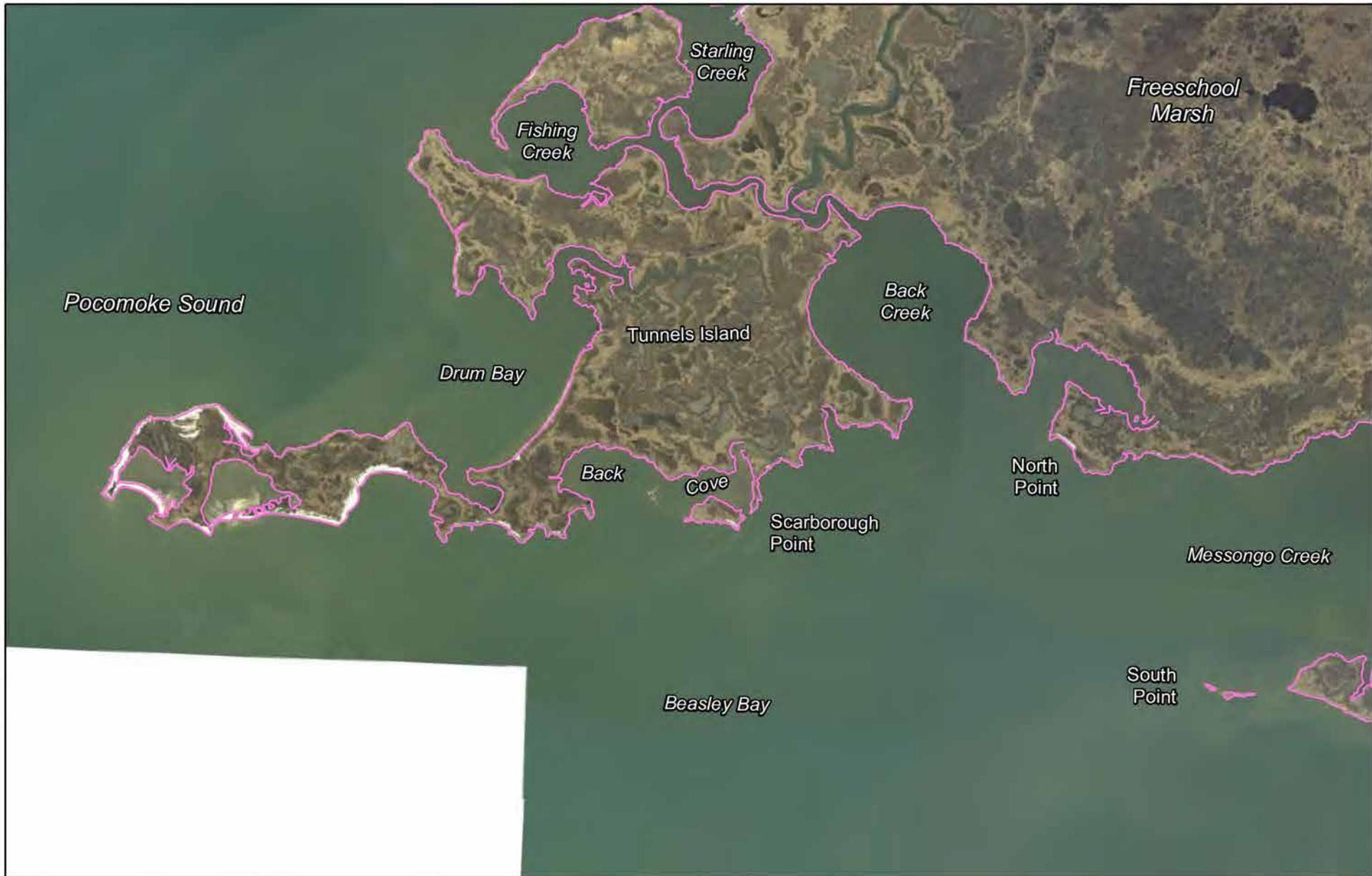


0 2,000 4,000
 Feet

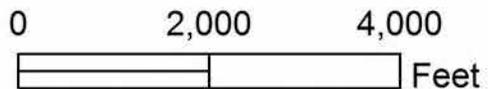
Accomack County, Virginia Plate 4

Photo Date: 1994



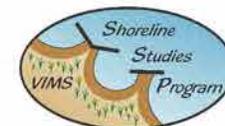
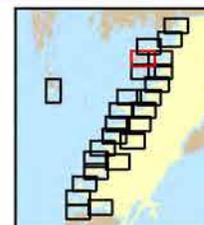


Legend
 — Shoreline 2002



Accomack County, Virginia Plate 4

Photo Date: 2002





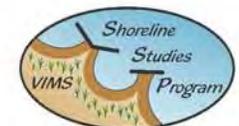
Legend
 — Shoreline 2009

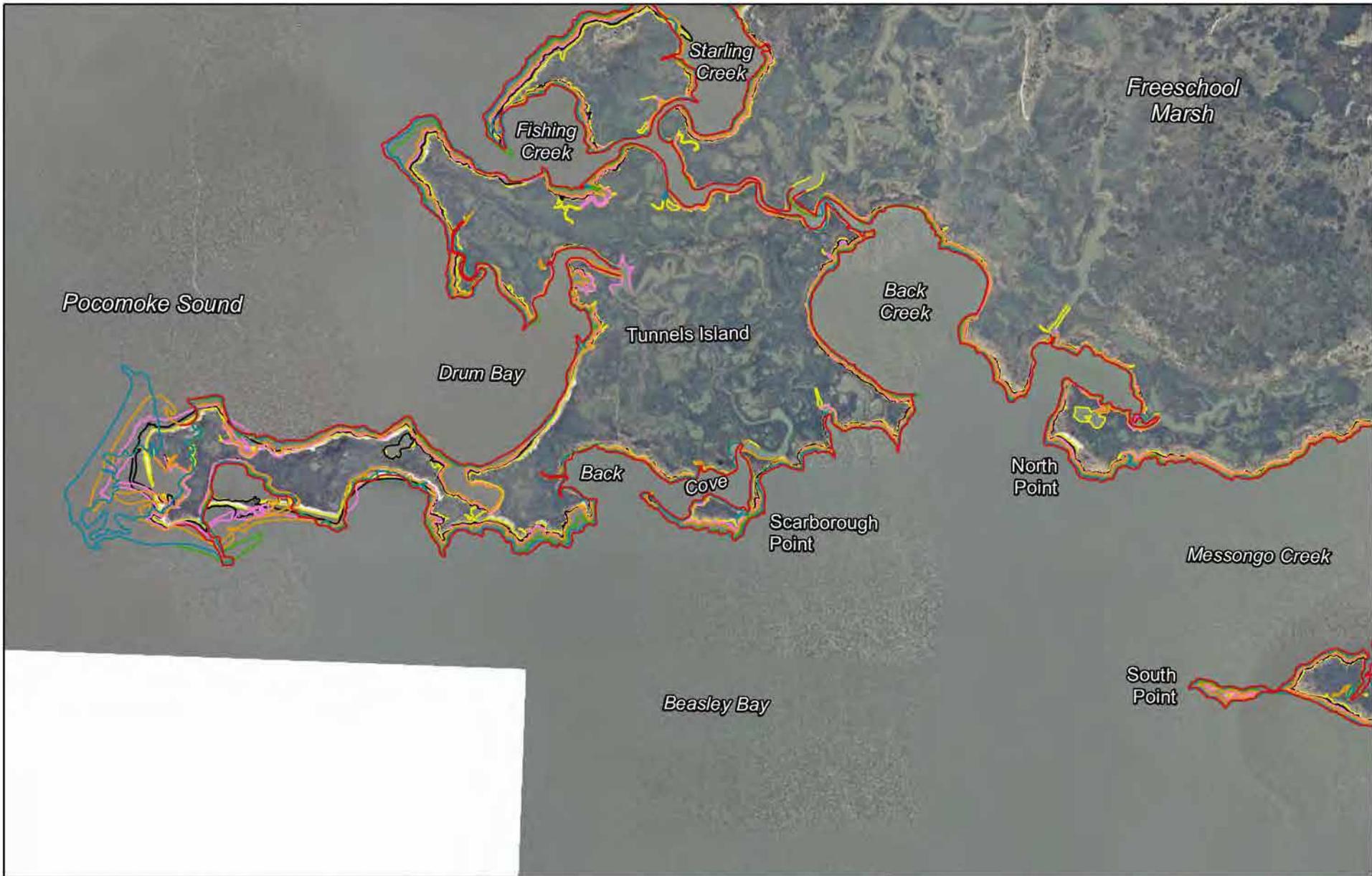


0 2,000 4,000
 Feet

Accomack County, Virginia Plate 4

Photo Date: 2009





Legend

- Shoreline 1938 — Shoreline 2002
- Shoreline 1949 — Shoreline 2009
- Shoreline 1963 — Shoreline 2013
- Shoreline 1994

**Accomack County, Virginia
Plate 4**

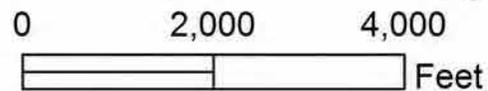
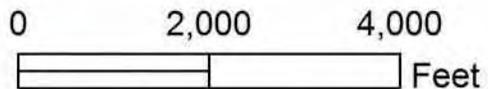


Photo Date: 2013

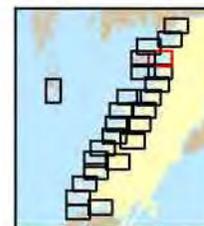


Legend
 — Shoreline 1938



**Accomack County, Virginia
 Plate 5**

Photo Date: 1938





Legend
 — Shoreline 1949

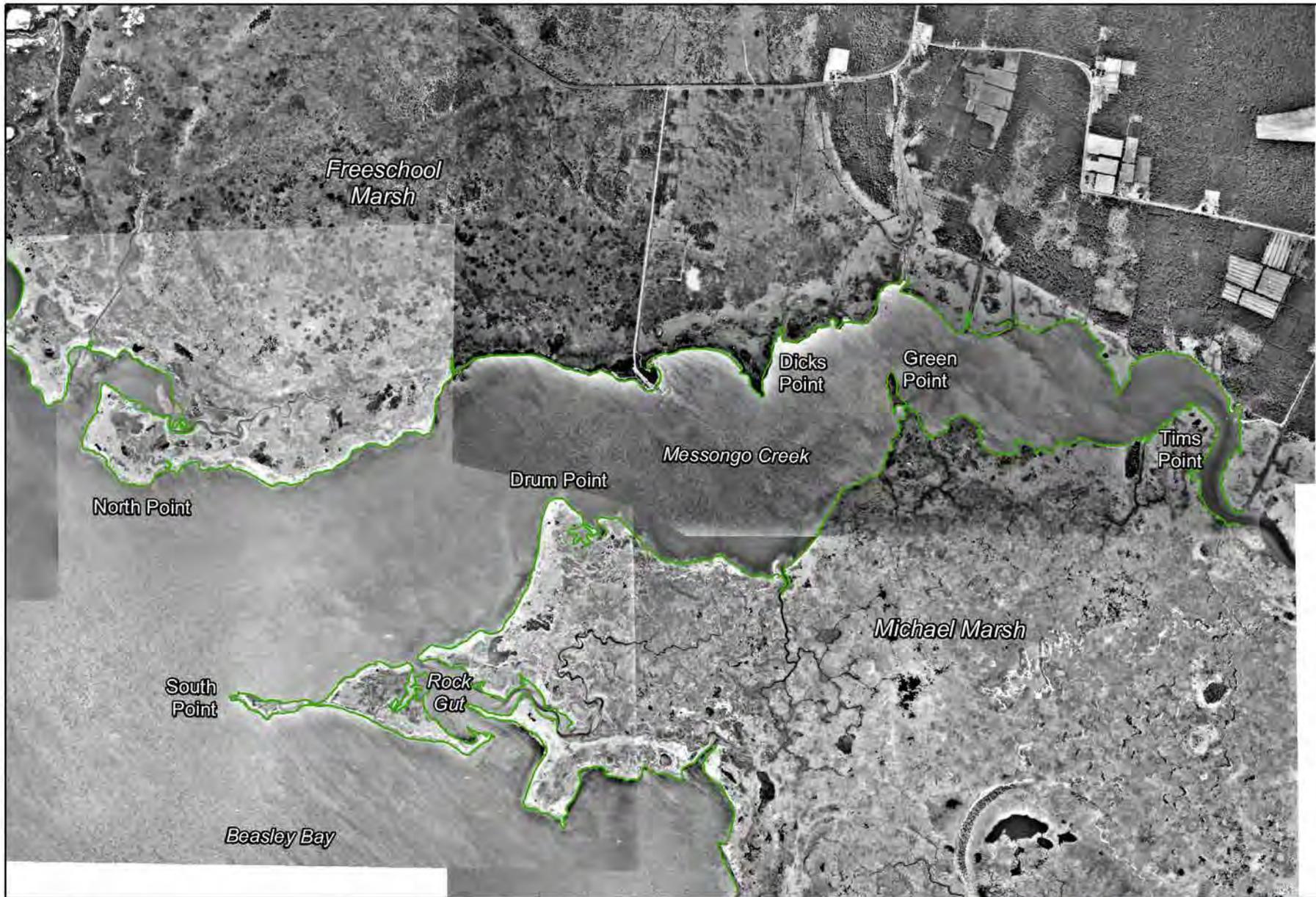


0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 5**

Photo Date: 1949





Legend
 — Shoreline 1963



0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 5**

Photo Date: 1963





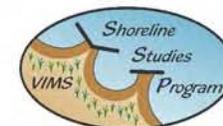
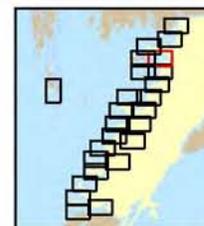
Legend
 — Shoreline 1994



0 2,000 4,000
 Feet

Accomack County, Virginia Plate 5

Photo Date: 1994





Legend
 — Shoreline 2002



0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 5**

Photo Date: 2002





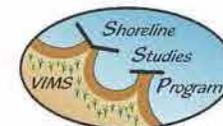
Legend
 — Shoreline 2009

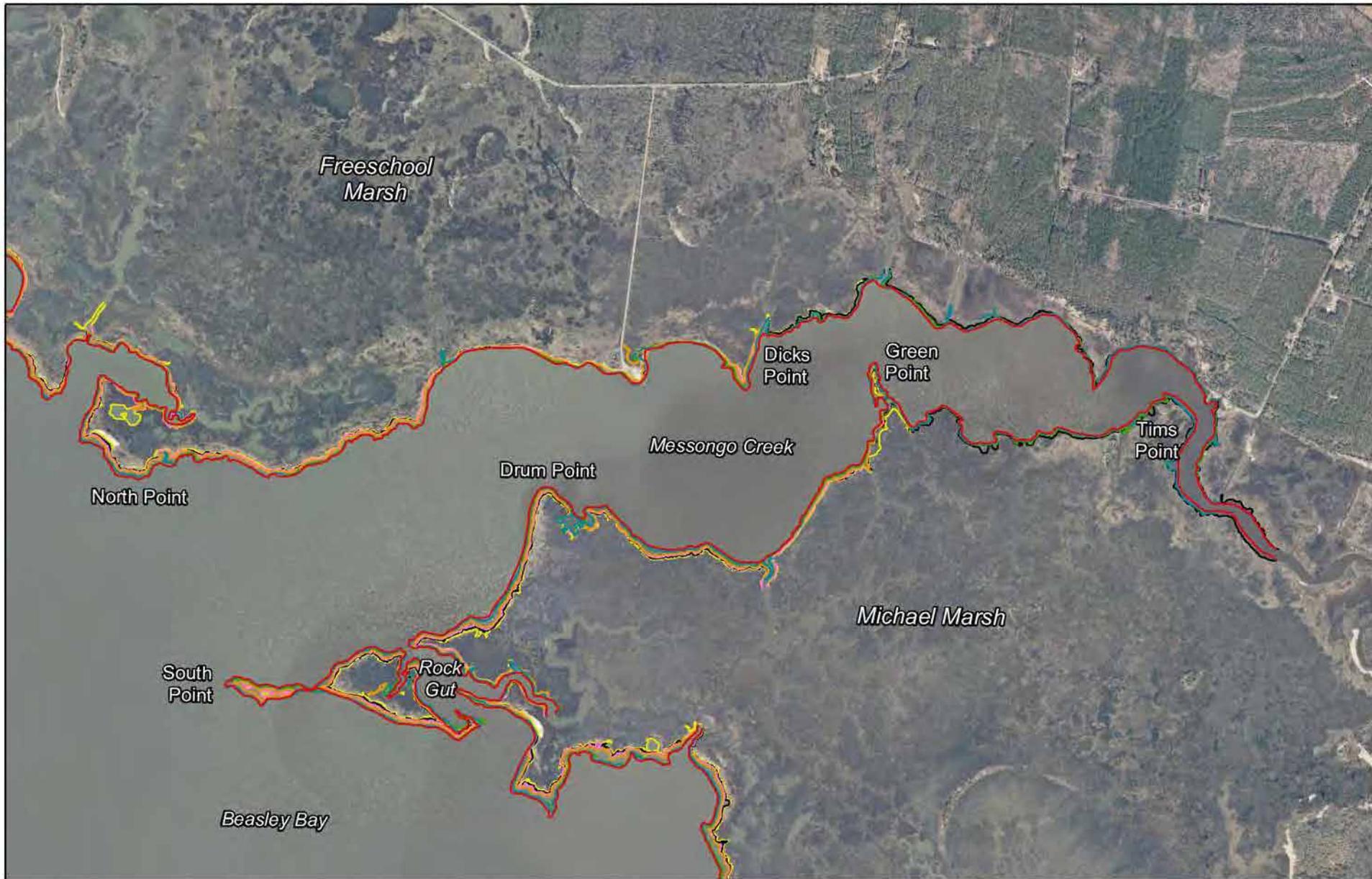


0 2,000 4,000
 Feet

Accomack County, Virginia Plate 5

Photo Date: 2009





Legend

- Shoreline 1938 — Shoreline 2002
- Shoreline 1949 — Shoreline 2009
- Shoreline 1963 — Shoreline 2013
- Shoreline 1994

**Accomack County, Virginia
Plate 5**

0 2,000 4,000

Feet

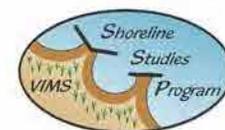
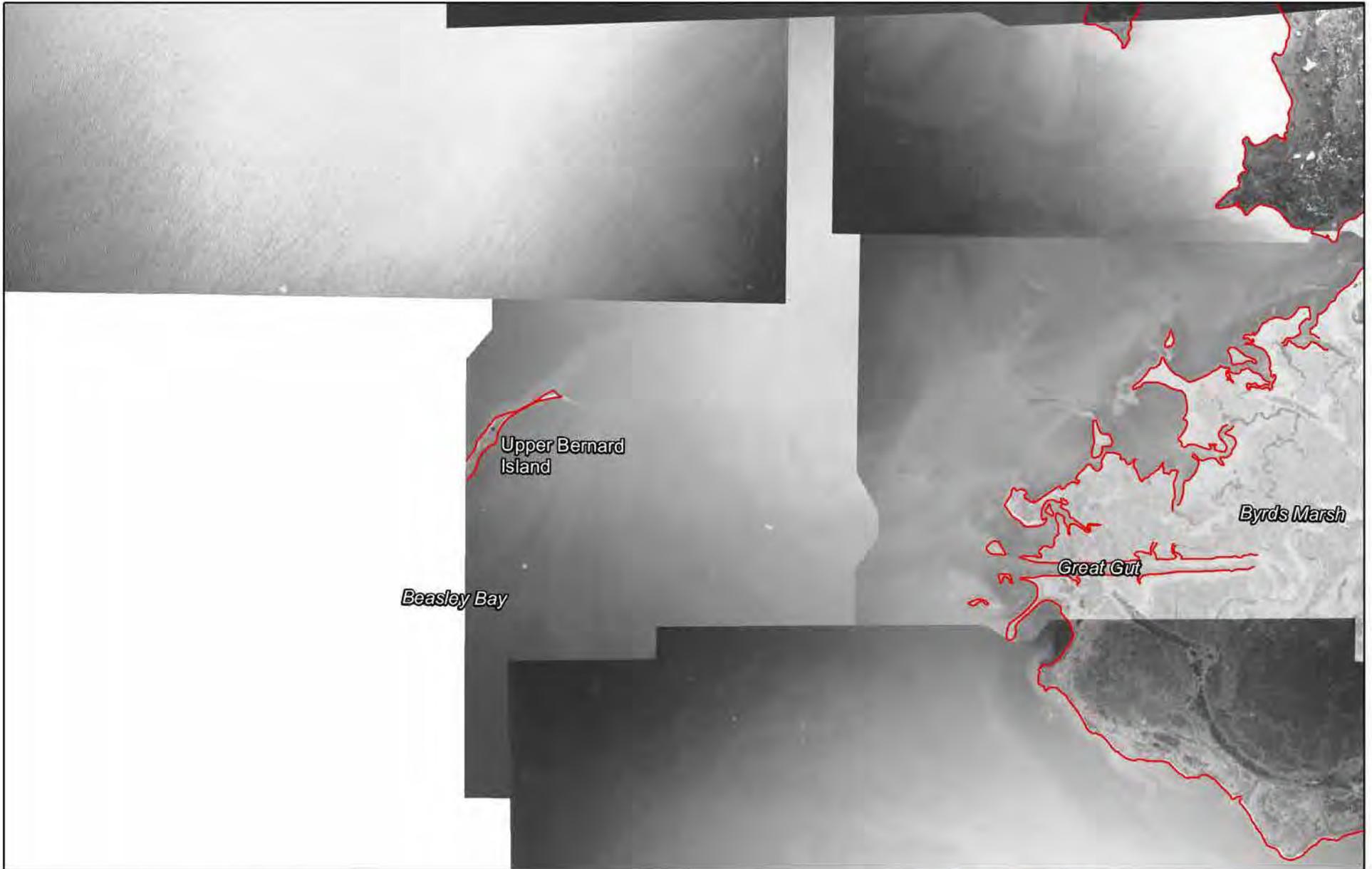
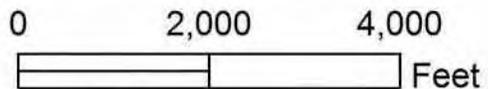


Photo Date: 2013



Legend

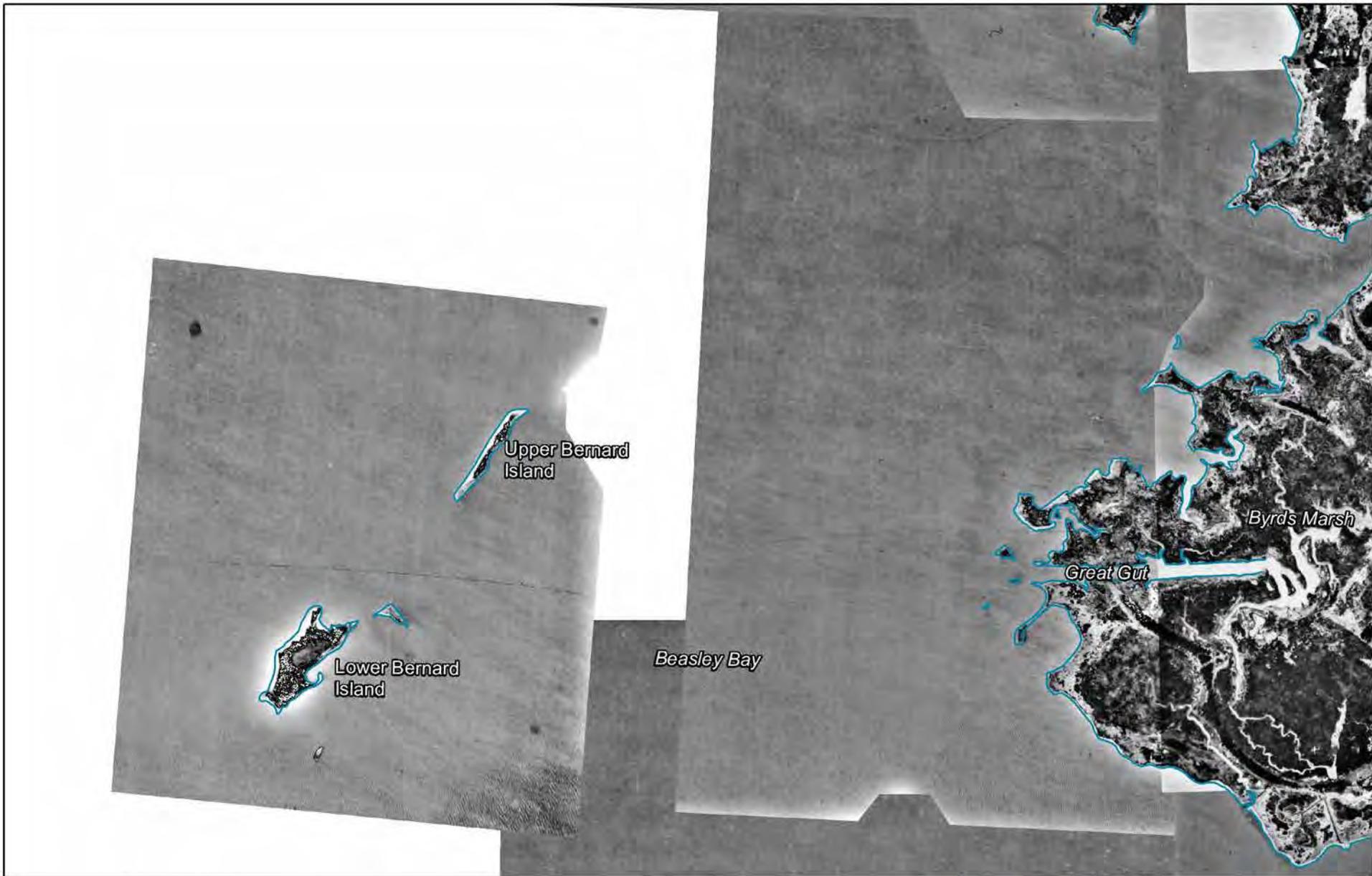
— Shoreline 1938



**Accomack County, Virginia
Plate 6**

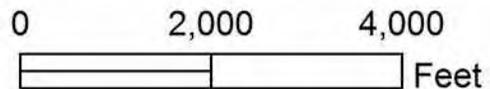
Photo Date: 1938





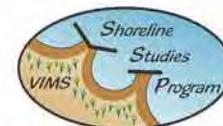
Legend

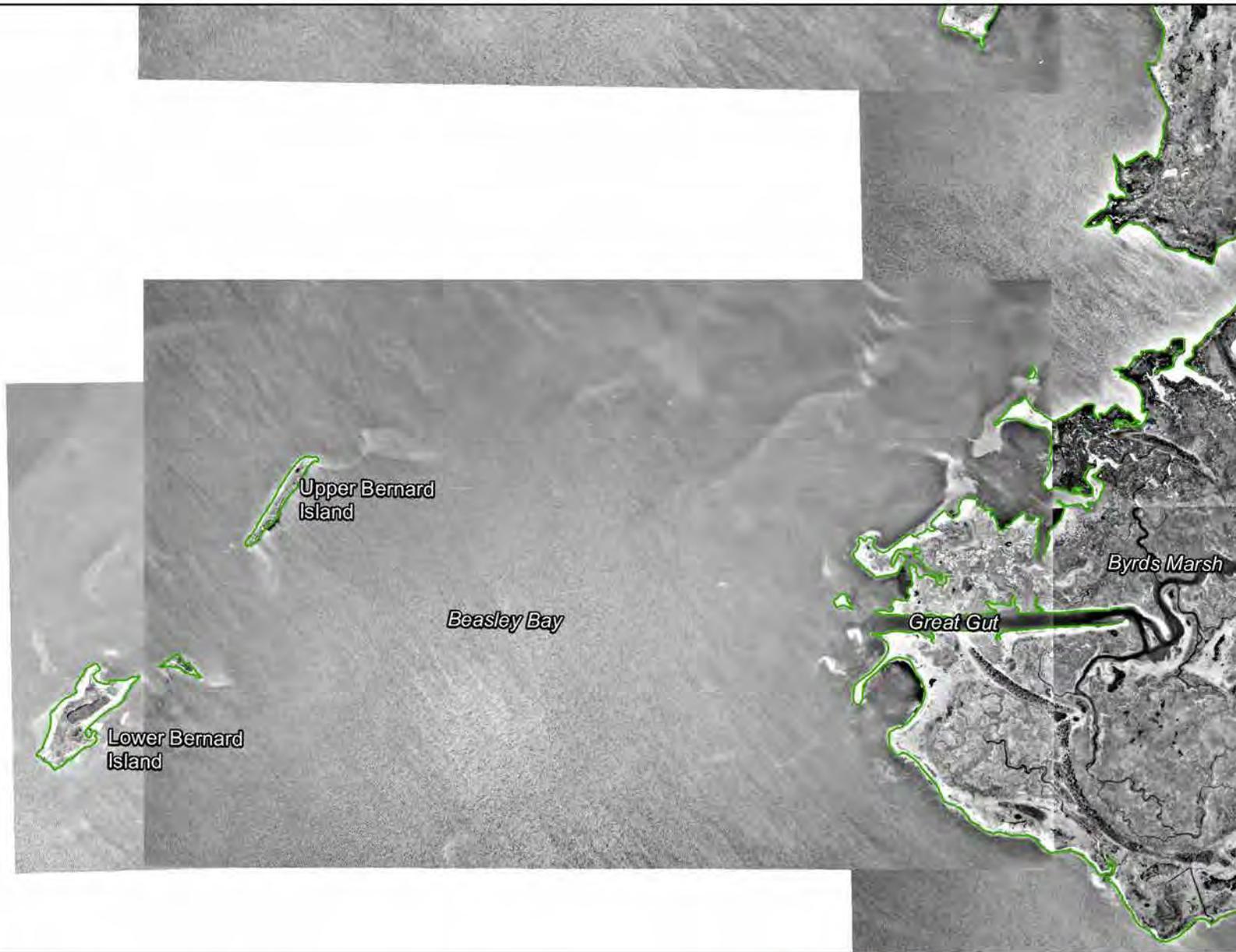
— Shoreline 1949



**Accomack County, Virginia
Plate 6**

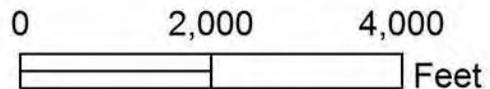
Photo Date: 1949





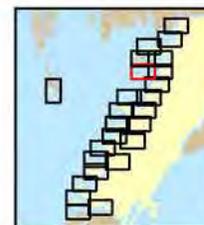
Legend

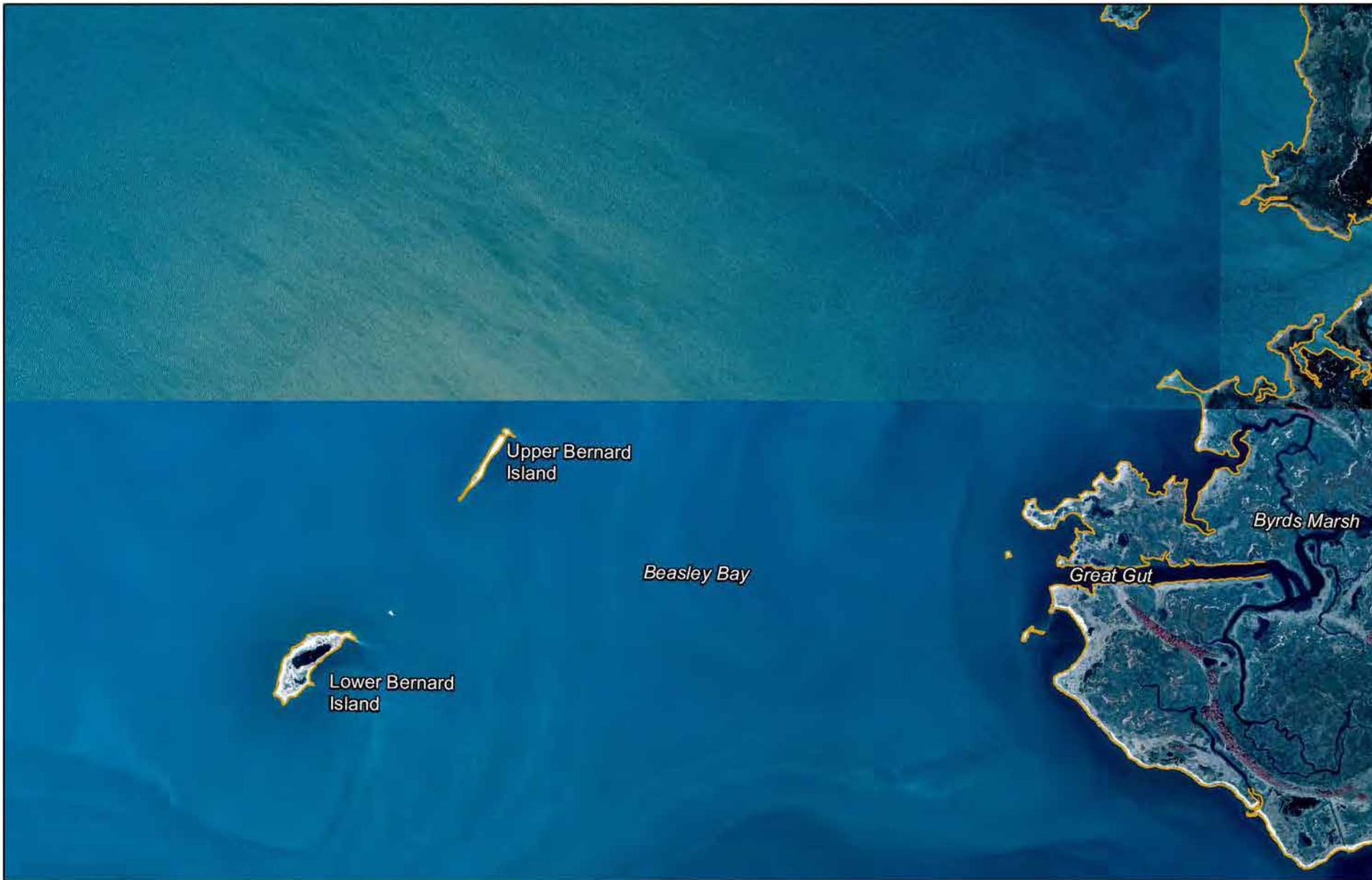
— Shoreline 1963



**Accomack County, Virginia
Plate 6**

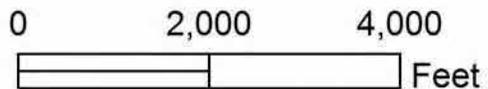
Photo Date: 1963





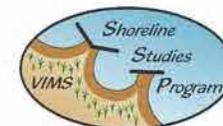
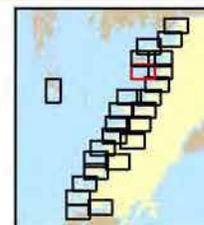
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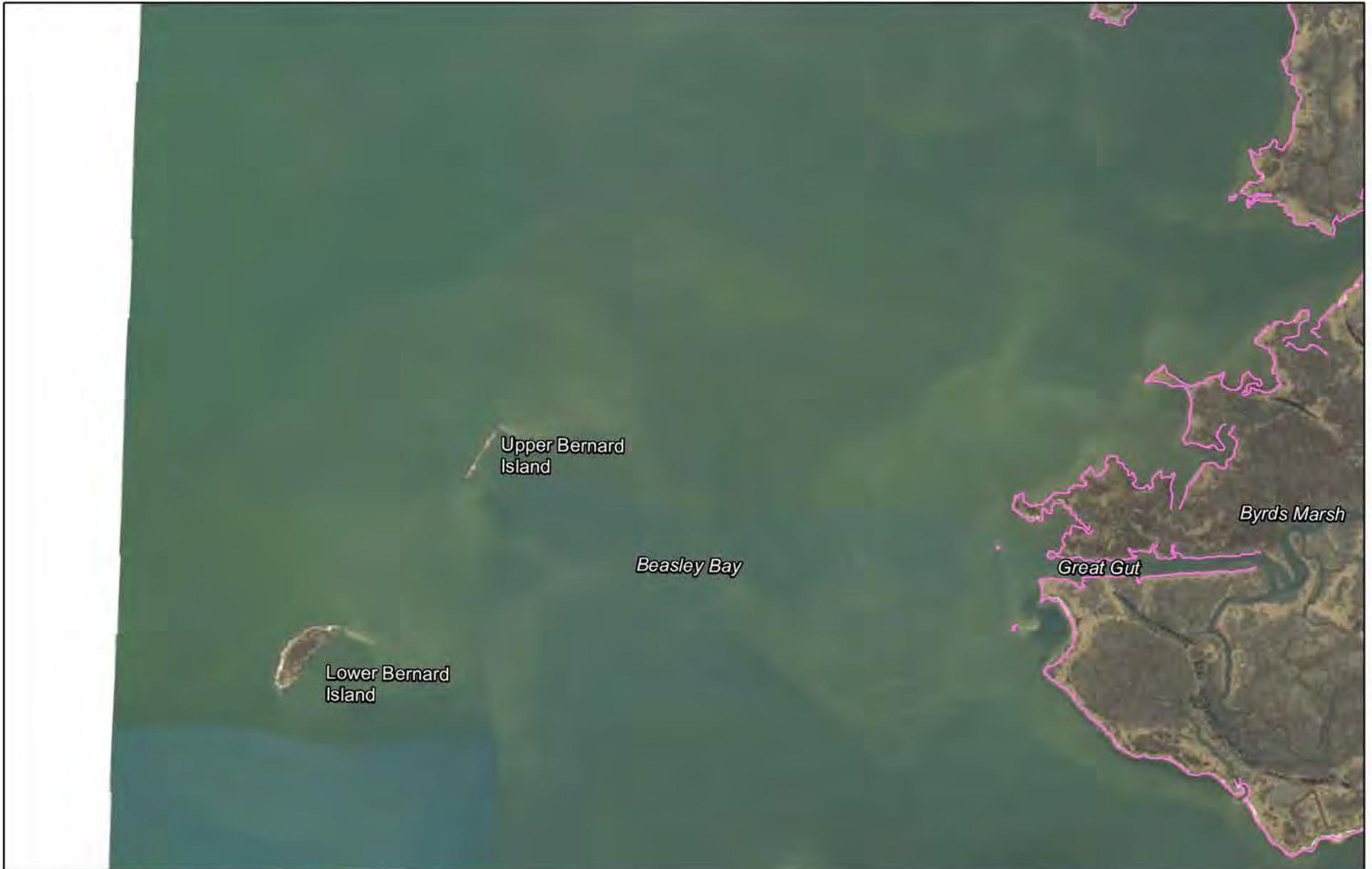
— Shoreline 1994



