# Descriptive Report

**Type of Survey:** SHORELINE  
**Field No.:** T-11689  
**Office No.:** T-11689  

**Locality**
- **State:** VIRGINIA  
- **General locality:** NORTHAMPTON COUNTY  
- **Locality:** FOWLING POINT TO BUCKHORN POINT  

**Chief of Party**
- Elgan T. Jenkins, Field Party  
- V. Ralph Sobieralski, Tampa District Office  
- Alfred C. Holmes, Director, NGSC  

**Library & Archives**

**Date:** JUL 1975
DESCRIPTIVE REPORT - DATA RECORD
T -11689

PROJECT NO. (III):
PH-5907 (21021)

FIELD OFFICE (III):
Accomac, Virginia

CHIEF OF PARTY
E. T. Jenkins

PHOTOGRAMMETRIC OFFICE (III):
Tampa, Florida

OFFICER-IN-CHARGE
V. Ralph Sobieralski

INSTRUCTIONS DATED (III) (III):
Field: October 20, 1959
Field Amendment 1: April 26, 1960
Office: December 28, 1960
Office Amendment 1: August 10, 1961
Office Amendment 2: September 29, 1961

METHOD OF COMPILATION (III):
Graphic

MANUSCRIPT SCALE (III):
1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
Inapplicable

DATE RECEIVED IN WASHINGTON OFFICE (IV):
OCT 9 1953

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE (IV):

DATE REGISTERED (IV):

GEODATICAL DATUM (III):
N. A. 1927

VERTICAL DATUM (III):
MHW

Elevations shown as (2) refer to mean high water
Elevations shown as (3) refer to sounding datum
i.e., mean low water or mean lower low water

REFERENCE STATION (III):
WEST POINT 2, 1910

LAT.: 37°23'55.609" (1714.4 m.)
LONG.: 75°51'36.486" (897.4 m.)

PLANE COORDINATES (IV):
x = 398,630.89 FT.  y = 2,766,758.73 FT.

STATE:
Virginia

ZONE:
South

ADJUSTED

UNADJUSTED

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (III) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, OR (IV) WASHINGTON OFFICE.

WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.
### DESCRIPTIVE REPORT - DATA RECORD

**FIELD INSPECTION BY (III):**

E. T. Jenkins  

**DATE:** April 1961

**MEAN HIGH WATER LOCATION (III): (STATE DATE AND METHOD OF LOCATION):**

Air photo compilation

**Date of photographs:** Oct. 13, 1959

**PROJECTION AND GRIDS RULED BY (IV):**

A. Riley  

**DATE:** Nov. 1961

**PROJECTION AND GRIDS CHECKED BY (IV):**

E. T. Jenkins  

**DATE:** Nov. 1961

**CONTROL PLOTTED BY (III):**

W. W. Dawsey  

**DATE:** Dec. 1961

**CONTROL CHECKED BY (III):**

R. R. Wagner  

**DATE:** Dec. 1961

**RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):**

R. R. Wagner  

**DATE:** Jan. 1962

**STEREOSCOPIC INSTRUMENT COMPILATION (III):**

Inapplicable

**PLANIMETRY:**

Inapplicable

**CONTOURS:**

Inapplicable

**MANUSCRIPT DELINEATED BY (III):**

R. Dossett  

**DATE:** Feb. 1962

Reviewed by: W. H. Shearouse  

**DATE:** Feb. 1962

**SCRIBING BY (III):**

R. Dossett  

**DATE:** Mar. 1963

Reviewed by: R. R. Wagner  

**DATE:** Mar. 1963

**PHOTOSTRAMEMETRIC OFFICE REVIEW BY (III):**

W. H. Shearouse  

**DATE:** May 1963

**REMARKS:**
**DESCRIPTIVE REPORT - DATA RECORD**

**CAMERA (KIND OR SOURCE) (III):**

C&GS Nine-lens

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<th>STAGE OF TIDE</th>
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**PREDICTED TIDE (III):**

