

11792

Original

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Diag. Cht. No. 77-6.

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	PLANIMETRIC
Field No. Ph-6008	Office No. T-11792
LOCALITY	
State	MARYLAND
General locality	CHESAPEAKE BAY
Locality	DARES BEACH
19 60	
CHIEF OF PARTY	
G. F. Wirth, Chief of Field Party	
V. R. Sobieralski, Tampa District Officer	
LIBRARY & ARCHIVES	
DATE	APR 9 1963

USCOMM-DC 5087

11792
26411

DESCRIPTIVE REPORT - DATA RECORD

T - 11792

Project No. (II): **PH-6008**

Quadrangle Name (IV):

Field Office (II): **Chesapeake Beach, Md.**

Chief of Party: **George F. Wirth**

Photogrammetric Office (III): **Tampa District Office** Officer-in-Charge: **V. Ralph Sobieralski**

Instructions dated (II) (III): **31 August 1960 (Field and Office)**

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): **Stereo (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): **MAY 1 1961** 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**

~~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): **BUCKLER, 1944**

Lat.: **38°33'32.665" (1007.2 m)**

Long.: **76°31'13.320" (322.5 m)**

Adjusted
~~Horizontal~~

Plane Coordinates (IV):

State: **Maryland**

Zone:

Y= **264,656.77 ft.**

X= **937,155.08 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.

[illegible]

(Show name within area)

(11) (101)

Inapplicable

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): G. F. Wirth
C. H. Nixon
E. E. Brown
J. E. Tolodziecki, Jr.

Date: Oct. 1960

Planetable contouring by (II): Not applicable

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): Air photo Compilation
Date of Photography: 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): R. E. Smith

Date: Nov. 1960

Control checked by (III): V. P. Cackowski

Date: Nov. 1960

~~Radial Plot~~ Stereoscopic

Date: Oct. 1960

Control extension by (III): R. E. Fueschel (W.O.)

Planimetry W. W. Dawsey
Stereoscopic Instrument compilation (III):

Date: Jan. 1961

~~Contours~~

Date:

Manuscript delineated by (III): W. W. Dawsey

Date: Jan. 1961

of compilation
Photogrammetric Office Review/by (III): I. I. Saperstein

Date: Jan. 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)				
Number	Date	Time	Scale	Stage of Tide
60-S-8581	23 July 1960	09:51	1:30,000	0.5
60-S-8582	" " "	09:52	"	"

Predicted Tide (III)

Reference Station: Baltimore Md.
Subordinate Station: Chesapeake Beach
Subordinate Station:

	Ratio of Ranges	Mean Range	Spring Range
	-	1.1	1.3
H.W.	-0.1	1.0	1.2
L.W.	0.0		

Washington Office Review by (IV):

Date:

Final Drafting by (IV): V.P. Cackowski (Tampa Dist. Off.)
" " Reviewed: I.I. Saperstein " " "

Date: March 1961
Apr. 1961

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 11
Shoreline (More than 200 meters to opposite shore) (III): 4.6
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 5
Number of BMs searched for (II): 0
Number of Recoverable Photo Stations established (III): 5
Number of Temporary Photo Hydro Stations established (III): None

Recovered: 4* Identified: 2*
Recovered: 0 Identified: 0

Remarks: II One station recovered for this sheet falls .1 mile west of the sheet. Three stations in the limits of this sheet were previously listed as lost.