**Accomack County, Virginia
Plate 6**

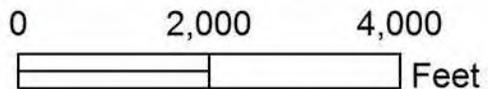
Photo Date: 1994





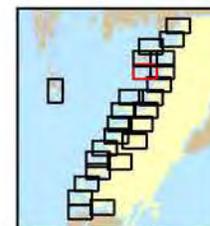
Legend

— Shoreline 2002



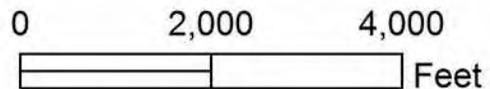
**Accomack County, Virginia
Plate 6**

Photo Date: 2002



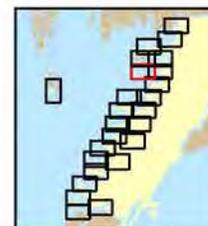


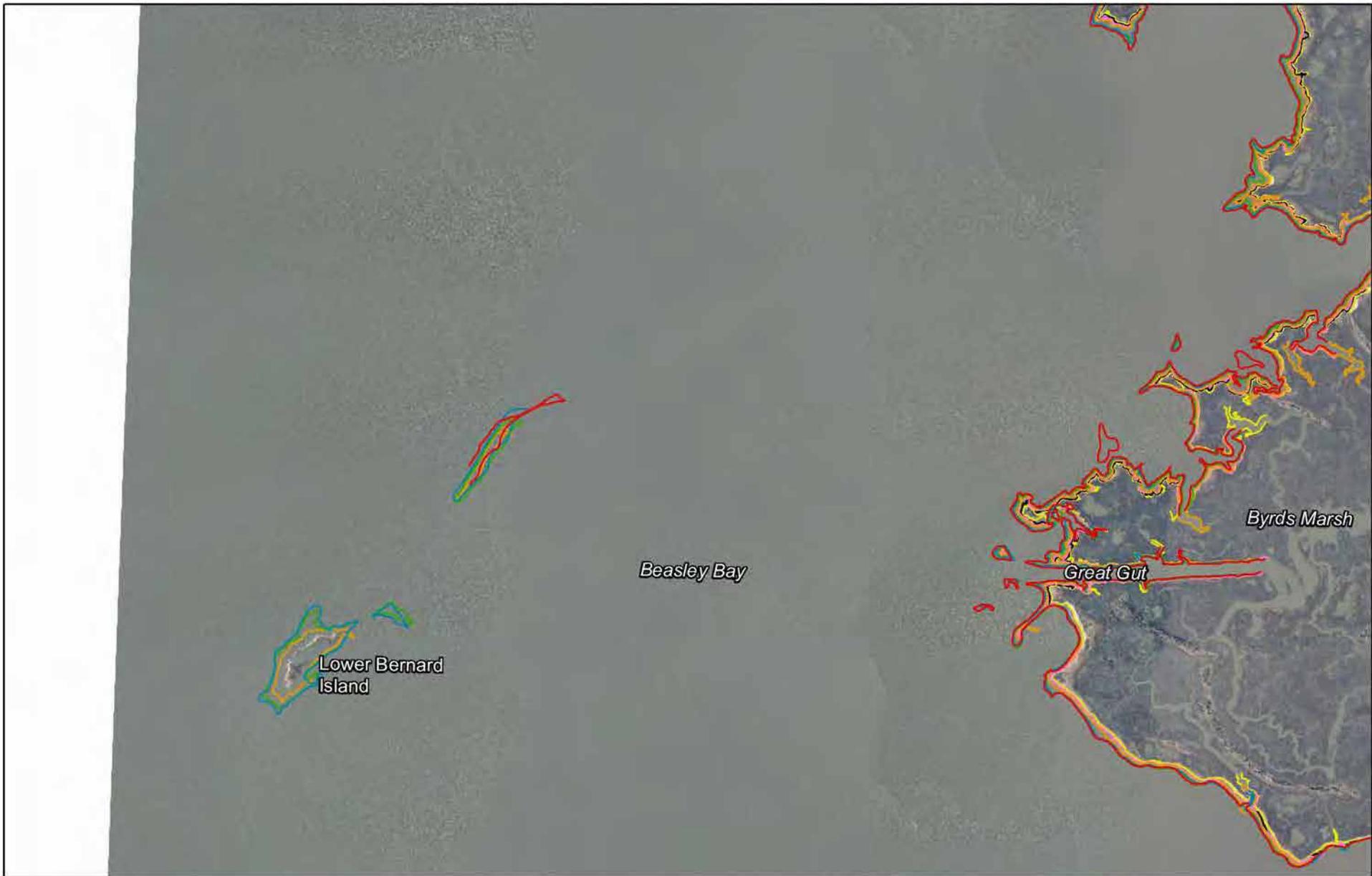
Legend
— Shoreline 2009



Accomack County, Virginia Plate 6

Photo Date: 2009





Legend

- Shoreline 1938
- Shoreline 1949
- Shoreline 1963
- Shoreline 1994
- Shoreline 2002
- Shoreline 2009
- Shoreline 2013

**Accomack County, Virginia
Plate 6**

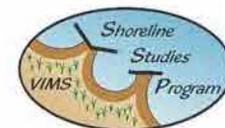
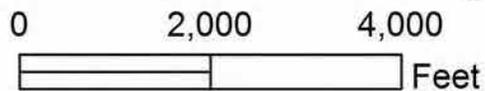
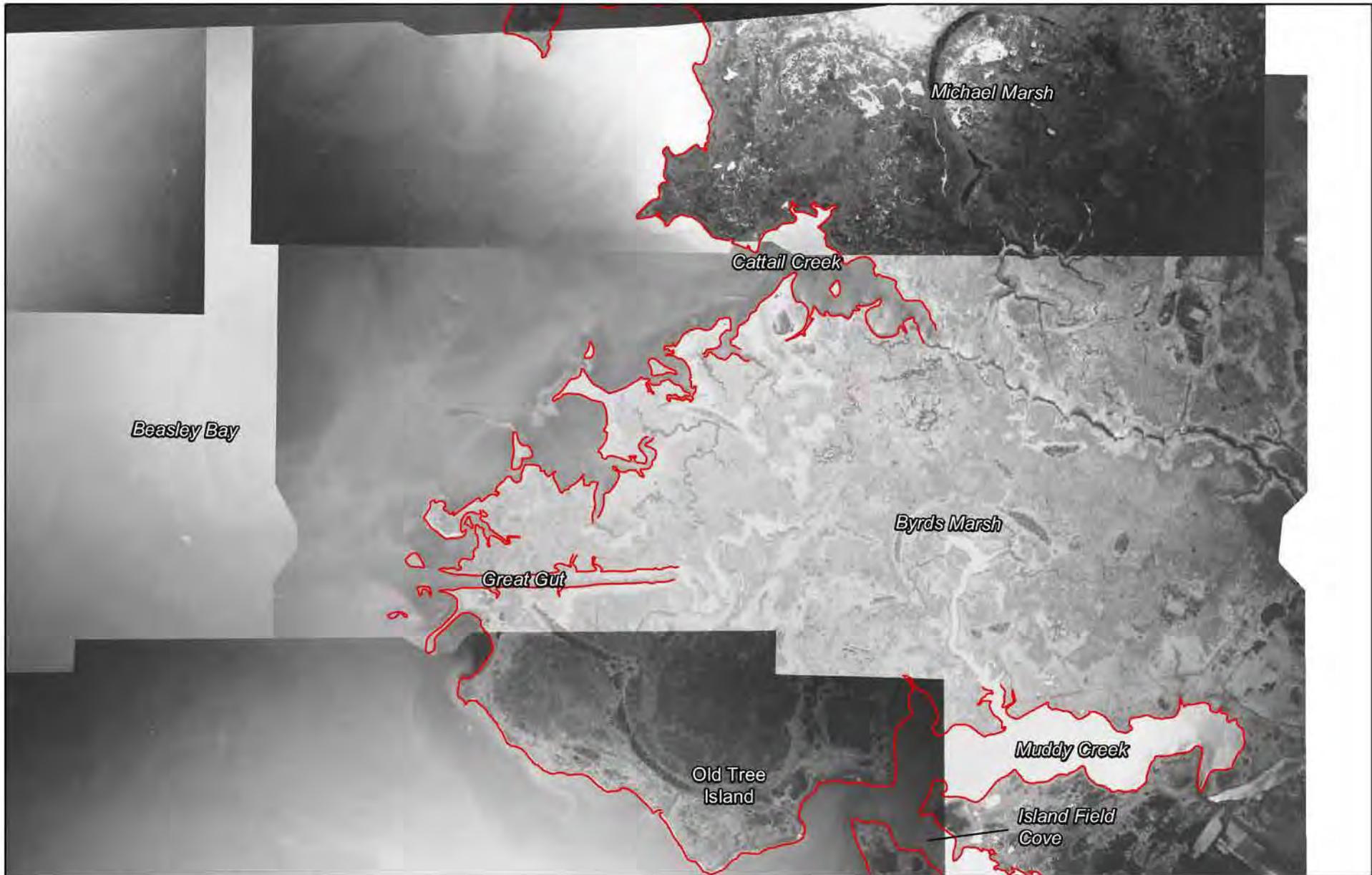


Photo Date: 2013



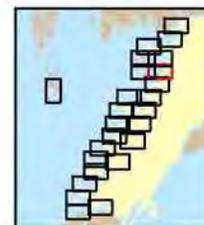
Legend
 — Shoreline 1938

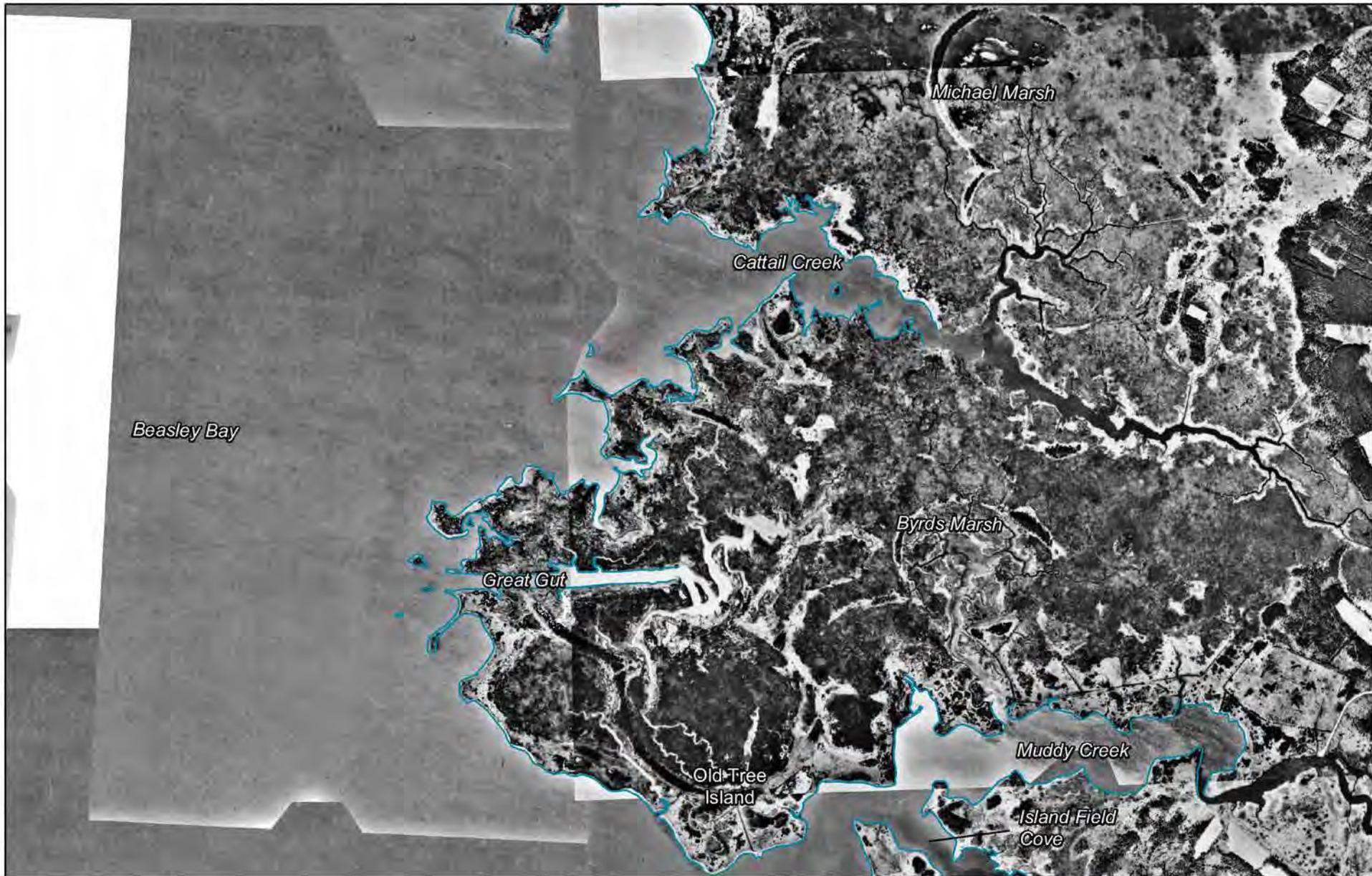


0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 7**

Photo Date: 1938





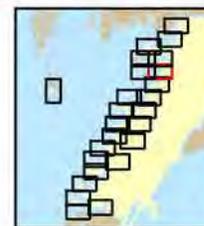
Legend
 — Shoreline 1949

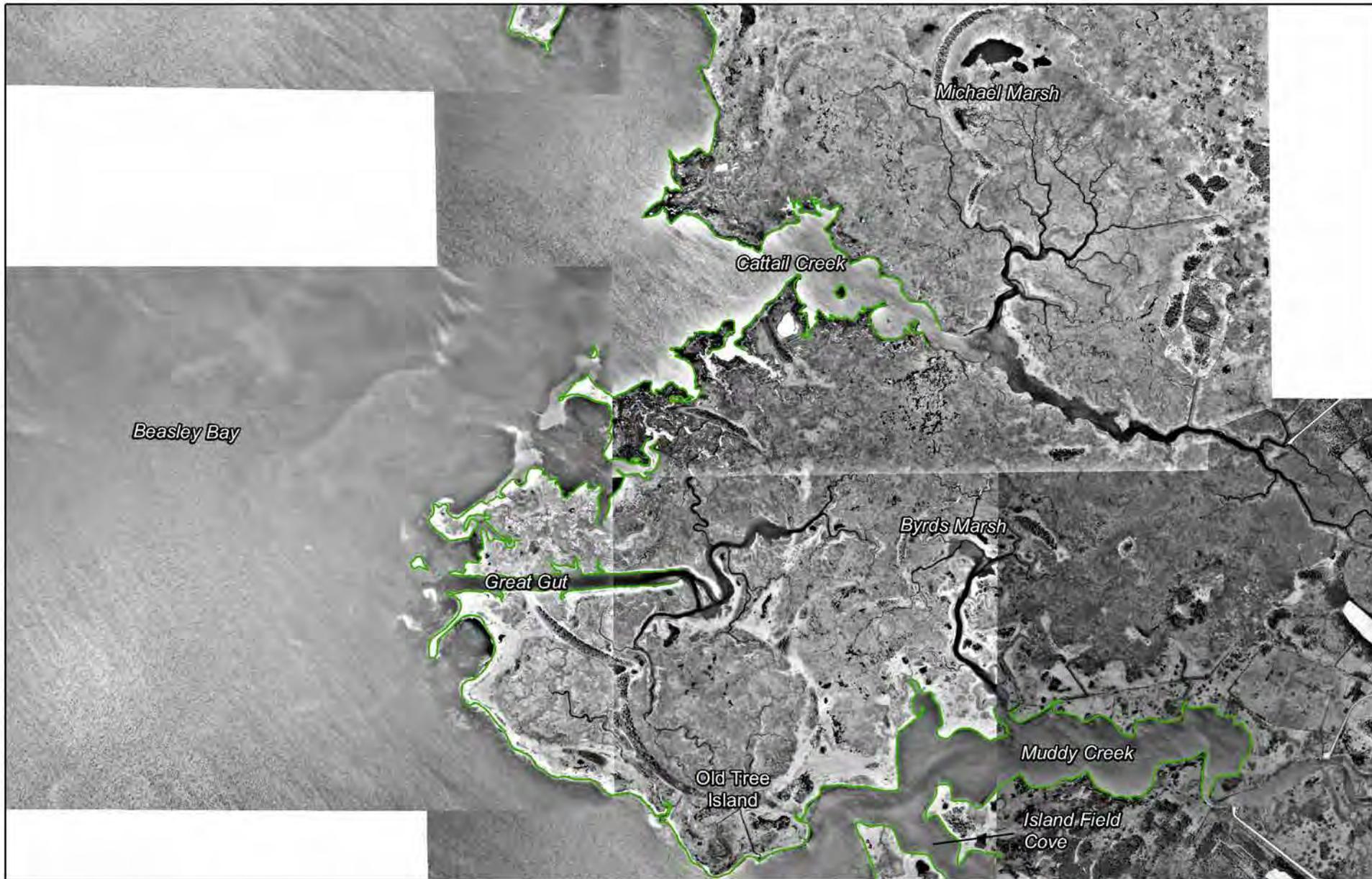


0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 7**

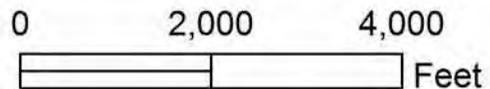
Photo Date: 1949





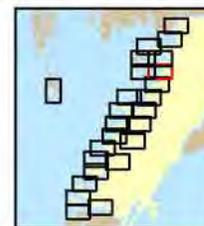
Legend

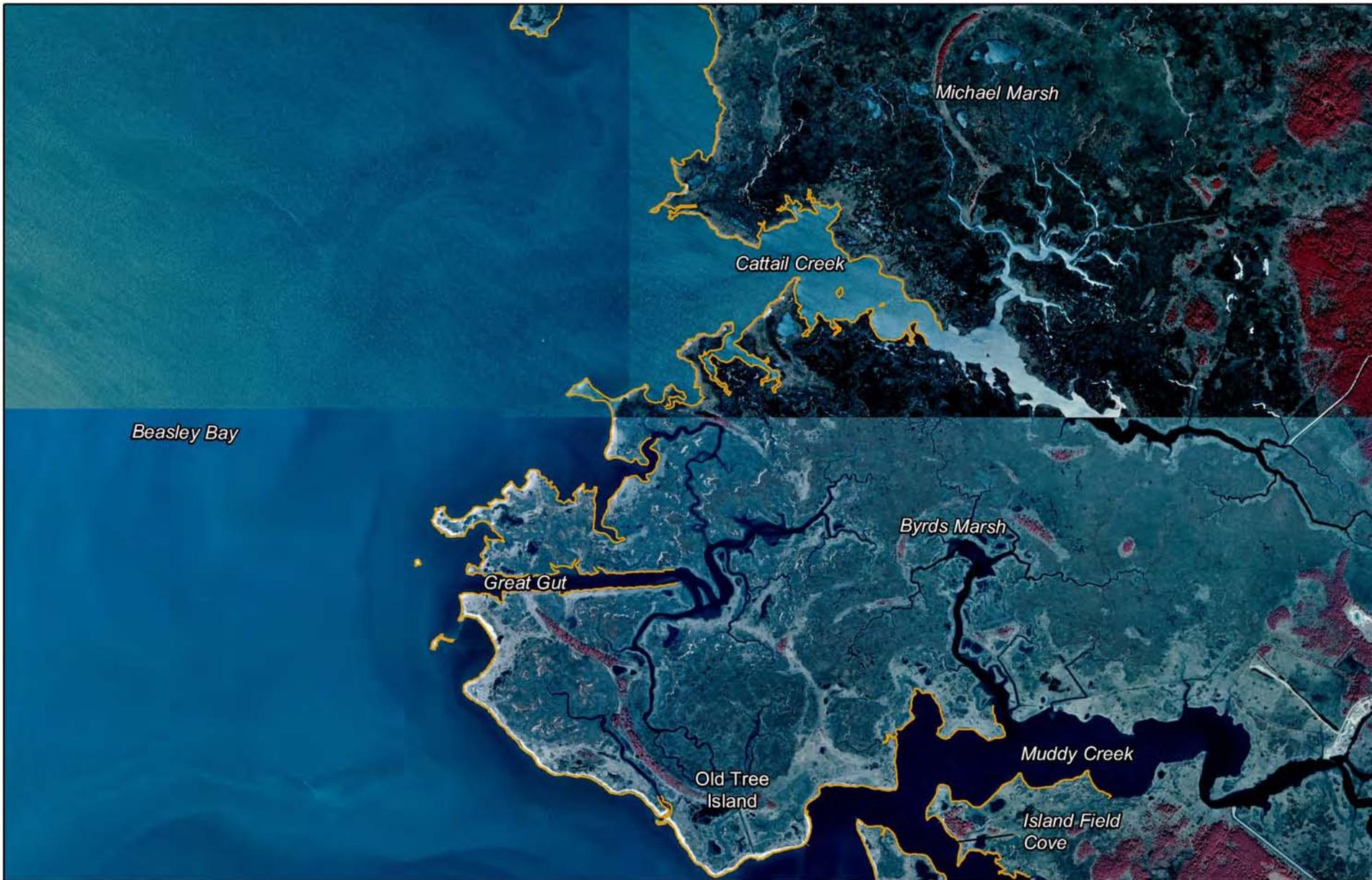
— Shoreline 1963



Accomack County, Virginia Plate 7

Photo Date: 1963





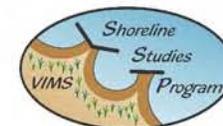
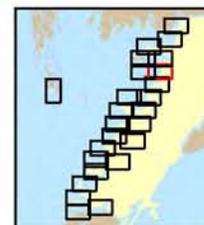
Legend
 — Shoreline 1994



0 2,000 4,000
 Feet

Accomack County, Virginia Plate 7

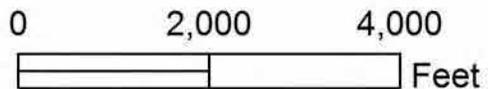
Photo Date: 1994





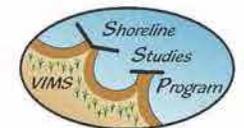
Legend

— Shoreline 2002



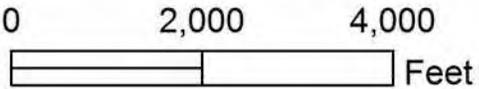
**Accomack County, Virginia
Plate 7**

Photo Date: 2002





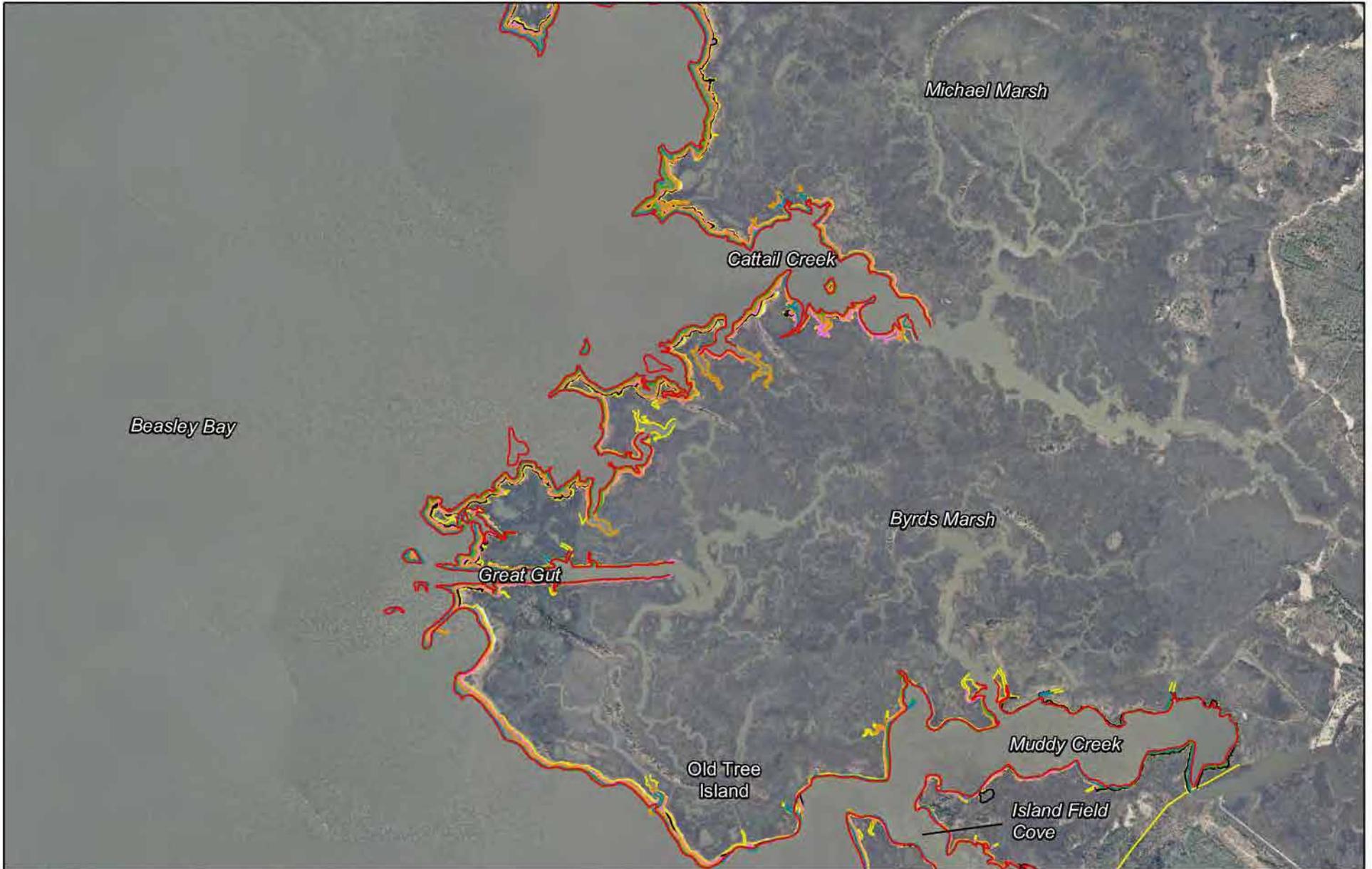
Legend
 — Shoreline 2009



**Accomack County, Virginia
 Plate 7**

Photo Date: 2009





Legend

- Shoreline 1938 — Shoreline 2002
- Shoreline 1949 — Shoreline 2009
- Shoreline 1963 — Shoreline 2013
- Shoreline 1994

**Accomack County, Virginia
Plate 7**

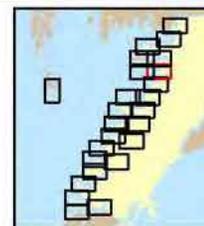
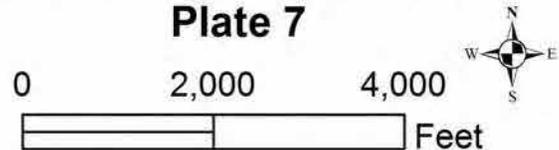
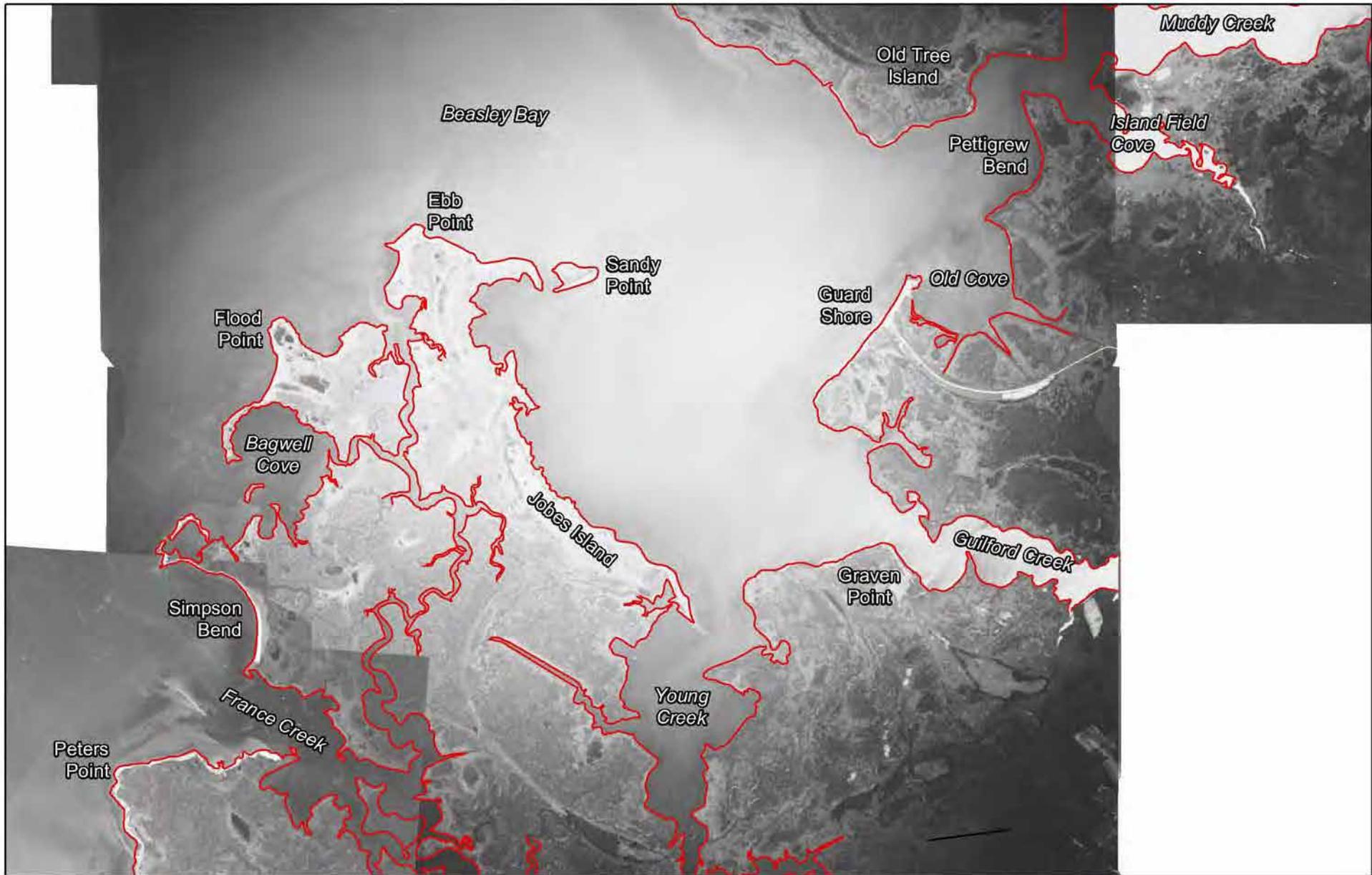


Photo Date: 2013



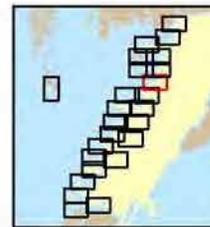
Legend
 — Shoreline 1938

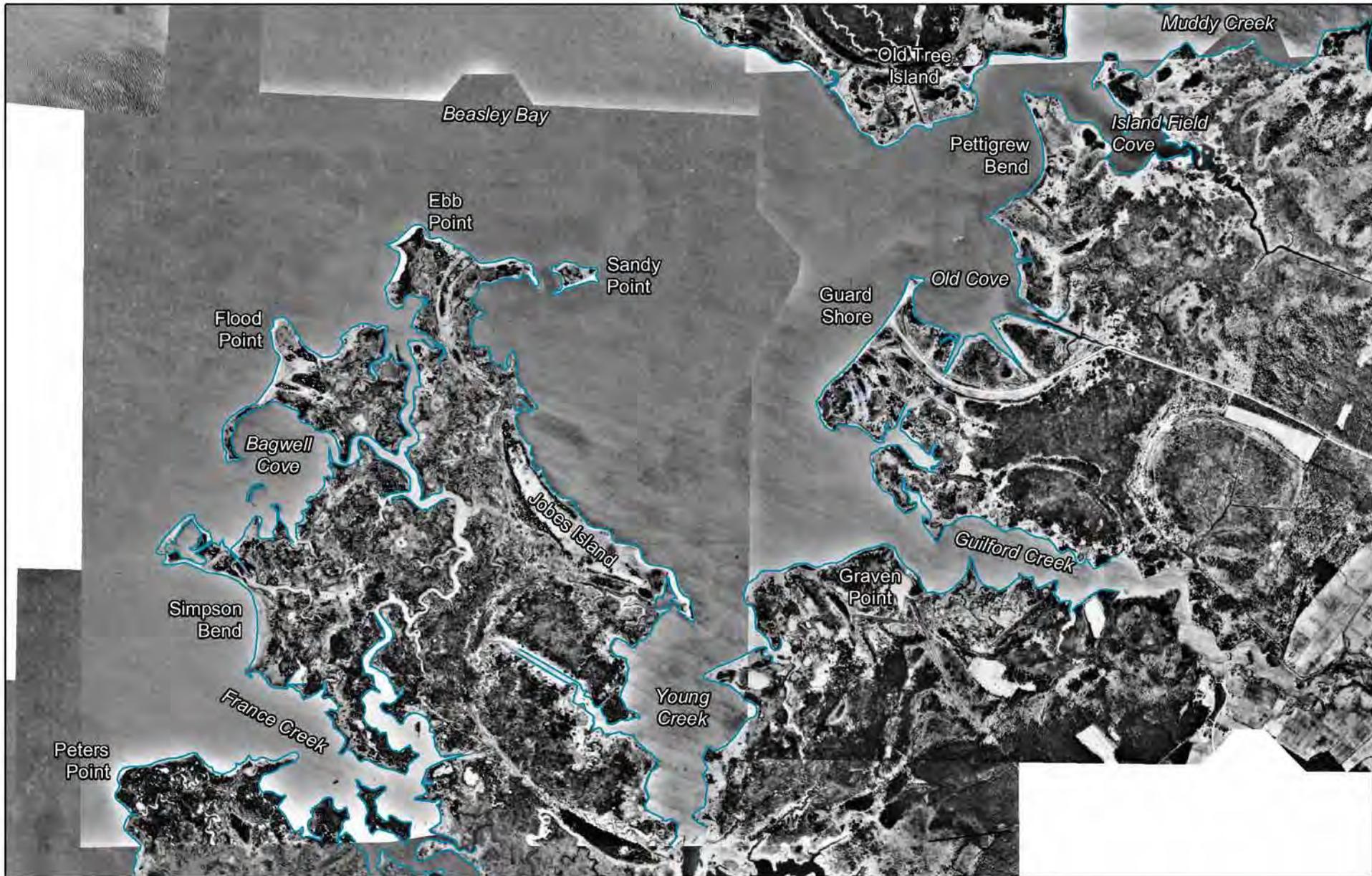


0 2,000 4,000
 Feet

Accomack County, Virginia Plate 8

Photo Date: 1938





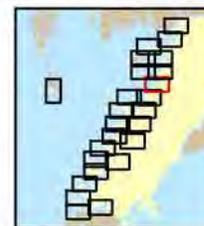
Legend
 — Shoreline 1949



0 2,000 4,000
 Feet

Accomack County, Virginia Plate 8

Photo Date: 1949





Legend
 — Shoreline 1963



0 2,000 4,000
 Feet

Accomack County, Virginia Plate 8

Photo Date: 1963





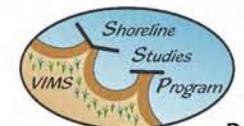
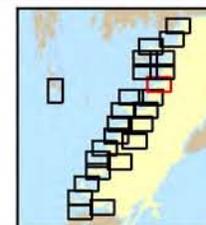
Legend
 — Shoreline 1994