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<th>REFERENCE STATION: Sandy Hook</th>
<th>H.W.</th>
<th>L.W.</th>
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<td>-0.7</td>
<td>0.0</td>
<td>3.9</td>
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**SUBORDINATE STATION: Great Machipongo Inlet (Inside)**

**SUBORDINATE STATION:**

Atlantic Marine Center

**PROOF EDIT BY (IV):**

C. H. Bishop

**DATE:** Nov. 1973

**NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):** 3

**RECOVERED:** 3

**IDENTIFIED:** 3

**NUMBER OF BM(S) SEARCHED FOR (III):** 0

**RECOVERED:** 0

**IDENTIFIED:**

**NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):** 2

**NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):** 0

**REMARKS:**
<table>
<thead>
<tr>
<th>Compilation Record</th>
<th>Completion Date</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Manuscript complete</td>
<td>February 1962</td>
<td>Superseded</td>
</tr>
<tr>
<td>pending field edit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Final review</td>
<td>November 1973</td>
<td></td>
</tr>
</tbody>
</table>

*This map was not field edited*
SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-11689

This 1:10,000 scale shoreline manuscript is one of 43 maps that comprise Project FH-5907, Cape Charles to Assateague, VA. The project diagram on page 5 indicates the location of this map in the project.

Field inspection prior to compilation was done in April, 1961.

Compilation was from 9-lens photographs taken in October, 1959. Control was based on a radial plot using the 9-lens photographs. The Photogrammetric Plot Report was not available at the time of final review.

No field edit of this map was done.

Final review was done at the Atlantic Marine Center in November, 1973.

The compilation manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 3 minutes 45 seconds in longitude.

A cronaflex copy of the final reviewed manuscript and a negative have been forwarded for record and registry.
FIELD INSPECTION REPORT
Maps 11689 through 11695
PROJECT PH-5907, VIRGINIA

2. Areal Field Inspection

The mainland was inspected by riding out all roads and labelling all details, where believed necessary, that are to be mapped. All Current Instructions were followed during inspection and no phases of the work were purposely omitted for the compilers or a field editor to resolve. Not every patch of trees has been labeled nor every foot of shoreline delineated, but it is believed that sufficient work has been done to serve as a criterion for the compilers.

The quality of the photography was good and it is believed that sufficient photographic tones have been labelled to clarify any questions.

3. Horizontal Control

Hog Island Lighthouse, 1911, 1932 and Hog Island Lighthouse Old Tower 1911 have been destroyed by the erosion along the outer shore of Hog Island. One of these stations was desired to be identified for control. No new station was established in the area as there is an abandoned Coast Guard Tower that is about 1/4 miles southwest of the Old Station site. Enough theodolite cuts were taken on this tower to furnish a position of sufficient accuracy to control the radial plot.

Station GOULD, 1910 is lost and station "Shack at Rowes Hole, North East Gable, 1934" has been destroyed.

4. Vertical Control

No bench marks of third-order or higher were searched for or recovered. One tidal bench mark was recovered and identified near the southwest end of Hog Island.

5. Contours and Drainage

Contours are inapplicable

The drainage has been delineated, where deemed necessary, on the photographs.
6. Woodland Cover

Most all areas of woodland cover were inspected and it is believed that a sufficient number of areas have been labelled to serve as a criterion for the compiler.

7. Shoreline and Alongshore Features

Practically all of the shoreline is apparent and in some areas the horizontal position of this line is controlled by the seasonal growth of sea oats. This tall grass will form the apparent shoreline for about 8 months of the year and its outer edges have been delineated as such.

The MHWL along the ocean was measured from several photo-identifiable objects and these measurements were scaled on the field photographs to identify some line or tone or the relative position of the MHWL to some line or tone on the photographs.

The foreshore in some areas amounts to large mud flats that are very soft and will not afford footing for any type of travel at low tide.

A submerged telephone cable leads from Hog Island to Cobb Island. Its point of entry into the water on Hog Island has been identified and its approximate position in the water has been delineated.

All docks and piers have been delineated or labelled on the field photographs.

8. Offshore Features

Offshore features are few and have been delineated on the photographs. The mean low water line was delineated in some areas and is quite apparent in other areas.

