**FORM 504**

**U. S. DEPARTMENT OF COMMERCE**

**COAST AND GEODETIC SURVEY**

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>SHORELINE</th>
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<tbody>
<tr>
<td>Field No.</td>
<td>Office No.</td>
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<tr>
<td>State</td>
<td>VIRGINIA</td>
</tr>
<tr>
<td>General locality</td>
<td>ACCOMACK COUNTY</td>
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<tr>
<td>Locality</td>
<td>CROSS CREEK TO BURTONS BAY</td>
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</tbody>
</table>

**1959-62**

**CHIEF OF PARTY**

Joseph K. Wilson, Chief of Field Party
V.R. Sobieralski, Tampa District Officer
Alfred C. Holmes, Director, USC

**LIBRARY & ARCHIVES**

**DATE** | JUL 1975 | JUL 1975
DESCRIPTIVE REPORT - DATA RECORD

T-11677

PROJECT NO. (III):
PH-5907

FIELD OFFICE (II):
ACCOMAC, VIRGINIA

CHIEF OF PARTY
Joseph K. Wilson

PHOTOGRAMMETRIC OFFICE (III):
TAMPA, FLORIDA

OFFICER-IN-CHARGE
V. Ralph Sobieralski

INSTRUCTIONS DATED (III) (III):
Field: Oct. 20, 1959
Field Amendment 1: Apr. 26, 1960
Office: Dec. 28, 1960
Office Amendment 1: Aug. 10, 1961
2: Sept. 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):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

GEODETIC DATUM (III):
N.A. 1927

REFERENCE STATION (III):
CUSTIS 4, 1959

LAT.:
37°39'29.8107" (919.1m)

LONG.:
75°38'31.5497" (773.3m)

\( x \) ADJUSTED
\( x \) UNADJUSTED

PLANE COORDINATES (IV):

\( x = 494,917.18 \) FT.
\( y = 2,827,210.10 \) FT.

STATE
Virginia

ZONE
South

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

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):**

M. A. Stewart

**DATE:**

Sept. 1961

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

Air Photo Compilation
Photographs dated: Oct. 13, 1959 and Apr. 28, 1962 (see Item 31)

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

A.R. (W.O.)

**DATE:**

Mar. 1962

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

A.R. (W.O.)

**DATE:**

May 1962

**CONTROL PLOTTED BY (III):**

V. P. Cackowski

**DATE:**

May 1962

**CONTROL CHECKED BY (III):**

R. R. Wagner

**DATE:**

May 1962

**RADIAL PLOT OF CONTROL EXTENSION BY (III):**

R. R. Wagner

**DATE:**

May 1962

**STEREOSCOPIC INSTRUMENT COMPILATION (III):**

Inapplicable

**PLANIMETRY:**

**DATE:**

May 1962

**CONTOURS:**

**DATE:**

May 1962

**MANUSCRIPT Delineated by (III):**

R. E. Smith

**DATE:**

Dec. 1962

**Reviewed by:**

R. R. Wagner

**DATE:**

May 1962

**SCRIBEING BY (III):**

R. Dossett

**DATE:**

Feb. 1963

**Reviewed by:**

W. H. Shearouse

**DATE:**

May 1962

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

R. R. Wagner

**DATE:**

Mar. 1963

**REMARKS:**
DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):
C&GS 9 lens, Single-lens Wild W

PHOTOGRAPHS (III)

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<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<td>4/28/62</td>
<td>1130</td>
<td>1:20,000</td>
<td>Inland sheet</td>
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<tr>
<td>60466</td>
<td>10/13/59</td>
<td>1028</td>
<td>1:10,000</td>
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<td>60467</td>
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<td>60472</td>
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<td>1033</td>
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<td></td>
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TIDE (III)

| REFERENCE STATION: |          |          |          |
|                   |          |          |          |
| SUBORDINATE STATION: |          |          |          |
| SUBORDINATE STATION: |          | Oct. 1973 |          |

Atlantic Marine Center
REVIEW BY (IV): C. H. Bishop

PROOF EDIT BY (IV):          

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III): 5*
RECOVERED: 3
IDENTIFIED: 2

NUMBER OF BM(5) SEARCHED FOR (II): None
RECOVERED: 
IDENTIFIED: 

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 2

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): None

REMARKS:
* Two stations were established.
WALLOPS ISLAND CAMERA STATION NO 10, 1961
NORTH GABLE 1961
<table>
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<th>Compilation Record</th>
<th>Completion Date</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Incomplete manuscript compiled</td>
<td>June 1962</td>
<td>Superseded</td>
</tr>
<tr>
<td>Interior details added</td>
<td>Dec. 1962</td>
<td>Superseded</td>
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<tr>
<td>Compilation complete</td>
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<tr>
<td>Field edit revealed no changes</td>
<td>Oct 1962</td>
<td>Superseded</td>
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<tr>
<td>Final Review</td>
<td>Oct. 1973</td>
<td></td>
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</table>
SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-11677

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

Field inspection prior to compilation was done in September 1961 on 9-lens photographs taken in October 1959.

