

5963

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

MAR 30 1936

Acc. No.

Form 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

~~Topographic~~
Hydrographic } Sheet No. 21 5963

State North Carolina

LOCALITY

NEUSE RIVER

Beard, Long, Clubfoot & Hancock

Creeks.

1935

CHIEF OF PARTY

John A. Bond

3
6
9
10

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

MAR 30 1936

REG. NO.

Acc. No. _____

HYDROGRAPHIC TITLE SHEET

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. 21

REGISTER NO. **5963**

State North Carolina

General locality NEUSE RIVER

Locality Beard, Long, Clubfoot and Hancock Creeks

Scale 1:10,000 Date of survey October-November, 1935

Vessel MIKAWA

Chief of Party John A. Bond

Surveyed by C. F. Chenworth

Protracted by C. F. Chenworth

Soundings penciled by C. F. Chenworth

Soundings in ~~fathoms~~ feet

Plane of reference M.L.W.

Subdivision of wire dragged areas by _____

Inked by George F Jordan

Verified by George F Jordan

Instructions dated August 31, 1934

Remarks: _____

DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet No. 21

NEUSE RIVER - Beard, Long, Clubfoot & Hancock Creeks

DATE OF INSTRUCTIONS - August 31, 1934

Project - HT-197

LIMITS

The sheet, which is made up of three separate layouts, covers the survey of Beard, Long and Clubfoot, and Hancock Creeks, tributaries of the Neuse River. The survey of each creek joins sheet 18, surveyed this season.

SURVEY METHODS

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

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 are necessary throughout any of the work.

The boat used was a 24 foot skiff equipped with sounding chair and plotting table, powered by a Johnson 9 H.P. outboard motor.

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 colored pencil in the sounding records.

DANGERS

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

COMPARISON WITH PREVIOUS SURVEYS

In comparison with soundings shown on chart 538 shoaling appears to have occurred at the mouth of Beard Creek, the controlling depth past Beard Creek Beacon now being 5 feet. Throughout the remainder of the creek depths are consistently shoaler on the new survey.

No depths shown on chart at this point. N.M.M.

In Clubfoot Creek depths opposite the entrance beacon are as shown on the chart but throughout the remainder of the creek depths developed by the new survey appear to be about 1 foot less than indicated on the chart.

See Rev. for more detailed comparisons. N.M.M.

At the mouth of Hancock Creek ^{37431' edge on H 956 (1867-68)} 4 feet can now be carried over the bar; the present chart depth is 3 feet. South of the entrance mid-channel depths as charted appear to be from 1 to 2 feet deeper than depths developed by the present survey.

SHORELINE ON SMOOTH SHEET

All shoreline shown on the smooth sheet was carefully transferred from aluminum mounted sheets surveyed this season by standard topographic methods.

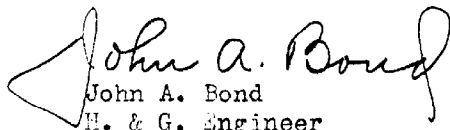
LANDMARKS FOR CHARTS

"Landmarks for Charts" and "Non-floating Aids to Navigation" have been submitted under separate covers.

Submitted by,

C. F. Chenworth
Aid, C. & G. S.

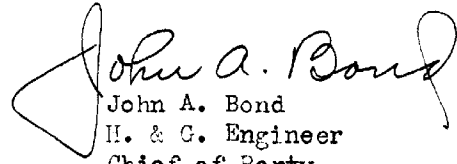
Approved by:


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

LIST OF STATISTICS - SHEET 21

Date	Day Letter	Volume No.	Statute Miles	Soundings	Positions
Oct. 23	a	1	19.2	1084	196
25	b	1 & 2	15.2	650	140
28	c	2	17.6	784	132
29	d	2 & 3	18.0	857	182
30	e	3	3.3	144	23
Nov. 4	f	3	18.0	771	170
5	g	3 & 4	6.5	295	46
8	h	4	19.5	796	181
11	j	4	6.0	246	43
12	k	4 & 5	23.7	1033	224
13	l	5	<u>10.6</u>	<u>421</u>	<u>109</u>
			157.6	7081	1446