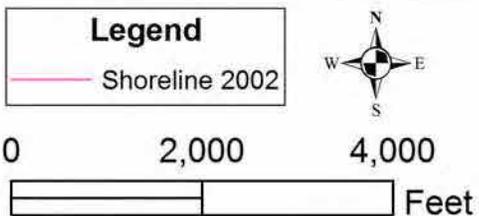


0 2,000 4,000
 Feet

Accomack County, Virginia Plate 8

Photo Date: 1994





Accomack County, Virginia Plate 8

Photo Date: 2002





Legend
 — Shoreline 2009

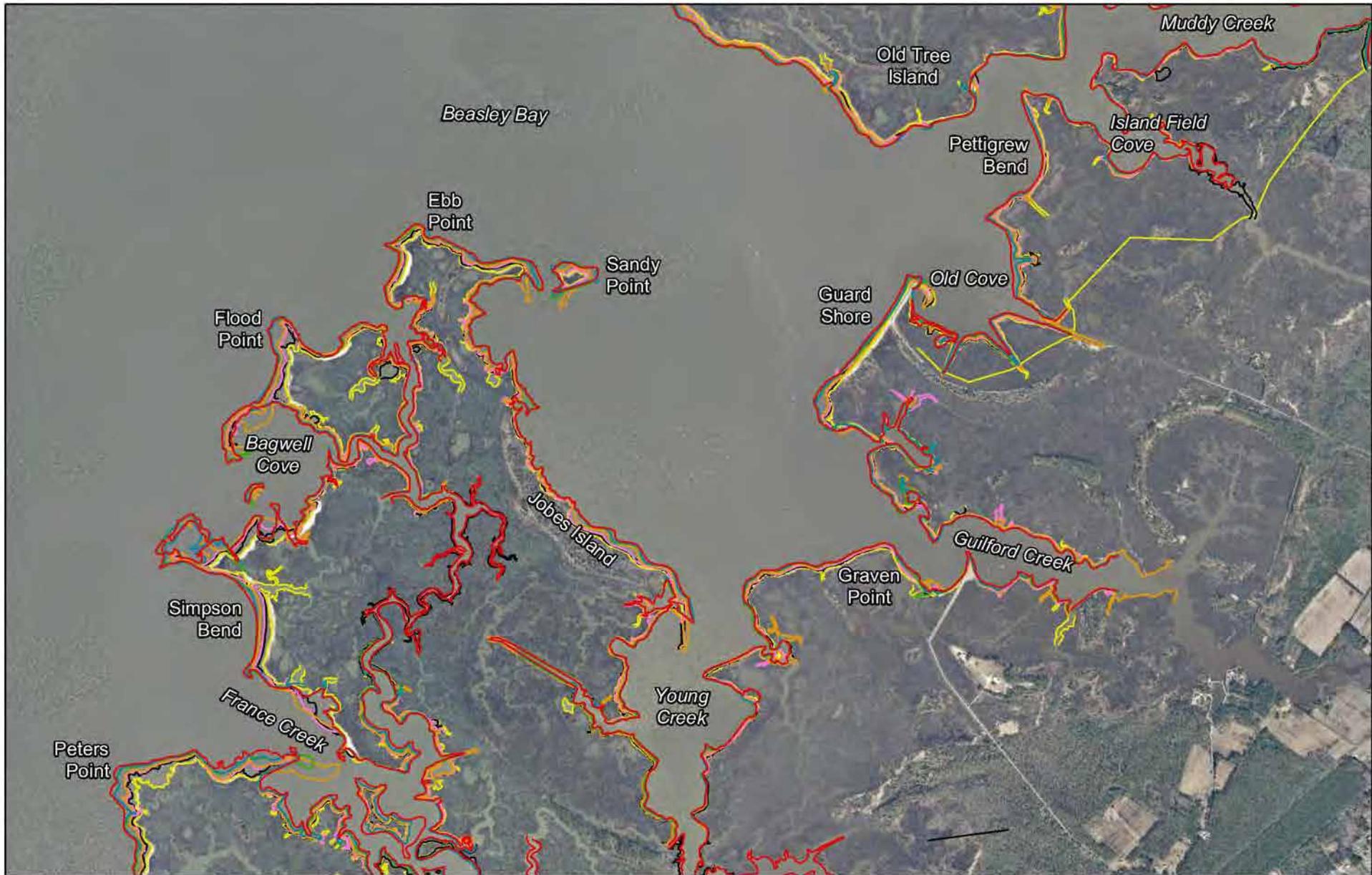


0 2,000 4,000
 Feet

Accomack County, Virginia Plate 8

Photo Date: 2009





Legend

- Shoreline 1938 — Shoreline 2002
- Shoreline 1949 — Shoreline 2009
- Shoreline 1963 — Shoreline 2013
- Shoreline 1994

**Accomack County, Virginia
Plate 8**

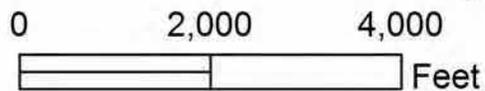
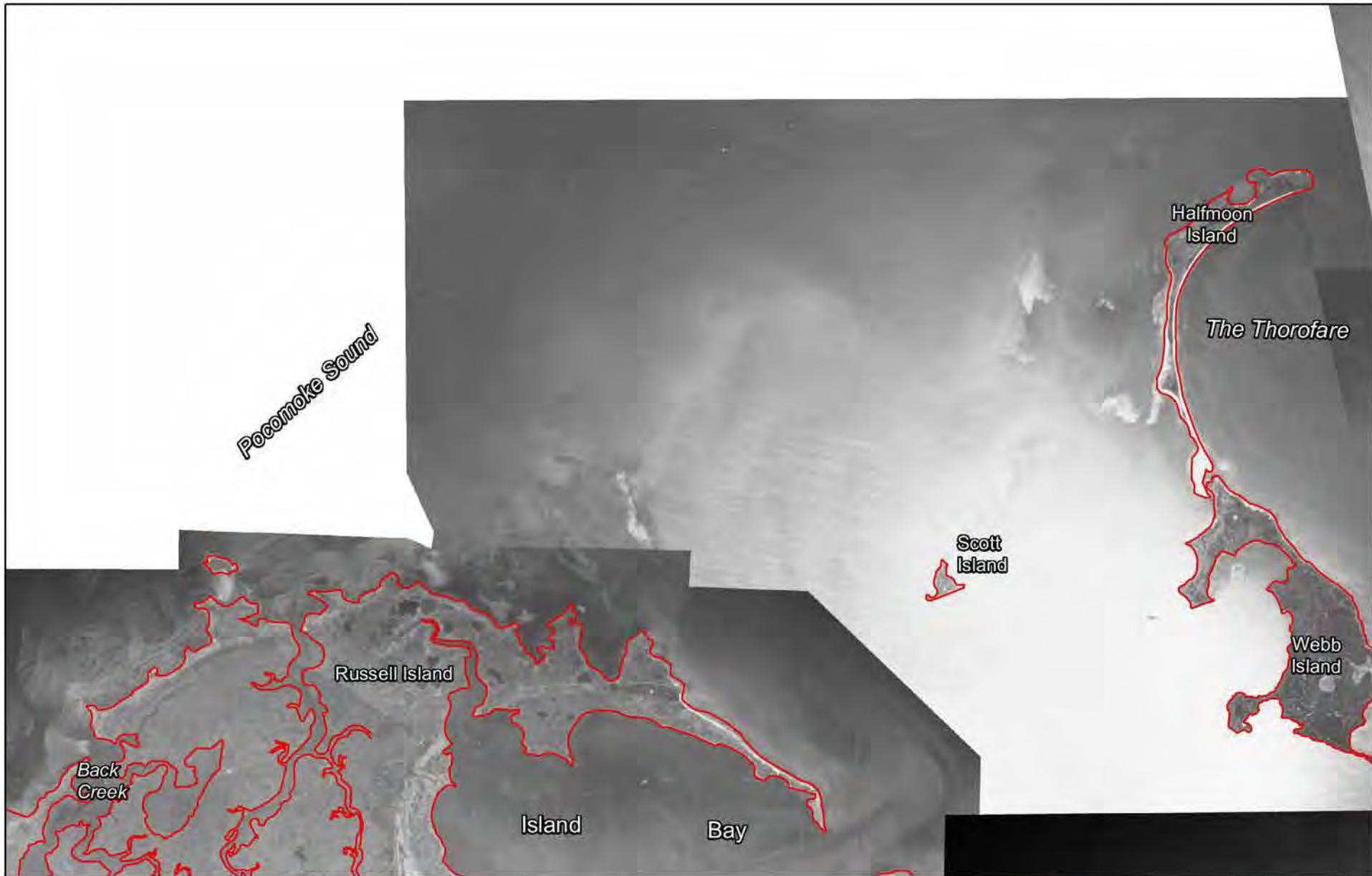


Photo Date: 2013



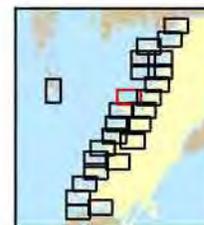
Legend
 — Shoreline 1938

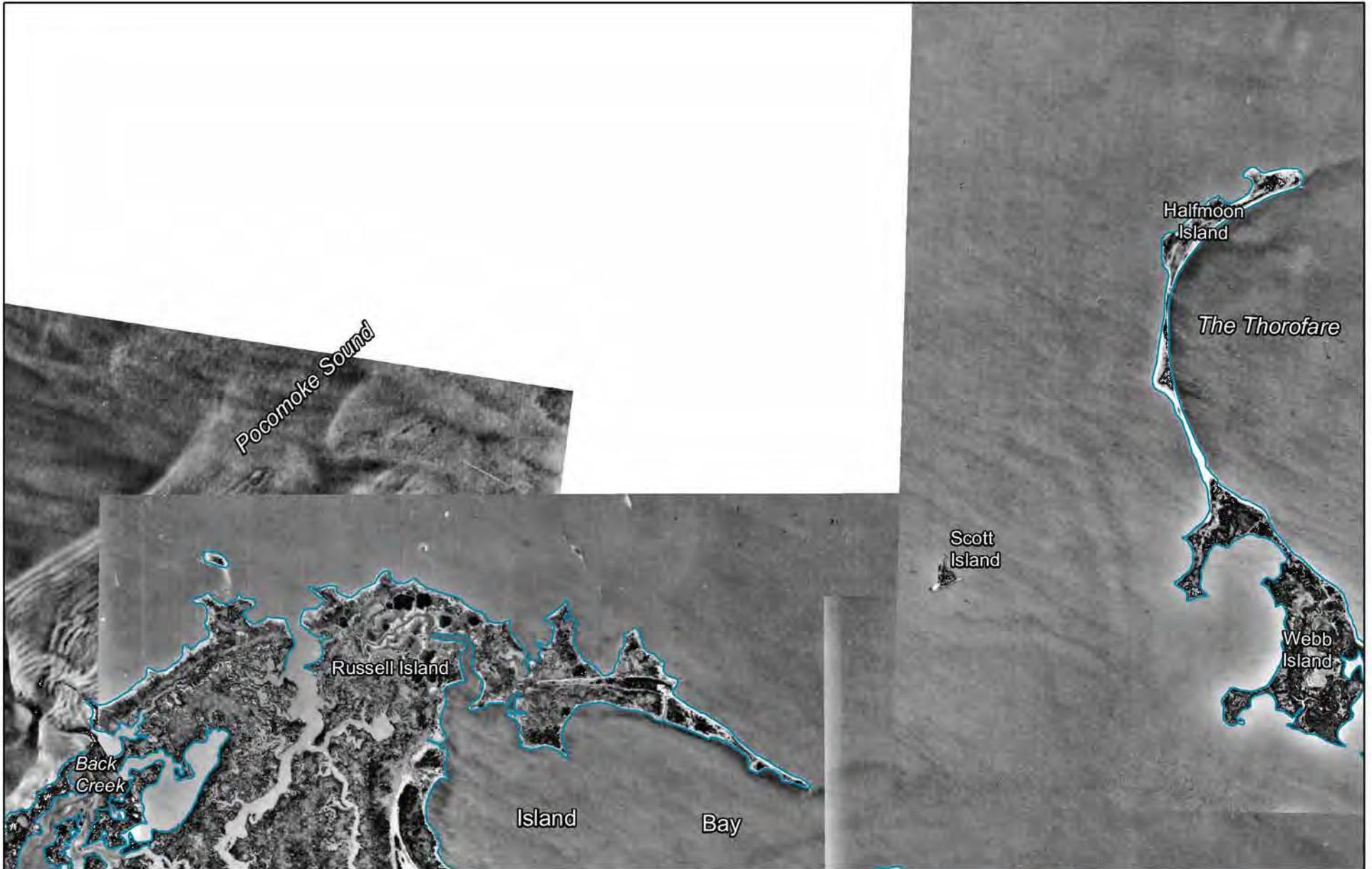


0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 9**

Photo Date: 1938





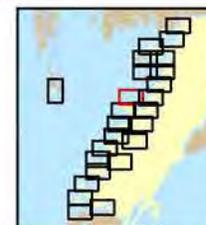
Legend
 — Shoreline 1949

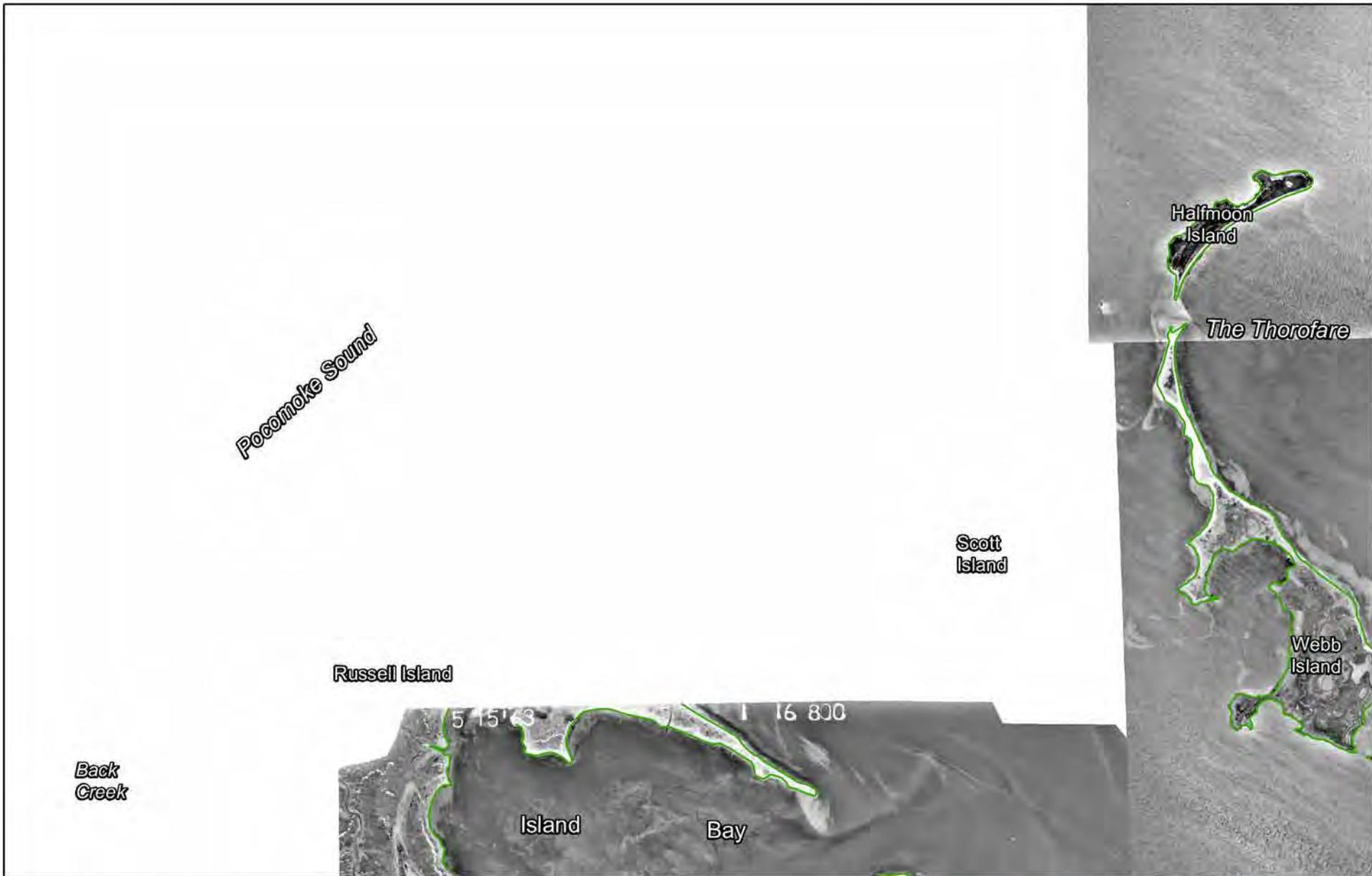


0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 9**

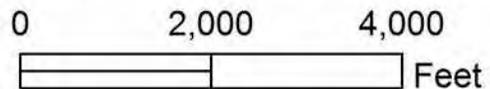
Photo Date: 1949





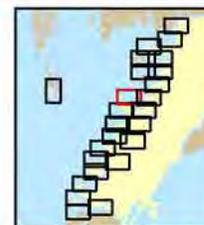
Legend

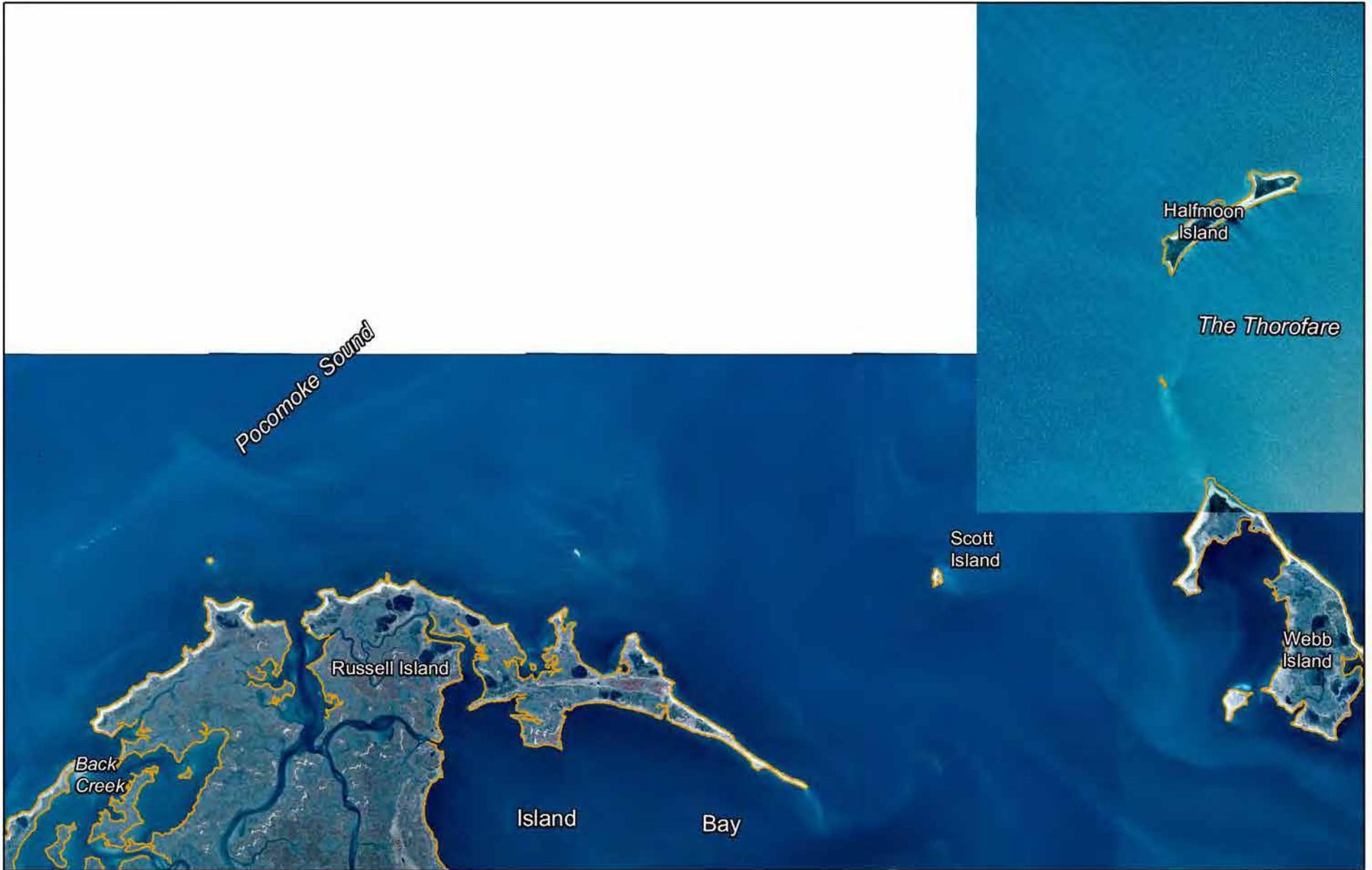
— Shoreline 1963



**Accomack County, Virginia
Plate 9**

Photo Date: 1963





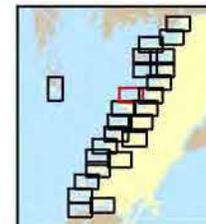
Legend
 — Shoreline 1994



0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 9**

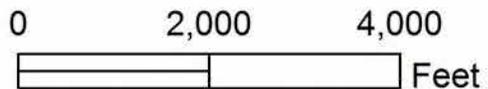
Photo Date: 1994





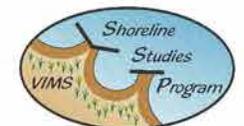
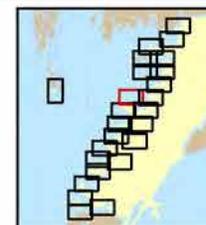
Legend

— Shoreline 2002



**Accomack County, Virginia
Plate 9**

Photo Date: 2002





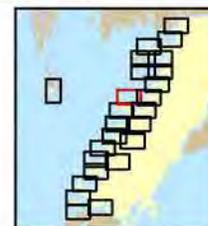
Legend
 — Shoreline 2009

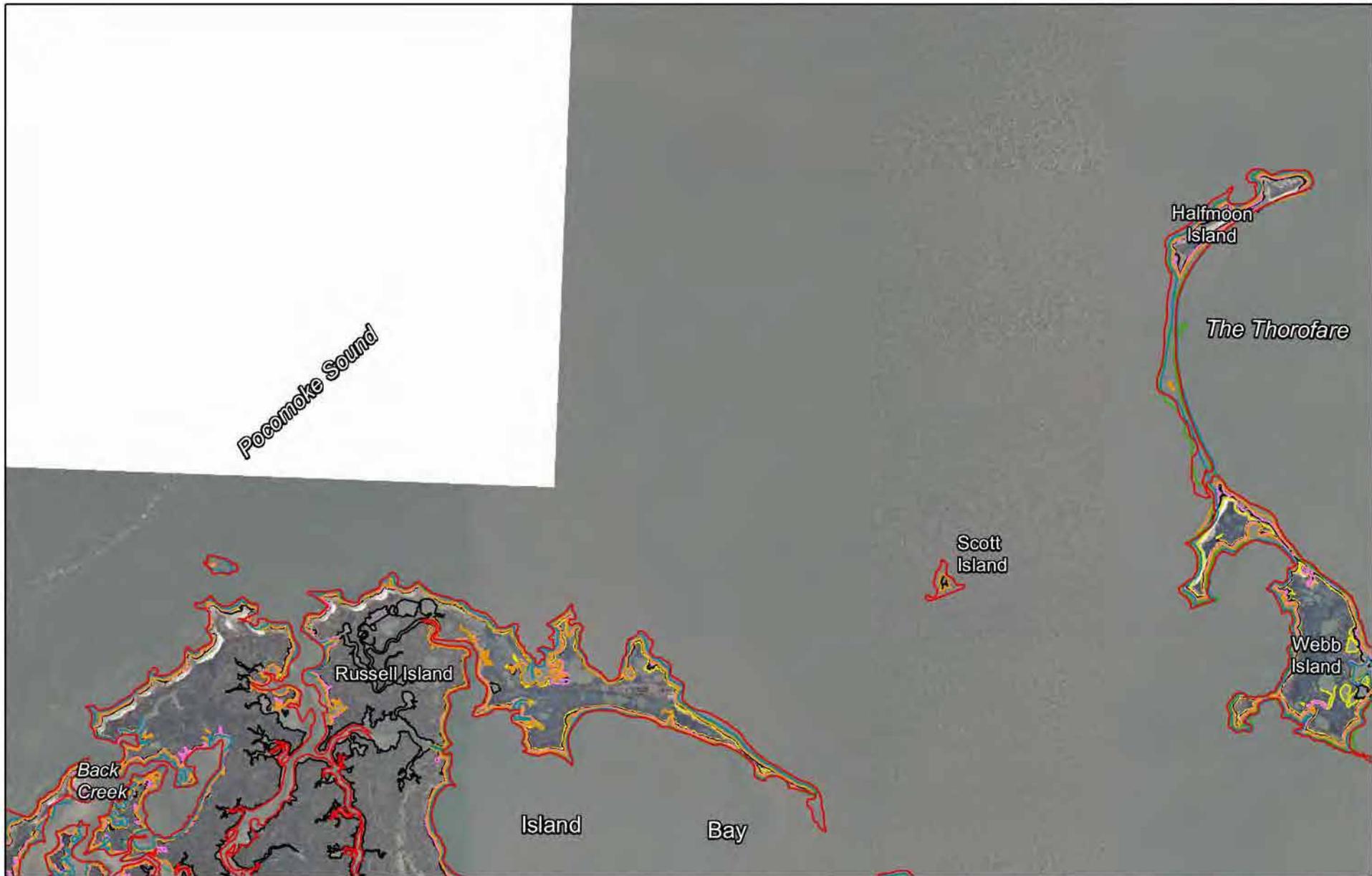


0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 9**

Photo Date: 2009





Legend

- Shoreline 1938 — Shoreline 2002
- Shoreline 1949 — Shoreline 2009
- Shoreline 1963 — Shoreline 2013
- Shoreline 1994

**Accomack County, Virginia
Plate 9**

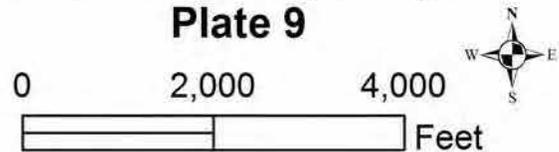
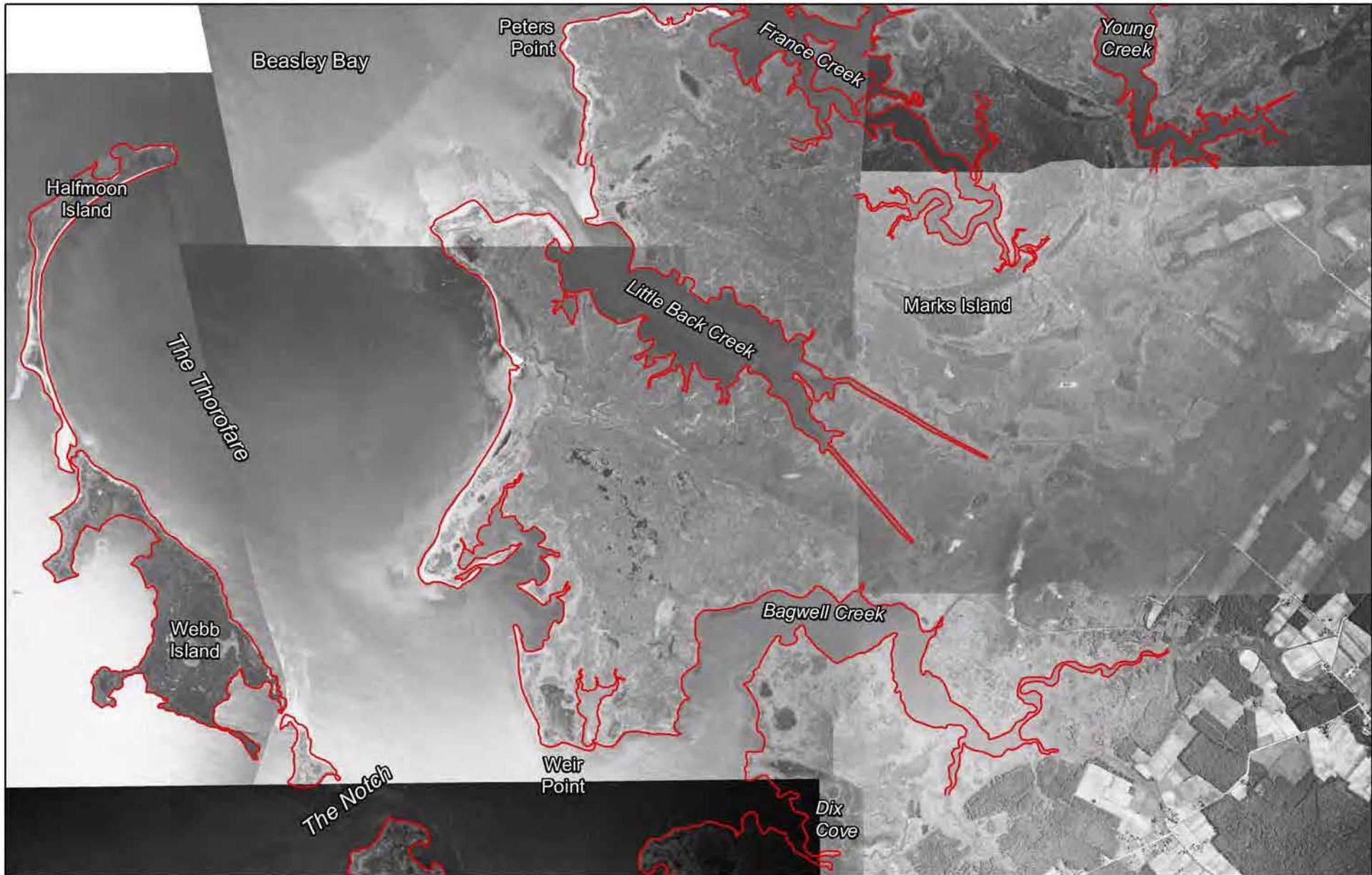
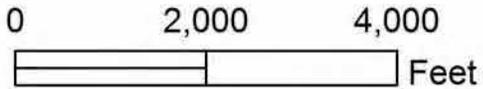


Photo Date: 2013

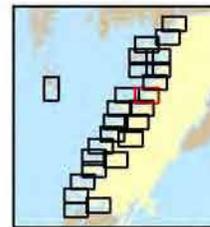


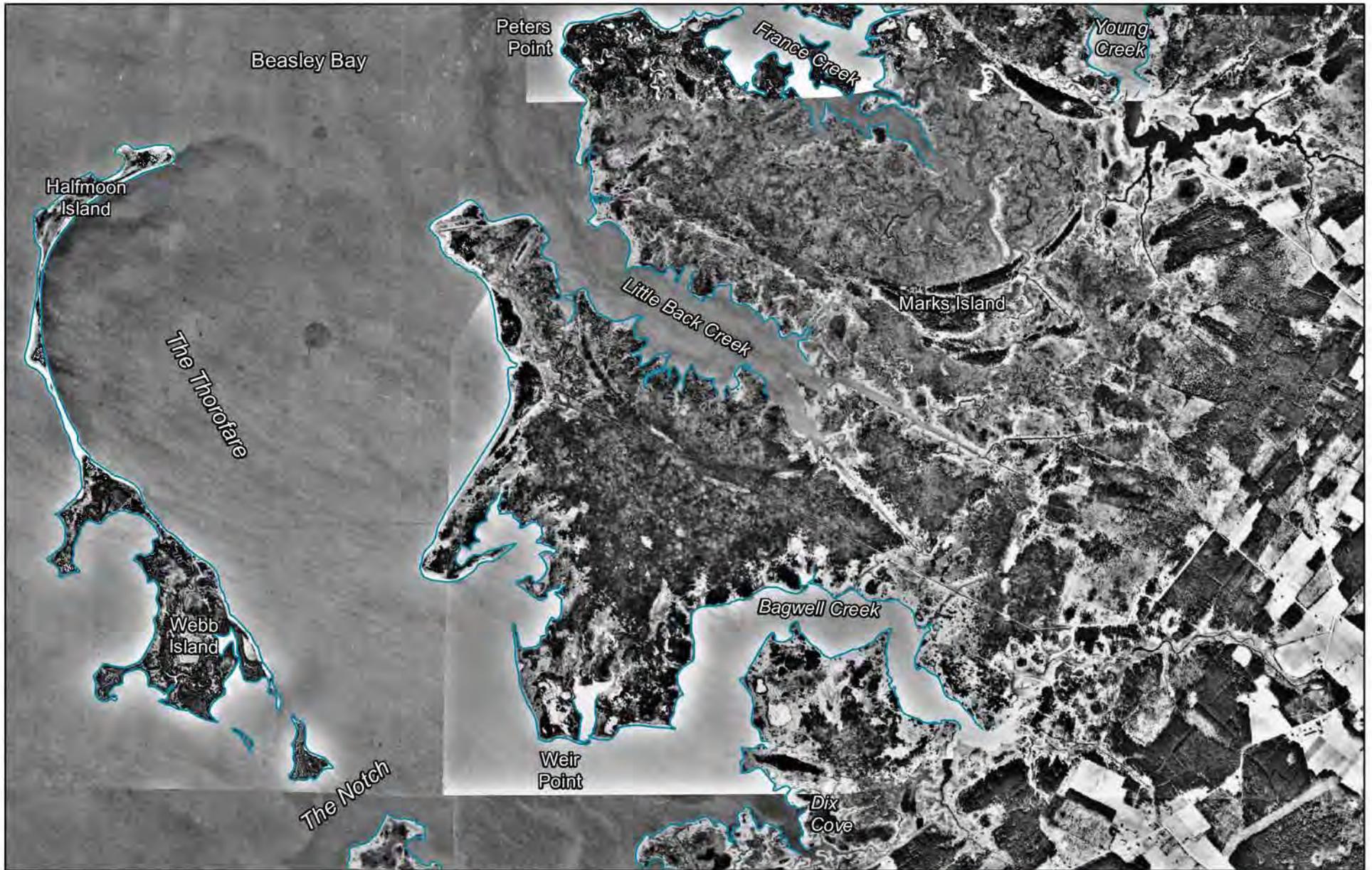
Legend
 — Shoreline 1938



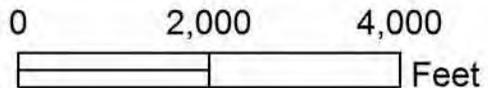
**Accomack County, Virginia
 Plate 10**

Photo Date: 1938



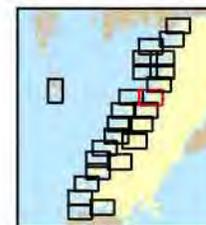


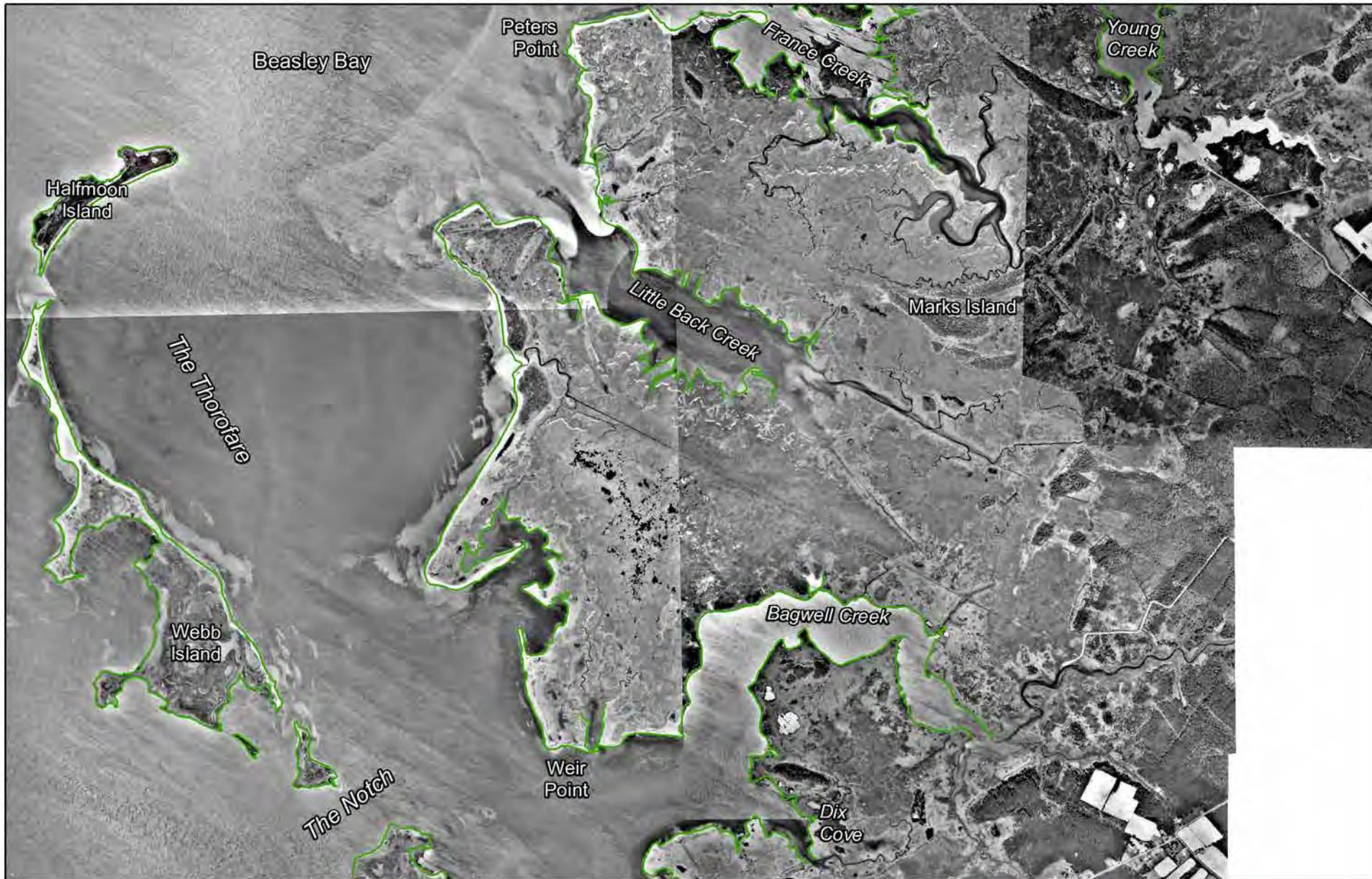
Legend
 — Shoreline 1949



**Accomack County, Virginia
 Plate 10**

Photo Date: 1949





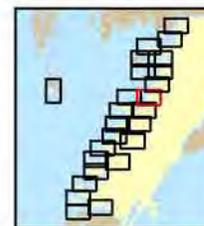
Legend
 — Shoreline 1963



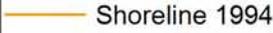
0 2,000 4,000
 Feet

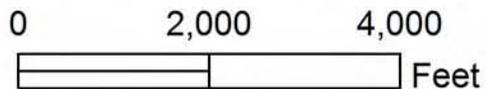
**Accomack County, Virginia
 Plate 10**

Photo Date: 1963



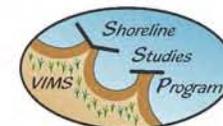


Legend
 Shoreline 1994



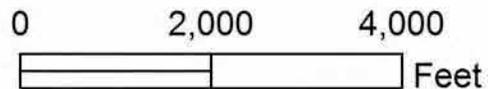
Accomack County, Virginia Plate 10

Photo Date: 1994



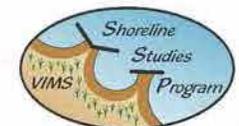
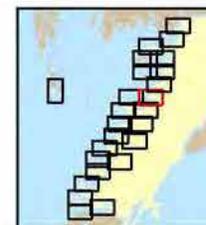


