

5277

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<p>Form 504 Ed. June, 1928</p> <p>DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY R. S. Patton, Director</p>	
State: N. C.	
<p>DESCRIPTIVE REPORT</p> <p>Topographic } Sheet No. 1 5277 Hydrographic }</p>	
<p>LOCALITY</p> <p>New River</p>	
<p>1933.</p>	
<p>CHIEF OF PARTY</p> <p>Augustus P. Retti.</p>	

5277

DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SHEET No. 1 (Field Number), NEW RIVER, N. C.

DATE OF INSTRUCTIONS

Instructions for this survey were dated Sept. 29, 1932 and supplemental instructions dated Dec. 2, 1932.

LIMIT AND EXTENT

This sheet covers the area shown on chart 422 from New River Inlet to Fulchers Landing and along the inter-coastal waterway.

SURVEY METHODS

All signals used on this sheet were located by triangulation and topography in 1932-33 by this party. For list of signals used and method of determination see Page 2, Vol. 1 of sounding record for this sheet.

COMPARISON WITH PREVIOUS SURVEYS

Due to the construction of the inter-coastal waterway numerous changes along it have taken place.

The oyster patches as shown on chart 422 should be retained, reference is particularly made to Long Rk. and Half Moon Rk. and the patches off Cedar Point. Verification of these shoals is shown by positions on "H" day for the shoals in the vicinity of Cedar Point; by 17 to 19B for Hatch Rock; by 170D for Long Rock; and by 1 & 2C for Half Moon Rock. Raisin Rock was verified as indicated by Pos. 57K and was found to be out of position.

Look into

REMARKS

Practically all soundings were taken with a sounding pole marked in feet.

Lead line was used only on J, K & R days.

For the reduction of soundings the plane of reference used was M.L.W. of local datum as established by the U. S. E. in 1931, this corresponds to a value of 2.3 feet on staff and gage.

All soundings on smooth sheet are in feet.

Reference is made to U. S. E.s survey of 1931 as shown on blue print #247832, mailed to the office with the smooth sheet.

A. P. Ratti

STATISTICS SHEET No.1 (Field Number)

Date 1933	Letter	Volume	Positions	Soundings	Miles Stat.	Vessel
Jan. 12	A	1	21	120	2.6	Chartered Launch-
" 16	B	1	74	490	9.1	
" 17	C	1	56	250	3.6	Miss Swansboro
" 18	D	1 & 2	171	1150	25.0	
" 19	E	2	129	603	13.4	
" 26	F	2	43	263	3.9	
" 27	G	2	4	24	0.1	
Feb. 6	H	2	91	523	12.0	
" 7	J	3	149	819	14.6	
" 15	K	3	105	565	11.9	
" 16	L	3	36	198	2.6	
" 17	M	4	29	136	2.7	
" 20	N	4	7	50	1.0	
" 21	P	4	72	392	8.8	
" 22	Q	4	49	269	5.6	
" 23	R	4	92	601	12.8	
" 24	S	5	24	134	2.2	
TOTALS			<u>1152</u>	<u>6587</u>	<u>131.9</u>	

200

(COPY)

September 5, 1933

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in
5 volumes of sounding records for

HYDROGRAPHIC SHEET 5277

Locality New River Inlet and Vicinity, North Carolina

Chief of Party: A. P. Ratti in 1933

* Plane of reference is mean low-water, reading

2.3 ft. on tide staff at Peru

9.8 ft. below B. M. 1

0.8 ft. on tide staff at Sneads Ferry

5.0 ft. below B.M. 1

0.6 ft. on tide staff at Sea Island

8.6 ft. below B.M. 1

Height of mean high water above plane of reference is 3.0 feet at Sea Island.

There is practically no periodic tide at Peru and Sneads Ferry.

* The plane of reference used for the reduction of soundings is mean low water as determined by the U. S. Engineers at Peru and Sneads Ferry and by K. T. Adams in 1927 at New River Inlet carried to Sea Island by spirit levels in 1933.

Condition of records satisfactory except as noted below:

Atty *Hamm*
Chief, Division of Tides and Currents

SECTION OF FIELD RECORDS
Report on Hydrographic Sheet No. 5277.
New River Inlet and Vicinity,
New River, North Carolina.

Chief of Party - A. P. Ratti.
Surveyed by - A. P. Ratti.
Protracted by - R. A. Cathey (Hand).
Soundings penciled by - A. P. R. and R. A. C.
Verified and inked by - W. L. Mullen.

The records conform to the requirements of the Hydrographic Manual with the following exceptions:

A and G days not plotted on boat sheet.

No bottom characteristics were taken on C day.

The one fathom curves may be completely drawn. The data is insufficient to completely draw the low water line.

The field plotting was complete and well done, with the exception that positions 74E, 75E, 84E and 85E were omitted. Station Gate was found to be out of position and is now corrected.

Positions 27L to 36L inclusive were omitted on the boat sheet.

Attention is called to the fact that the smooth sheet has been cut by dividers in making holes in tracing paper. The sheet was received by me in this condition.

At the time of starting this sheet I was not familiar with the regulation requiring the verifier to mark all positions checked in the record so this has not been done, however a total of 22 percent of all positions have been checked. This amount was made necessary by the extreme distortion of the boat sheet.

One position 17C plotted on land. I checked the shore line at this point and several others with the topographic sheet and find that it has been transferred to the smooth sheet in a careless manner, being as much as ten or fifteen meters out in places.

Submitted by - W. C. Mullen.

SECTION OF FIELD RECORDS

Review of Hydrographic Sheet No. 5277.