Smooth Sheet No. 21 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. & C. Engineer
Chief of Party

HYDROGRAPHIC SURVEY NO. 5963

Smooth Sheet 1

Boat Sheet 1

Sounding Records 5 Vols. _____

Descriptive Report yes

Title Sheet yes

List of Signals yes

Landmarks for Charts (Form 567) yes

Statistics yes

Approved by Chief of Party yes

Recoverable Station Cards (Form 524) No

Special Chart for Lighthouse Service No (*No floating Aids*
(Circular Nov. 30, 1933) *shown*)

Remarks _____

VERIFIER'S REPORT ON H-5963 (1935)

1. The creeks covered in this survey are joined by survey H-5962 (1935). ✓

2. Control and shoreline are obtained from Field Sheets "FF", "GG", "JJ" and "KK", (not registered). Comparison has been made. Air photos have not been taken of this section.

T-6467(1935)
T-6468(1935)
T-6470(1935)
T-6471(1935)
respectively

3. The field records conform to the requirements of General Instructions. ✓

4. Remarks:

a. ~~The Tide Gage at Clubfoot Creek is referred to at Pos. 22b; but information is not definite as to the exact location.~~

b. Two references are made to a sandspit in Beard Creek, at Lat 35-00.3' / long 76-52.1 off signal "Dan"- Pos. 98a and 104a. The information is not given as to the elevation of the same.

Included
sheet, not
attached ✓

Respectfully submitted,

George F. Jordan
George F. Jordan

May 5, 1936

Field Records Section (Charts)

5963

HYDROGRAPHIC SHEET NO.

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

Number of positions on sheet	.1446.
Number of positions checked	...42.
Number of positions revised0.
Number of soundings recorded	7081
Number of soundings revised	...17.
Number of signals erroneously plotted or transferred0.

Date: May 5, 1936

Verification by George F. Jordan Time: 29½ hrs.

Review by Harold W. Murray Time: 3 "

H5963

	Remarks	Decisions
1		
2	old T 1071 has "Hancocks"	<u>Hancocks</u>
3	misspelled on smooth sheet.	<u>Kahookee</u>
4	old T 1051 has "Beards"	<u>Beard Creeks</u>
5		
6	old T 1052 has "NITCHELLS"	<u>NITCHELL</u>
7		SEE T-6468
8		
9		
10		7/5/39 GJE
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GEOGRAPHIC NAMES

Survey No. **H5963**

Name on Survey	On Chart No. 538 On previous survey No. T1051 & 2 On U. S. quadrangle Maps From local information On local Maps P. O. Guide or Map Rand McNally Atlas U. S. Light List										
	A	B	C	D	E	F	G	H	K		
<u>Neuse River</u> ✓	*	✓					✓			1	
<u>Hancock Creek</u> ✓	*	✓								2	
Kabooken Creek										3	
<u>Beard Creek</u> ✓	*	✓								4	
<u>Clubfoot Creek</u> ✓	*	✓								5	
<u>Mitchell Creek</u> ✓	*	✓	Mitchell on name standard								6
<u>Great Island</u> ✓	*	✓								7	
<u>Long Creek</u> ✓	*	✓								8	
<u>Gulden Creek</u> ✓	*	✓								9	
<u>Cahoogue</u> Kabooken Creek	*	✓			Cahoogue CC					10	
										11	
										12	
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Names underlined in red approved
 by *[Signature]* on 4/27/36

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT
~~PHOTOSTAT COPY~~

No. H **5963**
~~XXXXXXXX~~
~~XXXXXXXX~~

received *Mar 30, 1936*
 registered *Mar 31, 1936*
 verified
 reviewed
 approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
✓ 20			
22			
✓ 24		GTR	Leadline - page 1 - P. R.
25			
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	
----	--

G. H. C. 1936

Rac

TIDE NOTE FOR HYDROGRAPHIC SHEET

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 5963

Locality Beard, Long, Clubfoot and Hancock Creeks, Neuse River, N.C.

