<table>
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<th>Description</th>
<th>Details</th>
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<tr>
<td>Type of Survey</td>
<td>SHORELINE (PHOTOGRAHMETRIC)</td>
</tr>
<tr>
<td>Field No.</td>
<td>T-12089</td>
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<tr>
<td>Office No.</td>
<td>T-12089</td>
</tr>
<tr>
<td>Locality</td>
<td>Big Bay Point to Figgs Landing</td>
</tr>
<tr>
<td>State</td>
<td>Maryland</td>
</tr>
<tr>
<td>General locality</td>
<td>Worcester County</td>
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1961-1963

Chief of Party
- Ray M. Sundeen
- Miller J. Tonkel, Baltimore Dis. Office

Library & Archives
**DESCRIPTIVE REPORT - DATA RECORD**

**PROJECT NO. (II):**

PH-6103

**FIELD OFFICE (II):**

Snow Hill, Maryland

**CHIEF OF PARTY**

Ray M. Sundeen

**PHOTOGRAMMETRIC OFFICE (III):**

Baltimore, Maryland

**OFFICER-IN-CHARGE**

Miller J. Tonkel

**INSTRUCTIONS DATED (III) (IV):**

II 20 November 1961
III 24 October 1962
26 July 1963 - Amendment I

**METHOD OF COMPILATION (III):**

Kelsh Plotter

**MANUSCRIPT SCALE (III):**

1:10,000

**STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):**

1:6,000

**DATE RECEIVED IN WASHINGTON OFFICE (IV):**

**DATE REPORTED TO NAUTICAL CHART BRANCH (IV):**

**APPLIED TO CHART NO.:**

**DATE:**

**DATE REGISTERED (IV):**

**GEOGRAPHIC DATUM (III):**

NA 1927

**VERTICAL DATUM (III):**

Mean Higher High Water (MHHW) except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (23) refer to sounding datum
i.e., mean low water or mean lower low water

**REFERENCE STATION (III):**

No station of third-order or higher accuracy within limits of map.

**LAT.:**

**LONG.:**

☐ ADJUSTED
☐ UNADJUSTED

**PLANE COORDINATES (IV):**

STATE

ZONE

**Y:**

**X:**

**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):**
- Robert S. Tibbetts

**Date:**
- Jan.-Feb. 1962

**Mean High Water Location (III) (State Date and Method of Location):**
- Kelsh Plotter and field inspection photographs

---

**Projection and Grids Ruled by (IV):**
- A. Roundtree

**Date:**
- 8-29-62

**Projection and Grids Checked by (IV):**
- I. Y. Fitzgerald

**Date:**
- 9-10-62

**Control Plotted by (III):**
- L. A. Senasack

**Date:**
- 4-3-63

**Control Checked by (III):**
- L.O. Neterer

**Date:**
- 4-3-63

**Radial Plot or Stereoscopic Control Extension by (III):**
- H. P. Eichert
- L. A. Senasack

**Date:**
- 3-22-63
- 6-6-63

**Stereoscopic Instrument Compilation (III):**
- L. O. Neterer

**Planimetry**
- Date: 4-19-63

**Contours**
- Date: 

**Manuscript Delineated by (III):**
- R. F. Carr

**Date:**
- 5-21-63

**Scribing by (III):**
- J. Cregan

**Date:**
- 5-30-63

**Photogrammetric Office Review by (III):**
- E. L. Rolle

**Date:**
- 5-30-63

**Remarks:**

---
### DESCRPTIVE REPORT - DATA RECORD

**KIND OR SOURCE (III):** Wild RC-8

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<th>SCALE</th>
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<tr>
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<td>5-25-61</td>
<td>0905</td>
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<td>62W3760</td>
<td>4-28-62</td>
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<td>3-3-63</td>
<td>1010</td>
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### TIDE (III)

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<th>RATIO OF RANGES</th>
<th>MEAN RANGE</th>
<th>SPRING RANGE</th>
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<td>Snow Hill Landing, Maryland</td>
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**WASHINGTON OFFICE REVIEW BY (IV):** Leo F. Beugnet, AMC

**DATE:** Jan, 1972

**NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):** 1

**RECOVERED:** 0

**IDENTIFIED:** 0

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

**RECOVERED:** 0

**IDENTIFIED:** 0

**NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):** 0

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

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<td>Final Review</td>
<td>Jan. 1972</td>
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<td>12074</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>153.3</strong></td>
<td><strong>292</strong></td>
<td></td>
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SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12089

Shoreline survey T-12089 covers a part of the west shore of Chincoteague Bay in the vicinity of Big Bay Marsh. This is one of twenty-one similar maps in project FH-6103. The primary purpose of the maps was to provide new shoreline for nautical charts and special charts for the State of Maryland, Department of Tidewater Fisheries.