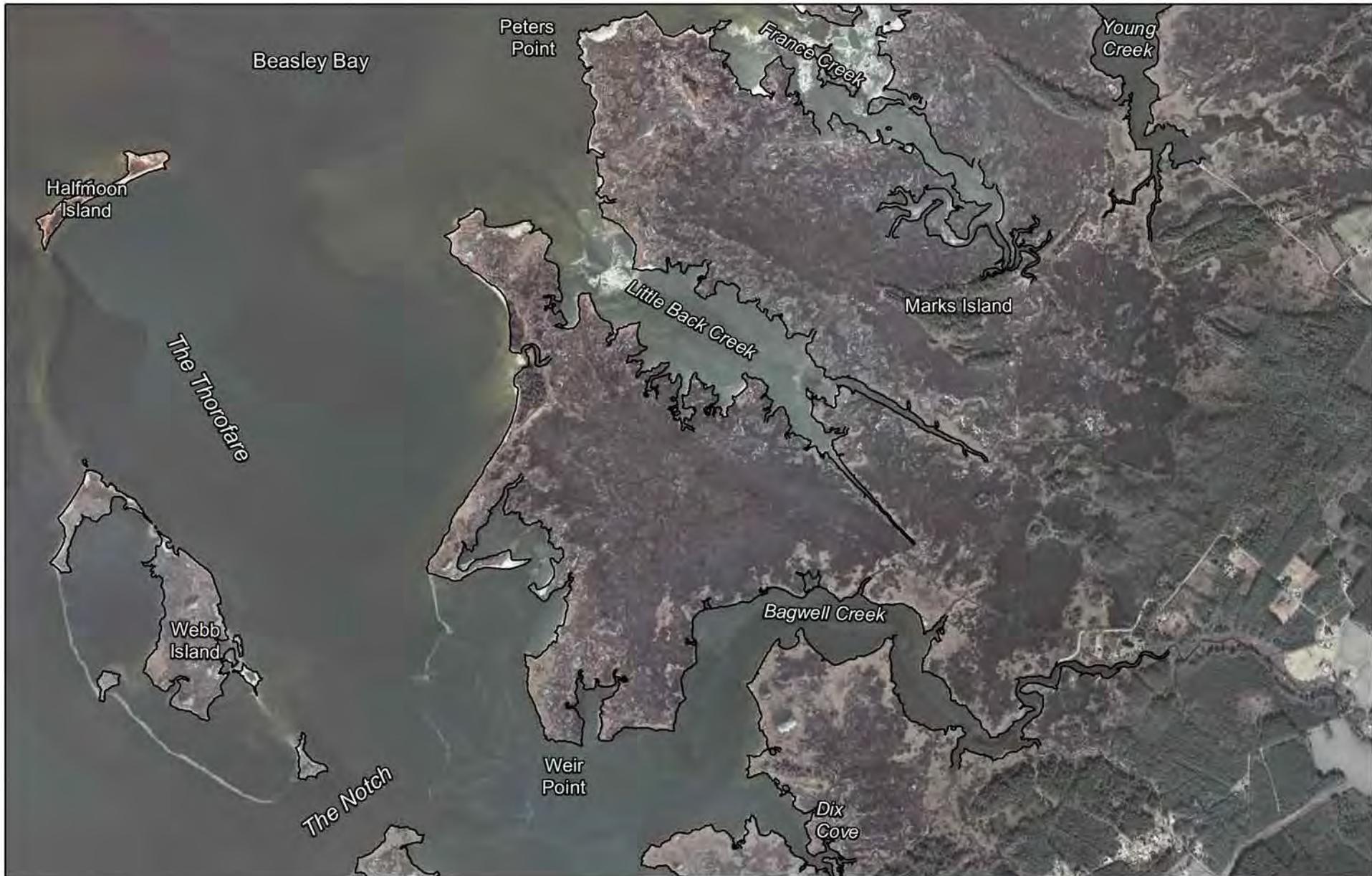
Legend
 — Shoreline 2002



**Accomack County, Virginia
 Plate 10**

Photo Date: 2002





Legend
 — Shoreline 2009

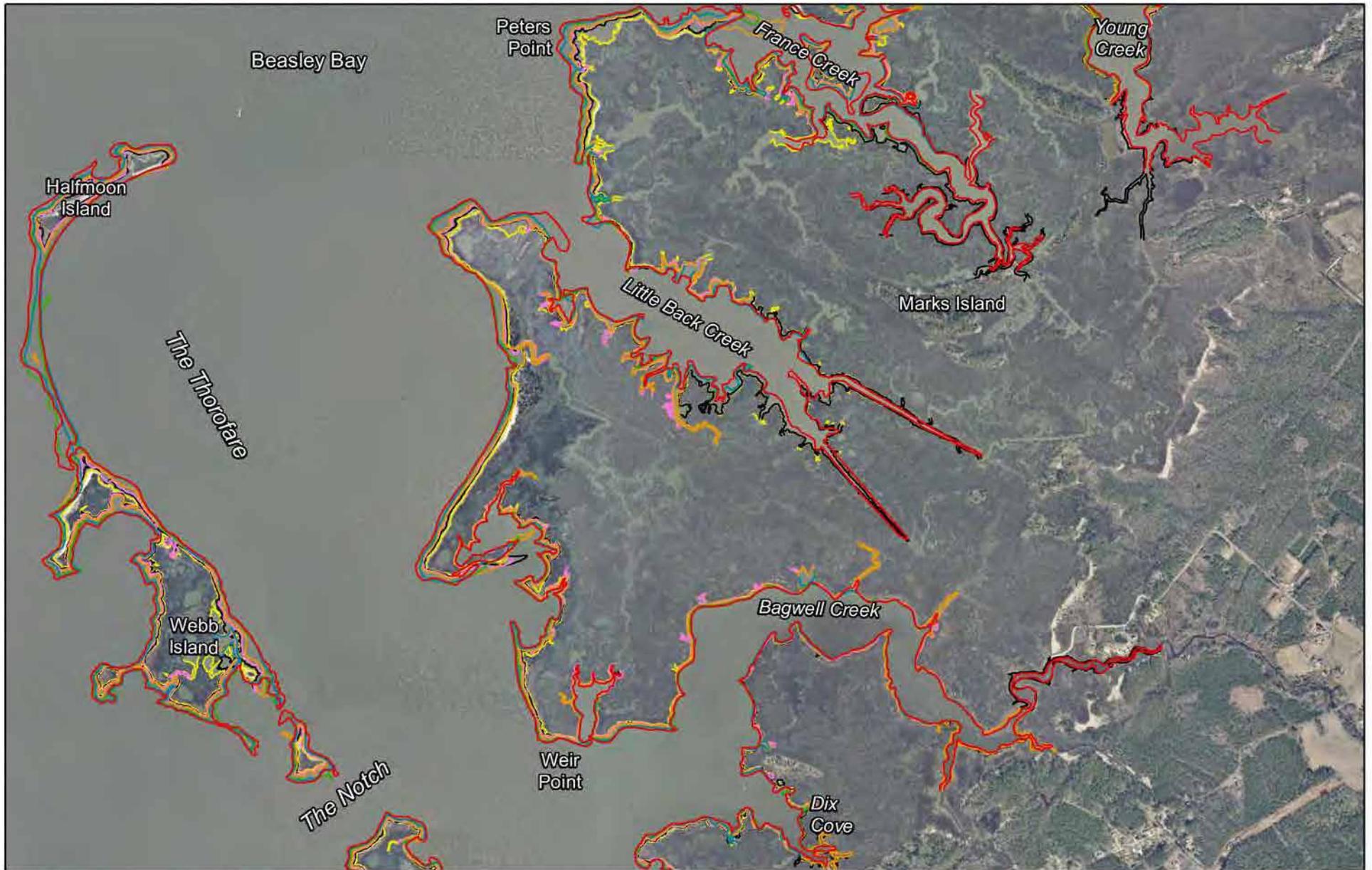


0 2,000 4,000
 Feet

Accomack County, Virginia Plate 10

Photo Date: 2009





Legend

- Shoreline 1938 — Shoreline 2002
- Shoreline 1949 — Shoreline 2009
- Shoreline 1963 — Shoreline 2013
- Shoreline 1994

**Accomack County, Virginia
Plate 10**

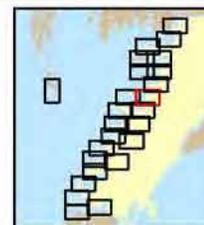
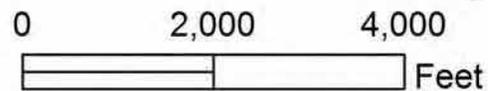
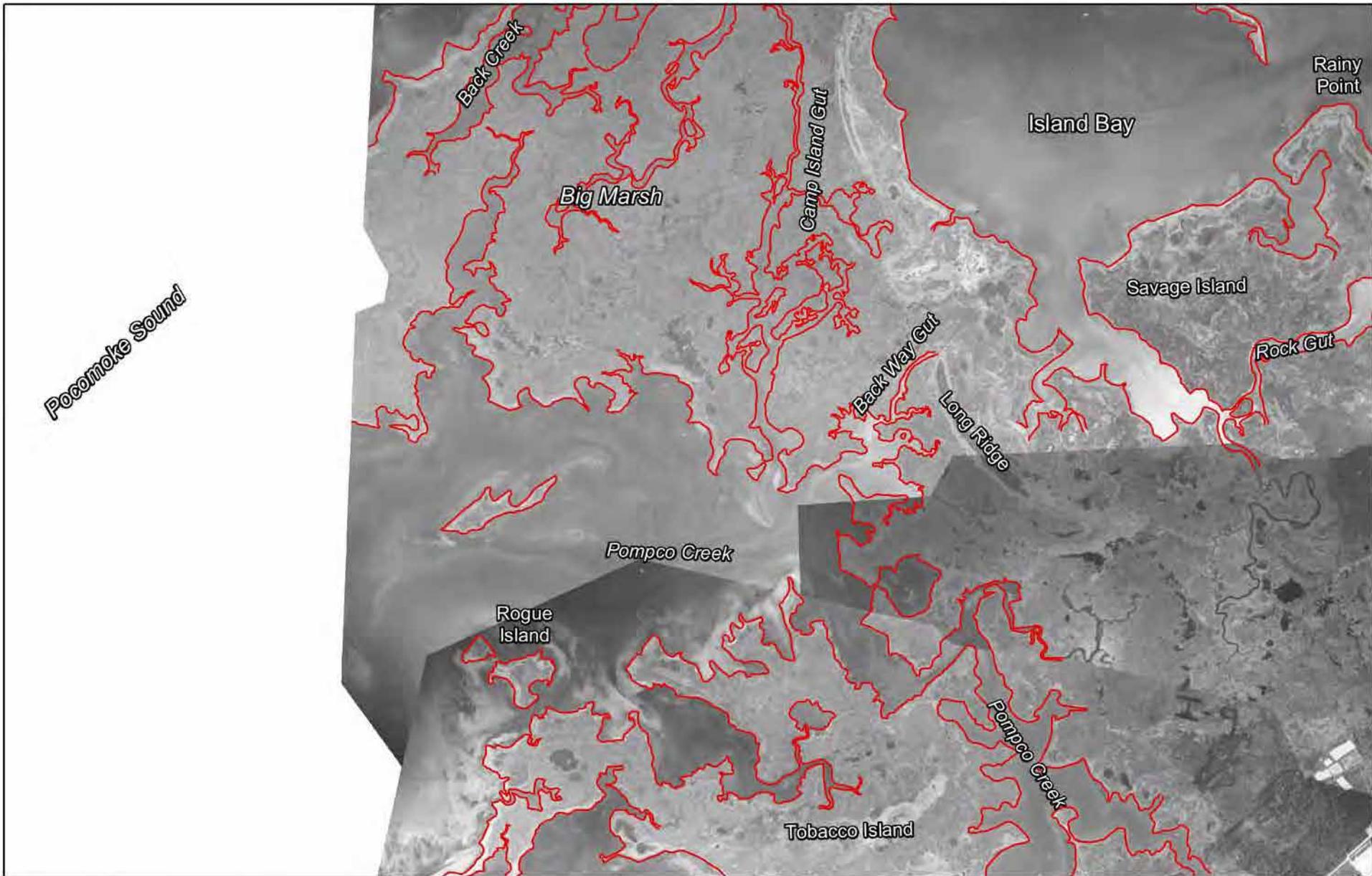


Photo Date: 2013



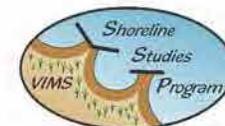
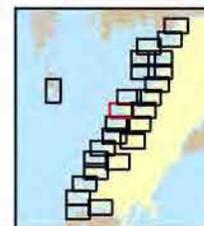
Legend
 — Shoreline 1938

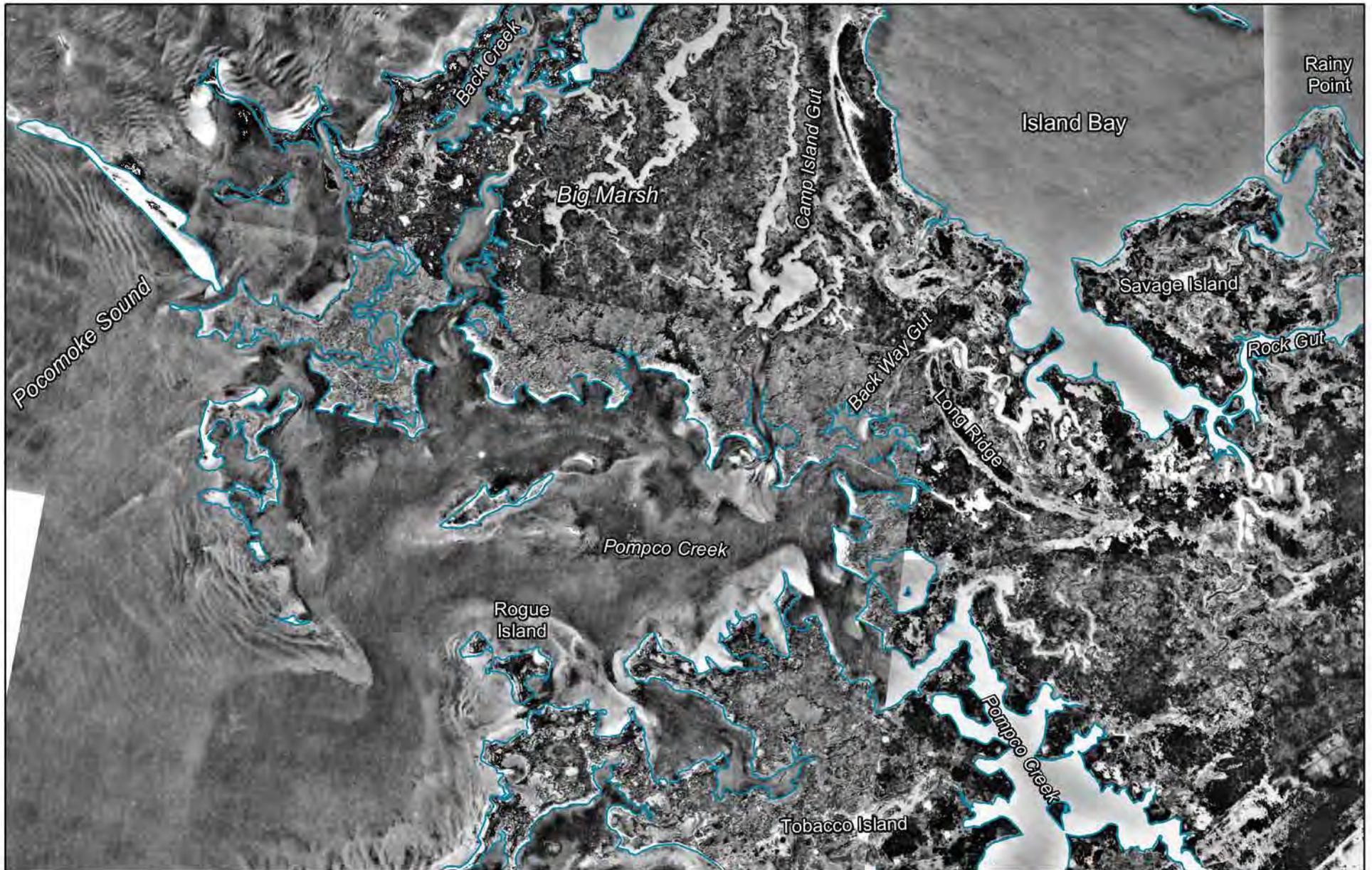


0 2,000 4,000
 Feet

Accomack County, Virginia Plate 11

Photo Date: 1938





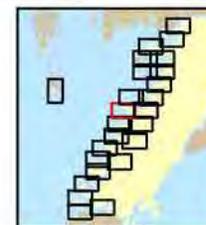
Legend
 — Shoreline 1949

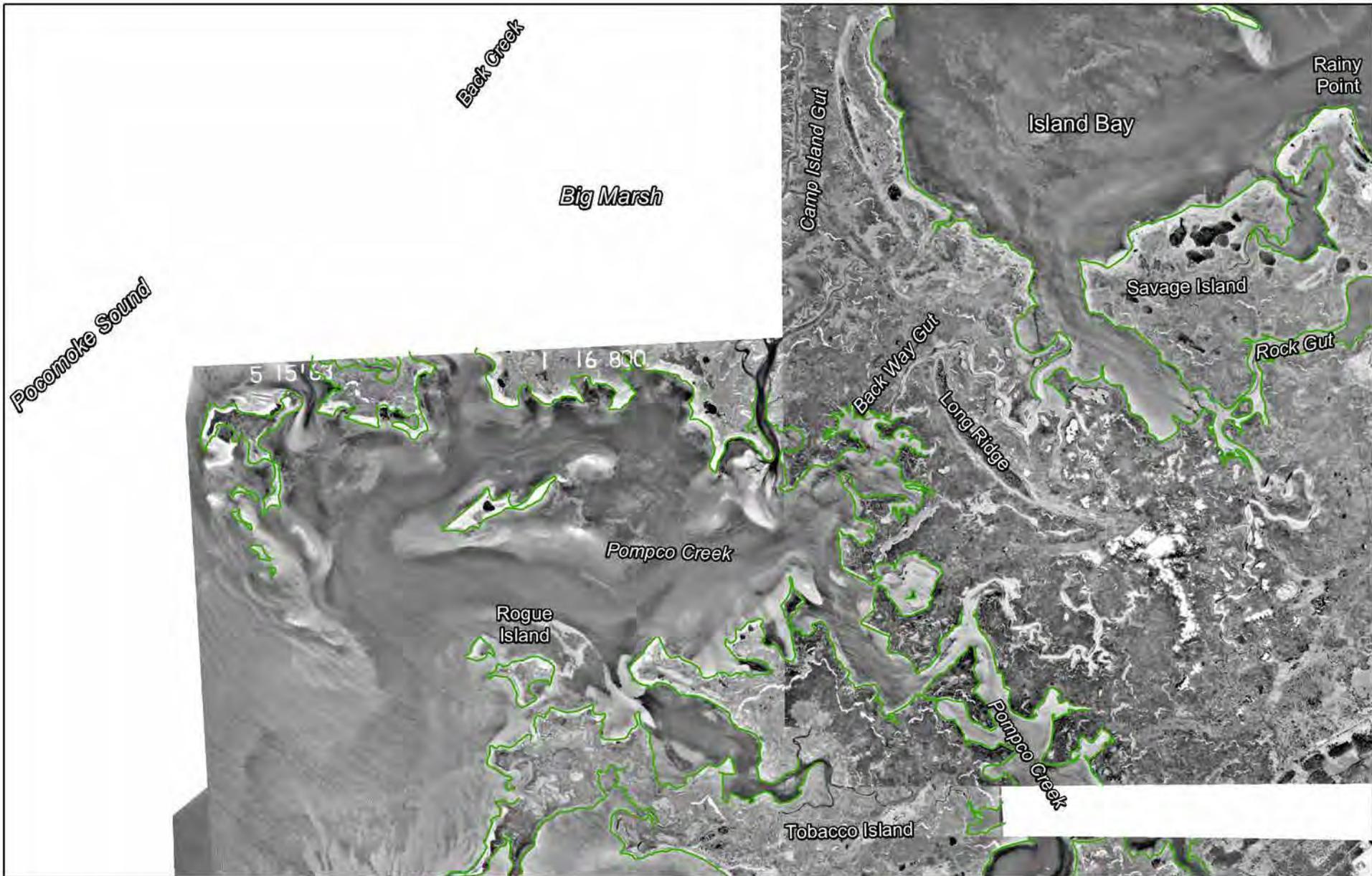


0 2,000 4,000
 Feet

Accomack County, Virginia Plate 11

Photo Date: 1949



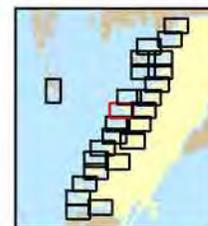
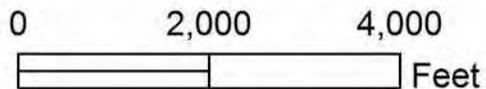


Legend
 — Shoreline 1963



**Accomack County, Virginia
 Plate 11**

Photo Date: 1963





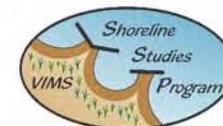
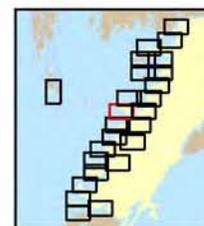
Legend
 — Shoreline 1994



0 2,000 4,000
 Feet

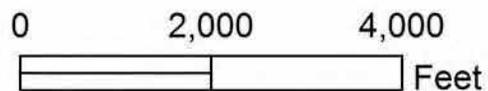
Accomack County, Virginia Plate 11

Photo Date: 1994



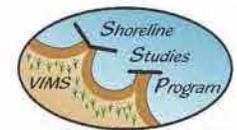
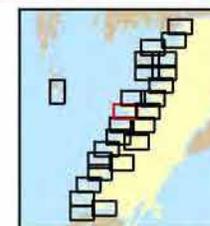


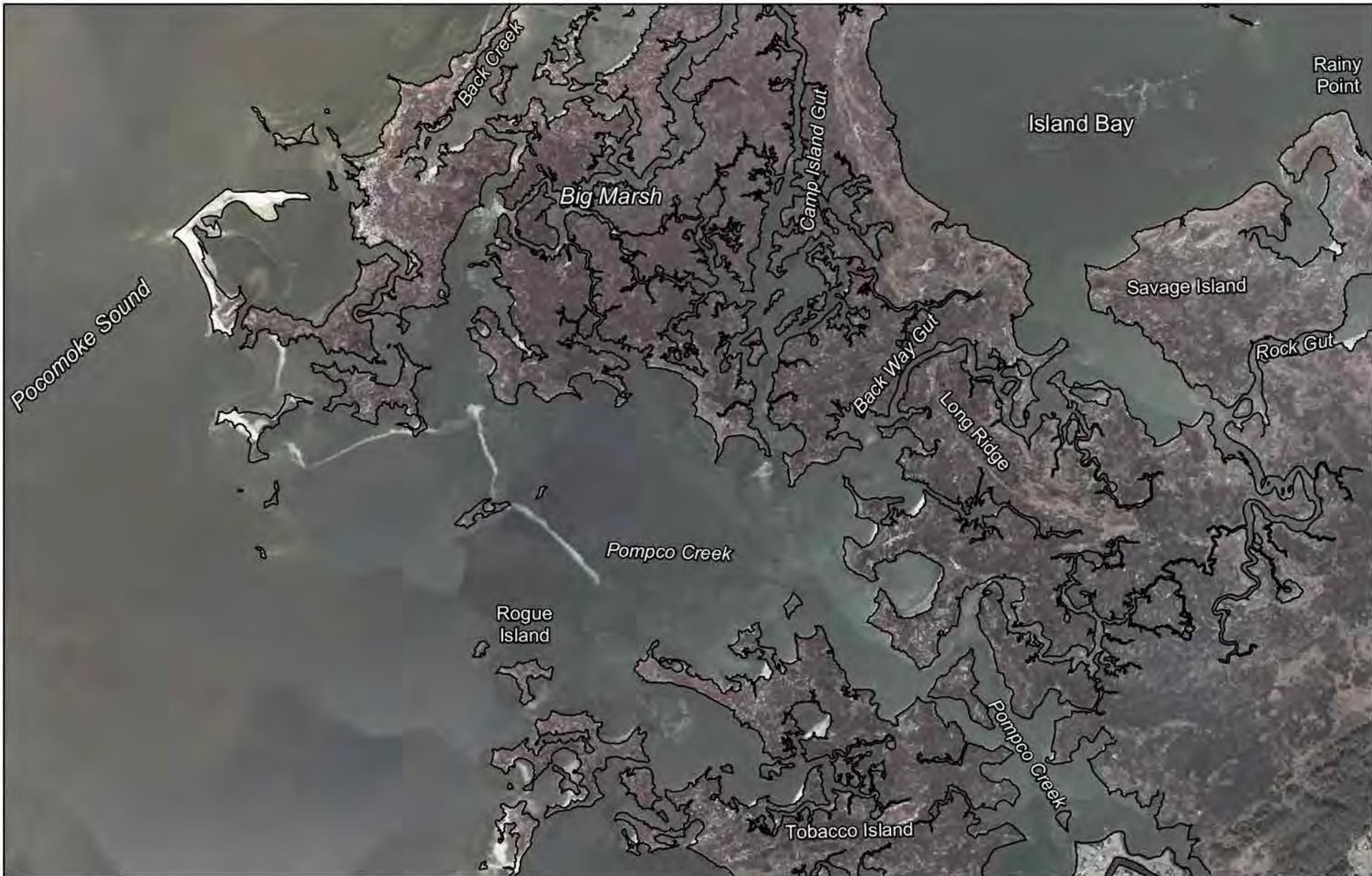
Legend
 — Shoreline 2002



**Accomack County, Virginia
 Plate 11**

Photo Date: 2002





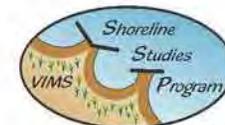
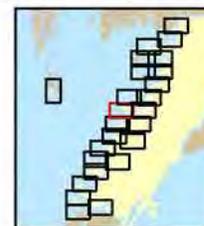
Legend
 — Shoreline 2009

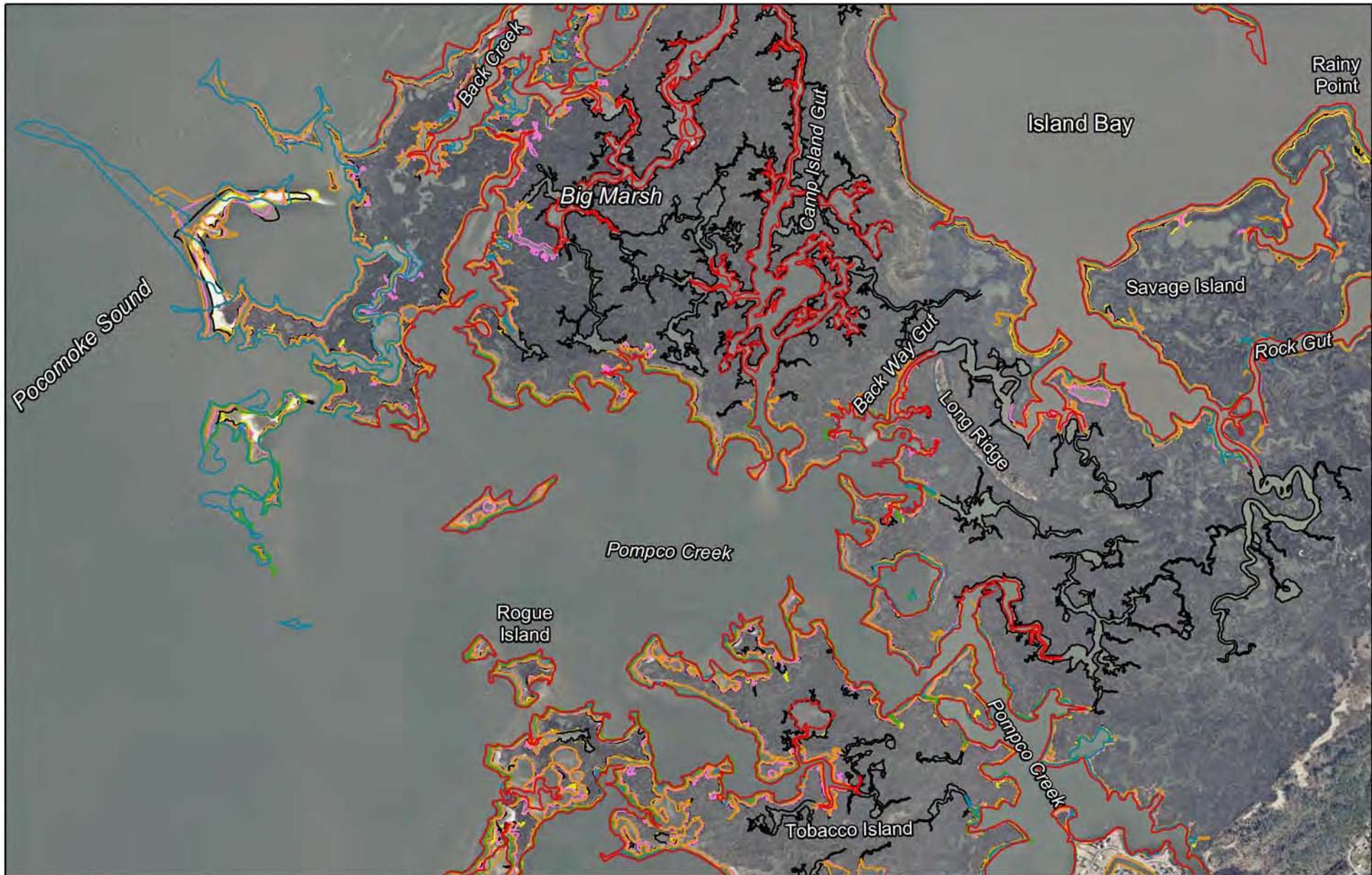


0 2,000 4,000
 Feet

Accomack County, Virginia Plate 11

Photo Date: 2009





Legend

- Shoreline 1938 — Shoreline 2002
- Shoreline 1949 — Shoreline 2009
- Shoreline 1963 — Shoreline 2013
- Shoreline 1994

**Accomack County, Virginia
Plate 11**

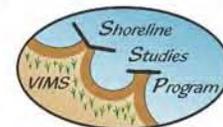
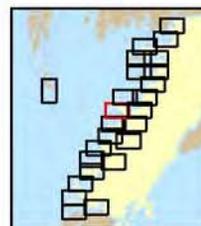
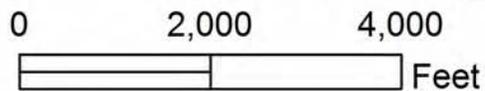


Photo Date: 2013



Legend
 — Shoreline 1938



0 2,000 4,000
 Feet

Accomack County, Virginia Plate 12

Photo Date: 1938





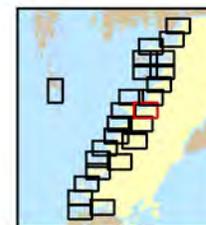
Legend
 — Shoreline 1949

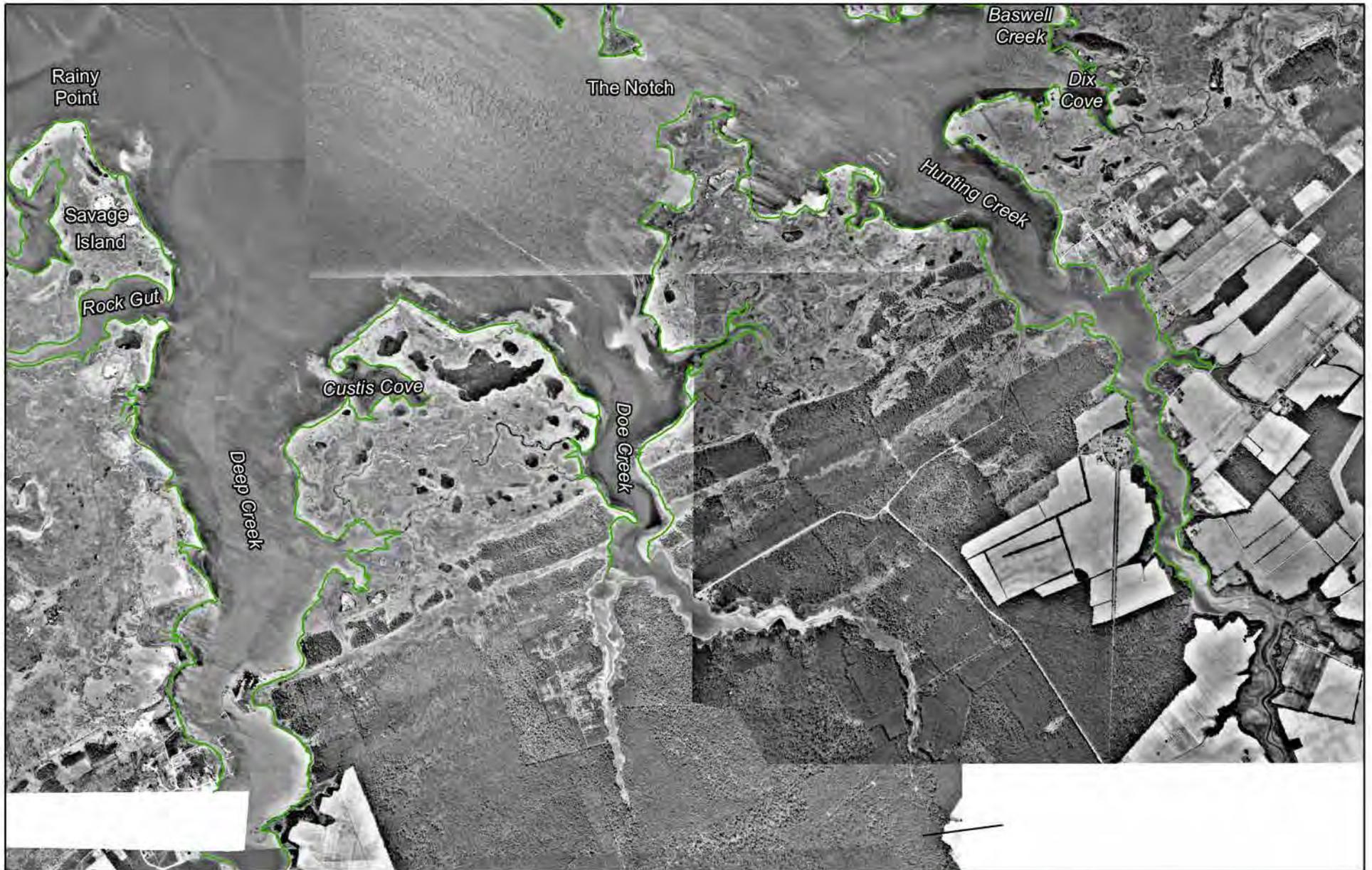


0 2,000 4,000
 Feet

Accomack County, Virginia Plate 12

Photo Date: 1949





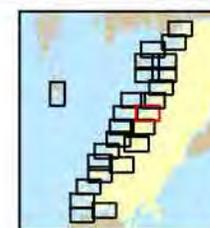
Legend
 — Shoreline 1963



0 2,000 4,000
 Feet

Accomack County, Virginia Plate 12

Photo Date: 1963





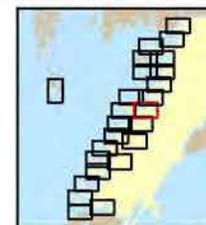
Legend
 — Shoreline 1994



0 2,000 4,000
 Feet

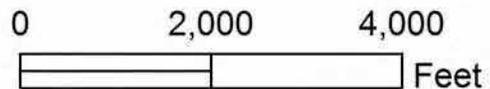
Accomack County, Virginia Plate 12

Photo Date: 1994



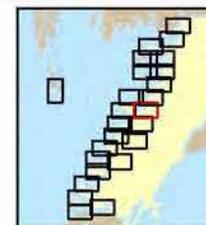


Legend
 — Shoreline 2002



**Accomack County, Virginia
 Plate 12**

Photo Date: 2002





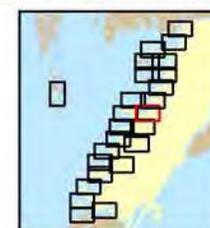
Legend
 — Shoreline 2009



0 2,000 4,000
 Feet

Accomack County, Virginia Plate 12

Photo Date: 2009





Legend

- Shoreline 1938
- Shoreline 1949
- Shoreline 1963
- Shoreline 1994
- Shoreline 2002
- Shoreline 2009
- Shoreline 2013

