

# 5625

Diag'd. on Diag. Ch. No. 77-4

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Shoreline Compilation

Field No. None Office No. T-5625

### LOCALITY

State Maryland and Delaware

General locality Nanticoke River

Locality Sharptown - Seaford

1942-'45

CHIEF OF PARTY

L.C.Lande, Division of Photo., Wash., D.C.

LIBRARY & ARCHIVES

DATE

# 5625

## DATA RECORD

T- 5625

## Shoreline Survey

Quadrangle (II):

Project No. (II): *None*

Field Office:

Chief of Party: —

Compilation Office:  
Washington, D. C.Chief of Party: L. C. Lande,  
Chief, Graphic Compilation SectionInstructions dated (II III):  
Verbal~~Copy filed in Descriptive~~  
~~Report No. T — (VI) —~~Completed survey <sup>completed</sup> received in office: *2/5/46*  
*Completed* <sup>received</sup>Reported to Nautical Chart Section: *2/13/46*Reviewed: *6/1/49* Applied to chart No. *No Chart* Date:

Redrafting Completed: —

Registered: *9/27/49*

Published:

Compilation Scale: 1:20,000

Published Scale: Not to be published

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927

Datum Plane (III): *M.H.W.*  
*N.A. 1927*

Reference Station (III): Sharp, 1934

Lat.:  $38^{\circ}32'14.284''$   
(440.4 meters)Long.:  $75^{\circ}42'59.204$   
(1433.9 meters)Adjusted  
~~Unadjusted~~

State Plane Coordinates (VI):

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
8659	4-14-42	10:48	1:20,000	0.72 above MLW
8660	"	10:49	"	0.73 " "
8661	"	10:55	"	0.80 " "
8662	"	10:56	"	0.81 " "
8685	"	11:28	"	1.21 " "
8686	"	11:30	"	1.23 " "
8687	"	11:31	"	1.24 " "
8688	"	11:37	"	1.31 " "
8689	"	11:39	"	1.33 " "
12732 & 12733	12-4-42	12:12 & 12:13	"	3.11 & 3.10 above MLW
12734 & 12735	"	12:15 & 12:17	"	3.09 & 3.08 " "

Tide from (III): Table of predicted tides - reference station -  
Hampton Roads with corrections for Vienna, Md.

Mean Range: 3.0'

Spring Range: 3.6'

Camera: (Kind or source) U. S. Coast & Geodetic Survey nine-lens  
camera (focal length 8 $\frac{1}{2}$ " )

Field Inspection by: ~~None~~ G. B. Willey  
(Control identification)

date: Nov. 1945

Field Edit by: None

date:

Date of Mean High-Water Line Location (III):

Projection and Grids ruled by (III) S. Rose

date: 8-5-45

" " " checked by: Wash. Office

date: 8-5-45

Control plotted by: Miller, Richey

date: 10-45

Control checked by: Miller, Richey

date: 10-45

Radial Plot by: Leich, Cluff, Maki

date: 12-45

Detailed by: Maki, Leich

date: 1-8-46

Reviewed in compilation office by:

date:

~~Elevations on Field Edit Sheet~~  
~~checked by:~~

date:

STATISTICS (III)

Land Area (Sq. Statute Miles);

Shoreline (More than 200 meters to opposite shore);

Shoreline (Less than 200 meters to opposite shore);

Number of Recoverable Topographic Stations established;

Number of Temporary Hydrographic Stations located by radial plot;

Leveling (to control contours) - miles;

Roman numerals indicate whether the item is to be entered by,

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname  
and initials (not initials only).

Remarks;

This compilation was primarily prepared to furnish shoreline and hydrographic signals for a hydrographic survey contemplated in the near future. This sheet shows only the shoreline and the adjacent planimetry. Field identification of the horizontal control was accomplished by G. B. Willey in November 1945.

The shoreline and the hydrographic signals were determined by stereoscopic examination of the photographs. It was impossible to select an adequate number of hydrographic signals as there were very few natural permanent objects that could be identified; other features that could change with time were not selected as the photographs were taken approximately 3 years ago.

L. C. Landy

# COMPILATION REPORT

T-5625

## 26. Control.

The following triangulation stations were held to in the radial plot:

Sharp, 1934 (SS)	U.S.C. & G.S.
Oak Grove, 1934 (SS)	"
Laurel, Silver Water Tank, 1934	"
White, 1934 (SS)	"
Seaford, 1934 (SS)	"
Laurel, 1934 (SS)	"
Laurel, East Powerline Tower, 1934	"
Laurel, West Powerline Tower, 1934	"
Hackett, 1934	"
Cooper, 1934	"
Maryland - Delaware Corner, 1932	"
Seaford, 1910, 0.5 mi. S. of Rd. crossing (traverse point)	U.S.G.S.
Seaford, 1910, 3.0 mi. S. of Rd. crossing (traverse point)	"

The following triangulation stations were plotted but could not be held to in the radial plot:

Laurel, Maril Packing Co., Black W.T., 1934 (poor image on photo- graph)	U.S.C. & G.S.
Seaford, 1910, 1.6 mi. S. of Rd. crossing (traverse point)	U.S.G.S.
P.T.S. #16, 1910	"
P.T.S. #20, 1910	"

In addition to the triangulation stations, fourteen scale points were used from the adjoining quadrangles to the south and to the west of the plot. These scale points were generally prominent road intersections. Although the scale points were not held 100 per cent, the majority were good and were sufficient to establish a tie between these old quadrangle sheets and the new plot. The quadrangles adjoining the plot were T-8245, T-8106, and T-8105.

27. Radial Plot.

An individual radial plot was laid for the area of Map Manuscript T-5625. Thirteen photographs covered the area. The plot was laid with transparent vinylite templates. Control density and control identification were considered adequate.

Photograph coverage could not be considered entirely adequate as the positions of a number of points on the northeastern portion of the plot could not be determined by more than two radial intersecting lines. The value of photograph number 8659 was questionable due to a considerable tilt. This was a centrally located photograph and would have been very desirable for the plot.

28. Detailing.

Detailing on the Map Manuscript has been limited to shoreline and roads. Roads are detailed approximately a mile inland from the shoreline.

No field inspection was available for the area of the Map Manuscript. Mean high water line and the outer limits of low wet land at mean high water were determined in the compilation office. The photographs were considered satisfactory for office detailing with the exception that the northeast section of Nanticoke River and detail on adjacent land area in the vicinity of Seaford were delineated on the Map Manuscript on the basis of detail points determined by two cuts only.

On inspection of the photographs there was evident a considerable amount of error in the orientation of the chambers from their correct position. It was believed that this was a primary reason for some of the poorer radial intersections. In such instances, when possible, an allowance was made for the chambers in determining the position of plot or detail points.

Buildings bordering on the shoreline have been shown.

Marsh areas have been shown. These areas were determined by office inspection and in some instances it was difficult to delineate with certainty the limits of these wet areas. No differentiation was made as to vegetative cover and all wet ground areas are shown by a marsh symbol.



29. Supplemental Data.

No supplemental data was furnished the compilation office for use in detailing this Map Manuscript.

30. Mean High Water Line.

The mean high water line (firm ground) has been detailed on the basis of an inspection of the office photographs in the compilation office. This has been shown on the Map Manuscript with a full heavy-weight black acid ink line.

The outer limits of marsh areas have been shown on the Map Manuscript with a full light-weight black acid ink line. The light-weight line is not considered to be the mean high water line, but is only an indication of the outer limits of low wet land at mean high water.

31. Low Water and Shoal Lines.

No mean low water line has been shown on this Map Manuscript. None was visible on the nine-lens office photographs. The main channel (deep water) has been delineated by a dotted line, the conventional symbol for sand or mud areas. *Not a low water line. It denotes the approx. limit of shallow areas.*

32. Details Offshore from the High Water Line.

No offshore details, other than bridges, were visible on the office photographs.

33. Wharves and Shoreline Structures.

All piers, bulkheads and other shoreline structures have been detailed and shown with the conventional symbol.