There is an area of shifting sand at the south end of Rogue Island, the size and shape of which is controlled by the current of Great Machipongo Inlet and the wind.

9. Landmarks and Aids

All landmarks and fixed aids to navigation are shown on Form 567. Nearly all of the lights and daybeacons in Gull Marsh Channel, Eckichy Channel and the channel joining the two had to be located by field survey methods. Most of the aids were located by sextant fix but some were located by theodolite fix.
9. **Landmarks and Aids continued**

The objects used to control these fixes are all identified on a copy of chart 1222 and this chart is enclosed with the folder containing other data for map 1169

10. **Boundaries, Monuments and Lines**

The only political limits to be mapped are the corporate limits of Eastville, Virginia. A tracing is being submitted with explanatory notes thereon. This tracing had to be made within the Northampton Court House from the only available record of the corporate limits. There is an abandoned Coast Guard Station on the south end of Hog Island but no boundary limits were obtained for it.

11. **Other Control**

The following topographic stations were established and described on Form 524: DONE, 1961; CELL, 1961; COME, 1961; HUNT, 1961; WARP, 1961; GANG, 1961.

The following topographic station is reported lost on Form 524: WAR, 1942.

The following topographic stations were recovered and identified: 30U, 1942 and FIT, 1942.

12. **Other Interior Features**

All roads and buildings were classified according to current instructions.

There are no bridge or cables, over navigable waters, that need to be measured.

13. **Geographic Names**

No systematic investigation of geographic names was conducted and no errors were found.

14. **Special Reports and Supplemental Data**

One copy of Nautical Chart 1222 is being submitted. This is to aid in the location of aids to navigation.

One tracing showing the approximate location of the corporate limits of Eastville, Virginia is also being submitted.

Submitted October 10, 1961

Elgen T. Jenkins
Surveying Technician
<table>
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<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR $\gamma$-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>P.C. 253</td>
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<tr>
<td>TANKARD 1942</td>
<td>P.C.</td>
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<td>Plotted WWD Dec 19, 1961</td>
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1 FT = 0.3048006 METER

COMPUTED BY: [Signature] DATE: Nov 28, 1961
CHECKED BY: [Signature] DATE: Dec 19, 1961
COMPILATION REPORT T-11689

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-11688.

31. DELINEATION

Compiled graphically.

The photographs were sufficiently clear, but were tilted.

The field inspection was adequate.

32. CONTROL

See photogrammetric plot report

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

The entire manuscript is marsh with a highly congested natural drainage pattern. This has been delineated as shown photographically and according to the field inspection.

35. SHORELINE AND ALONGSHORE DETAIL

The entire shoreline is apparent. The few shoreline structures indicated by the field inspector have been delineated accordingly. Exposed mud flats have been shown with the low-water line symbolization. Channels where visible have been delineated with dashed lines. The shoal and low-water lines were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

None noted by field inspection.
37. **LANDMARKS AND AIDS**

Form 567 for one aid to navigation was submitted to Washington under date of February 21, 1962.

38. **CONTROL FOR FUTURE SURVEYS**

Two forms 524 for topographic stations are being submitted. These are listed under item 49.

39. **JUNCTIONS**

A satisfactory junction has been made with T-11685 on the north, T-11690 on the east and T-11694 on the south. There is no contemporary survey on the west.

40. **HORIZONTAL AND VERTICAL ACCURACY**

No comment.

46. **COMPARISON WITH EXISTING MAPS**

Comparison has been made with AMS quadrangle NASSAWADOX, scale 1:25,000, compiled from aerial photographs in 1942. No outstanding discrepancies were noted.

47. **COMPARISON WITH NAUTICAL CHARTS**

A comparison has been made with chart No. 1222, scale 1:80,000, 19th edition, corrected to January 1, 1962. No outstanding discrepancies were noted.

**ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY**

None.
ITEMS TO BE CARRIED FORWARD

None.