**Accomack County, Virginia
Plate 12**

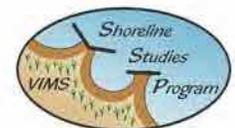
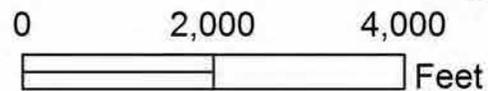
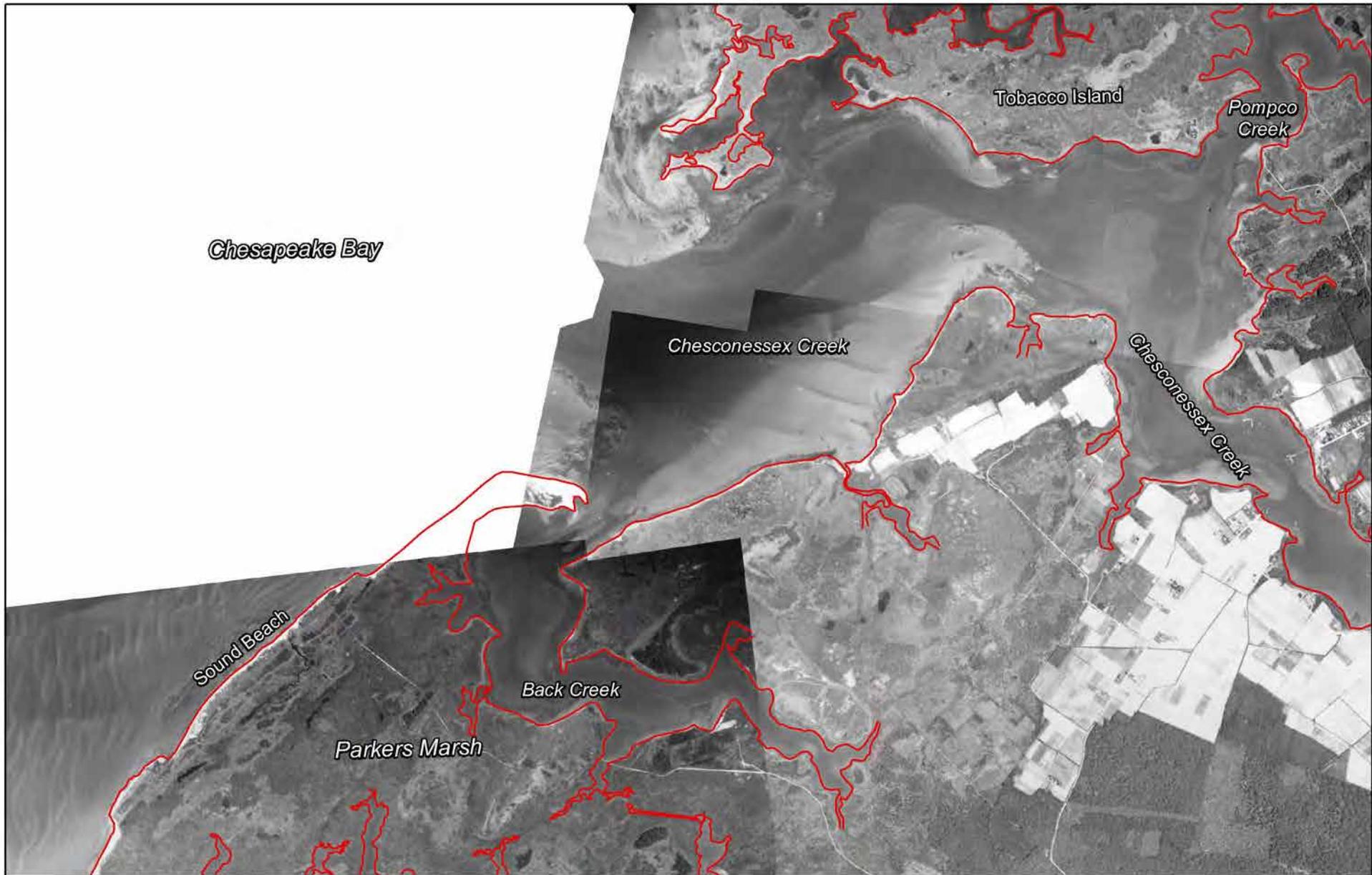


Photo Date: 2013



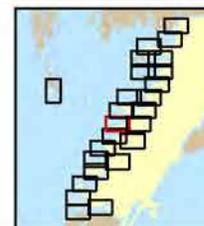
Legend
 — Shoreline 1938



0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 13**

Photo Date: 1938





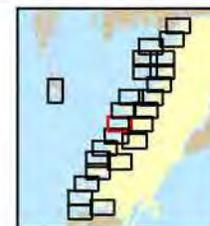
Legend
 — Shoreline 1949

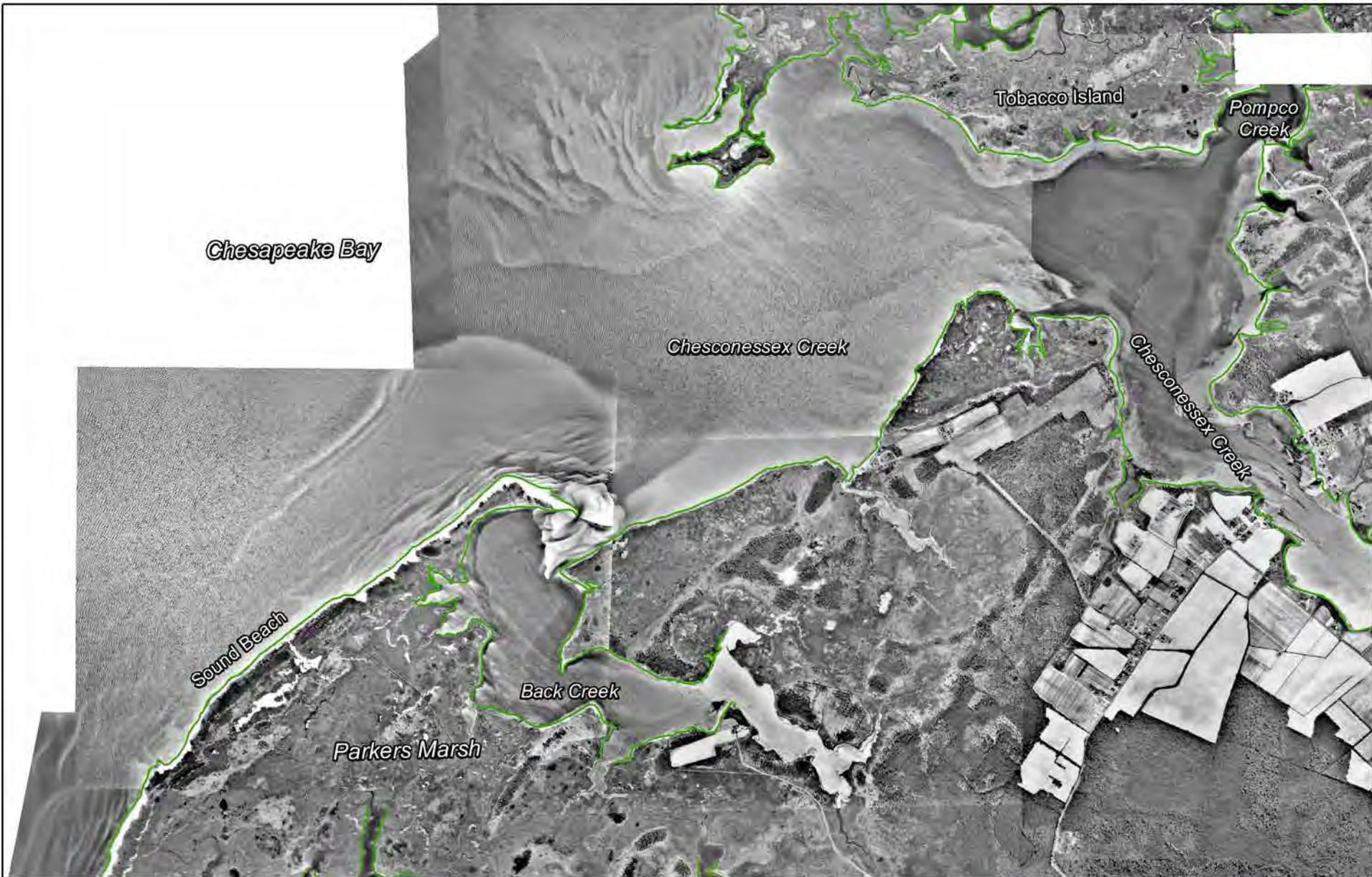


0 2,000 4,000
 Feet

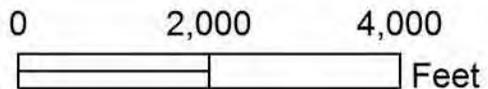
**Accomack County, Virginia
 Plate 13**

Photo Date: 1949



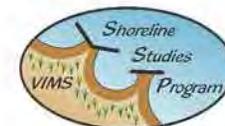
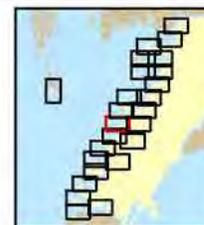


Legend
 Shoreline 1963



**Accomack County, Virginia
 Plate 13**

Photo Date: 1963





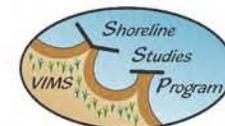
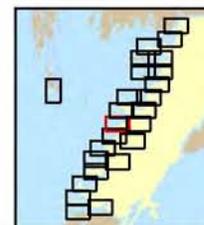
Legend
 — Shoreline 1994



0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 13**

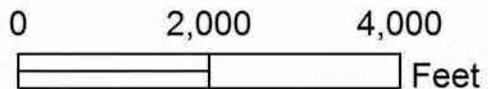
Photo Date: 1994





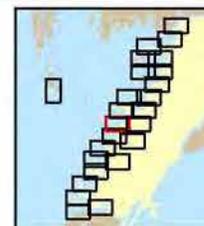
Legend

— Shoreline 2002



**Accomack County, Virginia
Plate 13**

Photo Date: 2002





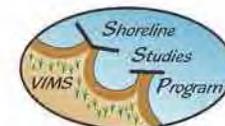
Legend
 — Shoreline 2009

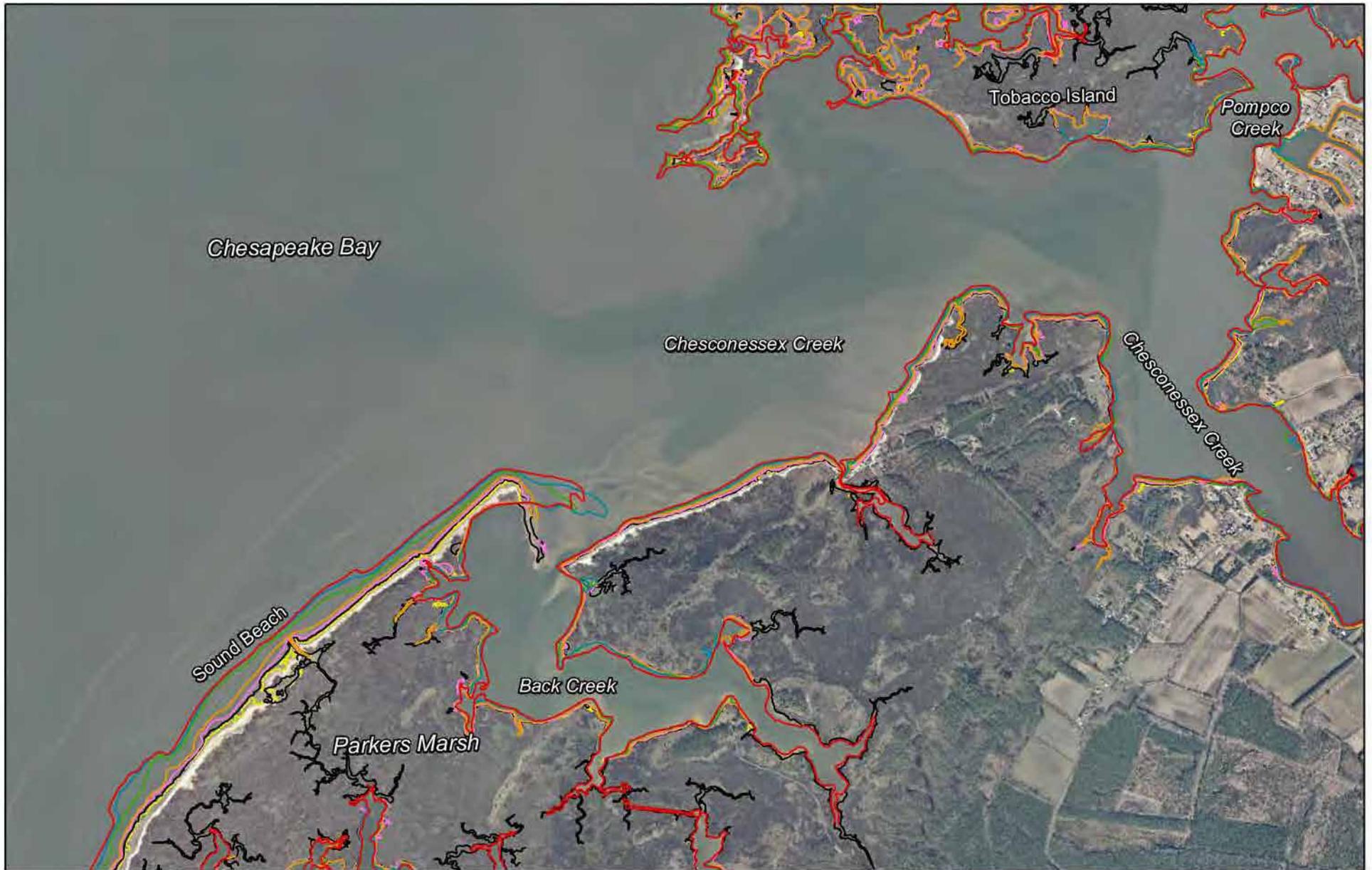


0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 13**

Photo Date: 2009





Legend

- Shoreline 1938 — Shoreline 2002
- Shoreline 1949 — Shoreline 2009
- Shoreline 1963 — Shoreline 2013
- Shoreline 1994

**Accomack County, Virginia
Plate 13**

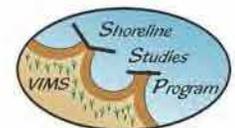
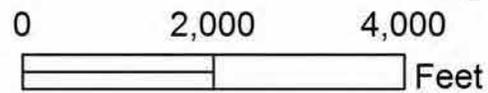
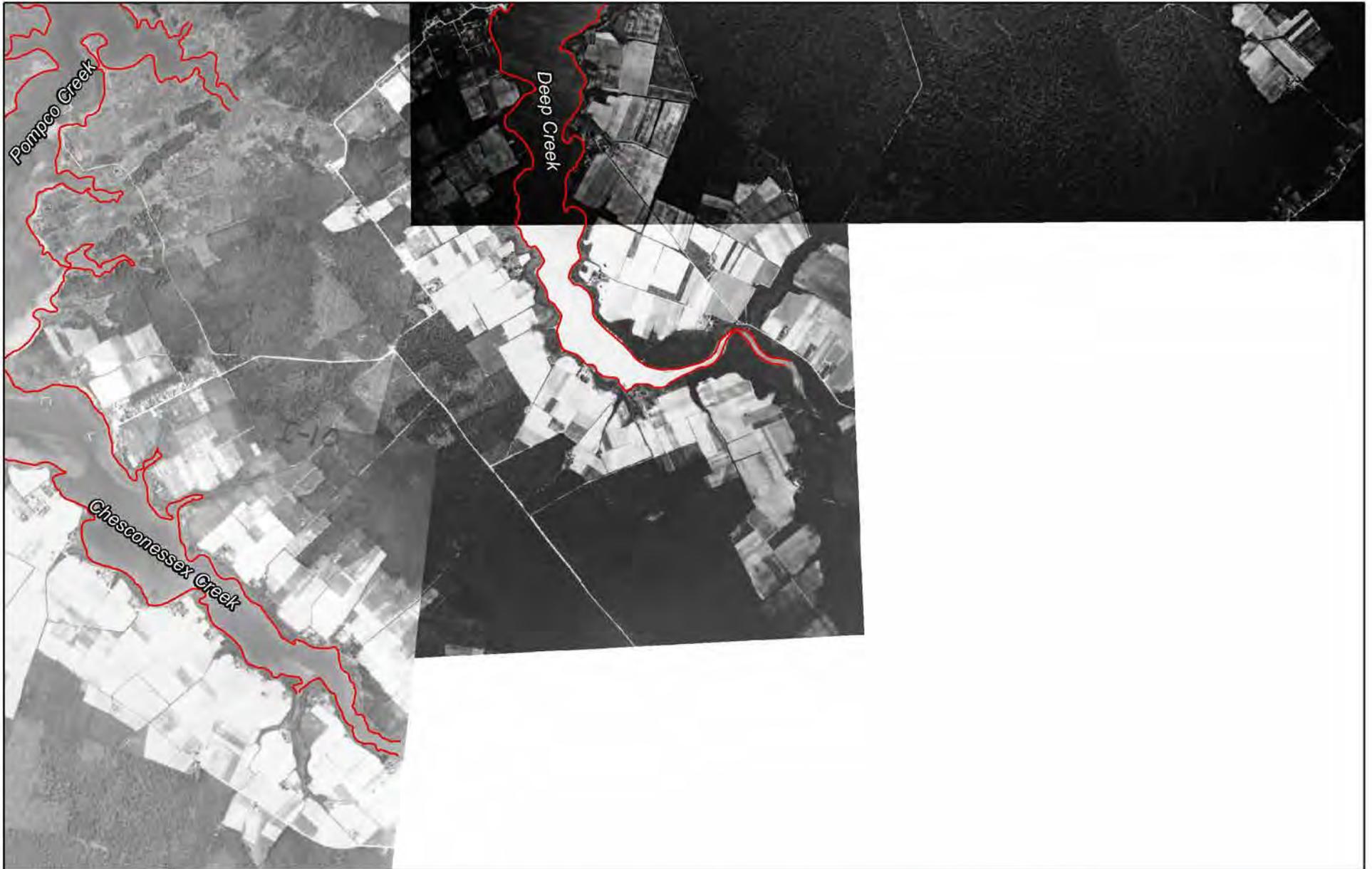


Photo Date: 2013 B-91



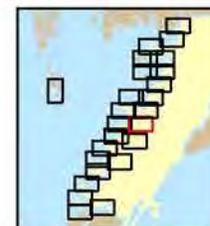
Legend
— Shoreline 1938



0 2,000 4,000
Feet

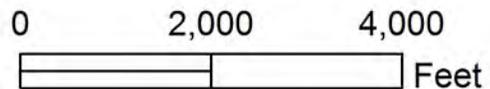
Accomack County, Virginia Plate 14

Photo Date: 1938



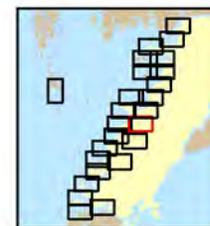


Legend
— Shoreline 1949



Accomack County, Virginia Plate 14

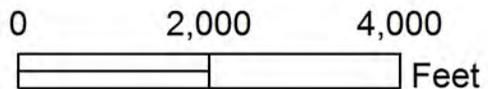
Photo Date: 1949





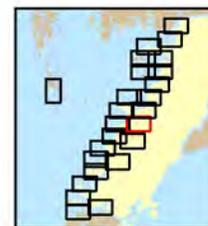
Legend

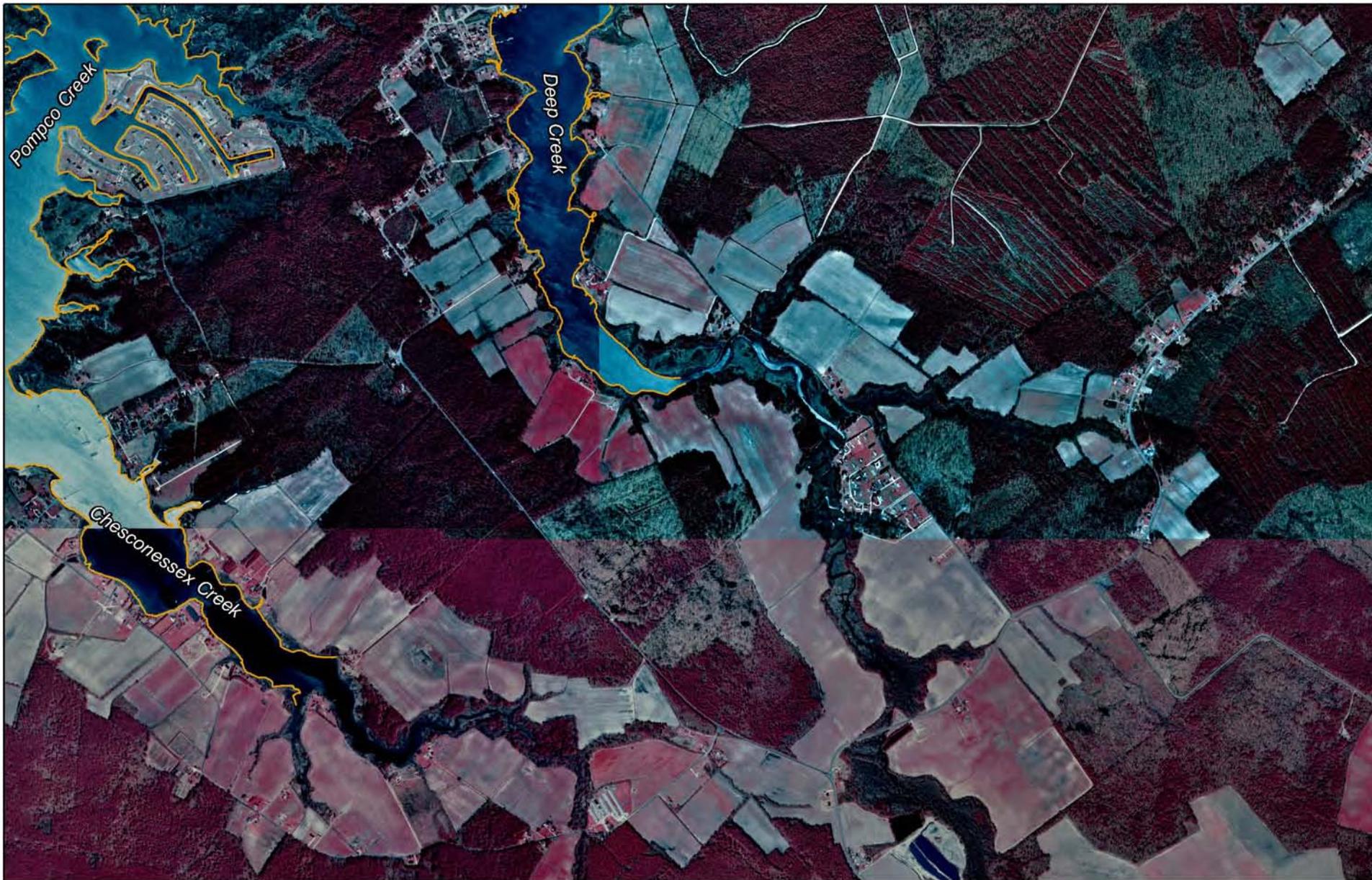
— Shoreline 1963



Accomack County, Virginia Plate 14

Photo Date: 1963





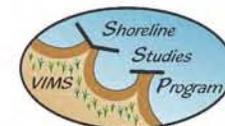
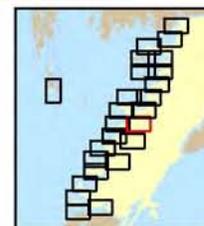
Legend
 — Shoreline 1994



0 2,000 4,000
 Feet

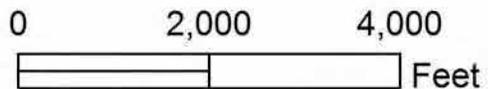
Accomack County, Virginia Plate 14

Photo Date: 1994



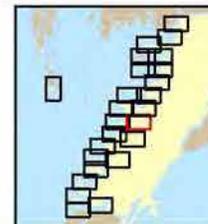


Legend
— Shoreline 2002



Accomack County, Virginia Plate 14

Photo Date: 2002





Legend
— Shoreline 2009

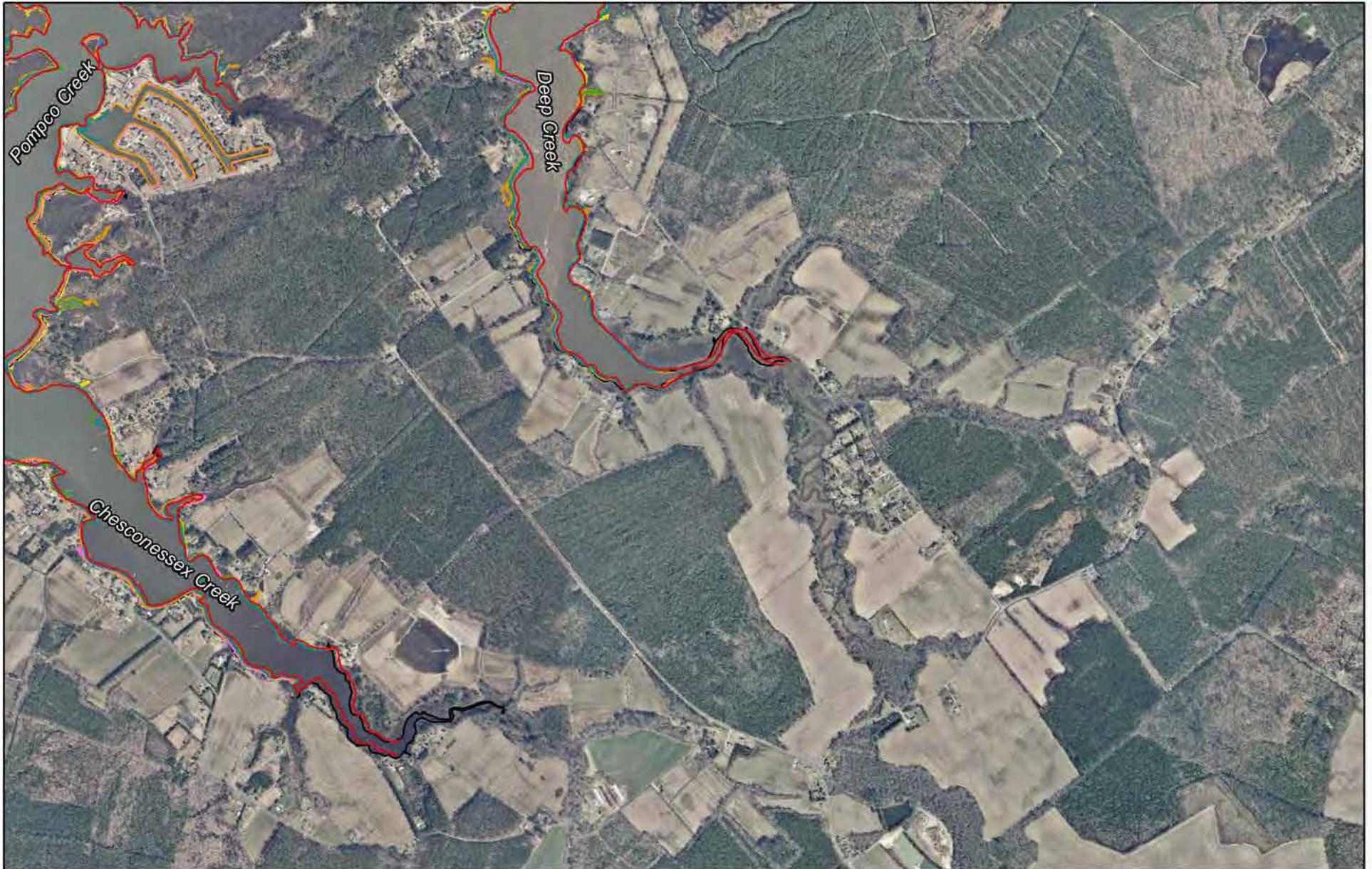


0 2,000 4,000
Feet

Accomack County, Virginia Plate 14

Photo Date: 2009





Legend

- Shoreline 1938 — Shoreline 2002
- Shoreline 1949 — Shoreline 2009
- Shoreline 1963 — Shoreline 2013
- Shoreline 1994

**Accomack County, Virginia
Plate 14**

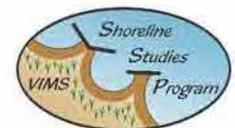
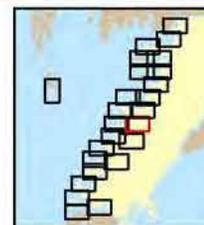
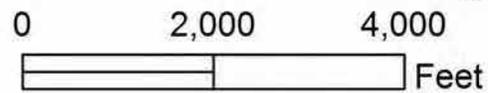
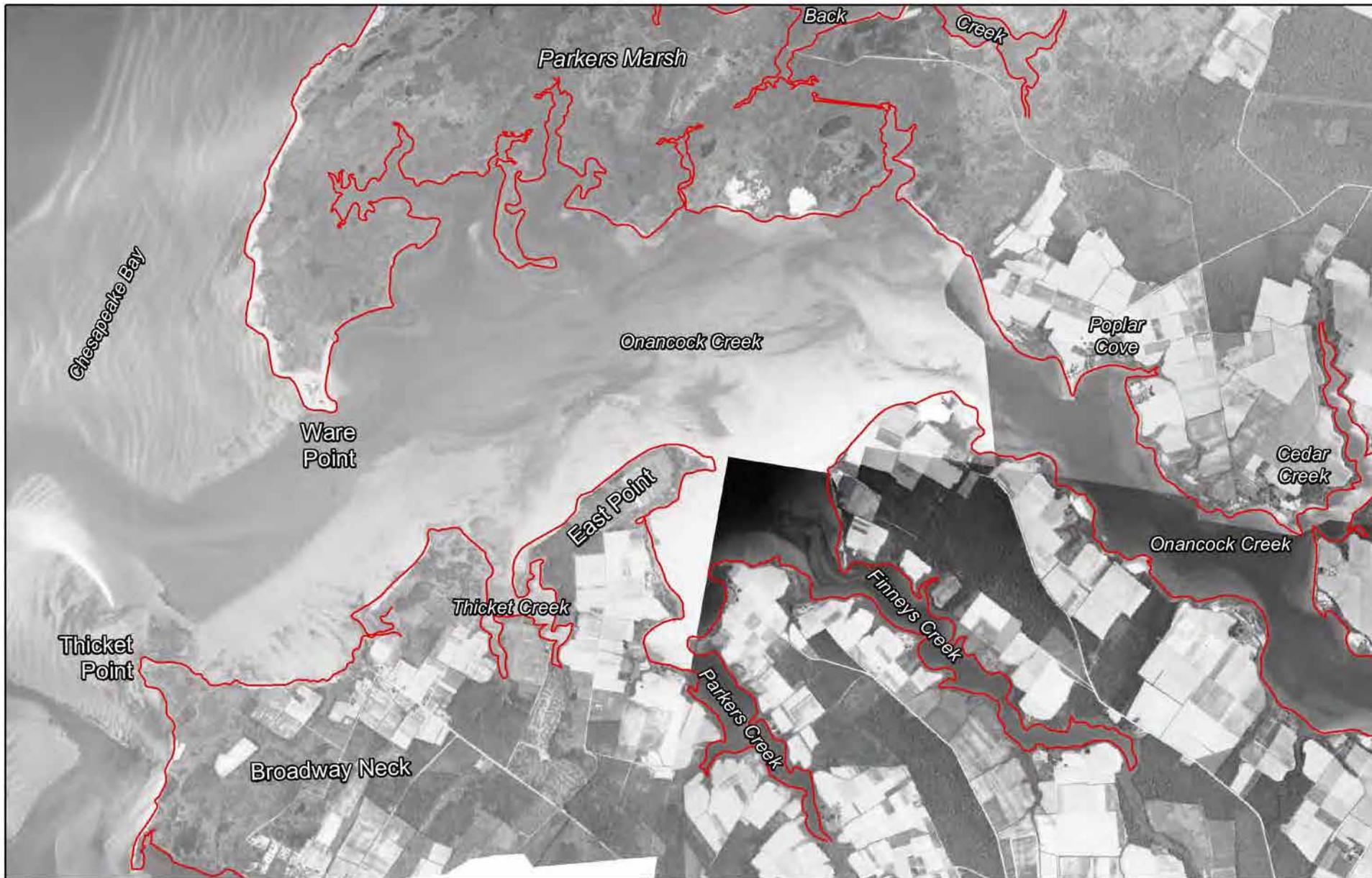


Photo Date: 2013



Legend
 — Shoreline 1938



0 2,000 4,000
 Feet

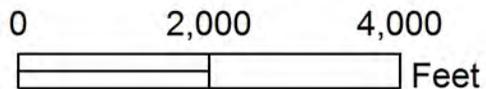
Accomack County, Virginia Plate 15

Photo Date: 1938





Legend
 — Shoreline 1949



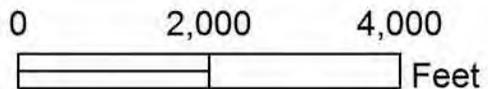
**Accomack County, Virginia
 Plate 15**

Photo Date: 1949



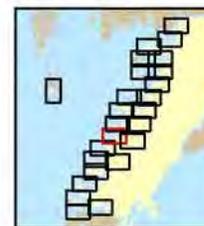


Legend
 — Shoreline 1963



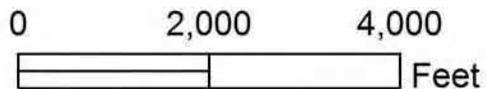
**Accomack County, Virginia
 Plate 15**

Photo Date: 1963



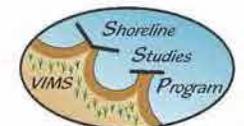
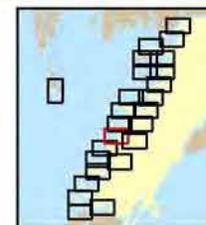