Chief of Party: John A. Bond in 1935
Plane of reference is mean low water reading
2.5 ft. on tide staff at Oriental
5.6 ft. below B.M. 1 (1935)
2.5 ft. on tide staff at Hancock Creek
2.4 ft. below B.M. 1

There is practically no periodic tide in this area and the plane of reference was taken 1/2 foot below mean water level.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5963 (1935) FIELD NO. 21

Beard, Long, Clubfoot and Hancock Creeks, Neuse River, N. C.

Surveyed in 1935

Instructions dated August 31, 1934 (NATOMA)

Hand Lead Soundings.

3 Point fixes on shore signals.

Chief of Party - John A. Bond.
Surveyed by - C. F. Chenworth.
Protracted by - C. F. Chenworth.
Soundings plotted by - C. F. Chenworth.
Verified and inked by - George F. Jordan.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual.

The Descriptive Report is clear and comprehensive and satisfactorily covers all items of importance.

2. Compliance with Instructions for the Project.

The plan, character and extent of the survey satisfy the instructions for the project.

3. Shoreline and Signals.

The shoreline and signals are from plane table surveys: T-6467 (1935), T-6468 (1935), T-6470 (1935), and T-6471 (1935).

4. Sounding Line Crossings.

Agreement of sounding line crossings is good.

5. Depth Curves.

Within the limits of the survey, the usual depth curves may be satisfactorily drawn including portions of the low water curve.

6. Junctions with Contemporary Surveys.

The junctions at the mouth of Beard, Clubfoot and Hancock Creeks with H-5962 (1935) are satisfactory.

7. Comparison with Prior Surveys.

a. H-956 (1867-68).

This 1:20,000 scale survey covers a part of Neuse River, as

well as Hancock and Beard Creeks. In Beard Creek depths on the present survey are consistently 1 foot shoaler. Depths at the mouth of the creek, however, are in close agreement. In Hancock Creek, depths on the present survey generally vary 1 to 2 feet shoaler. A few spots, however, vary 3 to 4 feet shoaler whereas others are in close agreement.

b. H-963 (1868).

This 1:20,000 scale survey covers Clubfoot Creek and a part of Neuse River. In the creek, depths on the present survey vary 1 to 3 feet deeper in some cases and are in close agreement in others. In Neuse River, depths are in close agreement.

8. Comparison with Chart 538 (New Print dated Feb. 15, 1936).

a. Hydrography.

Within the area of the present survey, the chart is based on surveys discussed in foregoing paragraphs of this review. The source of the charted feature in latitude $34^{\circ}56.1'$, longitude $76^{\circ}51.3'$, was not ascertained but it has been charted since the 1st edition of Chart 538 in 1915. It falls in mid-channel in depths of 5 feet on the present survey and is not shown on any prior surveys made by this Bureau. It is probably a blotch and should be disregarded in future chartings.

b. Fixed Aids to Navigation.

- (1) The lighted beacon at the mouth of Clubfoot Creek was located on the present survey in the same position as charted and satisfactorily marks the features intended.
- (2) The lighted beacon at the mouth of Beard Creek was located on the present survey approximately 220 m. SE of its charted position. The charted position originates with Lighthouse Notice to Mariners No. 31 (1924) and is located by the intersection of three bearings to other known objects. The position on the chart is evidently spotted in relation to the charted hydrography originating with H-956 (1867-68) which hydrography was not sufficiently extensive to determine the best position for the light. The position as shown on the present survey satisfactorily marks the channel.

9. Field Plotting.

Field protracting and plotting were exceptionally accurate and conform to the requirements of the Hydrographic Manual.

10. Additional Field Work Recommended.

This is a well executed survey and no additional field work is required.

11. Note to Compiler.

Attention is directed to a small sand spit originating with the sounding records in Beard Creek, (Latitude 35°00.3', longitude 76°52.1') which is not shown on the contemporary topographic survey.

12. Superseding Previous Surveys.

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

H-956 (1867-68) in part
H-963 (1868) in part

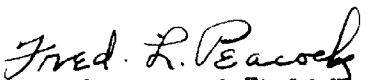
13. Reviewed by - Harold W. Murray, June 2, 1936.

Inspected by - A. L. Shalowitz.

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.

Applied to Chart Comp. 538 July 19, 1937. H. M. as Ewen
" " " Cor. 420 Nov. 13, 1939 X. R.