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<th>PLANIMETRIC</th>
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<td><strong>Field No.</strong></td>
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<tr>
<td><strong>Office No.</strong></td>
<td>T-11789</td>
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**LOCALITY**

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<td><strong>General locality</strong></td>
<td>CHEASAPEAKE BAY-CALVERT COUNTY</td>
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<tr>
<td><strong>Locality</strong></td>
<td>NORTH BEACH</td>
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</tbody>
</table>

**19.69**

**CHIEF OF PARTY**

G. F. Wirth, Chief of Field Party

V. Ralph Sobieralski, Tampa District Office

**LIBRARY & ARCHIVES**

**DATE**

APR 19 1963
DESCRIPTIVE REPORT - DATA RECORD

T -11789

Project No. (II): Ph-6008

Quadranlge Name (IV):

Field Office (II): Cheasapeake Beach, Maryland

Chief of Party: George F. Wirth

Photogrammetric Office (III): Tampa, Florida

Officer-in-Charge: V. Ralph Sobieralski

Instructions dated (II) (III): 31 August 1960

Amendment 1 24 October 1960

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6,000

Scale Factor (III): Pantographed to 1:10,000

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

Reference Station (III): BAKER 1933

Lat.: 38° 43' 22.71" (700.4 m) Long.: 76° 31' 36.51" (882.0 m)

Adjusted

Plane Coordinates (IV):

State: Maryland Zone: I

\(X = 935,003.66 \text{ ft.} \)

Y = 324,336.09 ft.

Roman numerals indicate whether the item is to be entered by (II) 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.
Areas contoured by various personnel
(Show name within area)
(I) (II) (III)
Not applicable
DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II):  G. F. Wirth  
                          C. H. Nixon  
                          J. E. Tolodziecki Jr.  
                          Date: Nov. 1960

Planetable contouring by (II):  Inapplicable  
                          Date: 

Completion Surveys by (II):  Inapplicable  
                          Date: 

Mean High Water Location (III) (State date and method of location):  Air photo compilation  
                                      Date of photographs: 23 July 1960

Projection and Grids ruled by (IV):  R.A.C. (W.O.)  
                                      Date: Oct. 1960

Projection and Grids checked by (IV):  J.D.C. (W.O.)  
                                      Date: Oct. 1960

Control plotted by (III):  E. T. Ogilby  
                                      Date: Jan. 1961

Control checked by (III):  I. I. Sapirstein  
                                      Date: Jan. 1961

Stereoscopic
Control extension by (III):  Washington Office  
                                      Date: Oct. 1960

Stereoscopic Instrument compilation (III):  E. T. Ogilby  
                                      Date: Jan. 1961
                                      Inapplicable  
                                      Date:

Manuscript delineated by (III):  E. T. Ogilby  
                                      Date: Jan. 1961

of compilation
Photogrammetric Office Review by (III):  W. H. Shearouse  
                                      Date: Feb. 1961

Elevations on Manuscript  
checked by (II) (III):  Inapplicable  
                                      Date:
DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): Wild Single-lens "S"

PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<tr>
<td>605-8588</td>
<td>23 July 1960</td>
<td>09:55</td>
<td>1:30,000</td>
<td>0.5</td>
</tr>
<tr>
<td>8589</td>
<td></td>
<td>09:56</td>
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</table>

Tide (III)

Reference Station: Baltimore Maryland
Subordinate Station: Chesapeake Beach
Subordinate Station: Fairhaven, Herring Bay

Washington Office Review by (IV):

Final Drafting by (IV): R. E. Smith Jr. (Tampa District Office)
Reviewed by (IV): I. I. Saperstein
Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 9
Shoreline (More than 200 meters to opposite shore) (III): 5.2
Shoreline (Less than 200 meters to opposite shore) (III): Inapplicable
Control Leveling - Miles (II): Inapplicable
Number of Triangulation Stations searched for (II): 11
Number of BMs searched for (II): 3
Number of Recoverable Photo Stations established (III): 10 (6 natural objects and 2 Tidal B.M.'s)
Number of Temporary Photo Hydro Stations established (III): None

Remarks:
One station ("FAIRHAVEN 2"), recovered and identified for this sheet, is about .4 mile north of the sheet limits.
Preface

T-11789

The text of this report covers sheets T-11789, 790, and 791. These are the northernmost sheets of Project PH-6008. There are six sheets in this project; all 1:10,000 scale.

The area covered by these three sheets extends along the west shore of the Chesapeake Bay from Dares Beach to Fair Haven, Maryland. The Calvert - Anne Arundel County Line splits Sheet T-11789 approximately in half. Anne Arundel County occupies the northern half of this Sheet.