Legend
 — Shoreline 1994



**Accomack County, Virginia
 Plate 15**

Photo Date: 1994





Legend
 — Shoreline 2002

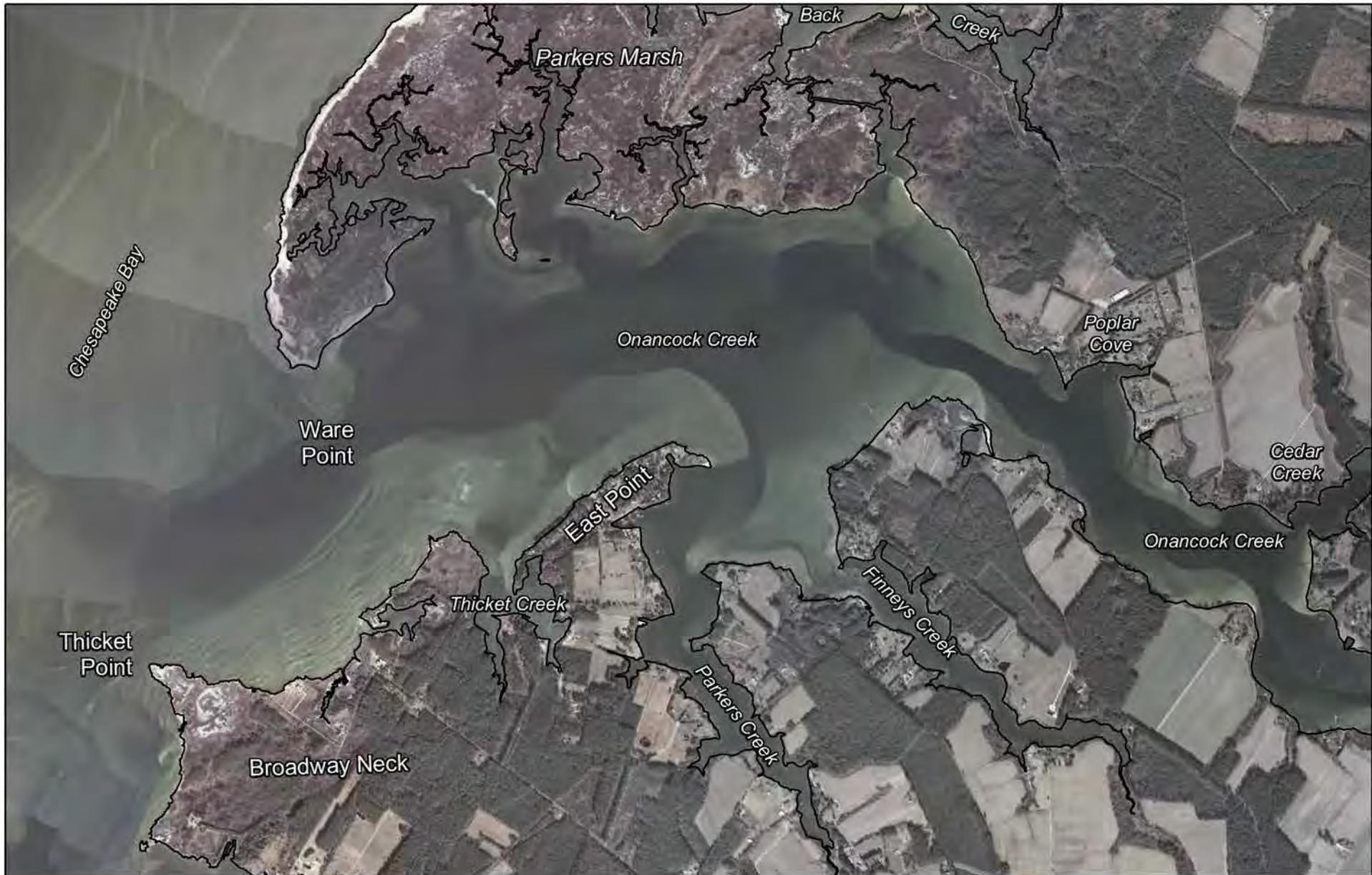


0 2,000 4,000
 Feet

Accomack County, Virginia Plate 15

Photo Date: 2002





Legend
 — Shoreline 2009

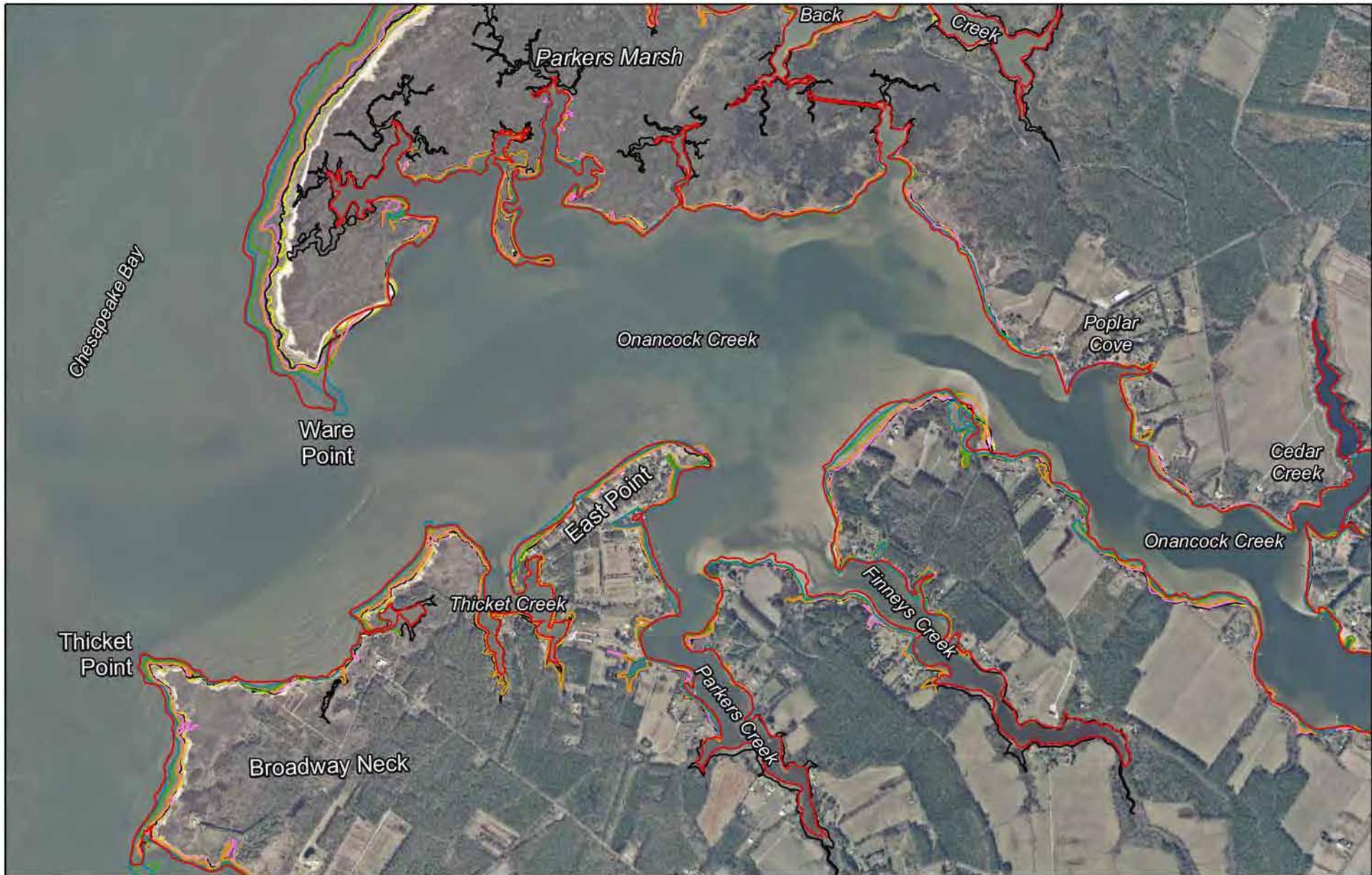


0 2,000 4,000
 Feet

Accomack County, Virginia Plate 15

Photo Date: 2009





Legend

- Shoreline 1938 — Shoreline 2002
- Shoreline 1949 — Shoreline 2009
- Shoreline 1963 — Shoreline 2013
- Shoreline 1994

**Accomack County, Virginia
Plate 15**

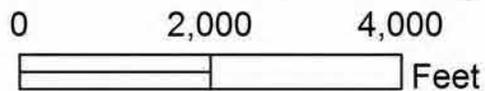


Photo Date: 2013

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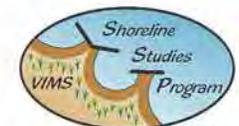
Legend
 — Shoreline 1938



0 2,000 4,000
 Feet

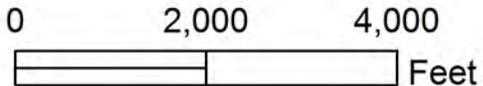
**Accomack County, Virginia
 Plate 16**

Photo Date: 1938



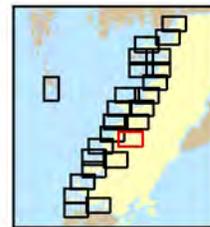


Legend
 — Shoreline 1949



**Accomack County, Virginia
 Plate 16**

Photo Date: 1949





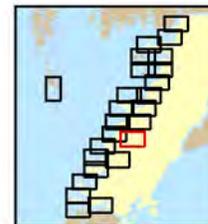
Legend
 — Shoreline 1963



0 2,000 4,000
 Feet

Accomack County, Virginia Plate 16

Photo Date: 1963





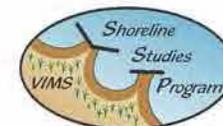
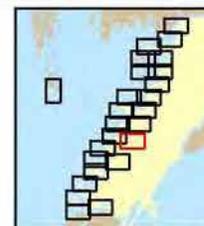
Legend
 — Shoreline 1994



0 2,000 4,000
 Feet

Accomack County, Virginia Plate 16

Photo Date: 1994





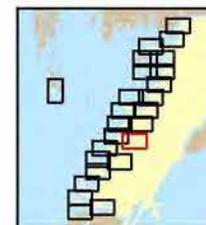
Legend
 — Shoreline 2002



0 2,000 4,000
 Feet

Accomack County, Virginia Plate 16

Photo Date: 2002





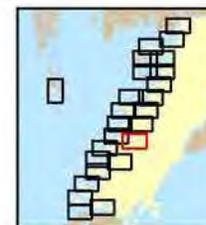
Legend
 — Shoreline 2009

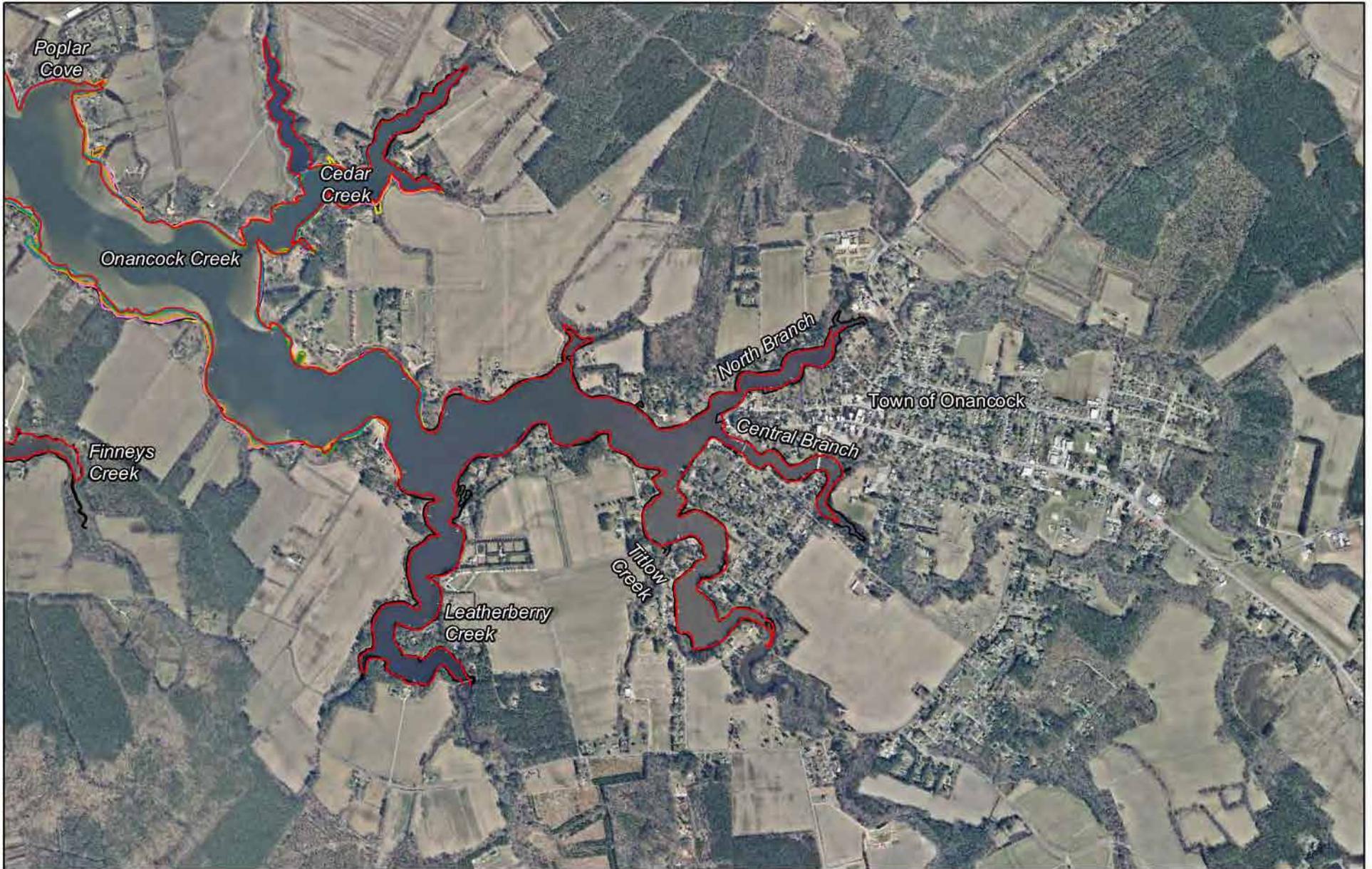


0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 16**

Photo Date: 2009





Legend

- Shoreline 1938
- Shoreline 1949
- Shoreline 1963
- Shoreline 1994
- Shoreline 2002
- Shoreline 2009
- Shoreline 2013

**Accomack County, Virginia
Plate 16**

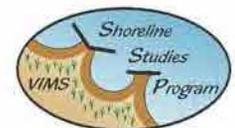
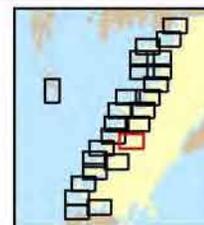
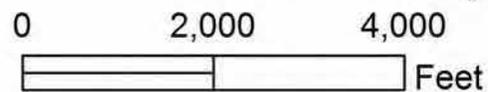
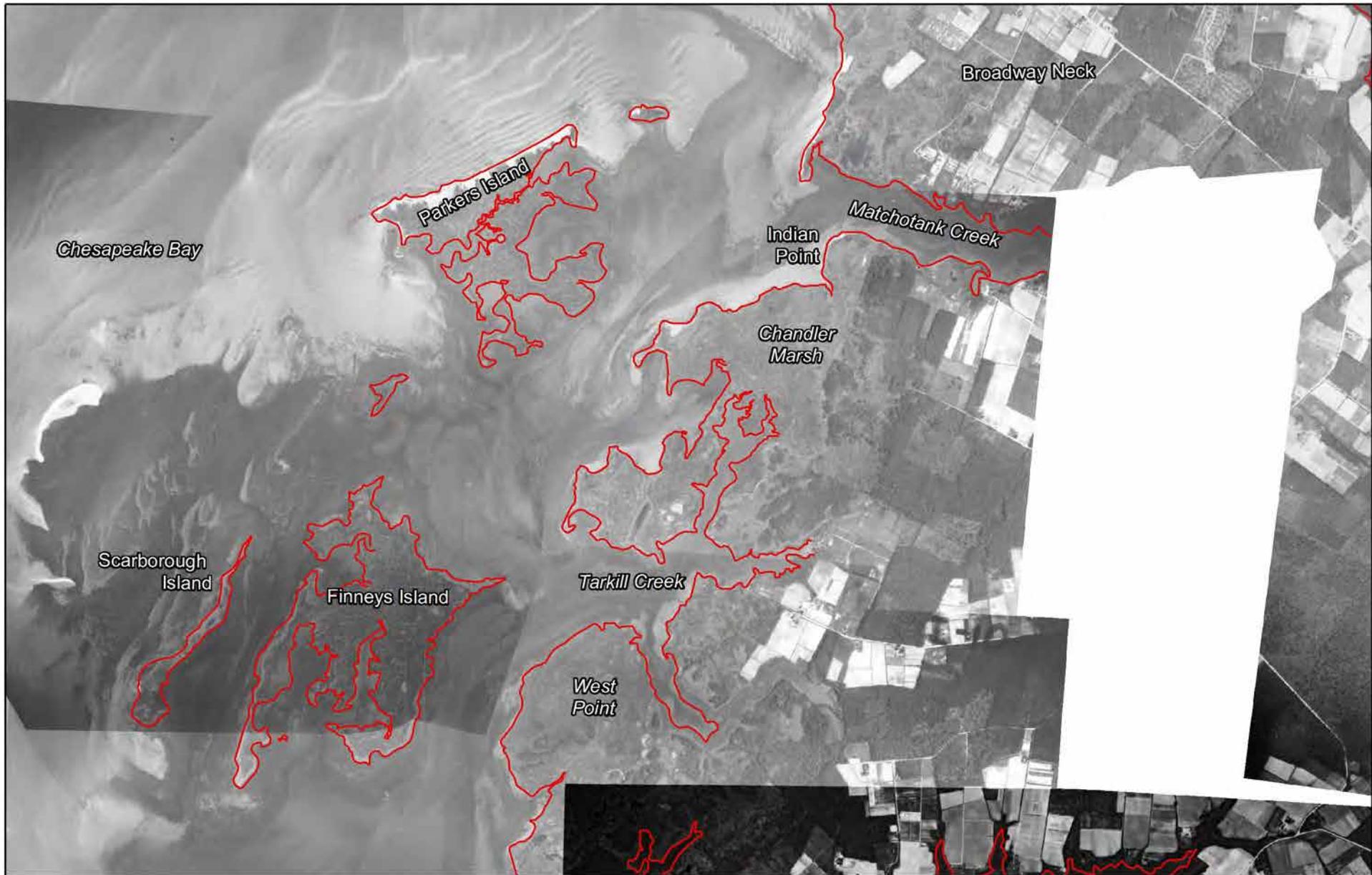


Photo Date: 2013



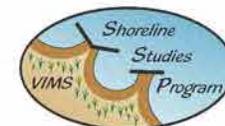
Legend
 — Shoreline 1938



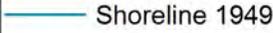
0 2,000 4,000
 Feet

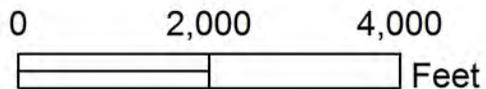
Accomack County, Virginia Plate 17

Photo Date: 1938



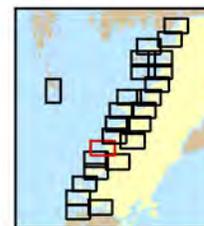


Legend
 Shoreline 1949



**Accomack County, Virginia
 Plate 17**

Photo Date: 1949





Legend
 — Shoreline 1963



0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 17**

Photo Date: 1963





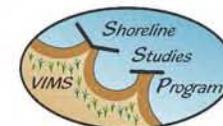
Legend
 — Shoreline 1994



0 2,000 4,000
 Feet

Accomack County, Virginia Plate 17

Photo Date: 1994





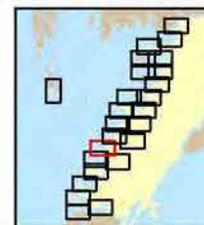
Legend
 — Shoreline 2002



0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 17**

Photo Date: 2002





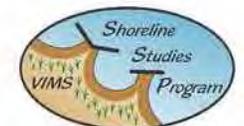
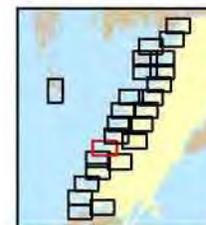
Legend
 — Shoreline 2009

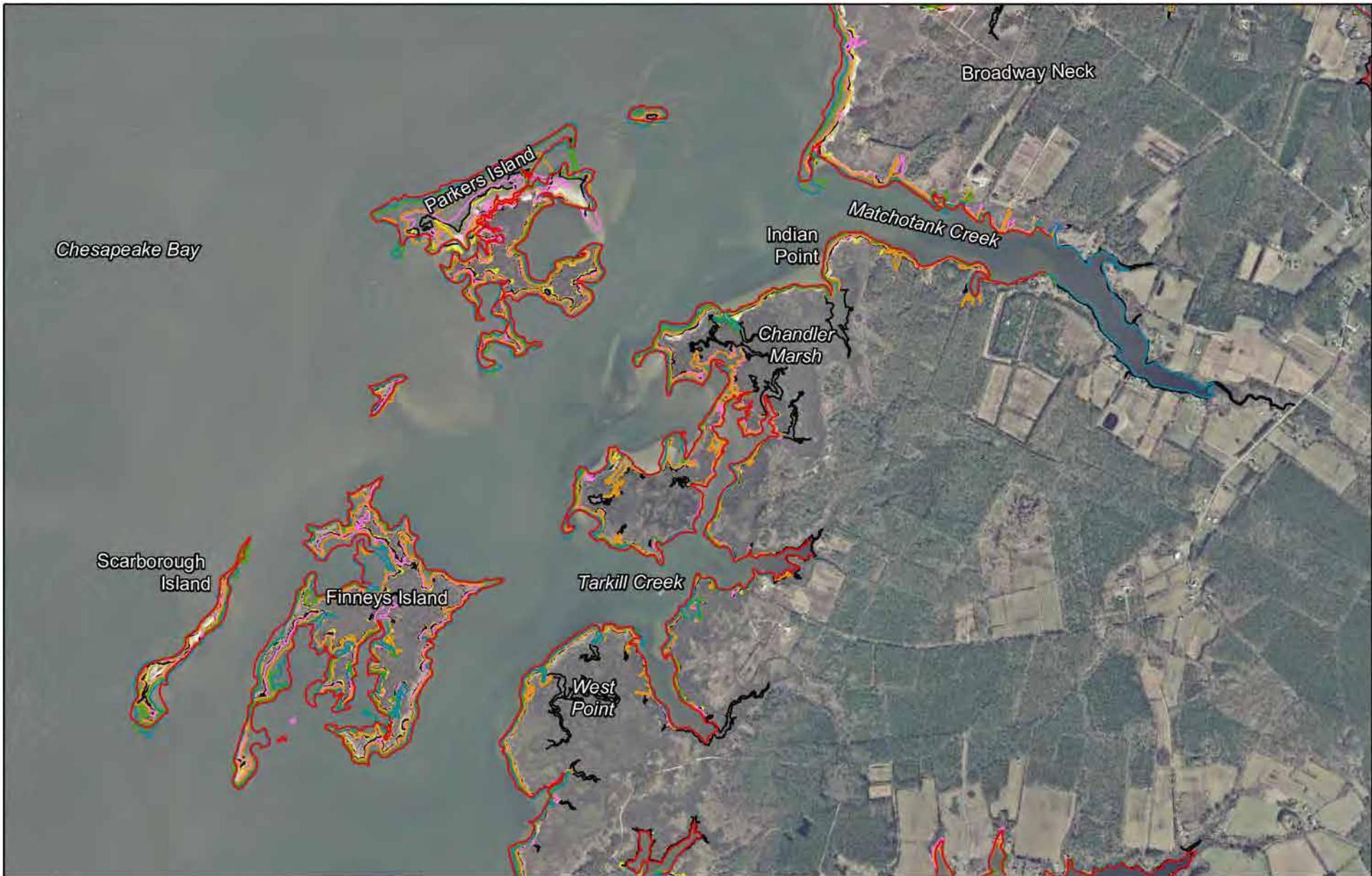


0 2,000 4,000
 Feet

Accomack County, Virginia Plate 17

Photo Date: 2009





Legend

- Shoreline 1938 — Shoreline 2002
- Shoreline 1949 — Shoreline 2009
- Shoreline 1963 — Shoreline 2013
- Shoreline 1994

**Accomack County, Virginia
Plate 17**

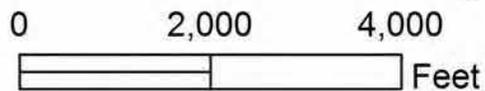
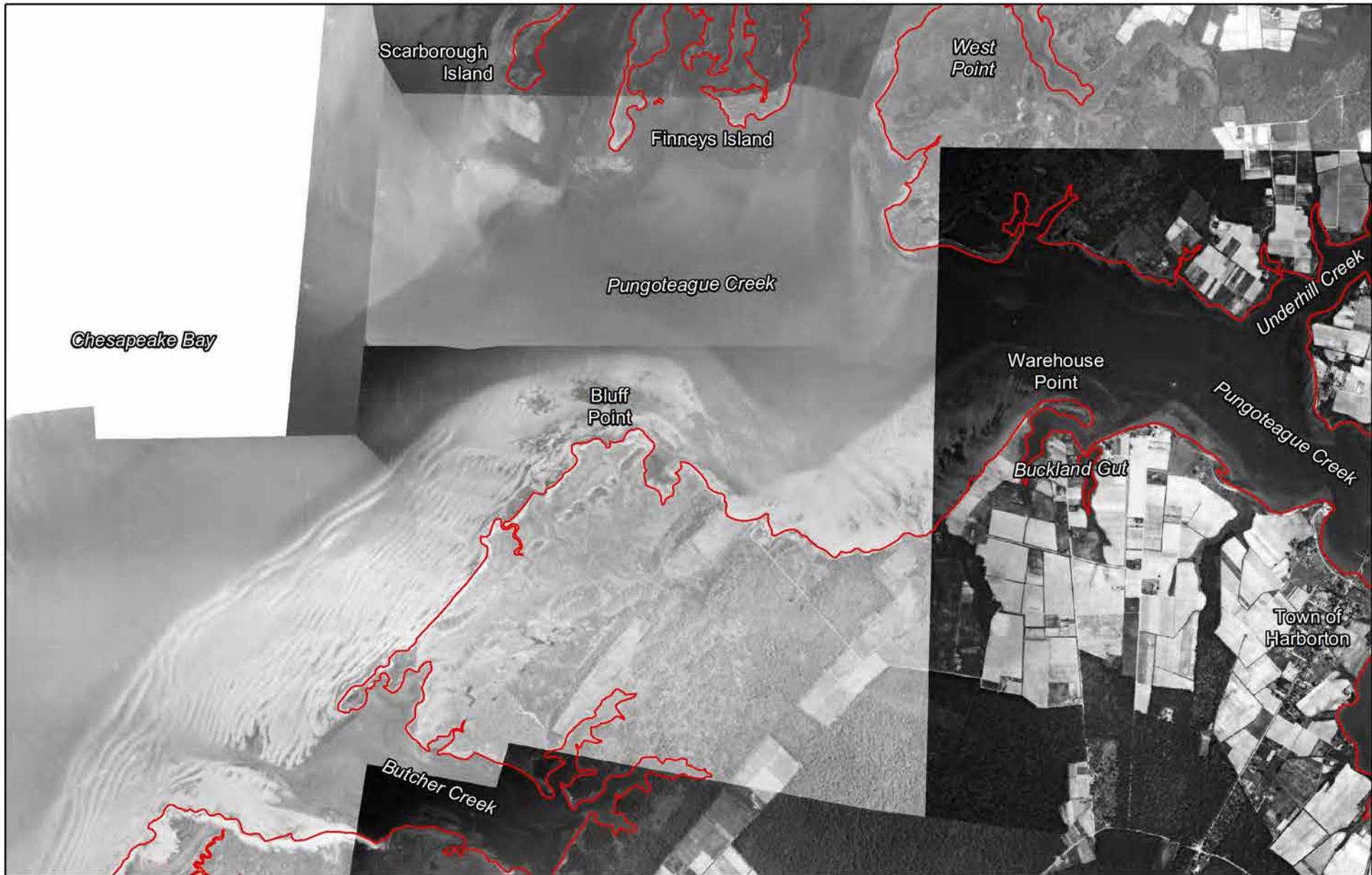


Photo Date: 2013

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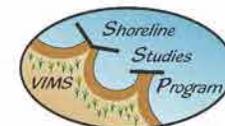
Legend
 — Shoreline 1938



0 2,000 4,000
 Feet

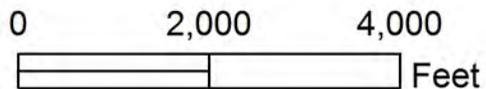
**Accomack County, Virginia
 Plate 18**

Photo Date: 1938



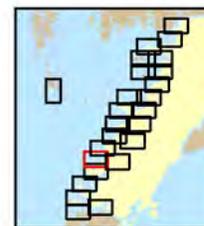


Legend
 — Shoreline 1949



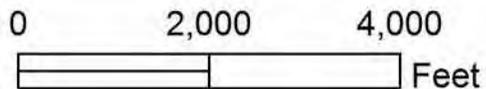
**Accomack County, Virginia
 Plate 18**

Photo Date: 1949



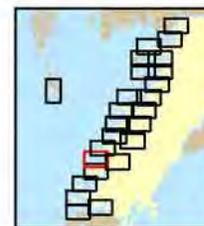


Legend
 — Shoreline 1963



**Accomack County, Virginia
 Plate 18**

Photo Date: 1963





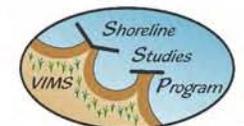
Legend
 — Shoreline 1994



0 2,000 4,000
 Feet

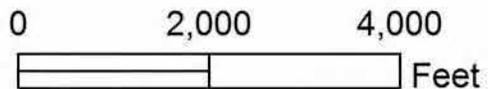
Accomack County, Virginia Plate 18

Photo Date: 1994



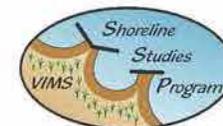


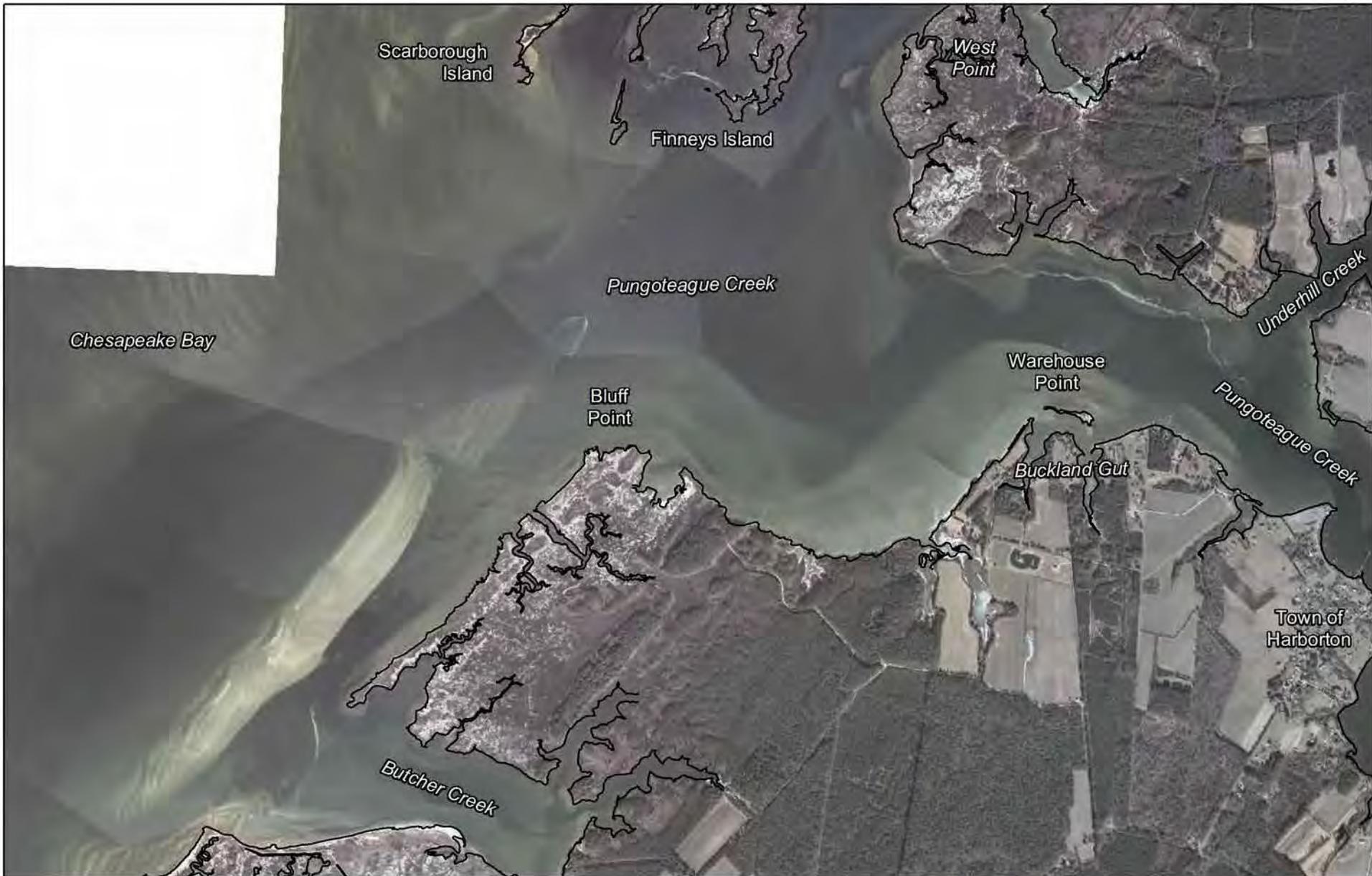
Legend
 — Shoreline 2002



**Accomack County, Virginia
 Plate 18**

Photo Date: 2002





Legend
 — Shoreline 2009



0 2,000 4,000
 Feet

Accomack County, Virginia Plate 18

Photo Date: 2009





Legend

- Shoreline 1938 — Shoreline 2002
- Shoreline 1949 — Shoreline 2009
- Shoreline 1963 — Shoreline 2013
- Shoreline 1994

**Accomack County, Virginia
Plate 18**

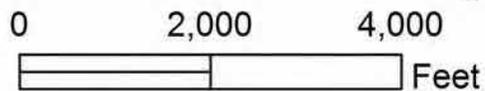
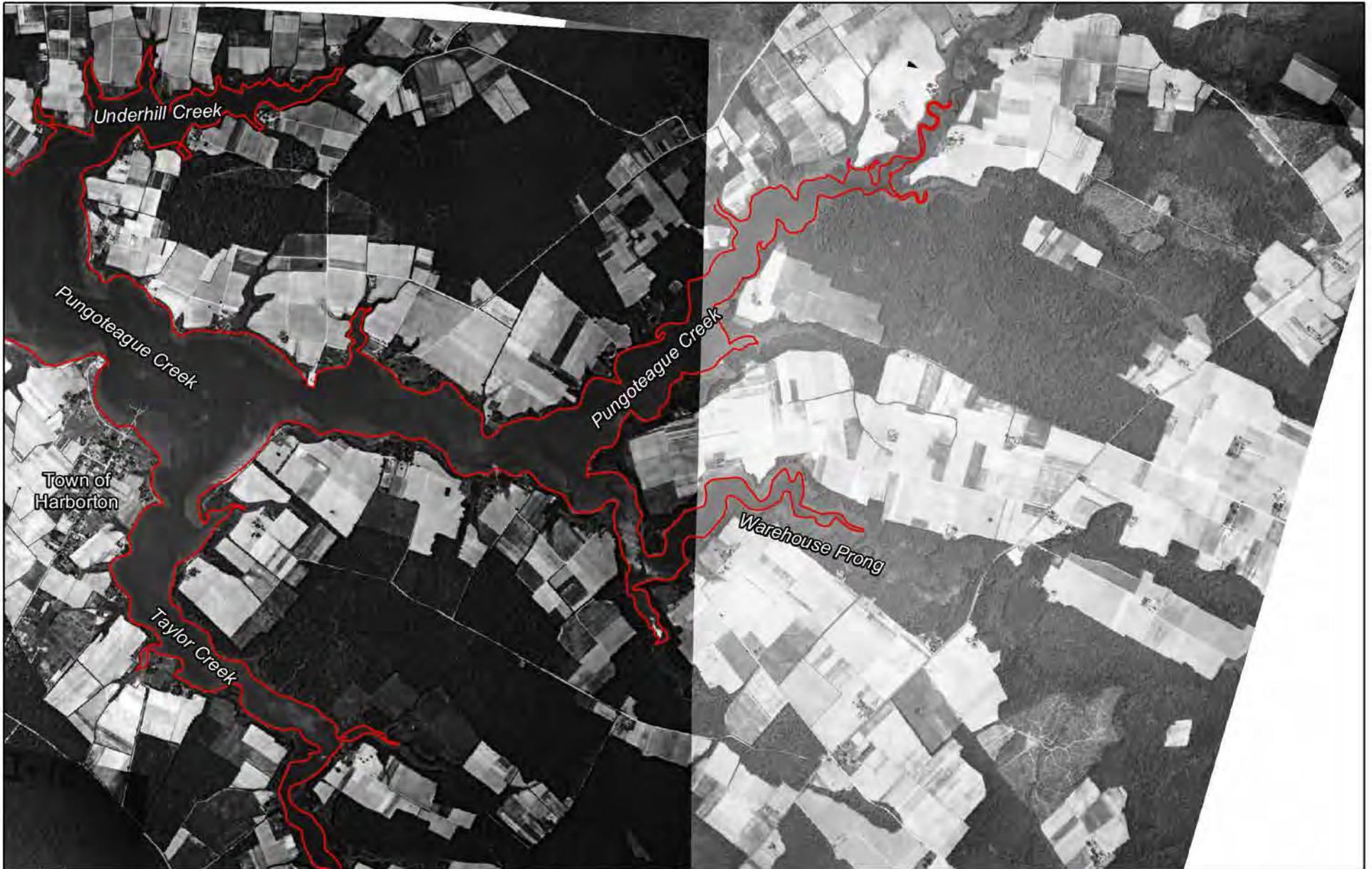