Compilation was from the 9-lens photographs, and single lens photographs taken in April 1962. Control for compilation was established by a radial plot using the 9-lens photography. The Photogrammetric Plot Report was not available at the time of final review and is not bound with this Descriptive Report.

Field edit was done in October 1962. No errors were found in the field.

Final review was done at the Atlantic Marine Center in October 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 11676, 11677 and 11678
PROJECT PH-5907

2. Areal Field Inspection.

These maps are located along the eastern shore of Virginia, beginning just west of the town of Melfa and continuing eastward across the northern part of Burtons Bay to the Atlantic Ocean, at Metomkin Inlet. The mainland area is accessible by U.S. Highway 13 and various secondary roads connecting thereto. The Pennsylvania Railroad parallels U.S. 13 across the northwest corner of map 11676. The town of Melfa and a part of the town of Onley are located in map 11676. Both are farming communities and have no other industries. The land area of map 11677 consists of the mainland along the west side of Burtons Bay and sizable marsh areas east and north of the bay. The mainland area is devoted exclusively to truck farming. The small un-incorporated settlement of Locustville is located in this map. The land area of map 11678 consists of the northern part of Cedar Island, the southern part of Metomkin Island and the large marsh areas to the west. This map is uninhabited except for the Metomkin Inlet Coast Guard Station, which is located near the north end of Cedar Island. The Intracoastal Waterway crosses maps 11677 and 11678 in a northeast to southwest direction. The waterway is navigable for shallow draft boats only. Numerous mud flats and shoals make the water areas navigable at or near high water only.

Field inspection is believed complete and was performed on the following nine-lens photographs: 60439, 60440, 60441, 60466, 60467, 60468, 60471, 60472, 60473, 60529, 60530, 60531 and 60532. One single lens photograph number 59W9322 was used to supplement the nine-lens photography. In addition to the above, black and white prints of color photography were used to verify office identification of fixed aids to navigation. These photographs are 59W9633 through 59W9643. These aids were checked in the field and have been indicated on the above photographs.

The photographs were of good quality and no difficulty was encountered in their interpretation in the field. The tones ranged from white, in the sand areas, to grey, in the mud flats, to black, in the areas covered by marsh or trees.

No items were deliberately left for field edit.
3. Horizontal Control.

All Coast and Geodetic Survey stations were searched for. The requirements for control, as indicated by the project diagram, were adequately met for these maps.

Two stations were established in map 11677. North Cable 1961 was established by tellurometer traverse, Wallops Is. Camera Station No. 10 1961 was established by intersection. Computations for the positions of the above stations are enclosed.

The following stations were reported lost; 11676 11677 none

11678 BEN (V.F.C.) 1934 Chincoteague to Hog Island (Floyds Bay)
SAND BURR 3 1934 Beacon No. 13 (Black) 1934

4. Vertical Control.

There are no tidal bench marks within these maps.

5. Contours and Drainage.

Contours are inapplicable.

The tidal streams in the marsh areas are self-evident from the photographs. The drainage in the mainland areas of maps 11676 and 11677 has been indicated on the photographs.

6. Woodland Cover.

Woodland cover was inspected and has been classified on the photographs.

7. Shoreline and Alongshore Features.

The mean high water line along the ocean was located by measurements from identifiable photo points. In some cases, particularly around the inlets, the water has swept across the beach and no identifiable points could be found. The mean high water line was then indicated as photographed.

The apparent shoreline was inspected by skiff running close to shore and has been indicated on the photographs.

The low water line was not inspected. The foreshore along the ocean is sand. There are no bluffs or cliffs.

All docks, wharves, piers or landings have been indicated on the photographs.

Submerged cables have been indicated on the photographs. The cable across Metomkin Inlet, northward, has been removed. The Coast Guard Telephone Line now comes from the mainland. The approximate route has been indicated on photograph 56530.

It was located from existing cable signs and information given by the GIC Metomkin Inlet Coast Guard Station.

Other shoreline structures have been clarified.
8. Offshore Features.

The shoal areas around Metomkin Inlet were visited at high water and all of them are covered.