Field operations preceding compilation included recovery and identification of horizontal control, field and shoreline inspection, selection of landmarks for charts and location of fixed aids to navigation.

Compilation was at 1:10,000 scale by Kelsh Plotter methods using the photography of May 1961 and March 1963. The manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 3 minutes 45 seconds in longitude which was subsequently scribed and reproduced on cronaflex. Final review was in the Atlantic Marine Center in January 1972. One cronaflex positive and a negative are forwarded for record and registry.
FIELD INSPECTION REPORT
MAPS T-120F5, T-120F6, T-120F8
T-120F9, T-120F1, and T-120F2

PROJECT PB-6103
CHINCOTEAGUE BAY, MARYLAND

2. Areal Field Inspection

The area covered by these six maps is located on
the western and northern sides of Chincoteague Bay.
The maps of the Barrier Islands were purposely excluded
at this time because of revision needed due to the
coastal storm of 6 March, 1942. The other maps will
be submitted when the new photography has been inspected
and control identified.

Chincoteague Bay is generally shallow with the major
small boat channels marked by aids. The bay is chiefly
used by small pleasure boats and shallow-draft vessels
operated by commercial crab and oyster fishermen.

The land area of the maps consists mainly of marsh
areas along the shore.

On maps T-120F3 (to be submitted later) and T-120F6
color photography was taken of fixed aids to navigation.
Most of these photos were over open water; therefore, the
aids were cut-in from triangulation stations.

The quality of the photographs was fair. The aids on
maps T-120F8, T-120F9, T-120F1, and T-120F3 (to be
submitted later) were cut-in from photo points as they
could not be seen on the photographs.

It is believed enough photographic tones have been
labeled to clarify all tones for the compilers.

3. Horizontal Control

All stations indicated on the project diagram were
searched for. Requirements for horizontal control ident-
idification as indicated on a special copy of the project
diagram were met. "Triangulation station LAWRENCE, 1952"
was substituted for station HOLLAND, 1942 which could not
be recovered.
3. Horizontal Control Cont'd

The following stations are lost or destroyed and reported on Form 526:

<table>
<thead>
<tr>
<th>Station</th>
<th>Description</th>
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<tr>
<td>T-12085</td>
<td>PORT PR VASHE 1933</td>
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<tr>
<td>T-12086</td>
<td>NONE</td>
</tr>
<tr>
<td>T-12088</td>
<td>NONE</td>
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</table>

<table>
<thead>
<tr>
<th>Station</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-12091</td>
<td>MONEY 1907</td>
</tr>
<tr>
<td>T-12092</td>
<td>LONG (VPC) 1933</td>
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</tbody>
</table>

4. Vertical Control

There are no tidal bench marks within the areas of these maps.

5. Contours and Drainage

Drainage consists of small creeks and systems of mosquito control ditches in marsh areas. The ditches are readily apparent and were indicated on the photographs.

6. Woodland Cover

The tree areas are mostly pine with some small areas interspersed with hardwoods.

7. Shoreline and Alongshore Features

The shoreline is mostly apparent. Nearly all the shoreline on these maps is a fringe of marsh. The entire shoreline was inspected by skiff and has been indicated on the photographs. There are occasional short stretches of shoreline that are fast land containing sand or shell.

The shoreline was reinspected by skiff after the coastal storm of 6 March, 1962. Due to the flooding of the marsh areas the storm had no effect on the shoreline on the west side of Chincoteague Bay.

On map T-12092 some alongshore features were changed. These have been indicated on the photographs.
8. Offshore Features

There are no offshore features worthy of mapping.

9. Landmarks and Aids

There are no outstanding landmarks on these maps to be charted,
Fixed aids to navigation are adequately covered on Form 567.

10. Boundaries, Monuments, and Lines

The Maryland-Virginia state line can be established from the geographic positions of the three monuments along the line which are triangulation.
A copy of the General Highway Map of Worcester County Maryland is enclosed.
The approximate limits of the Girdletree Wildlife Demonstration Area controlled by the state of Maryland was delineated according to information supplied by Mr. Hamilton Urimer, caretaker of the reserve.