Rudolph Dossett
Carto Photo Aid

APPROVED AND FORWARDED - 4 OCT 1962

V. Ralph Sobieralski
Tampa District Officer
June 22, 1972

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-5907 (Virginia)
T-11688

Atlantic Ocean
Hog Island
North Inlet
Parramore Island
Quinby Inlet
Revel Island
Revel Island Cove
Sandy Island Channel
Stringaree Point
Stringaree Point Cove
The Swash
Wreck Island

Approved:
A. Joseph Wright
Chief Geographer

Prepared by:
Frank W. Pickett
Cartographic Technician
NOTES FOR THE HYDROGRAPHER

Following is a list of topographic stations that may be of use to the hydrographer:

CELL 1961
COME 1961
<table>
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<tr>
<th>1. PROJECTION AND GRIDS</th>
<th>2. TITLE</th>
<th>3. MANUSCRIPT NUMBERS</th>
<th>4. MANUSCRIPT SIZE</th>
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<tbody>
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**CONTROL STATIONS**
- 5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY
  - WHS
- 7. PHOTO HYDRO STATIONS
  - WHS

**ALONGSHORE AREAS**
- 12. SHORELINE
  - WHS

**PHYSICAL FEATURES**
- 20. WATER FEATURES
  - WHS

**CULTURAL FEATURES**
- 27. ROADS
  - WHS

**BOUNDARIES**
- 31. BOUNDARY LINES
  - WHS

**MISCELLANEOUS**
- 33. GEOGRAPHIC NAMES
  - WHS

**FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT**
- Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted in remarks on reverse side.

**SIGNATURES**
- Signature of Compiler: 
  - [Signature]
- Signature of Supervisor: 
  - [Signature]
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<td>CHARTING NAME</td>
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<tr>
<td></td>
<td>VIRGINIA INSIDE PASSAGE</td>
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<td></td>
<td>LITTLE MACHIFONDO CHANNEL TO GREAT MACHIFONDO CHANNEL</td>
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<tr>
<td>LT.2</td>
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<tr>
<td>DAYBN 1</td>
<td>GREAT MACHIFONDO CHANNEL JUNCTION</td>
</tr>
<tr>
<td>DAYBN</td>
<td>THE DEEPS (The Deeps Black Beacon 1934)</td>
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<td></td>
<td>GULL MARSH JUNCTION</td>
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<td>GREAT MACHIFONDO CHANNEL TO SAND SHOAL CHANNEL</td>
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</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field or survey sheets. Information under each column heading should be given.
REVIEW REPORT T-11689

SHORELINE

November 19, 1973

61. GENERAL STATEMENT

See Summary on page 6 of this Descriptive Report.

An ozalid comparison print, showing differences noted in Par. 62 and 63, is bound with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A comparison was made with Survey T-8174, 1:20,000 scale, dated 1943. Significant differences were shown in blue on the comparison print.

T-11689 supersedes previous topographic surveys for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with AMS SHEET 5858 IV NE, NASSAWADOX, VA, scale 1:25,000, dated 1947. This map is a copy of T-8174. Differences are the same and are shown on the comparison print with the same blue line.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

No contemporary hydrographic surveys were available for comparison.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 1222, scale 1:80,000, 36th edition, dated June 30, 1973. No significant differences were noted.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

The Photogrammetric Plot Report, which usually states the accuracy of control used for compilation, was not available for final review and no accuracy statement was made in the Compilation Report. However, there is no reason to believe that accuracy is substandard.
Reviewed by:

Charles H. Bishop
Charles H. Bishop
Cartographer

Approved for forwarding:

Jeffrey G. Carlen, CDR, NOAA
Chief, Coastal Mapping Division, AMC

Approved:

Alfred C. Holmes, RADM, NOAA
Director, Atlantic Marine Center

Approved:

Chief, Photogrammetric Branch
Chief, Coastal Mapping Division
NOTE:
"The photogrammetric location and delineation of features offshore from the mean high-water line on this survey may not be complete or final. The contemporary reviewed hydrographic survey of the area where available should be consulted for the final delineation."

COMPARISON PRINT.
Blue = T-8174 and AMS

T-11689
1:10,000