The field operations consisted of control recovery (on single lens 1:30,000 scale panchromatic contact prints), field inspection (on single lens 1:10,000 scale ratio prints), and various other reports and investigations covered in this text. One deviation from normal planimetric mapping was the establishment of supplemental control for the charts that are being compiled for the "Maryland Department of Tidewater Fisheries".
Field Inspection Report

PH - 6008

Chesapeake Bay - West Shore - Maryland

2. Areal field inspection

The area included in these sheets consists of rolling hills, relatively large wooded areas, and well established beach communities. The shoreline varies from sandy - clay cliffs on the southerly two sheets to relatively flat areas on sheet T - 11789. The cliffs begin to appear along the beach again in the northern section of T - 11792. Chesapeake Beach, North Beach, and the Holland Point Area are well established settlements with two excellent boat harbors; "Rod 'N Reel Club" on Fishing Creek, and "Rose Haven Harbor" on the HerringBay side of Holland Point. A number of "sport fishing" charter boats are available at the "Rod 'N Reel Club".

A few large piers are located in the North Beach - Chesapeake Beach area, but shallow depths exists at the ends of all of them.

The contact prints for these three sheets have the same characteristics as those for sheets T - 11792. See Report for Sheet T-11792, item 2, paragraphs 3 and 4, for details.

3. Horizontal Control

See report for Sheet T - 11792 for horizontal control recovery and identification.

All C.&G.S. stations on these three sheets were searched for and the following were reported as "Lost" on Form 526.

T - 11789
HOLLAND NORTH 2, 1898
HOLLAND 1906
WHARF - no description available
NORTH BEACH OPUOLA CALVERT HOTEL, 1933
HOLLAND 3, 1907
BEACON E, 1945
BEACON 1, 1945
BEACON D, 1945

T - 11790
BEACON 2, 1945
BROWNE BASE, SOUTH, 1941
TRaverse Stake No. 9, 1944
TRaverse Stake No. 7, 1944
TRaverse Stake No. 6, 1944
REFERENCE MARK No. 1 OF BENCH MARK No. 1, 1944
TRaverse Stake 15, 1944
ILL 2, 1907
ILL, 1898
HUTCHINS, 1934 - Can possibly be recovered.
TRaverse Stake 35, 1944
TRaverse Stake 36, 1944
TRaverse Stake 20, 1944
CHESAPEAKE BEACH WATER TANK, 1933
BLAKE 2, 1898
TRaverse Stake 12, 1944
TRaverse Stake 22, 1944
CHESAPEAKE BEACH SMOKE STACK, 1933
BEACON F, 1945
BEACON 3, 1944
WAVE, 1944 - Reported relocated by the U.S. Navy -
Data forwarded to C&G.S. - Wash. 25, D.C.
BENCH MARK No. 1, 1944
BENCH MARK No. 2, 1944
BROWNE BASE NORTH, 1944
T - 11791
BASFORD, 1907
WILSON NORTH CHIMNEY
HANCE HOUSE CHIMNEY

4. Vertical control

Contours Not Applicable

Tidal Bench Marks in the area were recovered with the
following results

T - 11789
B.M. 1 - Recovered - Established as Topo
B.M. 2 - Recovered and identified
B.M. 3 - Recovered - Established as Topo

T - 11790
B.M. 1 - Lost
B.M. 2 - Lost
B.M. 3 - Recovered
B.M. 4 - Recovered
5. Contours and drainage

All drainage has been delineated on the field photos, See Report for Sheet T - 11792 for additional details. A large amount of small perennial streams seems in excess, but all of the streams shown were inspected at various places.

6. Woodland cover

Woodland cover was delineated on the photos per instructions.

7. Shoreline and alongshore features

(a) The mean high water line in much of the beach community areas is at the base of wood bulkheads.

(b) The mean low water line was not delineated. The photos were taken near high water and therefore this operation was not feasible.

(c) The foreshore area consists of a sandy clay bottom with sand bars paralelling the shore distances of one half mile offshore.

The foreshore on Sheet T - 11789 is very shallow. Herring Bay has some predominantly muddy areas. Foreshore characteristics have been delineated on the field photos.

(d) Cliffs line most of the shoreline. On an average, they are about 30 to 50 feet lower than those described on Sheets T - 11792 and 11793. There are no cliffs from Fishing Creek to Rose Haven Harbor.
(e) Docks, wharves, piers, and landings have been delineated on the field photos.

