# 5903

U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

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Form 504 Rev. Dec. 1933

### DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

### DESCRIPTIVE REPORT

Topographio-

5903

Hydrographic \

Sheet No. 16

State North Carolina

LOCALITY

Pamlico Sound - Bay River

Smith Creek
Bonner Bay to Lambert Point.

-: <del>t</del>c

1935

CHIEF OF PARTY

John A. Bond

U.S. GOVERNMENT PRINTING OFFICE: 193

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### DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

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HYDROGRAPHIC TITLE SHEET

Acc.	H	\$ı	,,,,,,,	

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 16

REGISTER NO. 5903

StateNorth Carolina	
Pour Pirror Remliag Sound	
Locality Bonner Bay to bambert Foint  New June 1955	,
Scale 1:10,000 Date of survey May - June , 1955	
VesselMIKAWE	
Chief of Party John A. Bond	- '
Surveyed by T. A. Rydingsvard	-
Protracted byT. A. Rydingsvard	
Soundings penciled byT. A. Rydingsvard	-
Soundings in fathons feet	
Plane of referenceM.L.W.	
Subdivision of wire dragged areas by	
Inked by CR Bush Vr.	
Verified by	
Instructions datedAugust 31 , 19 3	L
Remarks:	

9861 9 NON

n. S. COAST & GEOUETIC SURVEY

#### DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet No. 16

Bay River - Bonner Bay to Lambert Point.

DATE OF INSTRUCTIONS - August 31, 1934

LIMITS

Project HT-197 #5926(1155)

The sheet covers the central portion of Bay River from Bonner Bay westward to Lambert Point and includes Spring and Vandemere Creeks. The sheet is joined on the east by sheet 15, executed this year by the party of J. C. Bose. It is joined on the west by sheet 17, surveyed this year by the MIKAWE. 14-5964 (1955)

### SURVEY METHODS

Standard Coast Survey methods of hand lead soundings and sextant fixes were used throughout. Close to the shoreline and in the extremeties of the small tributaries sextant fixes were occasionally impractical and the positions were therefor plotted on the boat sheet in reference to nearby topographic detail, appropriate notes being made in the sounding records.

All soundings on the sheet were obtained from a 24 foot skiff powered by a Johnson 9 H.P. outboard motor. The leadline was Samson mahogany tiller rope graduated in feet and fathoms. used with an 8 pound lead. The leadline held its length remarkably well and no leadline corrections were necessary throughout any of the work.

#### DISCREPANCIES

No discrepancies are known to exist. Errors in the sounding records, principally in recording of angles and fixes, have been adjusted during the smooth plotting and noted in red in the sounding records.

#### DANGERS

No dangers are known to exist which would obstruct small boat navigation in the mid-stream channels of the river or tributaries.

### COMPARISON WITH PREVIOUS SURVEYS

In general the depths developed by the new survey appear to be slightly shoaler than those shown on chart 1231.

### LANDMARKS FOR CHARTS

"Landmarks for Charts" will be made the subject of a separate report to be submitted for the entire project.

#### SHORELINE ON SMOOTH SHEET

Shoreline as shown on the sheet was obtained from the completed air-photo sheets of the area compiled by Lieutenant S. B. Grenell, and was transferred to the smooth sheet by means of a new-type projector.

The shoreline had previously been run and signals located by standard topographic methods on aluminum mounted sheets by the party of J. C. Bose. Minor differences between the topographic sheets and the air-photo sheets were adjusted before the transfer was made. As inked on the smooth sheet the shoreline now agrees accurately with that shown on the air-photo sheets.

### GEOGRAPHIC NAMES

A list of geographic names has been compiled by the photo compilation party of Lieutenant S. B. Grenell.

Submitted by,

J. A. Rydingsvard T. A. Rydingsvard Surveyor, C. & G. S.

Approved by:

John A. Bond

H. & G. Engineer Chief of Party Smooth Sheet No. 16 was plotted under the immediate supervision of the Chief of Party. The sheet and accompanying records have been inspected and are approved.

John A. Bond H. & G. Engineer Chief of Party

STATISTICS FOR HYDRO SHEET 16.