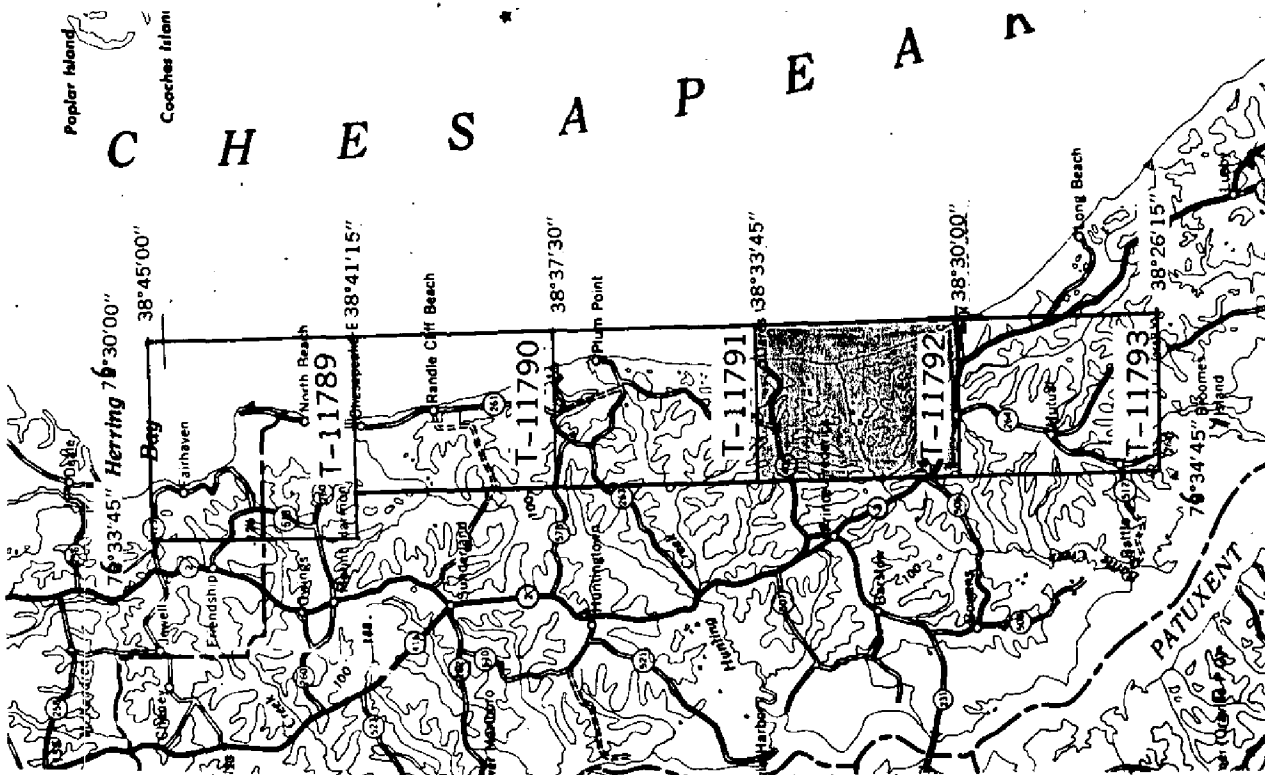
* No position available for station ROB, 1907 nor GOV.

PROJECT PH-6008

PLANIMETRIC MAPPING 1:10,000 Scale

Chesapeake Bay Western Shore

MARYLAND



Preface

T-11792

The text of this report covers sheets T-11792 and T-11793. These are the southernmost sheets of Project PH 6008. There are ^{five}~~six~~ sheets in this project; all 1:10,000 scale.

The area covered by these two sheets extends along the west shore of the Chesapeake Bay from Kenwood Beach to Dares Beach in Calvert County, Maryland. The interior field inspection extended south to approximately one mile north of the settlement of Broomes Island.

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 which 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 a few small farms. The shoreline is mainly sand and clay backed with high (up to 100 feet) cliffs a few yards from the mean high water line. There are three well settled beach communities (Kenwood Beach, Scientists Cliffs, and Dares Beach).

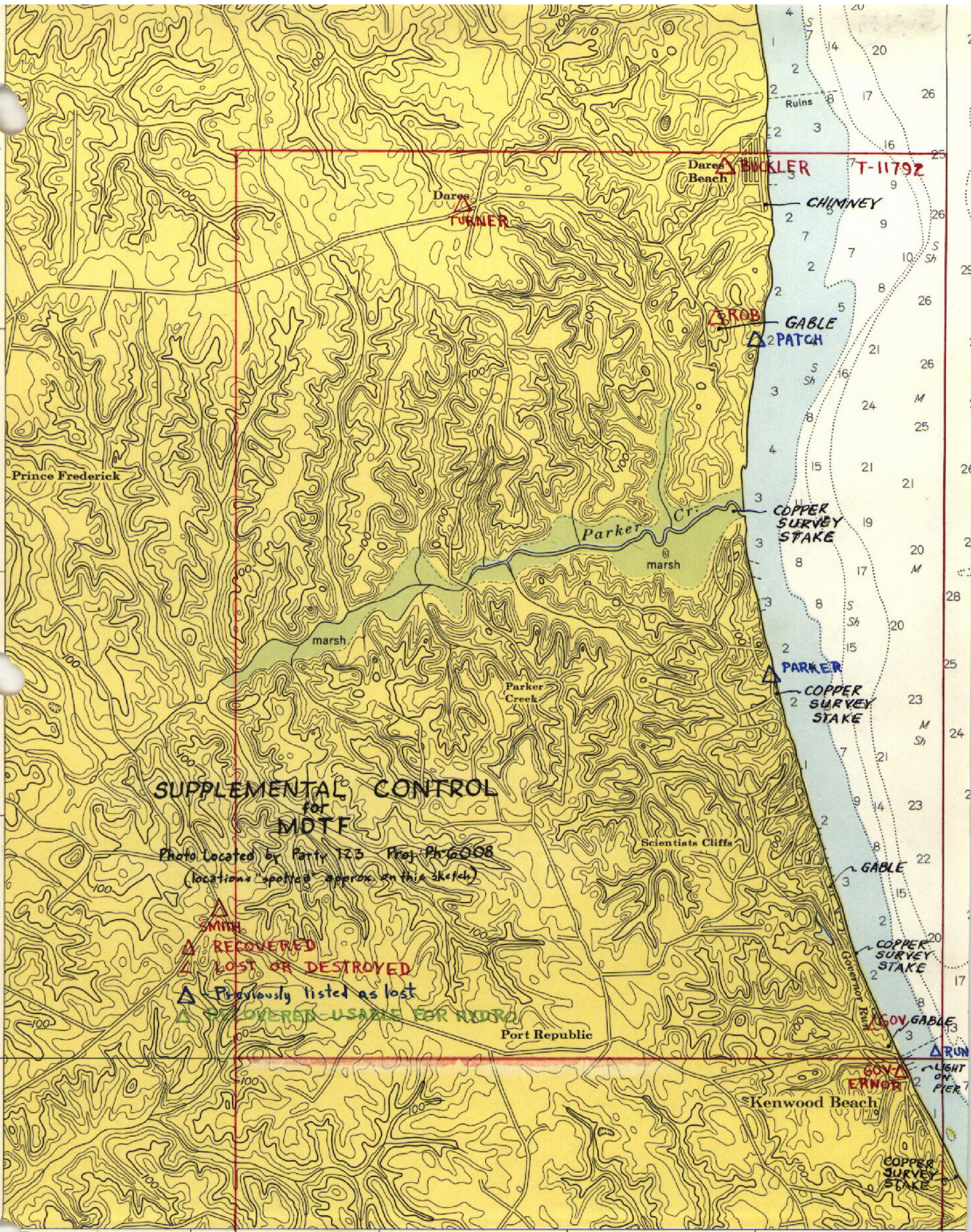
Shallow areas extend up to .4 miles offshore and consequently water traffic to these beach communities is limited to small craft. One large pier is built at Kenwood Beach.

The contact prints were dark in tone, while the ratio prints had too much glare along the shoreline. Beach detail was difficult to differentiate on the ratio prints. Interior detail was much clearer. Some beach detail is also obscured by the high bluffs. This feature is most noticeable in the Kenwood Beach area where the shoreline falls close to the edge of the photographs.

Swamp drainage in the interior is noticeable by the dark (wet) tone of the trees.

3. Horizontal Control

All horizontal control requirements were met and data was forwarded to the Washington Office on 13 October 1960.



38°
30'

T-11793 76°30'

2nd Ed., May 23/60

551 PRICE \$1.00

OFF LIMITS
BRISCOE MARSHALL

HOWE

One station required could not be recovered (WHITE HOUSE, NORTHEAST CHIMNEY, 1898) and was omitted from the requirements with the approval of the Chief of the Division. No new control was established.

The following stations have been reported as lost on Form 526.

WHITE HOUSE, NORTHEAST CHIMNEY, 1898

Station "GOV" was not searched for because a description was not available and has been so reported on Form 526.

4. Vertical Control

Contours ~ Not Applicable

No T.B.M.'s on these two sheets.

5. Contours and drainage

Contours Not Applicable

Drainage was field inspected at all road crossings and places easily reached on foot. The rest of the detailed drainage was delineated on the photos under the stereoscope. Most of the drainage was quite distinguishable since the streams have rather deep valleys; especially at their headlands. Swamp areas were outlined in red on the photos.