9. Landmarks and Aids.

Landmarks for nautical charts and fixed aids to navigation are adequately covered by Form 567. This form is included with the field data for these maps.


The entire area is in Accomack County, Virginia. The corporate limits of Melfa and Onley have been indicated on photographs 60440 and 60441. A tracing of the official map of Melfa is enclosed. An official map of Onley was not available. The approximate limits have been placed on the photograph with the aid of town officials. The limits of the Coast Guard Reservation, on Cedar Island, have been indicated on photograph 60530.

11. Other Control.

Four recoverable topographic stations were selected for location by the plot.

| 11676 | 11677 |
| none | East Gable, Green Roof House |
| Bell 1961 | North Gable, Unpainted House |
| Telephone Pole 1961 |

12. Other Interior Features.

Buildings were inspected and have been indicated in accordance with Photogrammetry Instruction No. 54. Roads were inspected and have been classified in accordance with Photogrammetry Instruction No. 56. There are no bridges or cables over navigable water. One landing strip for light aircraft has been indicated on photograph 60441.


A systematic investigation of names was not required. No new names are recommended for mapping.
14. Special Reports and Supplemental Data.
   Form 567, submitted with this data.
   Tracing of Official Map of Corporate Limits of
town of Melfa, submitted with this data.
   Letter of Transmittal, submitted with this data.

Submitted,

William M. Reynolds
William M. Reynolds
Sub-unit Photo. Party 720
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>WALLS P ISLAND</td>
<td>Field</td>
<td>Mar. 1927</td>
<td>37° 40' 40.988&quot;</td>
<td>1263.7&quot;</td>
<td>1450</td>
<td>337</td>
<td>28 114 36/60</td>
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<tr>
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<td></td>
<td>7.5' 37' 40.962&quot;</td>
<td>1119.7&quot;</td>
<td>1470</td>
<td>385</td>
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<td>10 1961</td>
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1 FT. = 0.3048006 METER

COMPUTED BY: [Signature]
DATE: Dec. 1961
CHECKED BY: [Signature]
DATE: 3/11/62
COMPILATION REPORT
T-11677

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-11680

31. DELINEATION

The graphic method was used. The photographs were clear and of fair scale. The marsh area east of Burtons Bay and south of Teagles Ditch was compiled from single lens photographs 62W3867 and 62W3868.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable

35. SHORELINE AND ALONGSHORE DETAILS

The mean high-water line was delineated according to the field inspection on the 1959 nine lens photographs and office interpretation of the 1962 photographs. The field inspection was adequate. The approximate low-water line has been shown from office interpretation.

36. OFFSHORE DETAILS

Compiled according to field inspection notes.

37. LANDMARKS AND AIDS

Six aids have been submitted on form 567 under the date of June 13, 1962. One landmark has been shown and submitted on form 567 by the field inspector under the date of Sept. 25, 1961.
38. CONTROL FOR FUTURE SURVEYS

Two topographic stations were located and are listed under Item 49. No form 524 is submitted as they are natural objects.

39. JUNCTIONS

Junctions have been made with: T-11673 to the north, T-11680 to the south, T-11678 to the east, and to the west with USGS quadrangle "ACCOMAC" scale 1:24,000.

40. HORIZONTAL CONTROL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS quadrangle ACCOMAC, scale 1:24,000 dated 1957. The two are in fair agreement.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with chart 1221, scale 1:80,000 edition of March 1962. The two are in fair agreement.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

[Signature]
R. E. Smith
Carto Photo Aid

APPROVED AND FORWARDED: 9 MAY 1963

[Signature]
V. Ralph Sobieralski
Tampa District Officer
June 22, 1972

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-5907 (Virginia)

T-11677

Burtons Bay
Burtons Shore
Cedar Island
Cedar Island Bay
Cross Creek
Cross Gut
Custis Creek
Custis Neck
Finney Creek
Great Channel
Locustville
Nickawampus Creek
Teagles Ditch

Approved:

A. J. Wraight
A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Cartographic Technician
49. **NOTES FOR THE HYDROGRAPHER**

The following are topographic stations:

* N. GABLE, 1961 (unpainted house)
  
  E. GABLE, 1961 (green roof house)

* This is not the same as Triangulation station N. GABLE 1961 which is also on this sheet.
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<td>36. DISCREPANCY OVERLAY</td>
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<td>38. FIELD INSPECTION PHOTOGRAPHS</td>
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</tbody>
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**Signature of Reviewer**: M. M. Slaveney
**Signature of Compiler**: G. E. Smith
**Signature of Supervisor**: M. M. Slaveney

*USE REVERSE SIDE FOR REMARKS*
FIELD EDIT REPORT

Shoreline field edit was done by William M. Reynolds in October 1962. No report has been received, though a note on the field edit ozalid states "inside shoreline was checked visually and appears good."