Photo Date: 2013

B-126



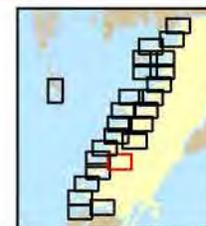
Legend
 — Shoreline 1938

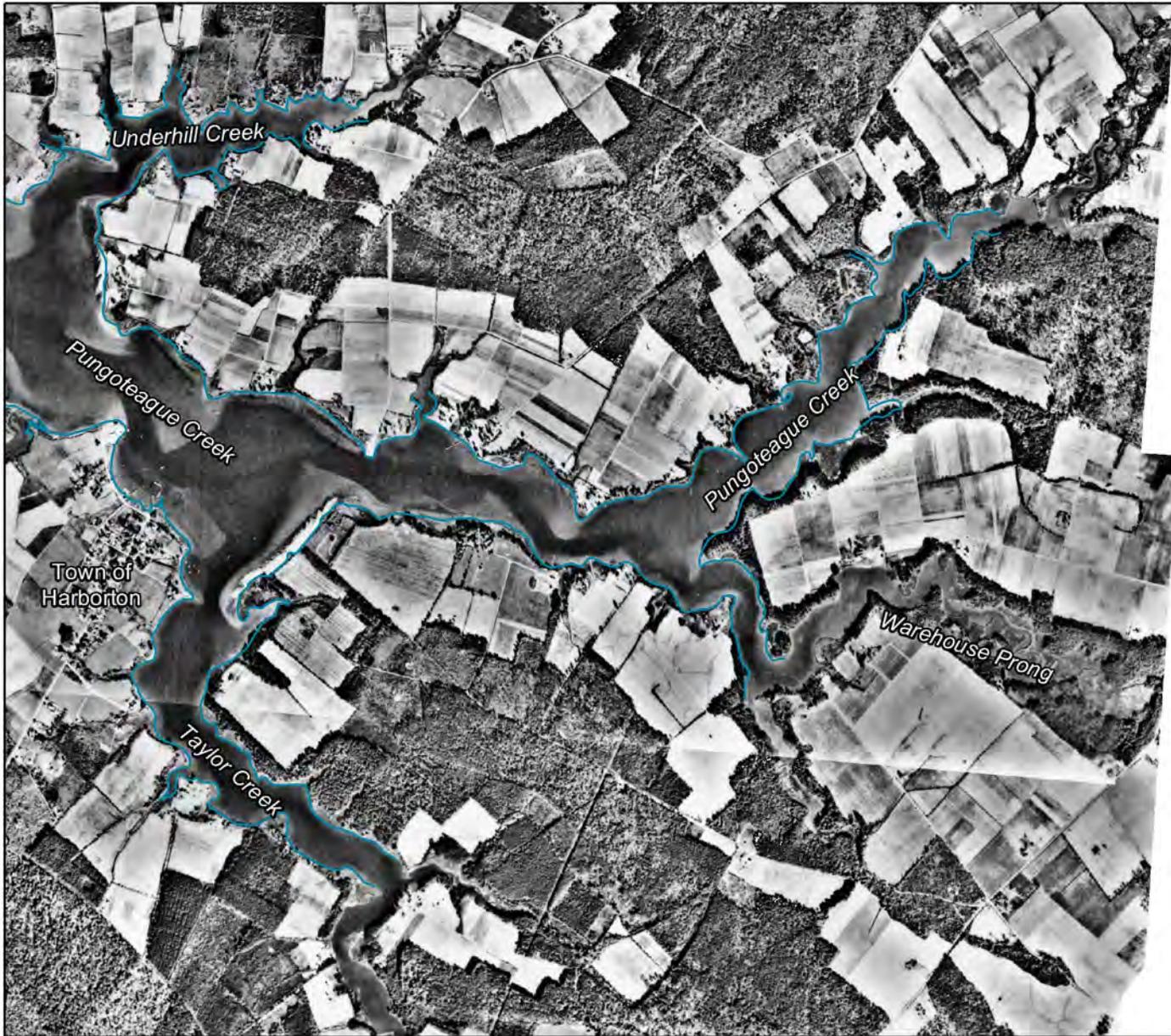


0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 19**

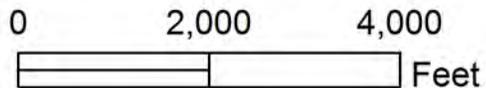
Photo Date: 1938





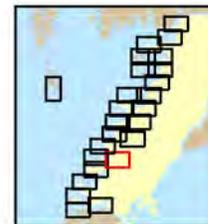
Legend

— Shoreline 1949



**Accomack County, Virginia
Plate 19**

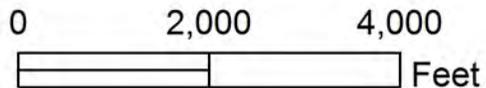
Photo Date: 1949





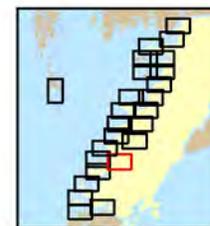
Legend

— Shoreline 1963



**Accomack County, Virginia
Plate 19**

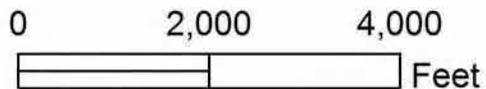
Photo Date: 1963





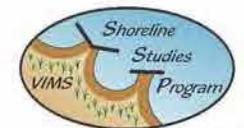
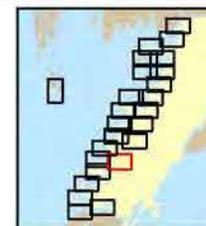
Legend

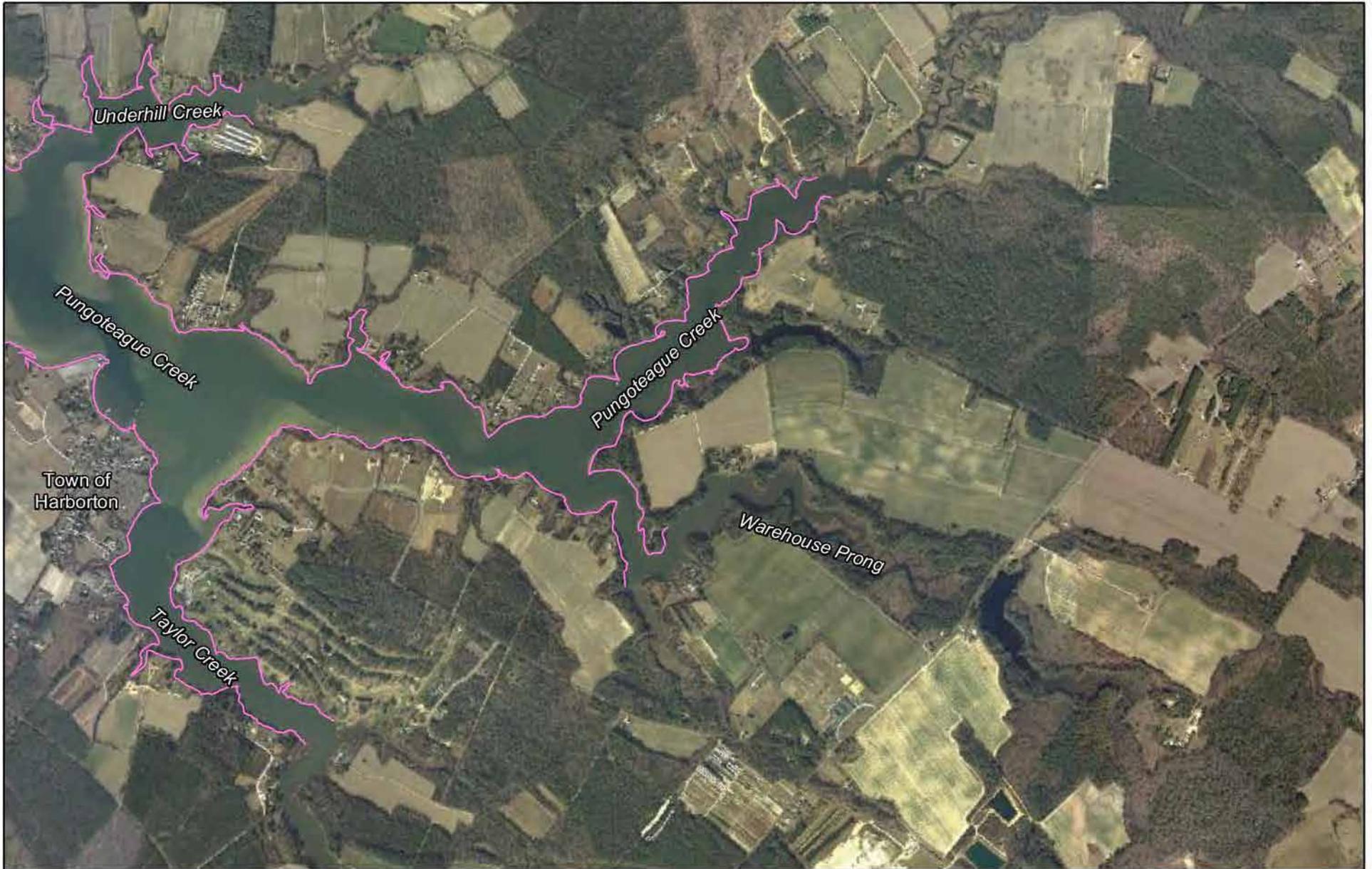
— Shoreline 1994



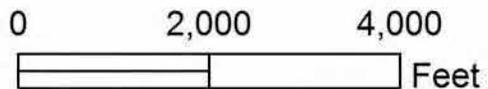
**Accomack County, Virginia
Plate 19**

Photo Date: 1994





Legend
— Shoreline 2002



Accomack County, Virginia Plate 19

Photo Date: 2002





Legend
 — Shoreline 2009

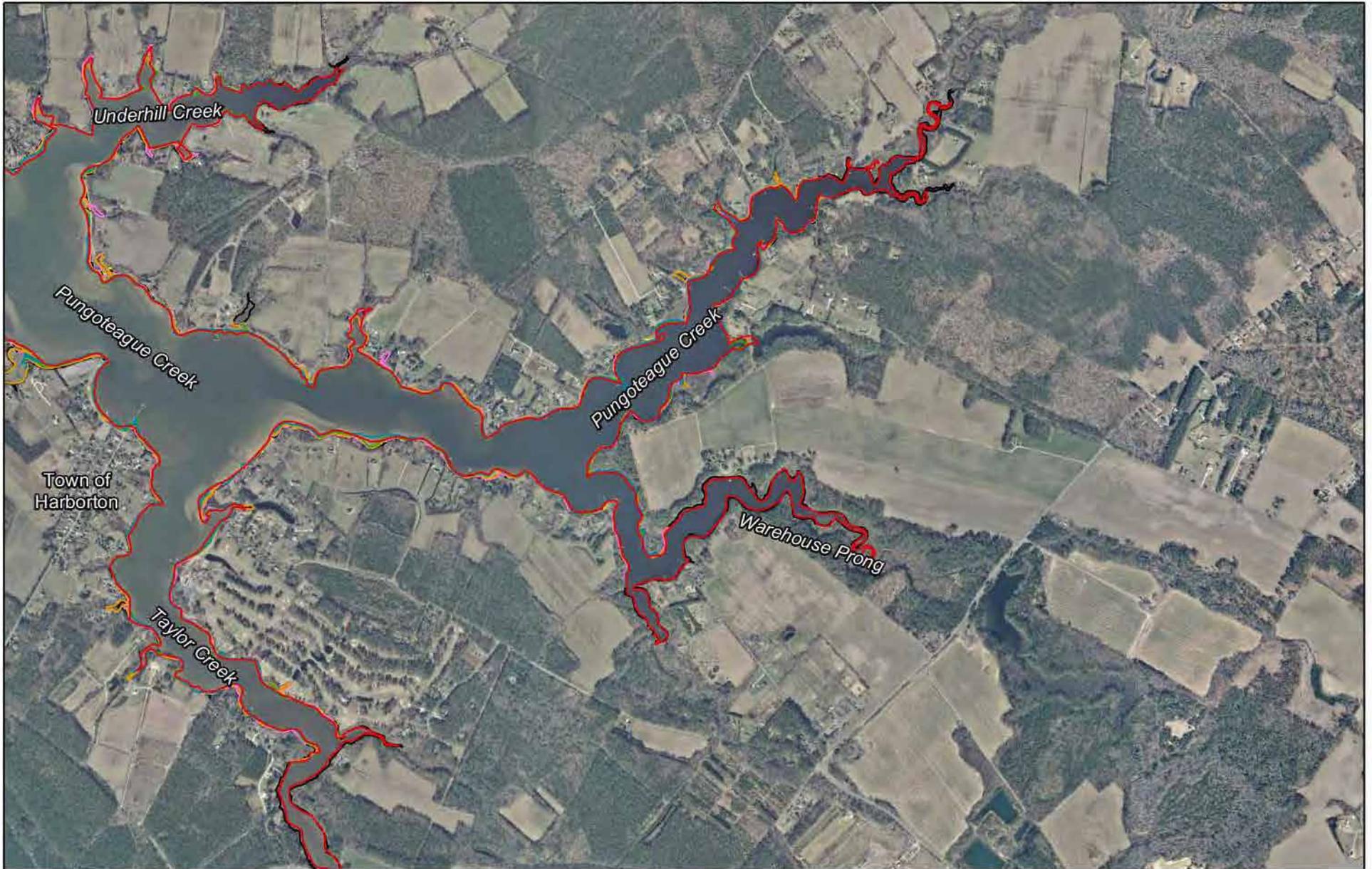


0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 19**

Photo Date: 2009





Legend

- Shoreline 1938 — Shoreline 2002
- Shoreline 1949 — Shoreline 2009
- Shoreline 1963 — Shoreline 2013
- Shoreline 1994

**Accomack County, Virginia
Plate 19**

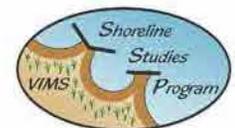
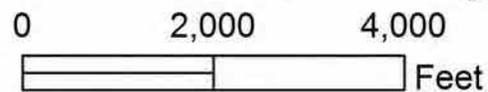


Photo Date: 2013



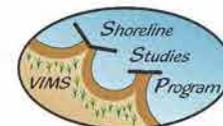
Legend
 — Shoreline 1938



0 2,000 4,000
 Feet

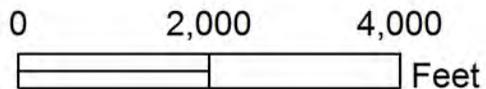
**Accomack County, Virginia
 Plate 20**

Photo Date: 1938



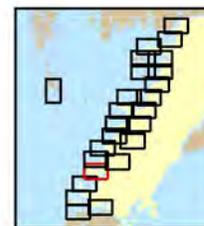


Legend
 — Shoreline 1949



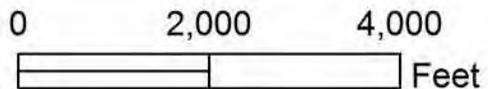
**Accomack County, Virginia
 Plate 20**

Photo Date: 1949



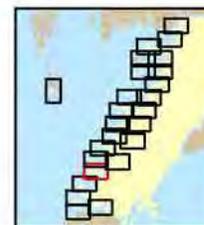


Legend
 — Shoreline 1963



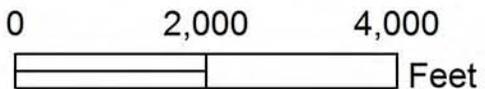
**Accomack County, Virginia
 Plate 20**

Photo Date: 1963



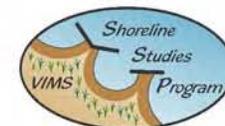


Legend
 — Shoreline 1994



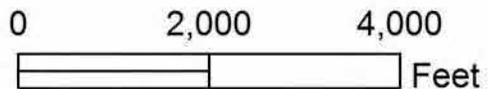
**Accomack County, Virginia
 Plate 20**

Photo Date: 1994



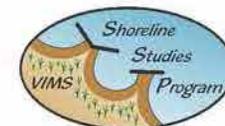


Legend
— Shoreline 2002



Accomack County, Virginia Plate 20

Photo Date: 2002





Legend
 — Shoreline 2009

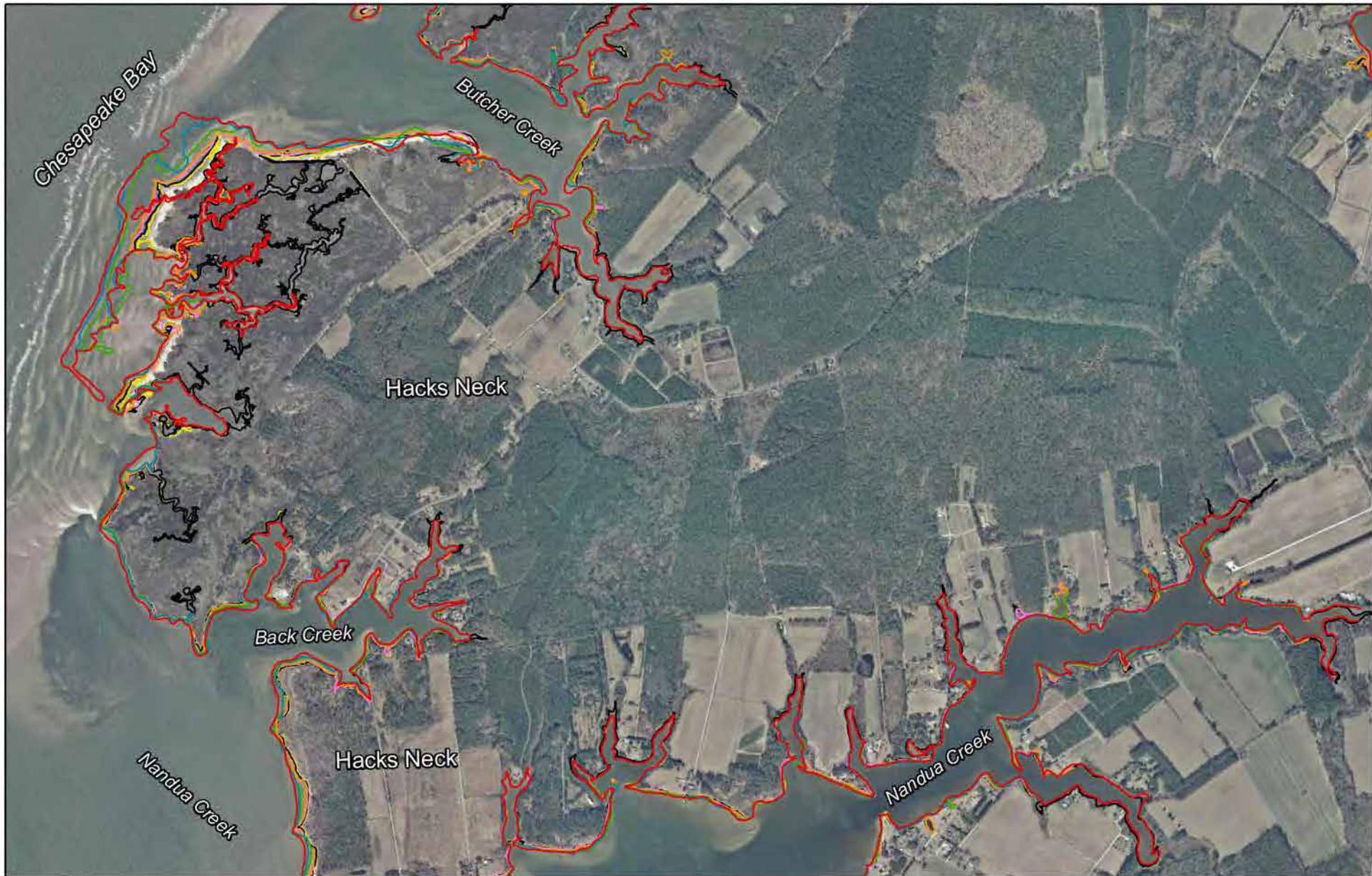


0 2,000 4,000
 Feet

Accomack County, Virginia Plate 20

Photo Date: 2009





Legend

- Shoreline 1938 — Shoreline 2002
- Shoreline 1949 — Shoreline 2009
- Shoreline 1963 — Shoreline 2013
- Shoreline 1994

**Accomack County, Virginia
Plate 20**

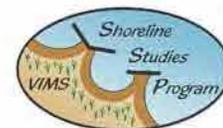
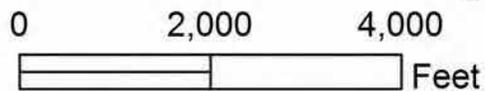
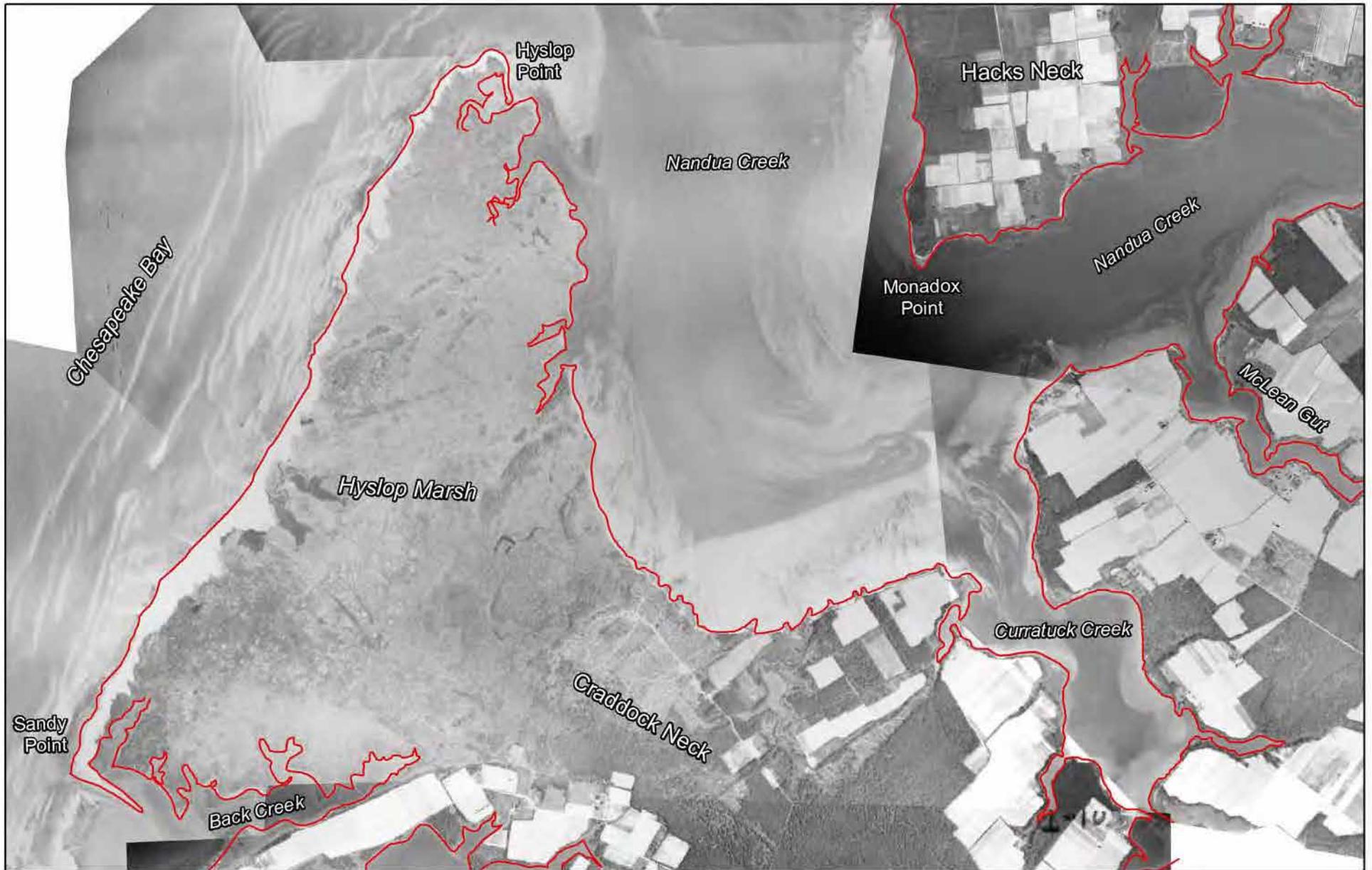


Photo Date: 2013

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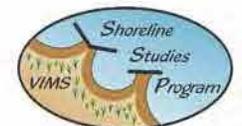
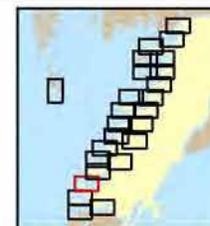
Legend
 — Shoreline 1938



0 2,000 4,000
 Feet

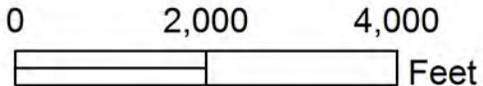
Accomack County, Virginia Plate 21

Photo Date: 1938



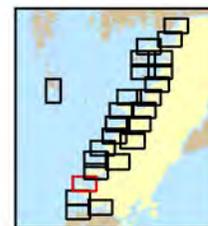


Legend
 — Shoreline 1949



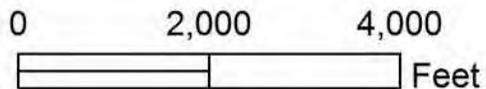
**Accomack County, Virginia
 Plate 21**

Photo Date: 1949



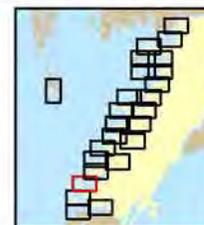


Legend
 — Shoreline 1963



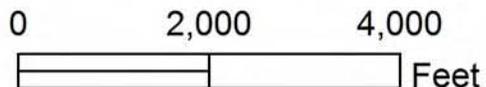
**Accomack County, Virginia
 Plate 21**

Photo Date: 1963



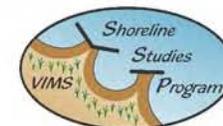
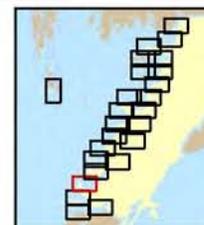


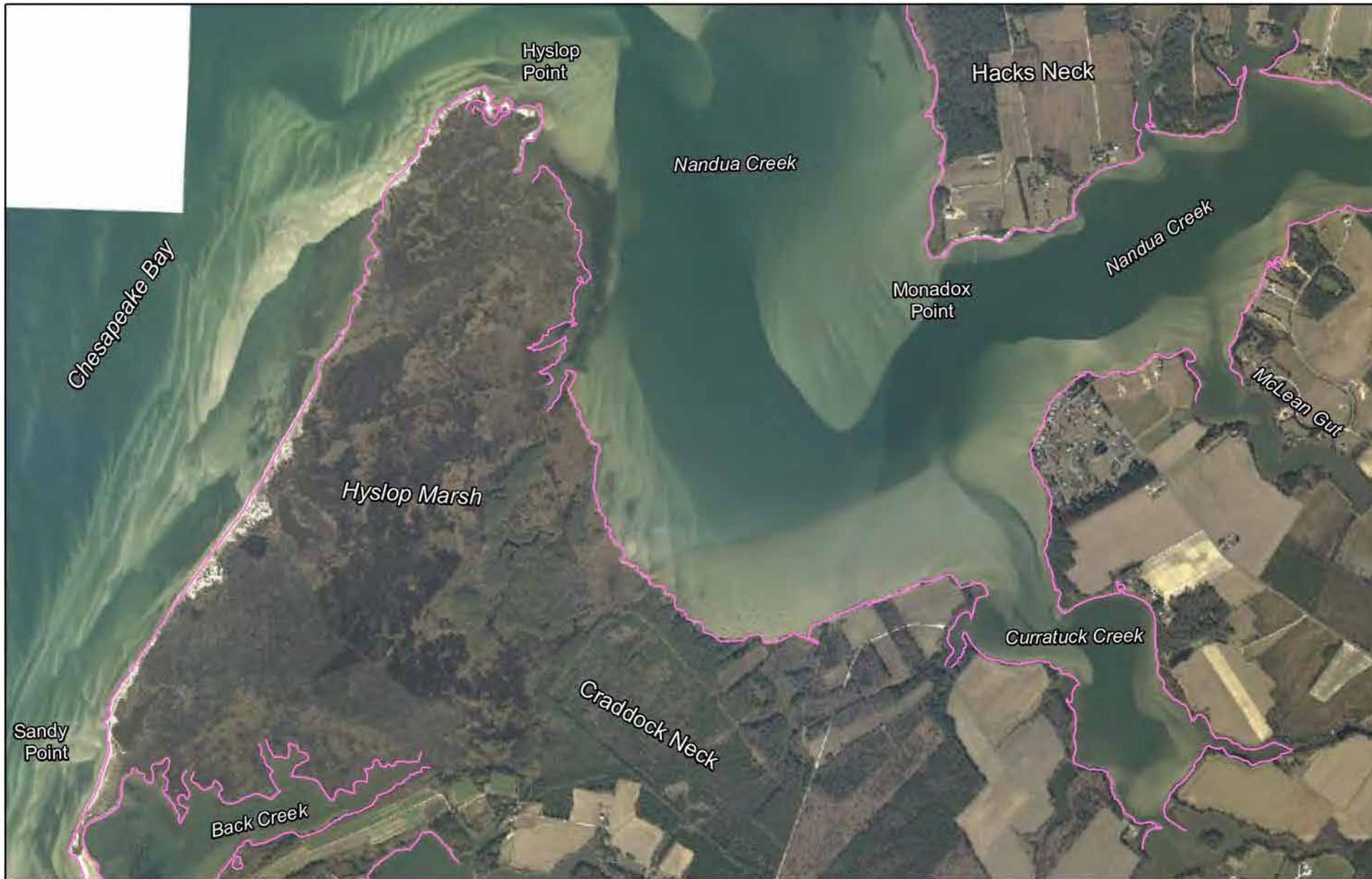
Legend
 — Shoreline 1994



Accomack County, Virginia Plate 21

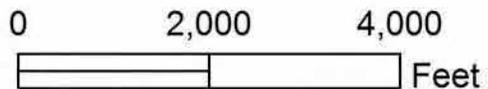
Photo Date: 1994





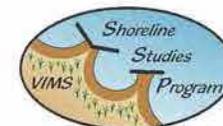
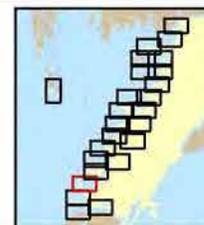
Legend

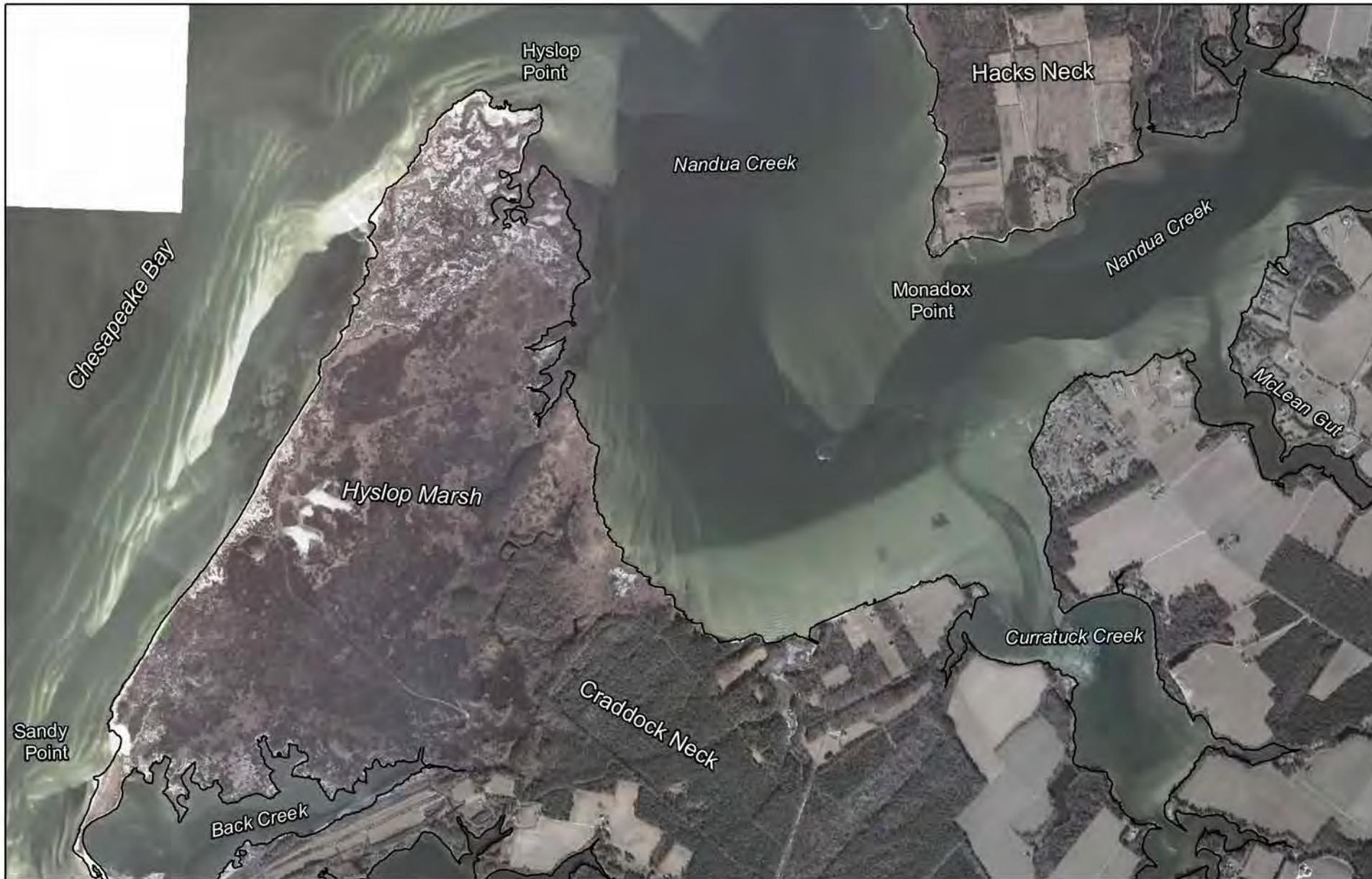
— Shoreline 2002



**Accomack County, Virginia
Plate 21**

Photo Date: 2002





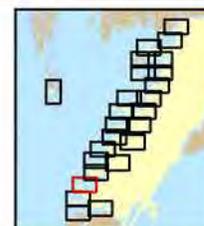
Legend
 — Shoreline 2009



0 2,000 4,000
 Feet

Accomack County, Virginia Plate 21

Photo Date: 2009





Legend

- Shoreline 1938
- Shoreline 1949
- Shoreline 1963
- Shoreline 1994
- Shoreline 2002
- Shoreline 2009
- Shoreline 2013

**Accomack County, Virginia
Plate 21**

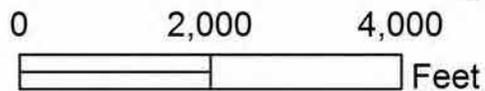
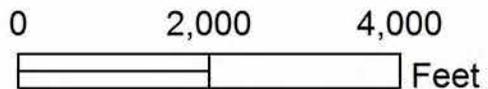


Photo Date: 2013

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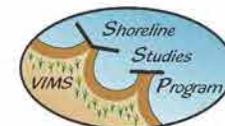


Legend
 — Shoreline 1938



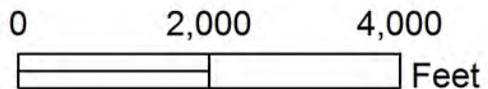
**Accomack County, Virginia
 Plate 22**

Photo Date: 1938



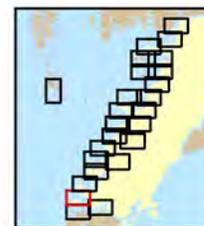


Legend
 — Shoreline 1949



**Accomack County, Virginia
 Plate 22**

Photo Date: 1949





Chesapeake Bay

Back Creek

Craddock Neck

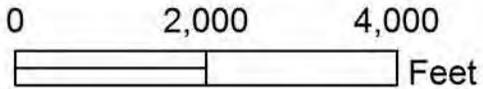
Bull Cove

Craddock Creek

Scarborough Neck

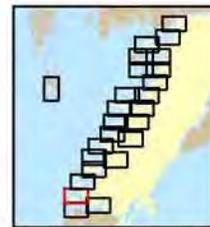
Tawes Creek

Legend
 Shoreline 1963



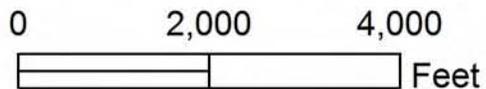
**Accomack County, Virginia
 Plate 22**

Photo Date: 1963



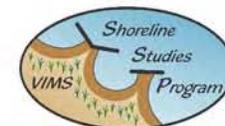


Legend
 — Shoreline 1994



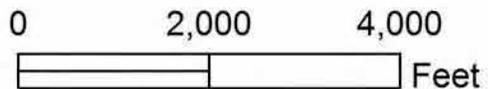
**Accomack County, Virginia
 Plate 22**

Photo Date: 1994



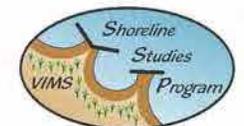
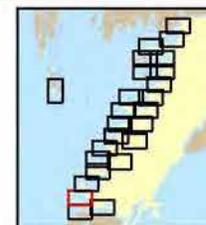


Legend
— Shoreline 2002



Accomack County, Virginia Plate 22

Photo Date: 2002





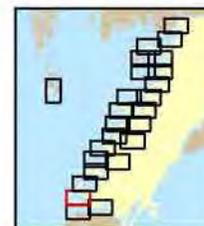
Legend
 — Shoreline 2009



0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 22**

Photo Date: 2009





Legend

- Shoreline 1938 — Shoreline 2002
- Shoreline 1949 — Shoreline 2009
- Shoreline 1963 — Shoreline 2013
- Shoreline 1994