6. Woodland Cover

Woodland cover was delineated on the photos per instructions.

7. Shoreline and alongside features

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 consists primarily of sand bars which have been delineated on the photos. Beyond these sand bars, the bottom consists of clay.

d.) Cliffs line the entire shoreline south of Parker Creek. North of Parker Creek, the beach is backed with low hills. The cliffs are a landmark feature of the area, being greater than 100 feet high at some spots. They are almost vertical and subject to erosion by wave action. They consists mainly of clay beds with a characteristic blue clay at the bottom in the Scientists Cliffs area. This blue clay is a Pleistocene Deposit and contains numerous fossils.

e.) One large pier exists at Kenwood Beach. The rest of the shoreline is bare with the exception of a few bulkheads and groins all of which have been noted on the photos.

g.) No submarine structure could be found at Kenwood Beach as shown on U.S.C.&G.S. Chart 551.

8. Offshore features

There are numerous sand bars paralleling the shoreline on these sheets. They have been delineated on the photos as such. These bars shift quite often with storms and some are bare at extreme low waters. The normal tide range in this area is about one foot, but the tides are greatly affected by the wind. A 15 to 25 M.P.H. northwester for a day or two will gives tides two feet below normal mean low water.

The only offshore features in this area are two large fish wiers; ^{one} both on sheet T-11792, ^{one on T-11793.} The inshore and offshore ends of these wiers were located by sextant fixes. The fixes are recorded on the back of the field inspection photos. The pilings for these wiers are from 4 to 10 inches in diameter and stand 4 to 10 feet above mean high water.

9. Landmarks and aids

There are no landmarks or aids on these two sheets.

10. Boundaries, monuments, and lines

There are no boundaries or monuments on these two sheets.

11. Other control

Additional photo prints were pricked as supplemental control for the "Maryland Department of Tidewater Fisheries Project." The following list contains all the supplemental control selected for this project from south to north along the shoreline.

Copper Survey Stake - This point falls slightly S.E. of sheet T-11793. The stake can be located from photo points 3A and 3B. It was also pricked direct. The photo point location is the better position (over the pricking).

Light - Pricked direct

Gable - Pricked direct

Copper Survey Stake - Pricked direct

Gable - Pricked direct

Copper Survey Stake - Pricked direct

Gable - Pricked direct

Chimney - Pricked direct on a photo that will be submitted at a latter date. This station is at Dares Beach. The field inspection for this area is on a photo (60S8583) which will be submitted for sheet T-11791 in the next month.

All data necessary to locate these stations is on the photos. The progress sketch on page 5 of this report has these stations spotted on it.

12. Other interior features

Roads which are used only by farm machinery for access to fields, of great enough length to be a possible landmark feature have been classified "FS"(Farm Service).

13. Geographic names

A report on geographic names for the entire project will be submitted at a latter date.

14. Special reports and supplemental data

It has been requested of the Washington Office that the requirement of a "Coast Pilot Report" be deleted from the instruction because the U.S.C. & G.S. Ship SCOTT has recently completed this investigation.

A plate covering the roads and buildings in the "Scientists Cliffs" community is submitted with this report.

Notes on the plate should be self explanatory.

Submitted 28 October 1960

George F. Wirth
George F. Wirth, Chief of Party

SCALE FACTOR.....1

COMM-DC-57843

COMPILATION REPORT
T-11792

Bridge report submitted with T-11793

31. DELINEATION

The delineation was done with the Kelsh Plotter. The inspection was adequate and the photographs good.

32. CONTROL

The selection and placement of control were good and all held.

33. SUPPLEMENTAL DATA

Plate No 1, a map of Scientists Cliffs scale 1 inch = 100 ft. dated 1955 was used as an aid in showing numerous roads obscured by trees in the area of Scientists Cliffs.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

The drainage which lay almost entirely in densely wooded areas was shown by the field inspector but examination under the Kelsh Plotter revealed that the inspection put some streams on the side of ravines. The streams were delineated by following the ravine bottoms as closely as possible. In the swamps, only those streams that could be seen have been delineated.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline and alongshore details were shown as indicated by the field inspection. The shoreline inspection was adequate. No low-water lines were indicated nor were any shoal lines apparent for delineation.