11. Other Control

Four previously marked topographic stations were searched for and two were recovered.
BEVENS WINDMILL (T-12085), and C-58 (T-12088), were recovered. MAY (T-12069) and FOR (T-12092) were not recovered. Forms 524 have been submitted on all these stations.
The recovered topographic stations were reidentified on the photographs for this project.
Photo points of natural and physical features were marked with copperweld stakes to provide supplemental horizontal control for the Maryland Department of Tidewater Fisheries. These points were spaced to provide control for visual sextant fixes anywhere in the bay area. The points are identified on the ratio prints and a descriptive sketch of each location was made on the backs of the photographs.

12. Other Interior Features

All roads and buildings have been inspected and classified in accordance with Photogrammetry Instructions Numbers 54 and 56.
The shore ends of all overhead power lines and submerged cables have been indicated on the photographs.
12. **Other Interior Features Cont'd**

There are no airports or landing fields within this area.

13. **Geographic Names**

A special report on geographic names will be submitted at a later date.

14. **Special Reports and Supplemental Data**

Special Report Geographic Names, Project PI-6103, to be submitted at a later date.
Special Report Coast Pilot, Project PI-6103, to be submitted at a later date.
Worcester County Highway Map enclosed with this data.

The field photographs and all other data for the compilation of these maps are submitted by Letter of Transmittal dated 23 March 1962.

Respectfully submitted
23 March 1962,

Ray W. Sundeau
Chief, Photo Party 723
PHOTOGRAMMETRIC PLOT REPORT
PH-6103
Chincoteague Bay, Md.

March 1963

21. Area Covered

Complete or partial coverage of the following surveys in Chincoteague Bay:
  T-12074 thru T-12096
  T-12088
  T-12089
  T-12091
  T-12092

See previous reports and sketches covering strips 7, 10, 11.

22. Method

Three strips were bridged and adjusted by analytic aero-triangulation, namely 13a, 13b, and 14.

The attempt was made at first to run one strip from 61S 9044 thru 9068. As the result was not satisfactory, the strip was run in two parts with an overlap of six models. This afforded a common area for comparison. In this second attempt photograph 61S 904¼ was eliminated as its very short base caused a poor cantilever solution.

The bridges turned out satisfactorily as indicated by the closures in the sketch attached. Strip 13a appeared to be the stronger of the two and since the discrepancies between the two in the overlap area were small (only four points out of 57 as great as 0.3 mm at 1:10,000 scale and the majority insignificant) it was decided to accept the values from strip 13a rather than the mean of the two.

Strip 14, to the west, was needed as several models were required to complete coverage. It was run on one control point, DOWNS, 1955 Sub. Pt. "B" and five pass points from strip 13a. The adjustment was very satisfactory with closures of less than 0.2 mm at 1:10,000 scale.

23. Adequacy of Control

Horizontal control complied with project instructions and was adequate. The sub points for station PINE, 193½, used as
a check showed closures larger than expected (see sketch attached). Seven other triangulation points in this strip held closely. Bridging results comply with National Standards of Map Accuracy for 1:10,000.

24. Supplemental Data

None

25. Photography

Photography was adequate with regard to overlap and definition. Additional photographic coverage is needed for compilation and will be provided. No further bridging is anticipated.

Submitted by:

Henry P., Elkhart

Approved by:

Everett H. Ramsey
Chief, Aerotriangulation Sec.
21. AREA COVERED

This radial plot covers the areas of the surveys listed above. These are shoreline surveys along Chincoteague Bay and Assateague Island. This radial plot was needed for the compilation of the area and islands west of the Aerotriangulation Bridge Strips 10 and 11 and east of Strip 13B. This includes Tingle Island, Pirate Islands southward to the project limits on the eastern side of Chincoteague Bay. On the western side of Chincoteague Bay the radial plot starts just south of Snow Hill Landing and continues southward to the project limits.

22. METHOD-RADIAL PLOT

Map manuscripts:

Vinylite sheets, with the polyconic projections in black, Maryland Grid in red and/or Virginia South Zone in green which were furnished by the Washington Office.

The positions of all triangulation stations, substitute points and Aerotriangulation Bridge points were plotted on the manuscripts with the coordinatograph.

A sketch showing the layout of the surveys and photograph centers is attached to this report.

Photographs:

Thirty (30) photographs ratioed to the scale of 1:10,000 were used in this plot and are numbered as follows:

- 61-S-9066 thru 9068
- 61-S-9298 " 9302
- 62-M-3757 " 3764
- 62-M-3786 " 3793
- 63-M-3382 " 3388

All photographs were printed on single weight paper with the exception of the flight 62-M-3786 thru 3793 which were on cronapaque.
Templets:

Vinylite templets were made of all photographs. No master templet was available for these single lens photographs.

Closure and Adjustment to Control:

The radial plot was constructed directly on the map manuscripts. The construction began with the flight 62-W-3736 thru 3793, which held to the stereo-points as dropped in bridge strips number 10 and 11. Flight 62-W-3757 thru 3761 was then laid using common points between flights. Flight 63-W-3382 thru 3388 was then laid tying into what was believed to be common stereo-bridge points on bridge 138. The templets of photos on bridge 138 were added to give stronger position for lights which are aids to navigation.

While laying the templets for photos 61-S-9298 thru 9302, it was noted that it was impossible to make a tie across Chincoteague Bay. The error was as much as from 2 to 3 millimeters. Since this flight did not have any images of the aids to navigation on them and since they were printed on light weight paper, the error could be paper distortion. Since we only needed this flight for delineation of the western shore of Chincoteague Bay, the rays were cut off the templets on the eastern side of the bay. The centers will be only good for delineation on the western side of the bay. All of these centers fall in the water area, and for this reason they are dashed centers on the map manuscripts.

Transfer of Points:

The position of all photogrammetric points and photograph centers were pricked on the top templet and drilled down through the templets and map manuscripts.

23. Adequacy of Control

The density and distribution of identified control and stereo-bridge points was adequate.

24. Supplemental Data

None.
25. PHOTOGRAPHY

The photography was adequate as far as coverage, overlap and image definition. There could be only one suggestion that could be made, and that is where there is a need for a radial plot there is also a need for the photographs to be printed on double weight paper so that the photograph will lay flat and would not distort due to the paper shrinking and expanding and warping.

26. POSITIONS OF AIDS TO NAVIGATION

After all of the templates were taped down onto the map manuscripts the various field cuts to the lights in the area were checked with the radially plotted positions of the office identified lights, which were pricked using as aid Chart 1220, Revised date 8/6/52. The following is a list of lights and how they were held as comparison with the field angles from the List of Direction. This was done to verify the radial plot.

Chincoteague Bay Light 16 - Without the aid of a radial plot it would have been impossible to locate this point. The cuts as given by the fieldman could have been any of five different points. The cuts from Photo 12 and Boundary Monument Pope Island, 1907 Ecc. missed by approximately 1.5 mm to the southeast and 4.0 mm to the east respectively. The difference between the intersection of the cuts from Photo Point 09 and Photo Point 08 and the radially plotted position was approximately 0.5 mm. An average point was pricked and drilled.

Chincoteague Bay Light 17 - The image for this light did not fall on any of the 1963 photographs. The field cuts from Photo Point 09, Boundary Monument Pope Island, 1907, Ecc. and Cord (VFC), 1933 made a fairly good intersection. The point pricked and drilled was the mean intersection of these three cuts. The cut from Photo Point 08 fell approximately 2.6 mm to the south and was disregarded.

Chincoteague Bay Light 16 - The cuts from Photo Points 03, 11 and 12 fell within .3 mm of the radial plotted position. The point pricked and drilled was the mean of the aforementioned. The field cut from Photo Point 08 fell approximately 1.3 mm to the east, and the cut from Boundary Monument Pope Island, 1902 Ecc. fell approximately 3.0 mm to the north. These two cuts were disregarded.
Johnson Bay Light 1 - The field cuts from Photo Points 08 and 11 agree with the strong radial plotted position. The cut from Photo Point 12 was disregarded because it fell approximately 0.7 mm to the east.

Johnson Bay Light 3 - The intersection of field cuts from Photo Points 11 and 12 fell approximately 0.7 mm from a good three cut radial plotted position. The point pricked and drilled was the mean of these two intersections. The field cut from Pluto Point 08 fell approximately 1.5 mm to the south and was disregarded.

George's Island Landing Light 2 - The field cuts from Photo Point 12 and Cord (WFC), 1933 agreed with the radial plotted position. The intersection of these five rays was pricked and drilled. The field cut from Photo Point 03 fell approximately 1.0 mm to the south while the field cut from Photo Point 13 fell approximately 4.6 mm to the west. These two cuts were disregarded.

George's Island Landing Light 4 - The field cuts from Photo Points 03, 12 and Cord (WFC), 1933 agreed with the four ray intersection of the radial plot. The only bad ray, which was disregarded, came from Photo Point 13 which fell approximately 5.3 mm to the southwest.

Greenbackville Light 1 - The position of the intersections of the radial plot, the field cuts and the position for this light as shown on Survey No. T-11660 (Project FH-5907) are all in agreement with each other.