New River Inlet and Vicinity, New River, North Carolina.

Surveyed January - February 1933.

Instructions dated Sept. 29, 1932 (A. P. Ratti, Proj. HT-113)

Chief of Party - A. P. Ratti.

Surveyed by - A. P. Ratti.

Protracted by - R. A. Cathey (Hand).

Soundings penciled by - A. P. Ratti and R. A. Cathey.

Verified and inked by - W. L. Mullen.

1. The records in general conform to the requirements of the Hydrographic Manual, but no bottom characteristics were recorded on C day. The Descriptive Report is inadequate in the description of the channels in the delta area, also no mention is made of the numerous signals in the water area of this and the adjoining sheet. The Topographic sheet Descriptive Report states that many "duck blinds" exist in New River but does not definitely state which and what they are. The list of signals attached to this sheet, does not give any description of the signals.

2. The plan and extent of development conform to the general regulations but do not satisfy the specific instructions which call for a complete survey of both the Inlet and the Inland Waterway, see par. 16 of the Instructions. The survey and/or description of the channels in the delta area is also inadequate.

3. Soundings are consistent and the agreement in depths at the crossing of lines is very good. Only a few of the channels in the delta area were sounded and the sketching on boatsheet and description in the Report are inadequate.

4. Depth curves can be drawn satisfactorily except in the delta area where they are of minor importance.

5. Junction with H. 5301 is adequate.

No junction was effected with outside hydrography at the Inlet. The deeper channel seems to have shifted from the east side to the west side of the Inlet.

6. Comparison with H. 1841 and H. 1861 (surveys of 1888) shows that the delta area and water areas adjacent to it have changed considerably, probably due in part to the construction of the Intracoastal waterway. The depths in the upper part of New River shown on this sheet (H. 5277) agree well with those shown on H. 1861.

U. S. Engineer surveys of 1931 (BP26851) are in good agreement. The channel sounding lines support the later reports on the effective depth available in the dredged channel.

Attention is directed to the variation of local usage from a number of names now shown on Chart 422, see Descriptive Report T. 4721.

H. 5277 - 2.

The structure shown in six feet of water off Peru is not noted by the new survey. There is however an iron pipe and a mooring platform shown about 100 meters southward of the structure shown on the chart.

7. Field drafting was fair. One signal position was revised and several corrections made in the shoreline. The broken line transferred from the topographic sheet as a low water line was changed to a dotted line.


The surface of the paper is badly cut around many of the signals and more care should be used when cutting out in the overlay tracing papers.

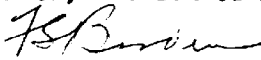
8. Recommendation. This sheet (H. 5277) should supersede all previous surveys for charting purposes, using the latest U. S. Engineer reports for the depths in the improved waterway. BP25337 gives center line of channel but no depths in channel or adjacent to it.

Further surveys are necessary at the inlet to effect a junction with existing hydrography.

The delta area and a part of the Intracoastal Waterway and adjacent waters are inadequately surveyed, see par. 2, above. Signals in water areas should be definitely described. This could easily be done by adding a brief description to the list of signals furnished with the sounding records.


9. Reviewed by - R. J. Christman, Oct. 26, 1933.


L. O. Colbert,
Chief, Section of Field Records.


Chief, Section of Field Work.

Examined and approved:


Chief, Division of Charts.


Chief, Division of H. & T.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES
JUN 16 1933
REG. NO. 5277
Acc. No. _____

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. 1

REGISTER NO. 5277

State North Carolina

General locality New River

Locality New River Inlet and Vicinity

Scale 1-10000 Date of survey Jan.-Feb., 19 33

Vessel Chartered Launch "Miss Swansboro"

Chief of Party A.P.Ratti

Surveyed by A.P.Ratti

Protracted by R.A.Cathey (Hand)

Soundings penciled by A.P.R. & R.A.C.

Soundings in ~~fathoms~~ feet

Plane of reference Local datum established by U.S.E. 1931.

Subdivision of wire dragged areas by ---

Inked by _____

Verified by _____

Instructions dated Sept. 29 & Dec. 2, 19 32.

Remarks: Junction made with U.S.E. Department survey of 1931 as shown on blue print 24782 which is forwarded with this sheet.

KWW 8/26/92

LCC

September 5, 1933.

Division of Hydrography and Topography

Division of Charts

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5 volumes of sounding records for

HYDROGRAPHIC SHEET 5277

Locality New River Inlet and Vicinity, North Carolina

Chief of Party: A. P. Ratti in 1933

Plane of reference is mean low water, reading

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9.8 ft. below B. M. 1

0.8 ft. on tide staff at Sneads Ferry

5.0 ft. below B.M. 1

0.6 ft. on tide staff at Sea Island

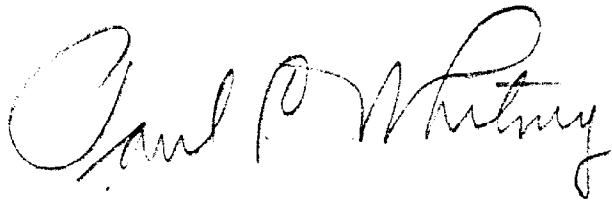
8.6 ft. below B.M. 1

Height of mean high water above plane of reference is 3.0 feet at Sea Island.

There is practically no periodic tide at Peru and Sneads Ferry.

* The plane of reference used for the reduction of soundings is mean low water as determined by the U.S. Engineers at Peru and Sneads Ferry and by K. T. Adams in 1927 at New River Inlet carried to Sea Island by spirit levels in 1933.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents