

12074

12074

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINEField No. _____ Office No. T-12074

LOCALITY

State Delaware-MarylandGeneral locality Fenwick IslandLocality Little Assawoman Bay1961-83 62

CHIEF OF PARTY

W. M. Reynolds - Chief of Field Party

Miller, J. Tonkel, Baltimore District Office

LIBRARY & ARCHIVES

DATE _____

DESCRIPTIVE REPORT - DATA RECORD

T-12074

PROJECT NO. (II):

PH-6103 (21039)

FIELD OFFICE (III):

Snow Hill, Maryland

CHIEF OF PARTY

William M. Reynolds

PHOTOGRAMMETRIC OFFICE (III):

Baltimore, Maryland

OFFICER-IN-CHARGE

William J. Tonkel

INSTRUCTIONS DATED (II) (III):

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

METHOD OF COMPILATION (III):

Kelsh Plotter

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:6,000 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):

GEOGRAPHIC DATUM (III):

N. A. 1927

VERTICAL DATUM (III): MHW

~~MEAN LOW WATER~~ EXCEPT AS FOLLOWS:

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., mean low water or mean lower low water

REFERENCE STATION (III):

FENWICK ISLAND, 1932

LAT.:

38° 27' 04.255"

LONG.:

75° 03' 17.391"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y = 164,508.37 FT.

X = 603,628.14 FT.

Delaware

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.

FORM C&GS-181b
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): W. M. Reynolds M. A. Stewart		DATE: July-August 1962
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): 1961 and 1962 photography and field inspection		
PROJECTION AND GRIDS RULED BY (IV): A. R. Roundtree		DATE 9/5/62
PROJECTION AND GRIDS CHECKED BY (IV): I. Y. Fitzgerald		DATE 9/10/62
CONTROL PLOTTED BY (III): Leroy A. Senasack		DATE 4/17/63
CONTROL CHECKED BY (III): R. F. Carr		DATE 4/17/63
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): H. P. Eichert, Washington Office		DATE 3/22/63
STEREOSCOPIC INSTRUMENT COMPILATION (III): Lowell O. Neterer	PLANIMETRY Lowell O. Neterer	DATE 5/9/63
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): R. F. Carr		DATE 7/23/63
SCRIBING BY (III): J. Cregan		DATE 11/1/63
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): E. L. Rolle		DATE 11/1/63
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

S and W cameras

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
61-S-9044 thru 9047	May 24, 1961	0826	1:30,000	0.4 ft. above MLW
61-S-9097 thru 9099	May 24, 1961	0904	1:30,000	0.4 ft. above MLW
62-W-4365 thru 4368	May 4, 1962	0903	1:20,000	3.5 ft. above MLW
62-S-3145 thru 3147	May 24, 1962	1005	1:15,000	3.0 ft. above MLW

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Sandy Hook, N. J.		4.6	5.6
SUBORDINATE STATION: Fenwick Island Light, Del.		3.7	4.5
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet, Atlantic Marine Center

DATE: September 1966

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 12

RECOVERED:

IDENTIFIED:

7

6

NUMBER OF BM(S) SEARCHED FOR (II): 0

RECOVERED:

IDENTIFIED

0

0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

1

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

REMARKS:

Station SHORAN, 1956 was identified prior to its being destroyed by the coastal storm of March 6 and 7, 1962.

COMPILATION RECORD

COMPILATION DATE

REMARKS

Compilation complete	June 1963	

CHINCOTEAGUE BAY

PROJECT PH 6103

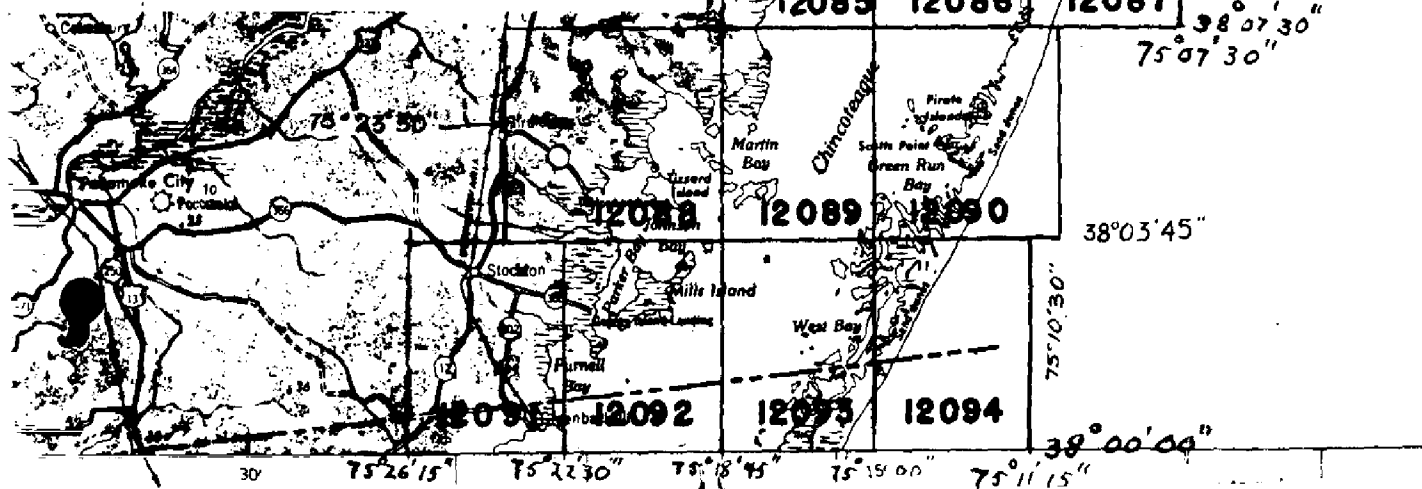
PLANIMETRIC MAPPING

SCALE, 1:10,000

OFFICIAL MILEAGE

HEET NO.	AREA SQ. MI.	LINEAR MI. SHORELINE
12074	16	30
12075	16	13
12076	4	32
12077	14	14
12078	5	20
12079	14	9
12080	14	28
12081	2	10
12082	14	3
12083	2	12
12084	3	16
12085	8	8
12086	3	4
12087	9	10
12088	2	14
12089	4	12
12090	14	14
12091	3	5
12092	3	14
12093	3	12
12094	3	12

TOTAL 153.3 292



6

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12074

Shoreline map T-12074 is one of twenty-one similar maps in this project. It covers a part of Assawoman Bay and the greater part of Little Assawoman Bay.

The primary purpose of the project was to provide shoreline for the Bureau's nautical chart program and special charts for the State of Maryland, Department of Tidewater Fisheries.

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

The kelsh compilation was at 1:10,000 scale using the pan-chromatic photography and bridging passpoints established by aerotriangulation.

The manuscript is a vinylite sheet $3 \frac{3}{4}'$ in latitude by $6 \frac{1}{2}'$ in longitude which was scribed and reproduced on cronaflex. One cronar positive and one cronar negative are provided for record and registry.

FIELD INSPECTION REPORT
MAPS T-12074 THROUGH T-12078
PROJECT PH- 6103

2. Areal Field Inspection.

These five maps are located along the eastern shores of Delaware and Maryland. The land areas of the maps consists of the northern end of Assateague Island, Fenwick Island northward from Ocean City Inlet to latitude $38^{\circ} 30'$ and the mainland along the westerly sides of Assawoman, Little Assawoman and Isle of Wight Bays. The area is a tourist resort, especially for the area northward along the outside coast, from Ocean City Inlet to the project limits. A small amount of truck farming is carried on along the mainland. The shallow bays are used mainly by local clam, crab and oyster fishermen.

Field inspection is believed complete and was performed on the following photographs; 61S9045 through 61S9052, 61S9094 through 61S9099, 61S9287, 61S9288, 62S3145 through 62S3158, and 62W4366 through 62W4368. No items were deliberately left for field edit.

The photography was of good quality and no difficulty was encountered in their interpretation in the field.

3. Horizontal Control.

All Coast and Geodetic Survey Stations were searched for. Control was identified in accordance with a specially prepared copy of the project diagram. Two stations, Concrete Observation Tower 1961 and Ocean City Light 1962 were established by three point fix. Concrete Observation Tower 1961 is located just north of the project limits. Ocean City Light 1962 is located in map T-12078. Angle closures for the establishment of the stations were satisfactory.

The following stations were reported lost;

T-12074
Fenwick Island Life Saving
Station Tower 1909
Kirkclins Hotel Chimney 1909
Rodgers 2 1909
Hydro 1956
Shoran 1956

T-12076
Horse 1929
Howard 1909
Pow 1929
Reedy 1909
South Hammock 1909
Wight 2 1909

T-12078

Buffington Windmill 1908, Collier 1908, Concrete House Northeast Corner 1929, Convent Water Tower 1908, Gantt 1908, Gull 1908, Hamilton 1908, Harmon 1908, Keyser 1934, Ocean 1908, Ocean City Water Tower 1908, and Thorofare 1908.

4. Vertical Control.

Six tidal bench marks were searched for and four were recovered. The recovered bench marks are Ocean City Tidal Bench Marks 4(1929), 6(1931), 8(1931) and 9(1931). All marks were established by this bureau and are located in map T-12078.

5. Contours and Drainage.

Contours are inapplicable.

Drainage is self-evident from the photographs.

6. Woodland Cover.

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

7. Shoreline and Alongshore Features.

Shoreline along the westerly sides of the bays was inspected by skiff and has been indicated on the 1961 photographs.

The shoreline along the outside beaches was located by measurement from identifiable photo points. These photographs were taken after the severe storm of March 6 and 7, 1962. These measurements do not fit any certain berm line on the photographs. In some cases the measurement falls out in the water and in others it ends on what appears to be sand beach. This is caused by considerable work having been done on the beach since the photographs were taken. The shoreline around the south jetty at Ocean City Inlet has been changed by dredging since the 1962 Photography. The ship HYDROGRAPHER did new hydrography around Ocean City Inlet in May 1962. A manuscript of map T-12078 was furnished for location of the hydro signals. The shoreline changes were located by sextant angles and distances from the hydro signals and plotted on the manuscript. These hydro had been located by traverse from triangulation stations. The compiler can use this information in correcting the map.

The inside shoreline was changed little from the storm. It has been correctly indicated on the 1962 photographs.

The 1962 photography as furnished the field party ended about two miles south of the project limits. The shoreline and interior inspection was completed on the 1961 photographs. There will probably be small discrepancies in the delineation of the inshore limits of marsh since the storm pushed sand over areas which were previously marsh. These discrepancies are of no significant value and can be corrected by the compiler if 1962 photographs are available in the office.

The low water line was not located.

There are no bluffs or cliffs.

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

Shore ends of submarine cables have been indicated on the photographs.

All other shoreline structures have been clarified.

8. Offshore Features.

The large shoal areas in Isle of Wight Bay are obvious from an examination of the photographs.

9. Landmarks and Aids.

Landmarks for nautical charts and fixed aids to navigation are adequately covered by Form 567.

10. Boundaries, Monuments and Lines.

Boundaries were excluded according to the project instructions.

The north city limit line for Ocean City, Maryland has been indicated on photograph 62S3152. The corporate limit line turns south and follows the mean low water line of the bay and ocean until it closes on its' self.

11. Other Control.

Three previously established topographic stations were recovered and identified. QIL (1942) 1962 was identified in map T-12075. BMS57 (1943) 1962 was identified in map T-12076 and Hastings Windmill (1942) 1962 was identified in map T-12078.

Hydrographic control points were established by both ground and photogrammetric methods. These points were established to control the hydrography for the storm damage survey around Ocean City Inlet. This survey was completed by the ship HYDROGRAPHER during May 1962.

In addition to the above, points were identified at frequent intervals and marked with copper weld rods to provide control for Maryland Department of Tidewater Fisheries. Points were selected so that a sextant fix could be observed from any point in the bay. Prominent natural objects were also selected for some of these points. A total of 48 points were selected within these maps.

12. Other Interior Features.

All roads were inspected and have been classified in accordance with Photogrammetry Instruction No. 56.

Buildings were inspected and have been indicated in accordance with Photogrammetry Instruction No. 54.

Bridge and cable clearance measurements were not required except for the investigation of bridge ruins mapped on the Inset for nautical chart 1220. This feature is mapped incorrectly on the chart. The bridge ruins do not obstruct the channel. The correct delineation of the shoreline in this area has been indicated on photographs 61S9287 and 62S3157.

There are no airports or landing fields.

13. Geographic Names.

See Special Report, Geographic Names, Project Ph-6103, Chincoteague Bay, Maryland.

This report was forwarded to Washington 7/12/62.

14. Special Reports and Supplemental Data.

Letter of Transmittal dated 22 March 1962 and forwarded to Washington same date.

Manuscript of Map T-12078 used by Ship HYDROGRAPHER and kept by same in May 1962.

See item 13 this report.

Letter of Transmittal submitted with this data.

Submitted,

William M. Reynolds
William M. Reynolds
Sub-unit Photo. Party 720

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-12086
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 aerotriangulation, 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 9044 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, 1934, 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

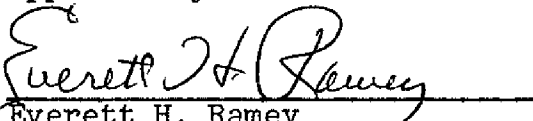
Photography was adequate with regard to overlap and definition. Additional photographic coverage is needed for compilation and will be provided. No further bridging is anticipated.

Submitted by:



Henry P. Eichert

Approved by:



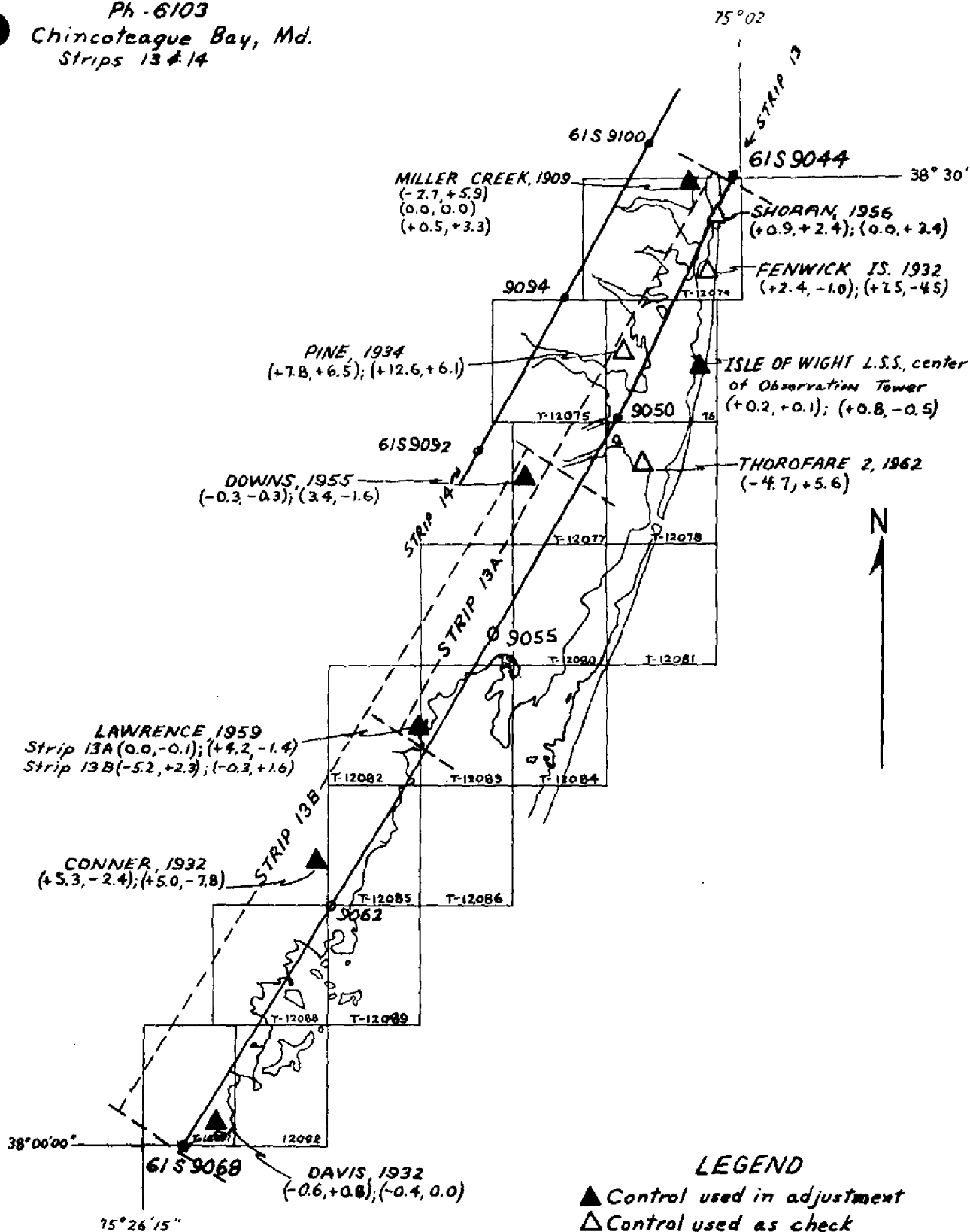
Everett H. Ramey
Chief, Aerotriangulation Sec.

AEROTRIANGULATION SKETCH

Ph-6103

Chincoteague Bay, Md.

Strips 13 & 14



COMPILATION REPORT
T-12074

31. DELINEATION

Delineation of the manuscript was by Kelsh plotter except for the area of Fenwick Island. This area was delineated graphically using the 1962 photography obtained after the storm of March 6 and 7, 1962 which changed the shoreline along the coast. The shoreline along the outer coast was positioned in accordance with field measurements provided by the field party.

32. CONTROL

Control for the Kelsh models was established by Aerotriangulation. The density and placement of the passpoints was adequate.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAIL

The shoreline inspection was complete and was delineated according to the field inspection notes. See Item 31.

36. OFFSHORE DETAILS

No offshore details requiring investigation by a hydrographic party were noted during the course of compilation.

37. LANDMARKS AND AIDS

There is one fixed aid to navigation and one landmark within the limits of this survey. These have been reported on Form 567.

38. CONTROL FOR FUTURE SURVEYS

No control for future surveys was established.

39. JUNCTIONS

A satisfactory junction was made with T-12075 and T-12076 on the south. There is no contemporary survey on the west and the Atlantic Ocean is on the east. On the north a junction was made with T-12134, an unreviewed, unclassified special purpose manuscript that was limited to the shores of Fenwick Island. A small change in the MHWL along the barrier beach was noted.

40. HORIZONTAL AND VERTICAL ACCURACY

No accuracy tests were made.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with USGS ASSAWOMAN BAY, MD.-DEL. quadrangle, 1:24,000 scale, edition of 1942, revised 1946. The two surveys are in good general agreement.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with 1:80,000 scale charts 1219 and 1220. The charts and manuscripts are in good general agreement.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Joseph Steinberg
For: E. L. Rolle
Cartographer (Photo)

Approved and Forwarded:

J. Bull
J. Bull, CAPT
Director, Atlantic Marine Center

T-12074

48. GEOGRAPHIC NAMES LIST

ATLANTIC OCEAN	LIGHTHOUSE COVE
BAYVILLE	LITTLE ASSAWOMAN BAY
BAYVILLE GUT	LONE CEDAR POINT
BENNETT POINT	MARSH ISLAND
BIG ISLAND	MARSH NARROWS
CAREY BRANCH	MARYLAND BEACH
CHERRYBUSH ISLAND	MILLER CREEK
CONCH POINT	MILLER NECK
CORN HAMMOCK	OAK ISLAND
DAISY MARSH	OLD INLET POINT
DIRICKSON CREEK	OYSTER POND
DIRICKSON NECK	PIG PEN CREEK
DRUM CREEK	POINT OF CEDARS
DRUM POINT	POINT OF RIDGE
EVANS CREEK	PORPOISE POND
FENWICK DITCH	* REEDY ISLAND
FENWICK ISLAND	RICH ISLAND
GEORGETOWN BRANCH	ROY CREEK
GOOSE POND	SEAL ISLAND
GRAYS CREEK	SWAN GUT
GRAYS NECK	THE NARROWS
JOES GUT	TUBBS COVE
JOHNSON	WILLIAMSVILLE
JOHNS HAMMOCK	YELLOW BANKS
LAWS POINT	

* There are two different islands by this name on U.S.C.S. quadrangle
ASSAWOMAN BAY, MD-DEL.

49. NOTES FOR THE HYDROGRAPHER

There were no contemporary hydrographic surveys scheduled in the area of this manuscript at the time of completion of the map.

PHOTOGRAMMETRIC OFFICE REVIEW

T-10368 12074

1. PROJECTION AND GRIDS E. L. Rolle		2. TITLE ELR		3. MANUSCRIPT NUMBERS ELR		4. MANUSCRIPT SIZE ELR	
CONTROL STATIONS							
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY				6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)		7. PHOTO HYDRO STATIONS XX	
8. BENCH MARKS ELR		9. PLOTTING OF SEXTANT FIXES XX		10. PHOTOGRAMMETRIC PLOT REPORT ELR		11. DETAIL POINTS ELR	
ALONGSHORE AREAS (Nautical Chart Data)							
12. SHORELINE ELR		13. LOW-WATER LINE ELR		14. ROCKS, SHOALS, ETC. ELR		15. BRIDGES ELR	
16. AIDS TO NAVIGATION ELR		17. LANDMARKS ELR		18. OTHER ALONGSHORE PHYSICAL FEATURES ELR		19. OTHER ALONGSHORE CULTURAL FEATURES ELR	
PHYSICAL FEATURES							
20. WATER FEATURES ELR				21. NATURAL GROUND COVER ELR		22. PLANETABLE CONTOURS XX	
23. STEREOSCOPIC INSTRUMENT CONTOURS XX		24. CONTOURS IN GENERAL XX		25. SPOT ELEVATIONS XX		26. OTHER PHYSICAL FEATURES ELR	
CULTURAL FEATURES							
27. ROADS ELR		28. BUILDINGS ELR		29. RAILROADS XX		30. OTHER CULTURAL FEATURES ELR	
BOUNDARIES							
31. BOUNDARY LINES ELR				32. PUBLIC LAND LINES ELR			
MISCELLANEOUS							
33. GEOGRAPHIC NAMES ELR				34. JUNCTIONS ELR		35. LEGIBILITY OF THE MANUSCRIPT ELR	
36. DISCREPANCY OVERLAY ELR		37. DESCRIPTIVE REPORT ELR		38. FIELD INSPECTION PHOTOGRAPHS ELR		39. FORMS ELR	
40. REVIEWER For: <i>Joseph Steinberg</i> ELR				SUPERVISOR, REVIEW SECTION OR UNIT <i>Joseph Steinberg</i> ELR			
41. REMARKS (See attached sheet)							
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 Manuscript was not field edited.							

FIELD EDIT REPORT
T-12074

The maps in this project were not field edited.

REVIEW REPORT T-12074
SHORELINE
September 20, 1966

61. GENERAL STATEMENT

See summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with Registered Survey T-8100, 1:19,680 scale. The major changes in the MHWL have been shown on the ~~comparison print.~~ * see below

Map T-12074 supersedes the prior registered survey and should be used for future nautical chart construction.

The two surveys are in good general agreement except for the MHWL along the coast where normal erosion plus the storm of March 6 and 7, 1962 has moved it to the westward.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

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

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart 1220, 1:80,000 scale, 12th edition, November 1, 1965 and with chart 1219, 1:80,000 scale, 18th edition, June 8, 1964 revised May 3, 1965. Because of the difference in scale, between the charts and manuscript, only a visual comparison was made. The following differences were noted:

An overhead power cable over Fenwick Ditch, latitude $38^{\circ}27'10''$ longitude $75^{\circ}03'54''$, is not shown on the charts.

New small boat harbors in the area of Marsh Island, latitude $38^{\circ}27.6''$ longitude $75^{\circ}03.4''$ are not shown on chart 1220.

A steel tower, 211 feet high, at latitude $38^{\circ}28'24.55''$ longitude $75^{\circ}03'03.79''$ is not shown on either chart.

* Comparison Print was discarded - of no permanent value.
ADD

A submerged wreck, outside of the limits of this map and beyond limits of photography, at latitude 38°27.5' longitude 75°00.8' is shown on chart 1219 but not on chart 1220.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with instructions and meets the National Standard of Map Accuracy.

Future surveys should check for changes in the MHWL along the outer coast.

Reviewed by:

Lee F. Beaguet

Approved by:

J. Bull
J. Bull, CAPT
Director, Atlantic Marine Center

Approved by:

Charles L. Lauer
Chief, Cartographic Branch

Jack E. Guth
Chief, Photogrammetry Division

Chief, Chart Division

Chief, Operations Division

NOTES TO VERIFIER

There are no contemporary hydrographic surveys in this area.

The following photographs were examined during final review:

61-S-9097 thru 9099

61-S-9044 thru 9047

62-W-4365 thru 4368

62-W-3801 and 3802

NONFLOATING AIDS OR LANDING MARKS FOR CHARTS

STRIKE OUT TWO

Norfolk, Virginia

12 September, 19 66

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

The positions given have been checked after listing by

Leo F. Beugnot

Joseph Steinberg

Joseph Steinberg	Chief of Party.
------------------	-----------------

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *floating 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.

* TABULATE SECONDS AND METERS

STRIKE OUT TWO

NONTECHNICAL LANDMARKS FOR CHARTS

Norfolk, Virginia

12 September 1966

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

The positions given have been checked after listing by

Leo F. Beuznet

Joseph Steinberg

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. 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.

*** TABULATE SECONDS AND METERS**