Greenbackville Light 3 - The field cuts from Photo Points 00, 02 and 06 agree with the radially plotted position. This point was pricked and drilled. The position as shown on Survey No. T-11660 (Project FH-5907) falls 0.8 mm to the west. The field cut from Cord (WFC), 1933 fell approximately 0.5 mm to the south. These latter two were disregarded.

Respectfully submitted
July 8, 1963

Leroy A. Senasack
Cartographer (Photo)
There are no stations of third-order or higher accuracy within the limits of this map.
COMPILATION REPORT

T-12089

There was no compilation report with the data for this map at the time of final review.
January 14, 1972

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6103 (Maryland & Virginia)

T-12089

Big Bay Marsh
Big Bay Point
Blue Pond
Chincoteague Bay
Cobblers Island
Easter Opening
Figgs Landing
Martin Bay
Martin Point
Mink Tump
Purnell Pond
Rattlesnake Island
Ready Cove
Ready Cove Tump
Robbins Tump
Rum Harbor Marsh
Scotts Hammocks
Watermelon Point

Approved by:
A. Joseph Wright
Chief Geographer

Prepared by:
Frank W. Pickett
Cartographic Technician
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<th>COAST AND GEODETIC SURVEY</th>
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<td>T. 12089</td>
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</tr>
<tr>
<td><strong>1. PROJECTION AND GRIDS</strong></td>
<td><strong>2. TITLE</strong></td>
<td><strong>3. MANUSCRIPT NUMBERS</strong></td>
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<td><strong>CONTROL STATIONS</strong></td>
<td><strong>5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY</strong></td>
<td><strong>6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY</strong> (Topographic stations)</td>
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<tr>
<td><strong>8. BENCH MARKS</strong></td>
<td><strong>9. PLOTTING OF SEXTANT FIXES</strong></td>
<td><strong>10. PHOTOGRAMMETRIC PLOT REPORT</strong></td>
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<td><strong>13. LOW-WATER LINE</strong></td>
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<td><strong>17. LANDMARKS</strong></td>
<td><strong>18. OTHER ALONGSHORE PHYSICAL FEATURES</strong></td>
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<tr>
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<td><strong>20. WATER FEATURES</strong></td>
<td><strong>21. NATURAL GROUND COVER</strong></td>
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<td><strong>23. STEREOSCOPIC INSTRUMENT CONTOURS</strong></td>
<td><strong>24. CONTOURS IN GENERAL</strong></td>
<td><strong>25. SPOT ELEVATIONS</strong></td>
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<td><strong>CULTURAL FEATURES</strong></td>
<td><strong>27. ROADS</strong></td>
<td><strong>28. BUILDINGS</strong></td>
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<td><strong>BOUNDARIES</strong></td>
<td><strong>31. BOUNDARY LINES</strong></td>
<td><strong>32. PUBLIC LAND LINES</strong></td>
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<td><strong>MISCELLANEOUS</strong></td>
<td><strong>33. GEOGRAPHIC NAMES</strong></td>
<td><strong>34. JUNCTIONS</strong></td>
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<tr>
<td><strong>36. DISCREPANCY OVERLAY</strong></td>
<td><strong>37. DESCRIPTIVE REPORT</strong></td>
<td><strong>38. FIELD INSPECTION PHOTOGRAPHS</strong></td>
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<td><strong>40. REVIEWER</strong></td>
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<td>E. L. Rolle</td>
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<td><strong>41. REMARKS</strong> (See attached sheet)</td>
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<td><strong>FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT</strong></td>
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<td><strong>42.</strong> Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.</td>
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<td><strong>COMPILER</strong></td>
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<td><strong>43. REMARKS</strong></td>
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FIELD EDIT REPORT

T-12089

This survey was not field edited.
61. GENERAL STATEMENT

See Summary, which is page 6 of the descriptive report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with a copy of registered survey T-8155, a 1:20,000 scale survey made in 1942. The two surveys were found to be in good general agreement.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with USGS BOXIRON, MD.-VA. 1:24,000 scale quadrangle. This survey is identical with T-8155 and was found to be in agreement with T-12089.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

There are no contemporary hydrographic surveys within the area of this map.

65. COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with chart 1220, 18th edition, July 17, 1971. No discrepancies were noted.
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with instructions and was found to be adequate for nautical chart construction purposes.

Reviewed by:

Leo F. Beugnet
Cartographer

Approved for forwarding:

Melvin J. Ambach, CDR, NOAA
Chief, Photogrammetry Division, AMC

Approved:

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

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division