Date	Day Letter	Volume	Statute Miles	Soundings	Positions
May 20	a	1	<b>1</b> 1.7	667	121
21	ъ	1 & 2	25•4	893	210
22	c	2	35•5	1367	245
23	đ	2 & 3	20.5	913	165
2나	é	3	9.2	353	79
27	f	3 & 4	20•5	<b>6</b> 14	191
28	g	4 & 5	21.4	814	201
29	h	5	14.0	552	127
June 6	j	5	4.0	169	34
7	k	5	9•4	287	91
19	1	5	1.3	55	11
20	m	5	0.3	12	3
			176.2	7026	1478

### HYDROGRAPHIC SURVEY NO. 5903

Smooth Sheet 1
Boat Sheet 1
Sounding Records 5 Vols.
Descriptive Report
Title Sheet yes
List of Signals
Landmarks for Charts (Form 567)
Statistics <b>yes</b>
Approved by Chief of Party
Recoverable Station Cards (Form 524) No
Special Chart for Lighthouse Service No (Circular Nov. 30,1933)
Remarks
•

### Field Records Section (Charts)

### HYDROGRAPHIC SHEET NO 5903...

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	1.478.
Number of positions checked	35
Number of positions revised	/.
Number of soundings recorded	.7026.
Number of soundings revised	75
Number of signals erroneously	
plotted or transferred	

Date:

Verification by Chas R Bush J. Time: 2days 1/2 hrs.

Review by S. Rusigan. Time: 131 hrs.

### TIDE NOTE FOR HYDROGRAPHIC SHEET

February 13, 1936

Division of Hydrography and Topography:

Division of Charts: Attention: Mr. E. P. Ellis

Tide Reducers are approved in 5 volumes of sounding records for

HYDROGRAPHIC SHEET 5903

Locality Bonner Bay to Smith Creek, Pamlico Sound, N. C.

Chief of Party: John A. Bond in 1935
Plane of reference is mean low water reading
4.8 ft. on tide staff at Vandemere
4.9 ft. below B.M. 1

There is practically no periodic tide and the plane of reference was taken half a foot below mean water level.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

U. S. GOVERNMENT PRINTING OFFICE

	GEOGRAPHIC NAMES Survey No.# 5903	/	Stor O	C No. Or	D Aga	or normalia	Or loca Mode	2.0. Gilde of	A SOLUME DE SOLUMENT DE SOLUME	T. John J.	\$
,	Name on Survey	A OT	B 80.	C Fo.\Q	D	E	Or F	G	<sup>₹®</sup> H	N. K	
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′	Smith Cr.			ļ	ļ. 		<u> </u>			<del> </del>	2
,	Bell Pt. V			<u> </u>				<u> </u>	/		3
	Bay River						1 .				4
	Ball Cr.									ļ <u>.</u>	5
'	Bonner Bay										6
	Spring Cr.					]					7
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### Report on H-5903.

The records conform to the General Instructions.

The usual depth curves could be completely drawn.

The field plotting was complete and accurate.

The undersigned had to ink in a part of the shore line which was omitted by the field party. The records show positions taken off a New Dock at Vandemere. No such dock was shown on the smooth sheet. An inspection of the Air Photo Compilation showed what might be a dock to the North of the group of docks at Vandemere. Since it was so far removed it was not consi dered to be the New Dock mentioned. As the depth curve would naturally show approximately a 4ft. depth at this dock, the recorded sounding was omitted.

The junction with H-5926 on the North was very good. The junction with H-5904 on the West will be made by the verifier of that sheet when it is complete.

Comparison was made with the celuloid of Air Photo Compilations T-5661, 5662 and 5663. The topography was in good agreement. The control sheets from which the gignals were taken have not yet been received in the office. Have been received, T-6403 4/935) and T-6404 a + 2 (1935)

The work is considered excellent and complete.

The new dock at Vandemere was sketched on the sheet from the sounding record at the request of the Reviewer. There is no indication of this dock on the photographs and so no data is available as to either its size or location. The enlargement of the docks is only approximate as a 5 to 1 enlargement of 20 small on object as these docks is subject to error.

Chas. R. Bush &

#### Section of Field Records

### REVIEW OF HYDROGRAPHIC SURVEY NO. 5903 (1935) FIELD NO. 16

Bonner Bay to Smith Creek, Bay River, North Carolina Surveyed in May - June 1935 Instructions dated August 31, 1934 (NATOMA)

### Hand Lead Soundings.

3 Point Fixes on Shore Signals.

Chief of Party - J. A. Bond.
Surveyed by - T. A. Rydingsvard.
Protracted by - T. A. Rydingsvard.
Soundings penciled by - T. A. Rydingsvard.
Verified and inked by - C. R. Bush, Jr.

### 1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual, except as follows:

- a. The figures representing minutes of longitude at the ends of projection lines were shown with the lines running between the digits. The accepted practice is to show the minute figures on the right side of these lines.
- b. A new dock at Vandemere is shown on a sketch in Sounding Volume 5, page 59, but was not shown on the smooth sheet. This feature was added in the office.

The Descriptive Report is clear and comprehensive and satisfac—See Letter torily covers all items of importance, except that no information May 4,1936 regarding the wharves at Vandemere was given. These were sketched by J.A.Bond in sounding volume 5, and include a dock noted "New Dock", which was not shown on the air photo compilation, T-5562 (1934) nor on T-6404a (1935). Since no dimensions were shown on the sketch, the position and size of this dock is only approximate on the smooth sheet. This matter has been referred to the field party.

2. Compliance with Instructions for the Project.

This survey complies with the instructions for the project.

3. Shoreline and Signals.

The shoreline originates with Air Photo Compilations T-5661 (1934), T-5662 (1934) and T-5663 (1934). The topographic signals are from Graphic Control Sheets, T-6403b (1935), T-6404a (1935), and T-6404b (1935).

4. Sounding Line Crossings.

The cross lines as well as the adjacent parallel lines are in good agreement.

### 5. Depth Curves.

The usual depth curves can be satisfactorily drawn.

### 6. Junctions with Contemporary Surveys.

The junction with H-5926 (1935) on the northeast is satisfactory. The junction with H-5904 (1935) on the west is satisfactory.

### 7. Comparison with Prior Survey.

### H-1011 (1869).

This survey, on a scale of 1:20,000, covers the entire area of the present survey and is the only prior survey by this Bureau. Comparison shows that in some areas general shoalings which vary from 1/2 to 2 feet have occurred. This is particularly marked in the mouth of South Creek, where a general shoaling has resulted in moving the 6 foot curve approximately 250 meters southeastward. Practically all the creeks show general shoalings. There are no shoals or features worth mentioning on the old work. Because of the changes which have occurred in some of the area, the present survey, which is more detailed and on a larger scale, should supersede the old work for charting purposes.

## 8. Comparison with Chart No. 538 (New Print dated Feb. 15, 1936), and Chart No. 1231 (New Print dated Dec. 16, 1935).

### a. Hydrography.

Within the area of the present survey the charts are based on H-1011 (1869), discussed in the foregoing paragraph, and contain no additional information that needs consideration in this review.

### b. Aids to Navigation.

Red Buoy "N2" was located in practically the same position as charted.

The lighted Bn. off Bell Pt. (unnumbered), was located by triangulation approximately 100 meters north of the charted position which originates with Lighthouse Notice to Mariners No. 23 of 1916.

The present positions of these aids correctly mark the features intended. Subsequent to the present survey, the number of the red buoy has been changed to "N4" and the beacon was given number "5". (Lighthouse Notice to Mariners No. 1, 1936).

### 9. Field Plotting.

The plotting of soundings and the protracting of positions were well done.

### 10. Additional Field Work Recommended.

This survey is complete and no additional work is required.

### 11. Note to Compiler.

The compiler's attention is called to a new dock at Vandemere shown on H-5903 (1935). This dock is not shown on T-5562 (1934) on T-6404a (1935). (See par. 1b, this review).

### 12. Superseding Old Surveys.

Within the area covered the present survey supersedes the following survey for charting purposes:

H-1011 (1869) in part.

13. Reviewed by - G. Risegari, April 10, 1936.

Inspected by - R. L. Johnston.

Examined and approved:

C. K. Green,

Chief, Section of Field Records.

Chief, Division of Charts.

Chief. Section of Field Work.

Chief, Division of H. & T.

April 25, 1936.

To: Lieutenant John A. Bond, U. S. Coast and Geodetic Survey, Launch MIKAWE, Box 1570, Norfolk, Virginia.

From: The Director,

U. S. Coast and Geodetic Survey.

Subject: H 5903 - Docks at Vandemure, Bay River, North Carolina.

Enclosed is photostat of a section of your survey H 5903 (1935) showing the docks at Vandemere. The sub-sketch was added to the smooth sheet in this office.

The dock marked "new dock" is from a sketch by T. A. Rydingsvard in volume 5 of the sounding records, and is referred to as Lupton Fish Dock, Measured distances to the dock are not shown in the records and its location is therefore only approximate on the sub-sketch. Confirmation of the relative location as shown on the sub-sketch is desired.

(Simple Acting Director.

Inclosure.

30 m

POST-OFFICE ADDRESS:

Box 1570, Norfolk, Virginia

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

6 at.s.

### DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

May 4, 1936

To:

The Director

U. S. Coast and Geodetic Survey

Washington, D. C.

From:

Commanding Officer U.S.C.& G.S.S. MIKAWE

Subject:

H 5903 - Docks at Vandemere, Bay River, North Carolina.

In reply to your letter of April 25, 1936 (82 DRM) relative to the location of the new dock at Vandemere, N. C. as shown on sheet H 5903, I would advise you that inquiry among all members of my party who are fimiliar with conditions in that locality would seem to indicate that the dock is correctly located on the sub plan of H 5903.

John A. Bond

Lieut. U.S.C.& G.S.

Commanding MIKAWE

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