36. OFFSHORE DETAILS

One fish trap, most of which falls east of the map limits, was located with data furnished by the field party and is shown.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

Three Maryland Department of Tidewater Fisheries' monuments were located as indicated by the inspection as were three natural objects. These stations are listed under Item 49.

39. JUNCTIONS

Satisfactory junctions were made with T-11791 to the north, T-11793 to the south. Chesapeake Bay lies to the east. This map is the southeast quarter of U.S.G.S. quadrangle PRINCE FREDERICK, scale 1:24,000 edition of 1953. The junction is good.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with the U.S.G.S. quadrangle PRINCE FREDERICK, scale 1:24,000 from planetable surveys of 1934-1935, edition of 1953. The comparison was favorable. No changes except those due to the passage of time were noticed. There are no planimetric maps available for comparison.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with the USC&GS Chart No. 551, scale 1:40,000 published in Feb. 1950, revised to May 1960. The same differences were noticed as mentioned under Item 46. The quadrangle was probably the source of topography for the chart.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

W. W. Dawsey
W. W. Dawsey
Cartographer (Photo)

Approved and Forwarded:

V. Ralph Sobieralski
V. Ralph Sobieralski
Tampa District Officer

49. NOTES FOR THE HYDROGRAPHER

Six stations were located on the manuscript that could be of use to the hydrographer. Three natural objects and three Maryland Department of Tidewater Fishery monuments.

MDTF 60 (COPPER SURVEY STAKE) 1960

MDTF 60 (COPPER SURVEY STAKE) 1960

MDTF 60 (COPPER SURVEY STAKE) 1960

CHIMNEY 1960 (S'ly large gable 2 story white mansion)

GABLE 1960 (E'ly of large barn on prominent knoll)

GABLE 1960 (E'ly gable black, 1 1/2 story house, bright blue roof)

PHOTOGRAMMETRIC OFFICE REVIEW

50.

T. 11792

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

5. Classification label Unclassified

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 7. Photo hydro stations XX 8. Bench marks XX 9. Plotting of sextant fixes IIS 10. Photogrammetric plot report W.O. 11. Detail points IIS

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

27. Roads IIS 28. Buildings XX 29. Railroads XX 30. Other cultural features IIS

BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS

33. Geographic names IIS 34. Junctions IIS 35. Legibility of the manuscript IIS 36. Discrepancy overlay XX 37. Descriptive Report IIS 38. Field inspection photographs IIS 39. Forms IIS 40. James J. Laporte M. M. Slavney
Reviewer 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.

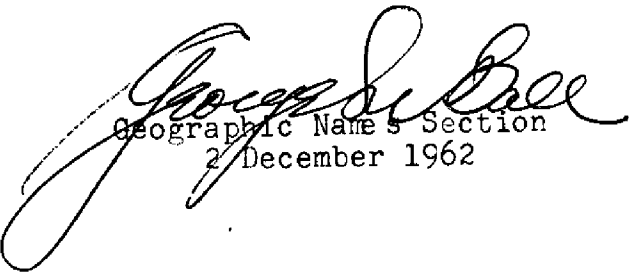
Compiler

Supervisor

43. Remarks:

48. Geographic Names:

Chesapeake Bay
Dares
Dares Beach
Governor Run
Hunting Creek
Parker Creek
Parker Creek (settlement)
Port Republic
Scientists Cliffs


Geographic Names Section
2 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

T-2395	1903	1:20,000
T-2836	1907	1:20,000
T-2842	1907	1:20,000
T-2868	1908	1:20,000
T-5348	1935	1:10,000
T-6956 a&b	1944	1:10,000
T-6957 a&b	1944	1:10,000

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

North Beach Md.	1:24,000	U.S.G.S.	1953
Prince Frederick Md.	1:24,000	U.S.G.S.	1953
Leonardtown Md.	1:24,000	U.S.G.S.	1936-1950

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

551	1:40,000	May 1960
553	1:40,000	1954 revised to Mar. 1960

See Item 47

66. Accuracy of Results and future Surveys

Subject T-sheets (5) have been compiled according to instructions and meet the requirements of adequacy and accuracy.

Approved by:

Charles L. Lerner
Chief, Cartographic Branch

J. W. Vaughn 4/17/63
Chief, Photogrammetry Div.

Reviewed by:

L. C. Lande

John S. Taylor Division
Chief, Nautical Charts Division

W. H. G. Connelley
Chief, Operations Division