There is an excellent harbor on Fishing Creek with two marine railways and a boat lift. A Federal Project keeps a channel open and maintains two 1000 foot jettys at the mouth of the creek.

An excellent harbor exists at Rose Haven Harbor on the north side of Holland Point. A boat lift is available here. This is a private project, but an entrance light range and a light mark this harbor for navigation. Minor types of targets are maintained by the owner as aids to mark the channel. These aids are shifted often and are not listed in the "C.G.List of Lights", nor were they located by this party. A channel to the harbor is maintained privately.

(f) A submarine power cable extends from the "Naval Research Laboratory, Chesapeake Bay Annex" to a platform in the bay. The shore end of this cable has been delineated and the platform located by theodolite cuts from various supplemental control points.

(g) An overhead power line crosses a small boat harbor at Breezy Point on Sheet T - 11791.

8. Offshore features

All offshore features have been delineated on the field photos.

9. Landmarks and aids

All landmark and fixed aid data for nautical charts has been submitted on Form 567. There are no aids for aeronautical charts. The two range lights at Rose Haven Harbor were located by theodolite cuts from supplemental control. The angles are recorded on the backs of Form 152 for photo-points 907 thru 910.
Lights 2466 and 2468 ("C.G. List of Lights" numbers) were located from theodolite cuts from supplemental control points. See Forms 251a and 24A (5 sheets) for angles. Light "2467" has been discontinued.

The azimuth of two light ranges on Sheet T - 11789 were determined by two fixes each on the ranges. The sextant fixes are recorded on the backs of the photographs.

A large "tower" and "steel rack" are under construction at the "Naval Research Laboratory, Chesapeake Bay Annex" and will be good landmarks when completed. It is recommended that they be investigated for charting purposes by either the "Field Edit" or "Hydro" Party.

10. Boundaries, monuments, and lines

A report for this phase of the project has been submitted under separate cover.

11. Other control

The following list contains all the supplemental control used in this project and its purpose. Control is listed from south to north for each sheet. Asterisk denotes use for "Maryland Department of Tidewater Fisheries Charts".

Sheet T - 11791

* DORMER - Pricked Direct
* DORMER - Located from photo point 1B by angle and distance. Distance was determined by short base method. See Form 25g. This DORMER was also used in a fix to locate a fish trap on Sheet T - 11792.
* CHIMNEY - Located by same method as above from photo point 1A.
* COPPER SURVEY STAKE - Pricked Direct
* Photo Point 101 - To locate fixed aids and PLATFORM.
* GABLE - Pricked Direct.
Sheet T - 11790

* PLATFORM (east of sheet) - This is a platform used by the Navy and is about 40 feet by 20 feet and about 15 feet high. It was located by theodolite cuts. See Forms 25la and 24A (5 sheets) for angles.

  Photo Point 002 - To locate fixed aids and PLATFORM.
  * PIER INTERSECTION - Pricked Direct.
  * GABLE - Pricked Direct.
  * SPIRE - Pricked Direct.
  ¥ GABLE - Pricked Direct.

Sheet T - 11789

  * Bench Mark No.3 - Established as a topo station from photo point 903.
  * GABLE - Pricked Direct.
  * Bench Mark No.1 - Established as a topo station from photo points 902 and 901.
  * PIER - Pricked Direct.
  * AERIAL - Established from photo point 9C
  Photo Points 904 and 905 - To locate Boundary Monument. See "Boundary Report".

  * ROOF - Pricked Direct.
  * GABLE - Pricked Direct.
  Photo Point 906 - To determine azimuth of range at Rose Haven Harbor.
  * CUPOLA - Located from photo points 9A and 9B by distance and angle. Distance determined by short base method. See Form 25g.

* BLACK ROOF - Pricked Direct

13. Geographic names - A report on this phase of the project has been submitted under a separate cover.

14. Special Reports and supplemental data

A plate covering the "Naval Research Laboratory, Chesapeake Bay Annex" is submitted with this Report. It is numbered Plate 2.
A Coast Pilot investigation was not made. See report T - 11792 for reasons. A "Coast Pilot Report" to change navigational restrictions in the area has been submitted under a separate cover.

Submitted 17 November 1960

George F. Wirth, Chief of Party
<table>
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<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
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<td>P.E. 28</td>
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</table>

1 FT = 304.8006 METER

COMPUTED BY: 115  DATE: Jan 1961  CHECKED BY: ETO  DATE: Jan 1961
The bridge was run in the Washington Office and the report is submitted with T-11793.

31. **DELINEATION**

The Kelsh Plotter was used for delineation. The field inspection was generally adequate, but it was believed the compiler could improve on the location of some of the drainage, particularly in the wooded ravines. Some drainage was also added where it was believed to be and also would be advantageous in expressing the topography. Two areas that were labeled marsh on field photo 60-S-3588 were in obvious error and were left off the manuscript. They are at approximate latitude 38°42.1', longitude 76°33.3'.

The Anne Arundel - Calvert county line; the North Beach city limits and Chesapeake Beach city limits were delineated from the field inspection but it is believed that the field inspectors method of locating these lines is questionable. A copy of the Boundary Report is included with the Report for T-11790.

32. **CONTROL**

The primary and secondary horizontal control was adequate and placement was good. There was no vertical control.

33. **SUPPLEMENTAL DATA**

An insert on a Station Map of Chesapeake Bay Annex, U. S. Naval Research Laboratory showing the Navy Dock Area at Fishing Creek Harbor was used to delineate the limits of the Navy Dock.

34. **CONTOURS AND DRAINAGE**

Contours are inapplicable. The drainage was discussed in Item 31.

35. **SHORELINE AND ALONGSHORE DETAILS**

The shoreline and alongshore detail was delineated from field notes. The inspection was adequate. No low-water or shoal lines were shown.

36. **OFFSHORE DETAILS**

Offshore details were identified by the field inspector. In some cases the exact location of piles could not be determined so the area was indicated and labeled.
37. **LANDMARKS AND AIDS**

The bearing of the Range for ROSE HAVEN HARBOR, as compiled does not agree with the bearing in the 1960 Light List as follows:

Published 199°  Compiled 203°05'°

Form 567's were submitted for all aids and landmarks on 10 Feb. 1961 under date 26 January 1961.

38. **CONTROL FOR FUTURE SURVEYS**

Ten Topographic stations were located, eight (8) are natural objects and two (2) are Tidal Bench Marks which have been located as monumented stations.

39. **JUNCTIONS**

Junction was made with T-11790 to the south. The manuscript is bounded by the Chesapeake Bay on the east and there are no contemporary surveys on the north and west. T-11789 falls in the NE part of U.S.G.S. Quadrangle NORTH BEACH, Maryland scale 1:24,000 of 1953. See Item 46 for comparison.

No statement.

46. **COMPARISON WITH EXISTING MAPS**

Comparison was made with USGS Quadrangle NORTH BEACH, MD., scale 1:24,000, dated 1956 and the minor differences are to be expected because of the differences in scale and date. Comparison was also made with USGS Planimetric sheet No. T-534B, scale 1:10,000, compiled from photographs taken in 1934. The comparison was also favorable.
17. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with USCGS Chart No. 551, 2nd edition May 23, 1960, scale 1:40,000. The comparison was favorable.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

[Signature]
E. T. Ogilby
Cartographer (Photo)

Approved and Forwarded:

V. Ralph Sobiersalski
Tampa District Officer
49. **NOTES FOR THE HYDROGRAPHER**

Eight (8) natural objects were located during compilation which may be useful to the hydrographer.

**BLACK ROOF, 1960.** - Sharp pointed black roof of lone house.

**CUPOLA, 1960.**

**TANK, 1960.** - Grey, steel. Height = 77 feet.

**GABLE, 1960.** - Offshore or north gable of large brown shingle house with green roof. Porch all around house.

**ROOF, 1960.** - Dark pointed roof on screen porch at inshore end of pier. White sides with green trim.

**PIER, 1960.** - Southeast corner of pier—not landing around side.

**GABLE, 1960.** - Offshore or east gable of large pink building with red roof. The building has a hip roof with a dormer on the N & S sides. Chimneys (2) on south side.

**LARGE ANTENNA, 1960.**

Two Tidal Bench Marks were located with topographic station accuracy and Forms 521 were submitted.

**TIDAL B.M. 1**

**TIDAL B.M. 3**
# TIDE COMPUTATION

PROJECT NO. Ph:6008 T:11789

Time and date of exposure: 0955 23 July 1960
Reference station: BALTIMORE, MD.
Mean range: HW 0.4

Date of field inspection: 15 Nov 1960
Subordinate station: Chesapeake Beach
Ratio of ranges: LW 0.4

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<tr>
<th>Time</th>
<th>Height</th>
<th>Height x Ratio of ranges</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>High tide</td>
<td>(1) 16</td>
</tr>
<tr>
<td></td>
<td>Low tide</td>
<td>0.5 (0) 0.5</td>
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</tbody>
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Range of tide: 11

<table>
<thead>
<tr>
<th>Time</th>
<th>Time at Ref. Sta.</th>
<th>Time difference</th>
<th>Corrected time at Subordinate station</th>
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<tbody>
<tr>
<td></td>
<td>04 25</td>
<td>-3 28</td>
<td>3 14</td>
</tr>
<tr>
<td></td>
<td>13 32</td>
<td>-3 36</td>
<td>9 57</td>
</tr>
</tbody>
</table>

Computed by: Etjo
Checked by: Us
## TIDE COMPUTATION

**PROJECT NO. PH: 6008 T-11789**

Time and date of exposure: 23 July 1969  Reference station: BALTIMORE, M.D.  Mean range: 0.9 ft.

