

11233

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Diag. Cht. Nos. 78-4 and 1221-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. Ph-119 Office No. T-11233

LOCALITY

State Virginia

General locality Pocomoke Sound

Locality Chesconessex Creek

1953-55

CHIEF OF PARTY

E.H.Kirsch, Chief of Field Party
E.H.Kirsch, Balto. District Officer

LIBRARY & ARCHIVES

DATE September 1961

USCOMM-DC 5087

11233

DESCRIPTIVE REPORT - DATA RECORD

①

T - 11233

Project No. (II): 6119

Quadrangle Name (IV):

Field Office (II): ~~Exmore~~, Virginia

Chief of Party: E. H. Kirsch

Photogrammetric Office (III): Baltimore, Maryland

Officer-in-Charge: E. H. Kirsch

Instructions dated (II) (III): 2 July 1953
15 February 1956

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV): 4-13-56 Date reported to Nautical Chart Branch (IV): 4-20-56

Applied to Chart No.

Date:

Date registered (IV):

11/22/60

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N. A. 1927

Vertical Datum (III): MHW

Mean sea level 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): CAMP, 1942

Lat.: 37° 46' 43.958" (1355.2 m) Long.: 75° 46' 22.167" (542.5 m)

Adjusted
~~10000000~~

Plane Coordinates (IV):

State: Virginia

Zone: South

Y=

X=

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.

[illegible]

COMM-DC-57842

DESCRIPTIVE REPORT - DATA RECORD

3

Field Inspection by (II): James E. Hundley

Date: November 1953

Planetable contouring by (II):

Date:

Completion Surveys by (II): C.H. DAVIES

Date: 1956 (AUG)

Mean High Water Location (III) (State date and method of location): 1955, date of photography
(supplemented by field inspection on 1953 photography).

BEACH ISLAND (LAT. 37°47.2' - Long. 75°48.9') - FIELD EDIT, 1956

Projection and Grids ruled by (IV): J. Thuma

Date: 1/28/54

Projection and Grids checked by (IV): A. Riley

Date: 2/2/54

Control plotted by (III): J. J. Schleupner

Date: 3/17/55

Control checked by (III): J. Steinberg

Date: 3/19/55

Radial Plot ~~by (III): J. J. Schleupner~~

Date: 9/9/55

~~Control checked by (III):~~ H. R. Rudolph

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): J. B. Phillips

Date: 11/7/55

Photogrammetric Office Review by (III): R. Glaser

Date: 4/11/56

Elevations on Manuscript
checked by (II) (III):

Date:

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): USC&GS nine-lens and single lens "W"

(4)

Number	Date	Time	Scale	Stage of Tide
55-W-4360 thru 4363	3/10/55	1419	1:10,000	1.5 above MLW
55-W-4380 thru 4383	"	1431	1:10,000	1.4 " "
40337 and 40338	5/29/53	0923	"	0.8 " "
40520	5/30/53	1338	"	1.4 " "
40581 and 40582	"	1432	"	1.3 " "

Tide (III)
From predicted tablesReference Station: Hampton Roads
Subordinate Station: Watts Island
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	2.5	3.0
0.7	1.7	2.0

Washington Office Review by (IV): S.G. Blankenbaker

Date: OCT. 1956

Final Drafting by (IV): Baltimore office

Date: 1956

Drafting verified for reproduction by (IV): S.G. Blankenbaker

Date: OCT. 1956

Proof Edit by (IV): S.G. Blankenbaker

Date: Dec., 1960

Land Area (Sq. Statute Miles) (III): 6
Shoreline (More than 200 meters to opposite shore) (III): 31
Shoreline (Less than 200 meters to opposite shore) (III): 25
Control Leveling - Miles (II): none
Number of Triangulation Stations searched for (II): 3
Number of BMs searched for (II): none
Number of Recoverable Photo Stations established (III): 1
Number of Temporary Photo Hydro Stations established (III): 1Recovered: 1
Recovered: 0
Identified: 1
Identified: 0

Remarks:

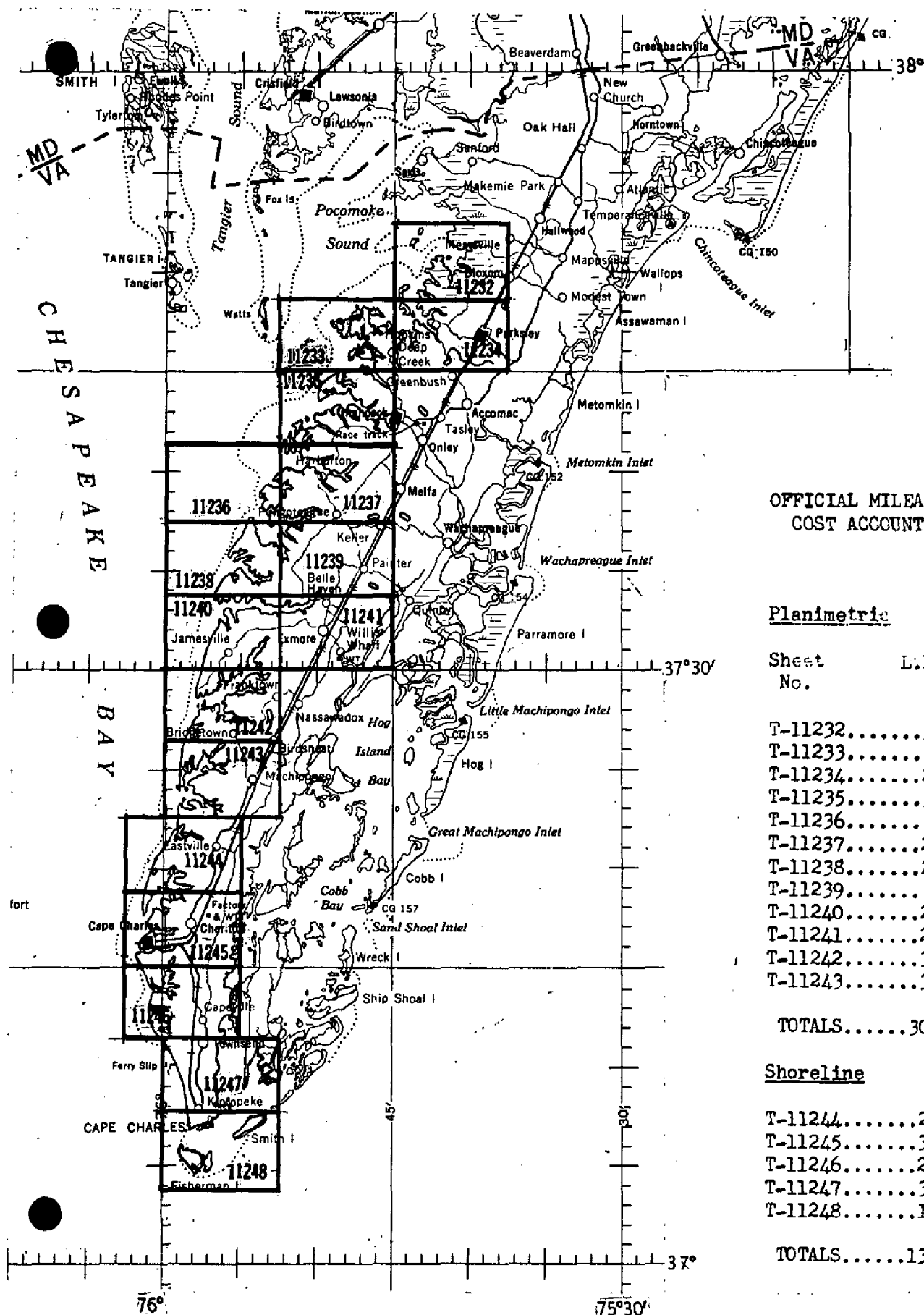
3 additional triangulation stations were established in this area, and one, BEACH 2, 1953, was identified.

Number of Topographic Stations searched for: 11 Recovered: 8

PLANIMETRIC and SHORELINE MAPPING PROJECT PH-119

CAPE CHARLES TO POCOMOKE SOUND, VIRGINIA

⑤



OFFICIAL MILEAGE FOR COST ACCOUNTS

Planimetric

Sheet No.	L.M.S.	Sq Mi
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T-11233.....	30.....	7
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T-11235.....	38.....	17
T-11236.....	8.....	2
T-11237.....	21.....	25
T-11238.....	25.....	9
T-11239.....	4.....	27
T-11240.....	27.....	15
T-11241.....	27.....	26
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TOTALS.....	303....	213

Shoreline

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T-11246.....	27.....	5
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TOTALS.....	130.....	32

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Summary To Accompany Descriptive Report

T-11233

T-11233 is one of seventeen 1:10,000 scale maps in Project PH-119. The project covers the eastern shore of the Chesapeake Bay in Virginia from Beasley Bay (Lat. 37° 52'45") southerly to Cape Charles (Lat. 37° 03'45").

The Project is subdivided into two sections. Section "A" comprised of planimetric surveys T-11232 to T-11243 covers the northern part of the project. Section "B" is comprised of shoreline surveys T-11244 to T-11248.

The principal purpose of the project was to provide shoreline and control for hydrographic surveys. In addition contour revisions were required in Section "A" for the purpose of revising Bureau War Mapping Quadrangles. Contours on the quadrangles in the area covered by Section "A" were checked during field inspection. No changes in contours were found over the entire area that warranted changing the original contours.

Field work was accomplished in 1953. Radial plotting and graphic compilation were accomplished in the Baltimore Office in 1955. Nine-lens photographs taken in 1953 were used in radial plotting. Single lens photographs taken in 1955 and the 1953 field inspected nine-lens photographs were used in compilation (1955). This advance copy of T-11233 was furnished the hydrographic survey party prior to sounding. T-11233 was field edited in 1956. Field edit corrections were applied in the Baltimore Office.

Items registered under T-11233 will include a Descriptive Report and a positive impression on cronar of the scribed copy of the manuscript.

The Radial Plot Report and the Field Inspection
Report are a part of the Descriptive Report for
T-11232.

COMPILATION REPORT

T-11233

The Field Inspection Report and Photogrammetric Plot Report are part of the Descriptive Report for survey T-11232.

31. DELINEATION

This manuscript was compiled by graphic methods in accordance with method (1) of the general instructions dated 11 January 1956. Where the scale of the photographs was poor, the ratio reflecting projector was used as an aid to compilation.

The field inspection was done on 1953 photographs, which were of poor tone quality. Delineation of the shoreline was done by office interpretation for the 1955 photographs, aided by field inspection on 1953 nine-lens photographs.

32. CONTROL

Identification and placement of horizontal control was adequate. Refer to the Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

The A.M.S. Chesconessex quadrangle, as annotated by the field party, was used for geographic names.

34. CONTOURS AND DRAINAGE

Contours: not applicable.

Drainage: No comment.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was limited by the quality of the 1953 photos. Refer to paragraph 31.

The interpretation and delineation of the low water line was not attempted.

Several shallow areas were interpreted from the 1955, photos where the tone indicated an abrupt change in depth.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

Form 567 has been submitted for Beach Island Shoal Lt.

38. CONTROL FOR FUTURE SURVEYS

One photo-hydro station was located on the manuscript.

Forms 524 are submitted, for one recoverable topographic station established, eight recovered, and three lost. See paragraph 49. In paragraph 11 of the field report, one old topographic station was listed as a photo-hydro station.

Discrepancies of as much as 67 meters were noted in the positions of the recovered stations compared with the previous positions.

39. JUNCTIONS

Junction has been made and is in agreement to the east with T-11234 and to the south with T-11235. To the north and west are all water areas.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report.

41 - 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

This manuscript has been compared with A.M.S. Chesconessex Quadrangle scale 1:25,000, published 1949, which was based on Bureau survey T-8165(1942) scale 1:20,000. Differences in position of details (see paragraph 38.) were noted over the area of this manuscript, which may be due to the better quality of present photography and the larger scale of the manuscript and photography. The shoreline being subject to erosion (paragraph 2 of field report) may account for some of the discrepancies.
(See Review Report)

47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 568, scale 1:40,000 published August 1954, corrected to 7/23/55.

47. COMPARISON WITH NAUTICAL CHARTS (cont'd)

Items to be applied to Nautical Charts immediately: None.

Items to be carried forward: None.

Respectfully submitted
7 November 1955

Jacqueline B. Phillips

Jacqueline B. Phillips
Carto. Photo. Aid

Approved and forwarded

E. H. Kirsch
E. H. Kirsch,
Capt. C&GS
Baltimore District Officer

T-11233.

Geographic Names.

Back Creek
Back Way Gut
Beach Island
Big Marsh
Camp Island
Camp Island Gut
Chesconessex
Chesconessex Creek
Crystal Beach

Deep Creek
Deep Creek (village)

Island Bay

Leatherbury Church
Long Ridge

New Testament Church

Old Beach

Pocomoke Sound
Pomoco Creek

Rainy Point
Rock Gut
Rogue Island
Russell Island

Savage Island
Scott Island

Tobacco Island

West Marsh Tump

Names approved 10-31-58
L. Heck
L.H.

T-11233

49. NOTES FOR THE HYDROGRAPHER

Recoverable Topographic Stations:

BAY (1942), 1953
BEACH (1942), 1953
BEN, (1942) 1953
BOAT, (1942) 1953
CAMP, 1953
CHESS, (1942) 1953
CRAB, (1942) 1953
POINT, (1942) 1953
TOBACCO, (1942) 1953

No data was furnished for WATTS ISLAND LIGHT, on left margin of this survey.

One photo-hydro station was established:

CHIMNEY, photograph 40583, N.E. gable of 2-story "L" shaped house.

50 -

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11233

1. Projection and grids ☒ 2. Title ☒ 3. Manuscript numbers ☒ 4. Manuscript size ☒

CONTROL STATIONS

6a. Classification label ☒

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 ☒ 8. Bench marks ☒
9. Plotting of sextant fixes ☒ 10. Photogrammetric plot report ☒ 11. Detail points ☒

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ☒ 13. Low water line ☒ 14. Rocks, shoals, etc. ☒ 15. Bridges ☒ 16. Aids to navigation ☒ 17. Landmarks ☒ 18. Other alongshore physical features ☒ 19. Other along-shore cultural features ☒

PHYSICAL FEATURES

20. Water features ☒ 21. Natural ground cover ☒ 22. Planetable contours ☒ 23. Stereoscopic instrument contours ☒ 24. Contours in general ☒ 25. Spot elevations ☒ 26. Other physical features ☒

CULTURAL FEATURES

27. Roads ☒ 28. Buildings ☒ 29. Railroads ☒ 30. Other cultural features ☒

BOUNDARIES

31. Boundary lines ☒ 32. Public land lines ☒

MISCELLANEOUS

33. Geographic names ☒ 34. Junctions ☒ 35. Legibility of the manuscript ☒ 36. Discrepancy overlay ☒ 37. Descriptive Report ☒ 38. Field inspection photographs ☒ 39. Forms ☒

40. R. Glaser
Reviewer

Joseph Stenberg
Supervisor, Review Section or Unit

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.

F. M. Wislowski
Complier

F. J. Tarcza
Supervisor

43. Remarks:

5/31/57

(15)

Field Edit Report
T-11233, Project 25050
E. H. Kirsch, Chief of Party

51. Methods.- This planimetric map was field edited by riding over all roads to check their classification, to classify buildings and to examine areas questioned by the compiler. The shoreline was checked by skiff,

All additions, corrections, and deletions were made either on the field edit sheet or discrepancy print and cross referenced to the photographs. The road classifications are shown by various colors; a legend of the color scheme used is shown on the field edit sheet.

Field edit information is shown on single-lens ratio photograph Nos. 55-W-4360 and 4361. These photographs should be considered part of the field photography for this project.

52. Adequacy of compilation.- There is a constant change in the sand westward of Beach Island; also, this island is now connected to the mainland by sand.

53. Map accuracy.- No horizontal or vertical accuracy test was made on this map.

54. Recommendation.- None

55. Examination of proof copy.- Several fishermen examined a field edit copy of T-11233. There are no additions to the geographic names, and the changes are noted on the discrepancy print.

Respectfully submitted:

CH Davies

C. H. Davies

Approved and Forwarded:

E. H. Kirsch

E. H. Kirsch, CAPTAIN, C&GS
Chief of Party

REVIEW REPORT
Planimetric Survey T-11233

62. Comparison with Registered Topographic Surveys:

308	----	1:20,000	---	1850	2654	---	1:20,000	---	1904
349	----	1:20,000	---	1851	8165	---	1:20,000	---	1942
2647	---	1:20,000	---	1904					

T-11233 supersedes the prior Bureau surveys for nautical charting purposes in common areas. Surveys T-11233 and T-8165 differ considerably in position of details. The field report mentions the shoreline being subject to extensive erosion. Shoreline changes in the area are apparent in comparing T-11233 with the older surveys. In addition there is an overall difference in position of details apparently due to error in the radial plot for T-8165. The radial plot for T-11233 in the area was controlled by three field identified triangulation stations (check stations). The plotted positions of these stations and three additional triangulation stations were used with photo-hydro and photo-topo stations located by the radial plot as control for hydrography (H-8406, 1957). No sounding line plotting difficulties are mentioned in the Hydrographic Survey Report.

There is considerable difference in the surveys in the location of recoverable topographic stations. There is a maximum difference between the surveys of 67 meters in the positions as listed on the topographic station cards. The differences in positions vary in degree and direction and apparently are not related to the overall shift in details mentioned previously. The position of one topographic station, Tobacco (1942) 1953 was verified during field edit in 1956. * (continued-page 18)

63. Comparison with Maps of Other Agencies:

Chesconessex, Va. (AMS)	1:25,000	1942
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This quadrangle was produced by the Coast and Geodetic Survey for the War Department. PH-119 instructions required contour corrections in addition to planimetric

field inspection requirements to provide for revision of the topographic map. The field inspector found no evidence of change in topography effecting contours. T-11233 supersedes the quadrangle. T-8165 is the number of the Coast and Geodetic Survey vault copy of the survey. A more detailed comparison was made with T-8165 and discussed in the preceding section of this report.

64. Comparison with Contemporary Hydrographic Surveys:

H-8406

1:10,000

1957

Verification of the hydrographic survey was incomplete at the time the comparison was made. Mean High Water line and soundings were inked. Not all items were checked in the verifiers report.

Shoreline for the hydrographic survey boat sheet was provided by advance manuscripts T-11233, T-11234 and T-11235. With the exception of one area the shoreline from T-11233 was accepted (inked) on the smooth sheet. The "Advance" topographic manuscript compiled from 1955 photographs showed an opening between Beach Island and the island to the S. E. of Beach Island (Hydrographic Survey Report - page 3). The channel was closed at the time of field edit (1956). The corrected Mean High Water determined by the field editor is retained on the final copy of T-11233. The smooth sheet shows the shoreline as determined by the hydrographic survey in 1957. This area is subject to constant change.

The surveys differ in the positions of crab pens (lat. $37^{\circ}-41.1'$ and long. $75^{\circ}-46.3'$). The pens are clearly visible on the 1955 photographs and delineated correctly on the topographic manuscript. The pens were classified permanent during field edit (1956). Positions of the corners of the pens were determined by sextant fixes by the hydrographic survey party. Apparently the pens were rebuilt between 1956 and 1957.

A few details (Crab pen, Marine Ry, and pier) on T-11233 will be added to the smooth sheet during completion of verification. All discrepancies in the surveys were discussed with the Chief of the Hydrographic Verification Section during final review. There are no conflicts between shoreline and soundings.

H-8405

1:10,000

1957

Shoreline for the hydrographic survey was provided by T-11233. There were no field edit or final review shoreline corrections. There are no conflicts between shoreline and soundings.

65. Comparison with Nautical Charts:

568

1:40,000

1954 (Revised 7/1/60)

This manuscript has not been applied to the chart. There are shoreline differences between the chart and topographic survey.

66. Adequacy of Results and Future Surveys:

This map complies with National Standards of Map Accuracy and Bureau requirements.

Reviewed by:

S. G. Blankenbaker
S. G. Blankenbaker

Approved by:

L. C. Landy
Chief, Review & Drafting Sec.
Photogrammetry Division

J. E. Ebaugh
Chief, Nautical Charts
Chart Division 10/5/61

L. F. Woodward
Asst. Chief, Photogrammetry Div.

J. Bowie
Chief, Coastal Surveys

* 62. (Continued from page 16)
The 1953 topo station positions established by this survey (T-11235) are considered more reliable due to the larger scale photographs used in field work (1:10,000 scale photographs compared with 1:20,000 scale photographs used in 1942).

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TO BE CHARTED } **STRIKE OUT ONE**

TOP/DEL/END/

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Exmore, Virginia

17 November 1953

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

The positions given have been checked after listing by James E. Hundley

E. H. Kirsch

Chief of Party.

[illegible]

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. 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.

* TABILAT : SEKUNDA: AND MET: RU:

NAUTICAL CHARTS BRANCH

SURVEY NO. T-11233

Record of Application to Charts

[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.