**Accomack County, Virginia
Plate 22**

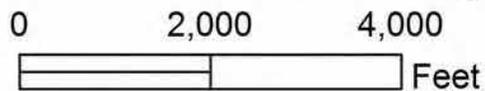
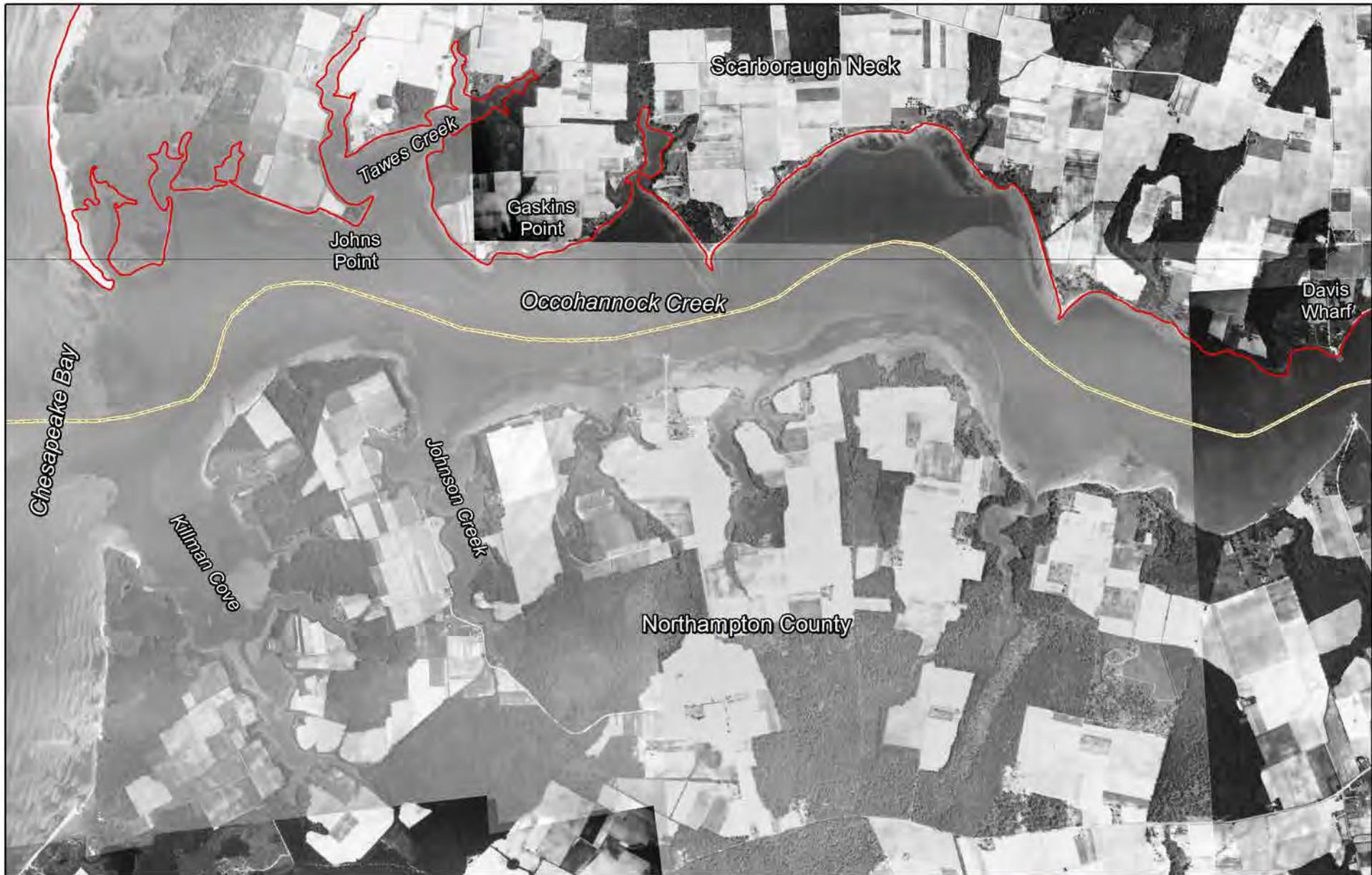


Photo Date: 2013



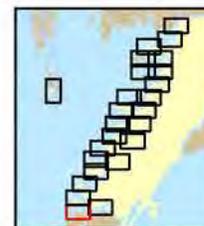
Legend
 — Shoreline 1938



0 2,000 4,000
 Feet

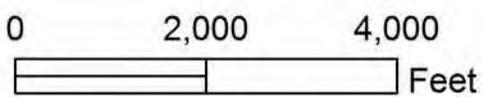
**Accomack County, Virginia
 Plate 23**

Photo Date: 1938



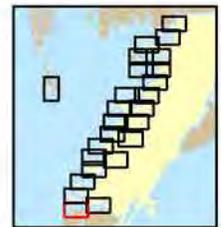


Legend
 — Shoreline 1949



**Accomack County, Virginia
 Plate 23**

Photo Date: 1949





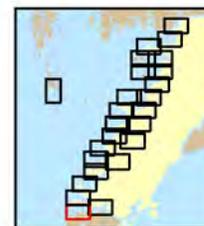
Legend
 — Shoreline 1963

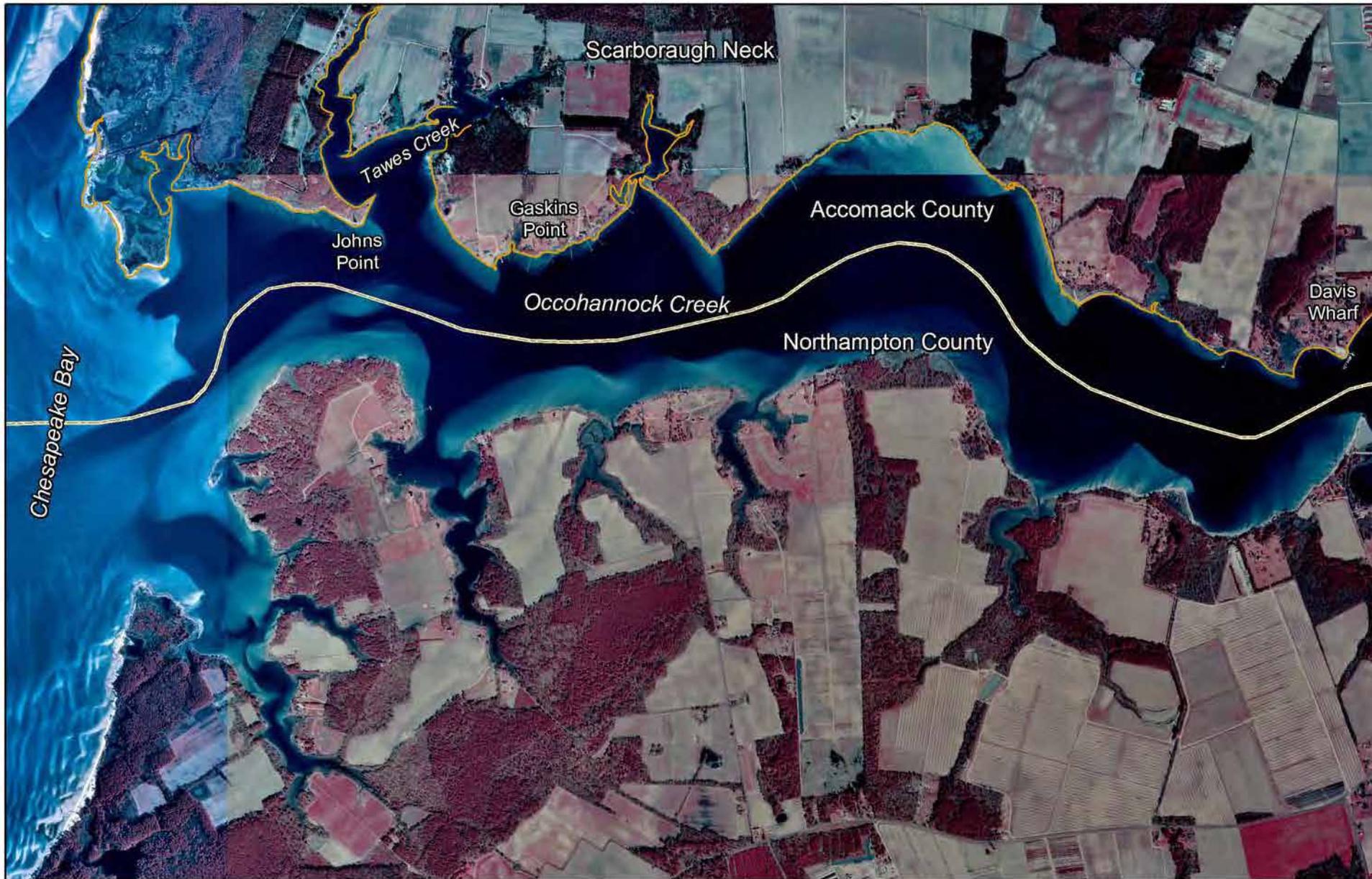


0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 23**

Photo Date: 1963





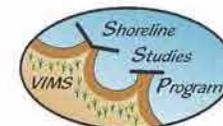
Legend
 — Shoreline 1994



0 2,000 4,000
 Feet

Accomack County, Virginia Plate 23

Photo Date: 1994





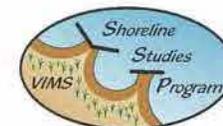
Legend
 — Shoreline 2002



0 2,000 4,000
 Feet

Accomack County, Virginia Plate 23

Photo Date: 2002





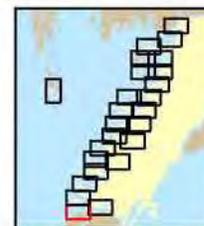
Legend
 — Shoreline 2009

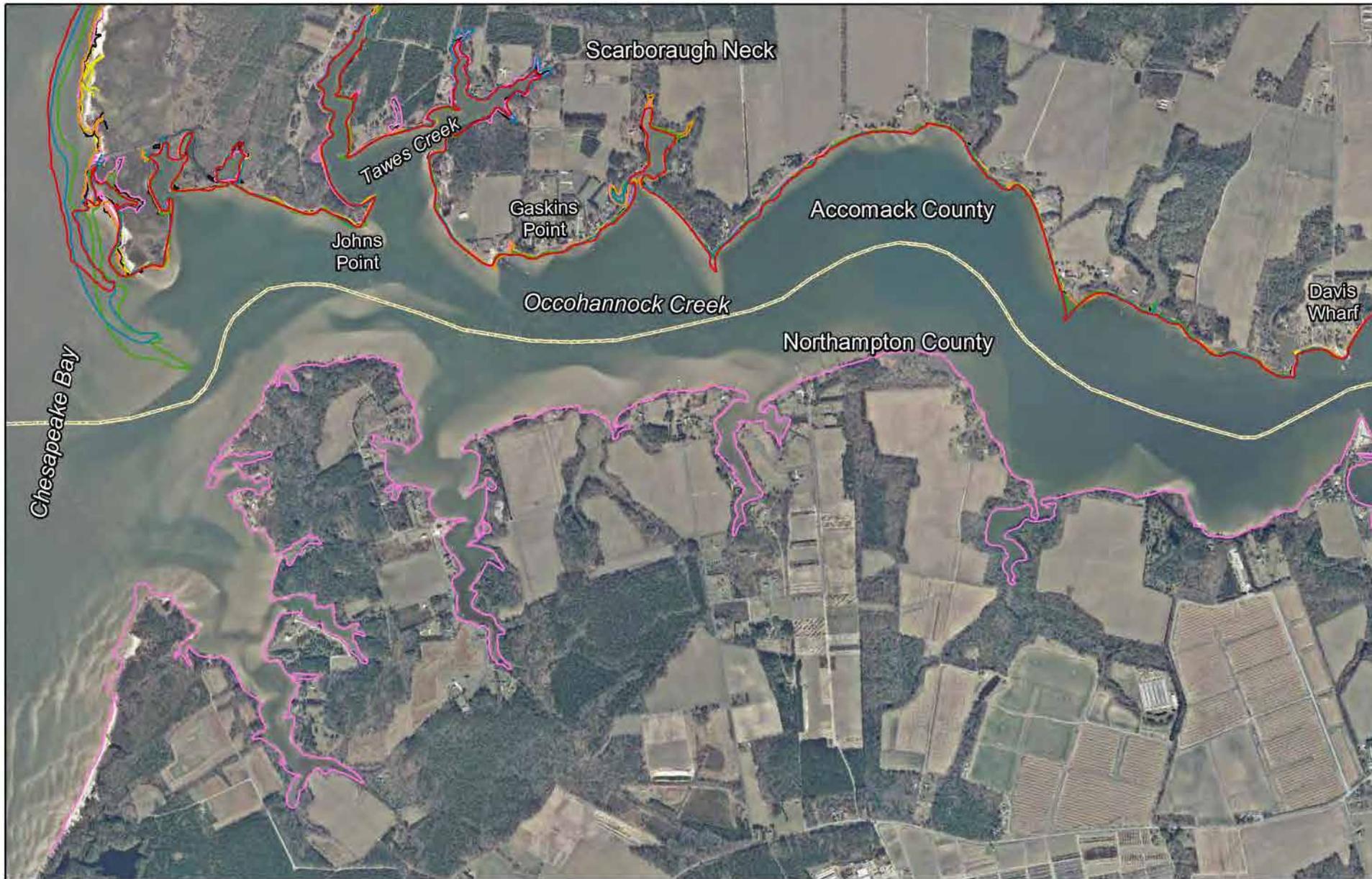


0 2,000 4,000
 Feet

Accomack County, Virginia Plate 23

Photo Date: 2009





Legend

- Shoreline 1938 — Shoreline 2002
- Shoreline 1949 — Shoreline 2009
- Shoreline 1963 — Shoreline 2013
- Shoreline 1994

**Accomack County, Virginia
Plate 23**

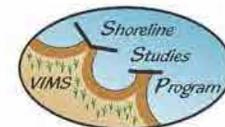
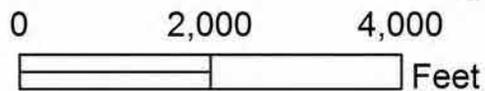
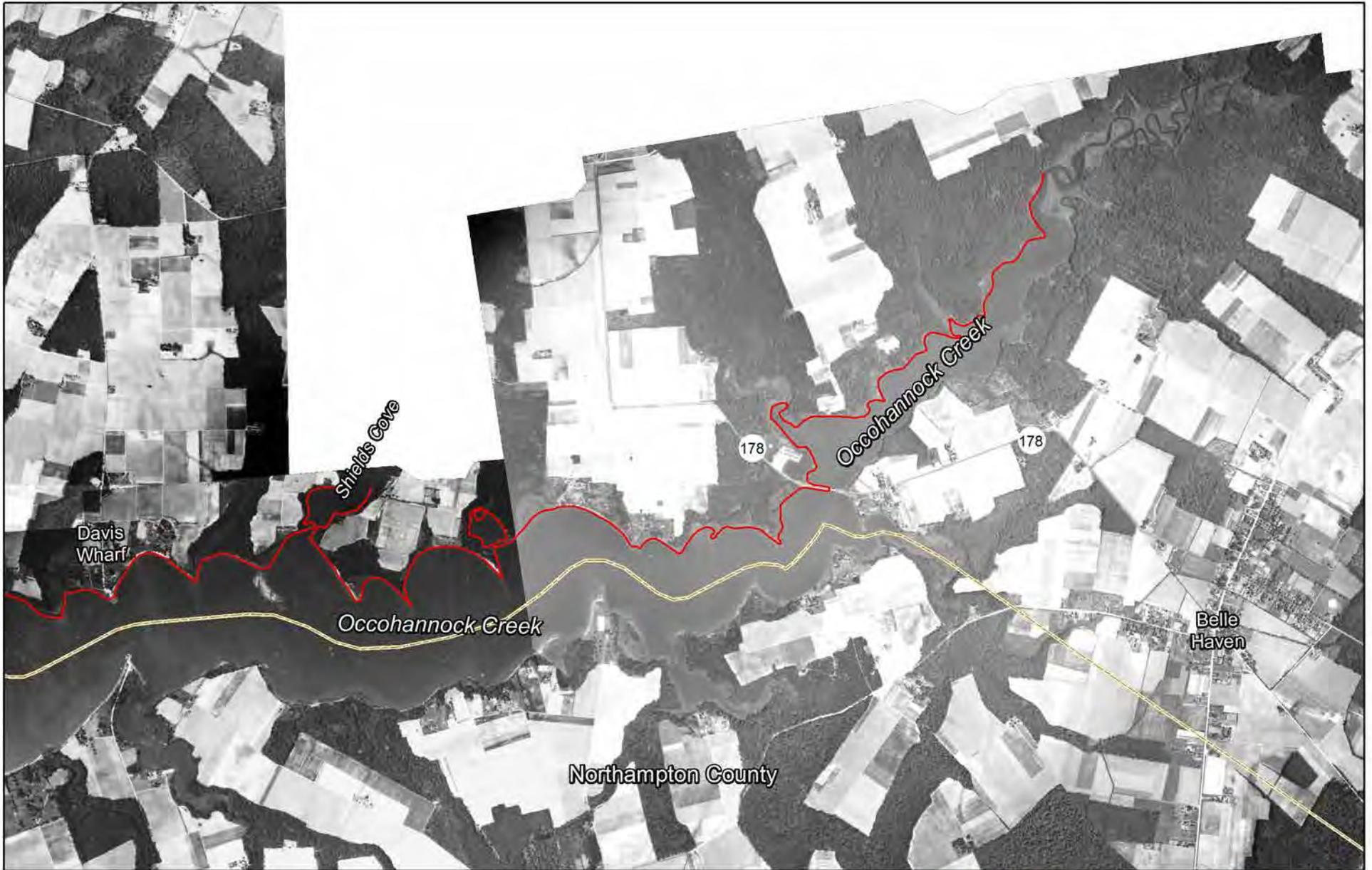


Photo Date: 2013



Legend
 — Shoreline 1938



0 2,000 4,000
 Feet

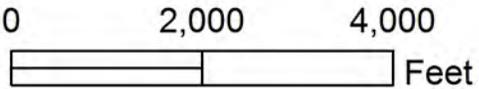
**Accomack County, Virginia
 Plate 24**

Photo Date: 1938





Legend
 — Shoreline 1949



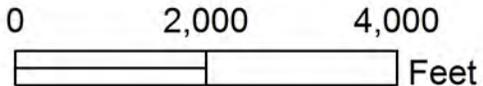
**Accomack County, Virginia
 Plate 24**

Photo Date: 1949



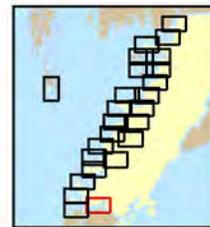


Legend
 — Shoreline 1963



**Accomack County, Virginia
 Plate 24**

Photo Date: 1963





Legend
 — Shoreline 1994

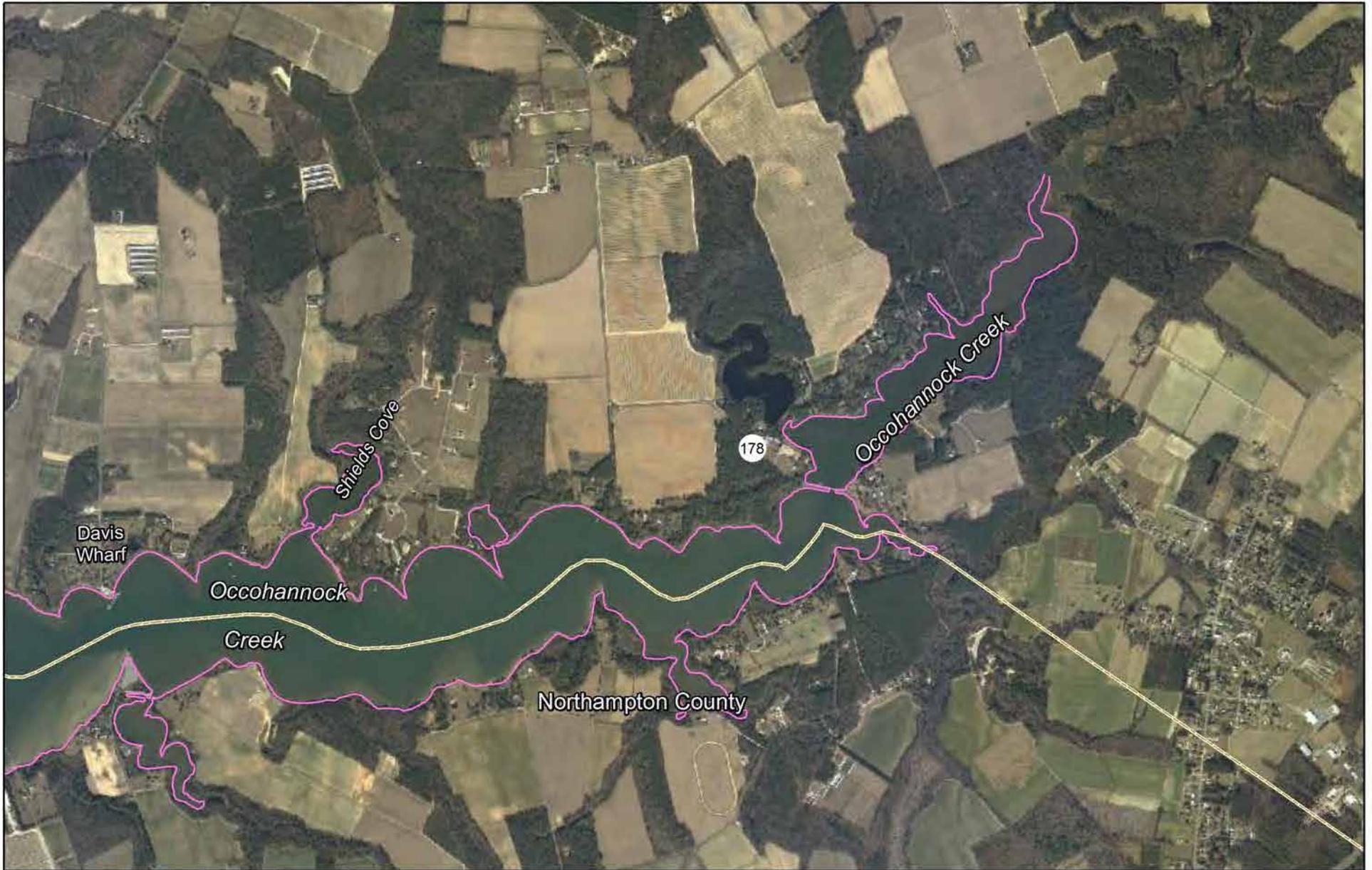


0 2,000 4,000
 Feet

Accomack County, Virginia Plate 24

Photo Date: 1994





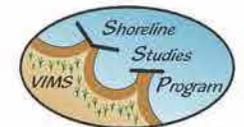
Legend
 — Shoreline 2002



0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 24**

Photo Date: 2002





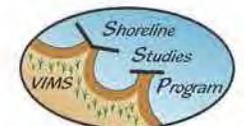
Legend
 — Shoreline 2009

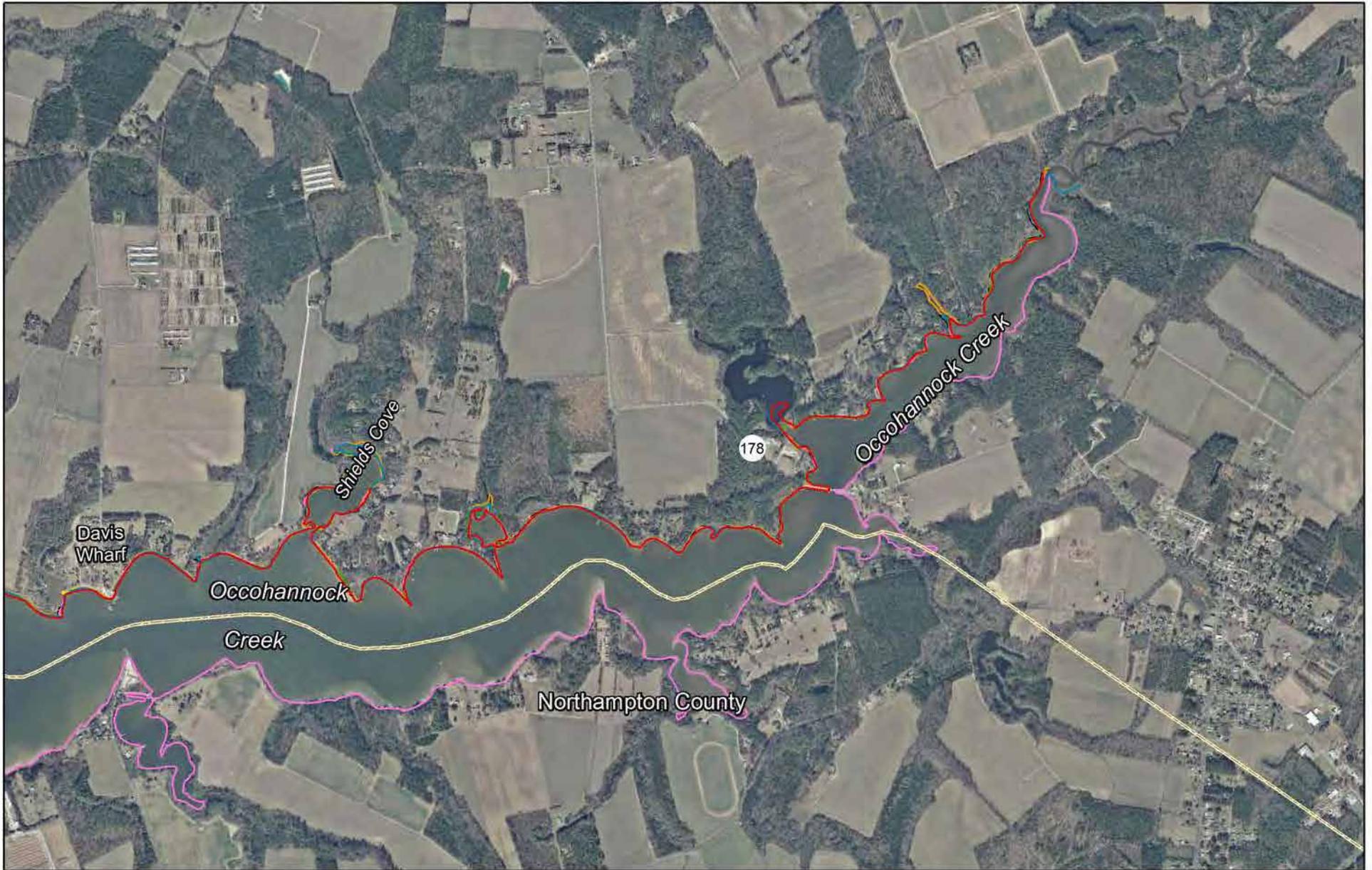


0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 24**

Photo Date: 2009





Legend

- Shoreline 1938 — Shoreline 2002
- Shoreline 1949 — Shoreline 2009
- Shoreline 1963 — Shoreline 2013
- Shoreline 1994

**Accomack County, Virginia
Plate 24**

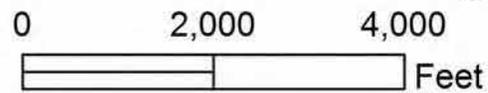


Photo Date: 2013

B-168

Chesapeake Bay

Tangier Island

The Uppards

Whale Point

Cod Harbor

Mailboat Harbor

Oyster Creek Gut

Toms Gut

Fishing Gut

Port Isobel

Chesapeake Bay

1938

Legend
— Shoreline 1938



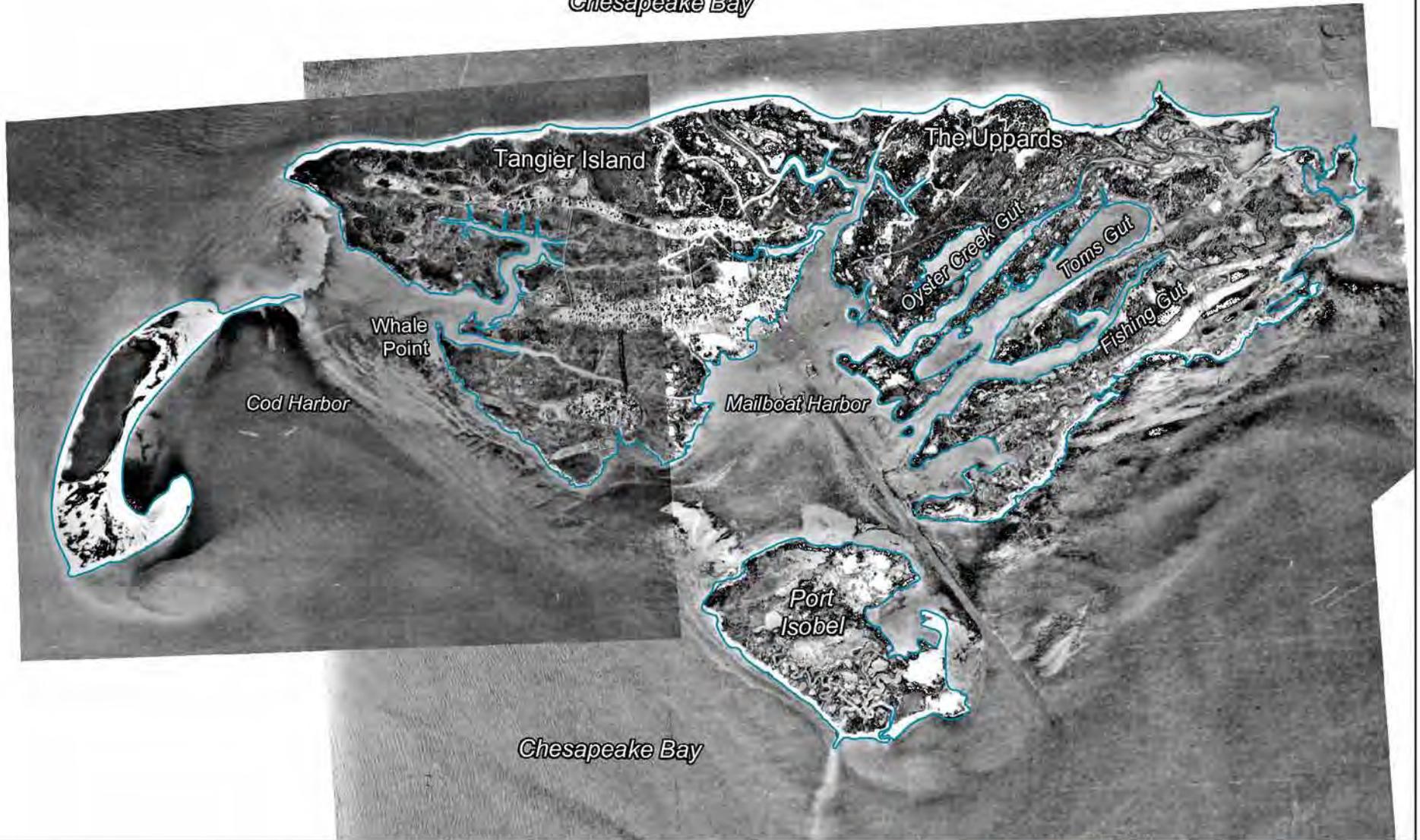
0 2,000 4,000
Feet

Accomack County, Virginia Plate 25

Photo Date: 1938

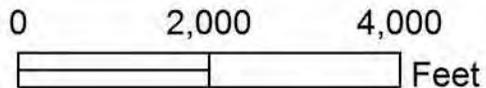


Chesapeake Bay



Chesapeake Bay

Legend
— Shoreline 1949



Accomack County, Virginia Plate 25

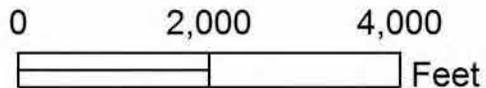
Photo Date: 1949





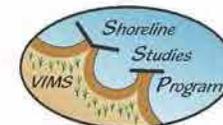
Legend

— Shoreline 1960



**Accomack County, Virginia
Plate 25**

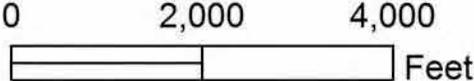
Photo Date: 1960



Chesapeake Bay



Legend
— Shoreline 1994



Accomack County, Virginia Plate 25

Photo Date: 1994



Chesapeake Bay

Tangier Island

The Uppards

Oyster Creek Gut

Toms Gut

Fishing Gut

Whale Point

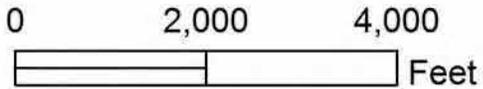
Cod Harbor

Mailboat Harbor

Port Isobel

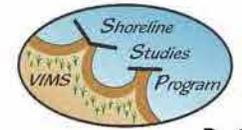
Chesapeake Bay

Legend
— Shoreline 2002



Accomack County, Virginia Plate 25

Photo Date: 2002





Legend
 — Shoreline 2009

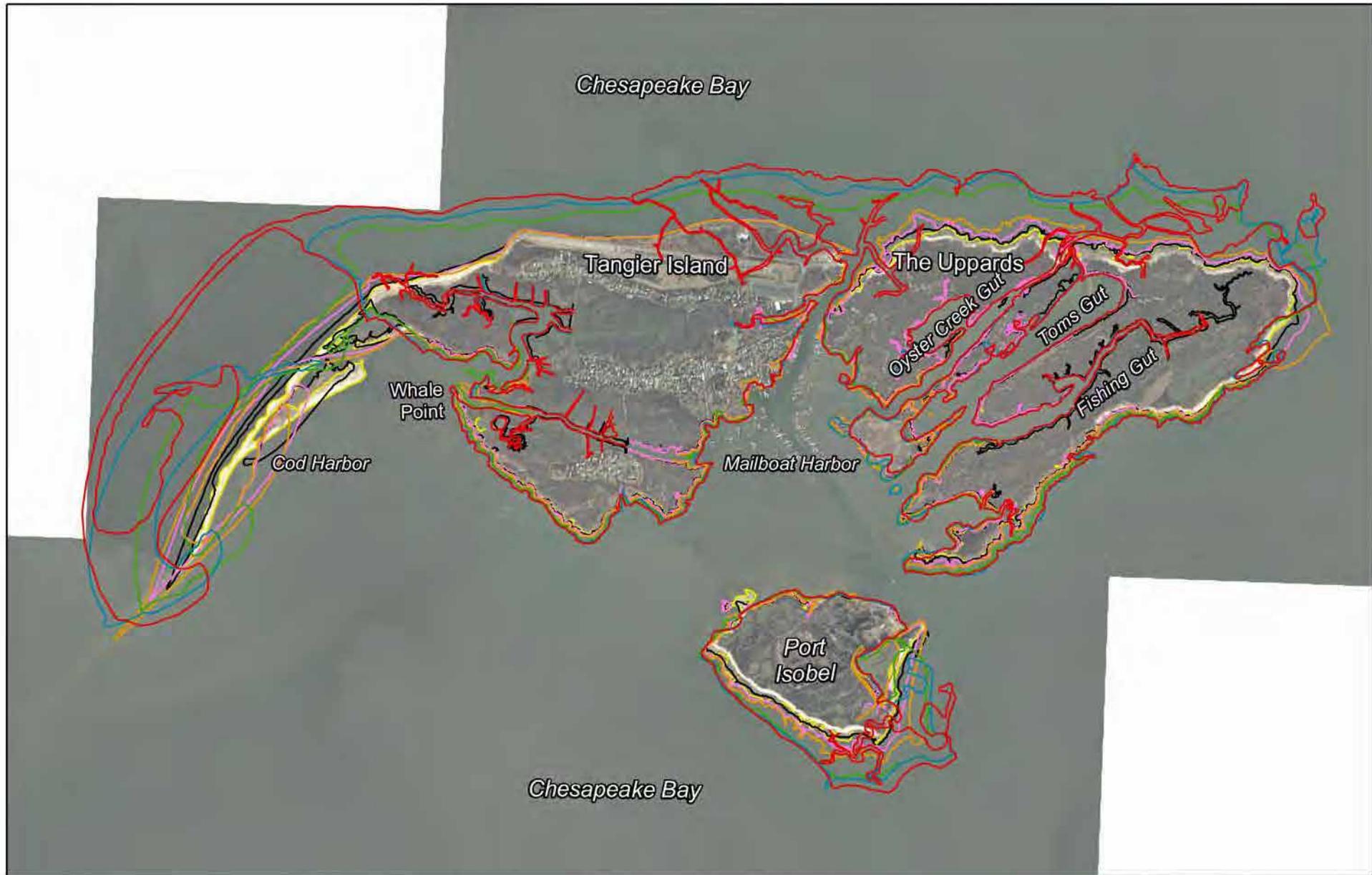


0 2,000 4,000
 Feet

**Accomack County, Virginia
 Plate 25**

Photo Date: 2009





Legend

- Shoreline 1938
- Shoreline 1949
- Shoreline 1960
- Shoreline 1994
- Shoreline 2002
- Shoreline 2009
- Shoreline 2013

**Accomack County, Virginia
Plate 25**

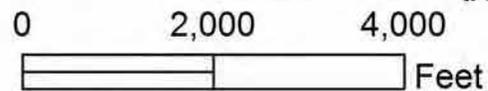


Photo Date: 2013