Date of field inspection: 9 Nov 1969  Subordinate station: Fairhaven, Herong Bay  Ratio of ranges: 1.0

### Time and Height

<table>
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<th>Height</th>
<th>Height x Ratio</th>
</tr>
</thead>
<tbody>
<tr>
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<td>1.7 (5.2) 1.5</td>
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<tr>
<td>Low tide</td>
<td>10:32</td>
<td>0.5 (1.0) 0.5</td>
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Range of tide: 6.39

### Time and Calculation

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<th>Height</th>
<th>Time difference</th>
<th>Corrected time at Subordinate station</th>
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<td>H. T. or L. T.</td>
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<td>Required time</td>
<td>10:22</td>
<td>9:56</td>
<td>2:26</td>
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<td>Ht. H. or L. T.</td>
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<td>Feature bares</td>
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<td>Feature above MLW</td>
<td>Stage of tide above MLW</td>
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</table>

### Summary

Computed by: ETO  Checked by: 165
PHOTOGRAMMETRIC OFFICE REVIEW OF ADVANCE MANUSCRIPT

T- 11789


CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy [IIS]  6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) [IIS]

ALONGSHORE AREAS

(Nautical Chart Data)


PHYSICAL FEATURES


CULTURAL FEATURES


BOUNDARIES


MISCELLANEOUS


Reviewed

I. I. Sperstein

Supervisor Review Section or Unit

M. M. Slavney

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. 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.

Compiler

Supervisor

43. Remarks:
48. Geographic Names:

Chesapeake Bay
Chesapeake Beach
Fairhaven
Fairhaven Cliffs
Fishing Creek
Herring Bay
Holland Point
North Beach
Old Colony Cove
Owings Cliffs
Rose Haven
Rose Haven Harbor

Geographic Names Section
5 December 1962
REVIEW REPORT
OF SHORELINE MANUSCRIPTS
T-11789 thru T-11793
February 1963

61. General Statement

This project PH-6008 consists of five (5) shoreline manuscripts. These maps were prepared for revision of our Nautical Charts and for source material for the completion of the reimbursable project for the Maryland Department of Tidewater Fisheries.

62. Comparison with Registered Topographic Surveys

<table>
<thead>
<tr>
<th>Sheet No.</th>
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<tbody>
<tr>
<td>T-2395</td>
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<tr>
<td>T-2836</td>
<td>1907</td>
<td>1:20,000</td>
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<td>T-2842</td>
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<td>1908</td>
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<td>T-5348</td>
<td>1935</td>
<td>1:10,000</td>
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<tr>
<td>T-6956 a &amp; b</td>
<td>1944</td>
<td>1:10,000</td>
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<tr>
<td>T-6957 a &amp; b</td>
<td>1944</td>
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Cultural and shoreline changes have been continuous. T-11789 thru T-11793 are to supersede the above listed surveys for common area for nautical charting.

63. Comparison with Maps of Other Agencies

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
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<tbody>
<tr>
<td>North Beach Md.</td>
<td>1953</td>
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<tr>
<td>Prince Frederick Md.</td>
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<td>1:24,000</td>
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<tr>
<td>Leonardtown Md.</td>
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These are minor shoreline and cultural changes due to the difference in survey dates.

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

<table>
<thead>
<tr>
<th>Sheet No.</th>
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</thead>
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<tr>
<td>551</td>
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<td>May 1960</td>
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<td>553</td>
<td>1:40,000</td>
<td>1954 revised to Mar. 1960</td>
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</table>

See Item 47

66. Accuracy of Results and future Surveys

Subject T-sheets have been compiled according to instructions and meet the requirements of adequacy and accuracy.

Approved by:  
Chief, Cartographic Branch

Reviewed by:  
L. O. Lahde
Chief, Nautical Charts Division

Chief, Operations Division

Chief, Photogrammetry Div.
**INSTRUCTIONS**

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

<table>
<thead>
<tr>
<th>CHART</th>
<th>DATE</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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<td>SK Myers</td>
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