Tampa
TO BE CHARTED  
TO BE DELETED  

I recommend that the following objects which have (MAY) been inspected from seaward to determine their value as landmarks be charted on (MAY) the charts indicated.

The positions given have been checked after listing by

<table>
<thead>
<tr>
<th>STATE: Virginia</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
</tr>
<tr>
<td>----------------</td>
</tr>
<tr>
<td>TOWER (Metomkin Inlet, Coast Guard Lookout Tower No. 152 1959)</td>
</tr>
<tr>
<td>DOME (Wallops Island Camera Station No. 10 1961)</td>
</tr>
</tbody>
</table>

chart 1221 exp'd 1-15-62 R28
I recommend that the following objects which have (deleted) been inspected from seaward to determine their value as landmarks be (deleted from) the charts indicated.

The positions given have been checked after listing by _____________________________

for Joseph K. Wilson
Chief of Party.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
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<td>Metomkin Bay to Wachapreague Daybeacon 23A</td>
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<td>75 37.3</td>
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<td>37 39.2</td>
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<td>75 37.8</td>
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<td>&quot;</td>
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</tr>
</tbody>
</table>
### NONFLOATING AIDS OR LANDMARKS FOR CHARTS

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by William H. Reynolds, Chief of Party.

#### Virginia

<table>
<thead>
<tr>
<th>Charting Name</th>
<th>Description</th>
<th>Signal Name</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Datum</th>
<th>Method of Location and Survey No.</th>
<th>Date of Location</th>
<th>Chart Affected</th>
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<td>Daybeacon Jet. Daybeacon 14</td>
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<td>75 36.4</td>
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</tr>
</tbody>
</table>
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by

<table>
<thead>
<tr>
<th>STATE</th>
<th>Virginia</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>1</td>
<td>Metomkin Bay to Wachapreague</td>
</tr>
<tr>
<td>2</td>
<td>Metomkin Bay to Wachapreague</td>
</tr>
<tr>
<td>3</td>
<td>Metomkin Bay to Wachapreague</td>
</tr>
</tbody>
</table>
**Nonfloating Aids or Landmarks for Charts**

**Tampa, Florida**  
June 13, 1962

I recommend that the following objects, which have been inspected from seaward to determine their value as landmarks, be charted on the charts indicated.

The positions given have been checked after listing by R. E. Smith, for V. Ralph Sobiersalski, Chief of Party.

<table>
<thead>
<tr>
<th>State</th>
<th>Virginia</th>
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<tbody>
<tr>
<td>Charting Name</td>
<td>Description</td>
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<td>-----------</td>
</tr>
<tr>
<td>DAYEN 27</td>
<td>Metomkin Bay to Wachapreague</td>
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<tr>
<td>NIGHT 28</td>
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<tr>
<td>DAYEN 29</td>
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<td>NIGHT 30</td>
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<tr>
<td>NIGHT 31</td>
<td></td>
</tr>
<tr>
<td>DAYEN 32</td>
<td></td>
</tr>
</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 survey sheets. Information under each column heading should be given.
REVIEW REPORT T-11677
SHORELINE
October 23, 1973

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

An ozalid comparision 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-8441, scale 1:20,000, dated 1942. Significant differences in shoreline were shown on the comparison print in blue.

In the area compared, T-11677 supersedes previous topographic surveys for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with USGS Quadrangle ACCOMAC, VA., scale 1:24,000, dated 1957. Significant shoreline differences were shown in brown on the comparison print.

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 1221, scale 1:80,000, 16th edition, dated 11 Sept. 1971. It is noted that fixed aids to navigation have been renamed and renumbered and two more daybeacons are charted. Aids appear on T-11677 as they existed as of October 1962.

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 sub-standard. It is believed that this map is adequate for nautical chart contraction.
Reviewed by:

Charles H. Bishop
Cartographer

Approved for Forwarding:

Melvin J. Blasch, 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.
U.S. COAST AND GEODETIC SURVEY
SHORELINE MANUSCRIPT
T-11677
VIRGINIA
ACCOMACK COUNTY
CROSS CREEK TO BURTONS BAY
SCALE 1:10,000
(1 inch = 833.33 ft.)

CONTROL DATA
Polyconic projection: 1927 North American Datum
5,000 foot grid based on Virginia (South Zone) plane coordinate system
Datum plane: Mean High Water