34. Landmarks and Aids to Navigation.

No landmarks have been recommended for charting and there are no fixed aids to navigation within the limits of this Map Manuscript.

35. Hydrographic Control.

The compilation office has located thirty-eight temporary hydrographic stations. These are shown on the Map Manuscript by a small black acid ink circle accompanied by a brief description of the station. The stations are in most part gables of buildings, lone trees or houses not on the immediate shore and may not be practical for use so only a few of this type of station were located.



An additional large number of hydrographic stations are probably needed, but it is difficult to pick them due to the lack of sharply characteristic features along the shore. However, the mouths of the various small drainages, have been located with sufficient accuracy as to be of use for hydrographic stations.

36. Landing Fields and Aeronautical Aids.

There are no landing fields within the limits of this Map Manuscript and no aeronautical aids have been recommended.

37. Junctions.

The junction to the west with T-8245 is in agreement.

The junction to the south with T-8105 is in agreement.

The junctions are limited to shoreline and detail in the immediate vicinity of the shoreline.

38. Bridges and Ferrys.

There is a highway swing bridge at Sharptown, Md., and a highway lift bridge at Seaford, Del. There is also a railway swing bridge at Seaford, Del. A cable ferry crossing is located at Woodland, Del., and is called Cannons Ferry.

39. Horizontal Accuracy.

The probable error is believed to be within standard map accuracy, that is, not in excess of 0.5 mm. The area north of 38°37' reached only by two cuts probably should not exceed 0.5 mm in error.

44. Comparison with Existing Topographic Quadrangles.

The Map Manuscript was compared with the U. S. G. S. quadrangle map Seaford, Del.-Md., scale 1:62,500, 1902 and 1911-1912. Some changes are evident, but generally broad details are about the same. The Map Manuscript compared favorably with the U. S. E. quadrangle map Seaford, Del.-Md., scale 1:62,500, 1944.

45. Comparison with Nautical Charts.

No nautical chart is available that covers the area of this Map Manuscript.

Respectfully submitted:

K. N. Maki  
K. N. Maki

Approved: L. C. Lande  
L. C. Lande

---

Review Report for T-5625

No comment

Reviewed by:

B. Thomas Hynson  
B. Thomas Hynson  
1 June 1949

Approved by:

L. V. Griffith  
Chief, Review Section *KHM*

H. B. Edmonson  
Chief, Nautical Chart Branch  
Division of Charts

K. T. Adams  
Chief, Div. of Photogrammetry

W. M. Scaife  
Chief, Div. of Coastal Surveys

Review report on additional compilation

No Comment

B. Thomas Hynson  
9/7/50

Supplement  
to  
Compilation Report  
for  
T-5625

Upon request from Coastal Surveys, the manuscript detail along Laurel River was extended east from Longitude  $75^{\circ}39'$ , where original detailing ended, to the east limit of the sheet at Laurel. This delineation was needed to furnish shoreline for immediate hydrography.

Detail was transferred by projector from photograph 08686 (4-14-42), without field inspection, to the manuscript. The projected detail was controlled by the previously compiled data west of  $75^{\circ}39'$ , identified triangulation in the vicinity of Laurel, and the approximate photograph center.

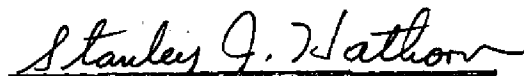
The new detail, shown in red, was compiled in a manner to provide uniformity with the previous compilation.

Geographic names were taken from USE quadrangle map, "Seaford, Del.-Md., 1:50,000, 1944".

Approved:

Submitted:

  
G. B. Wiley

  
Stanley J. Hathorn  
18 July 1950

# GEOGRAPHIC NAMES

Survey No. T-5625

Name on Survey	<div>On Chart No.</div> <div>On previous survey No.</div> <div>On U. S. quadrang. Maps</div> <div>From local information</div> <div>On local Maps</div> <div>P. O. Guide or Map</div> <div>Rand McNally Atlas</div> <div>U. S. Light List</div>
----------------	---