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Form 504	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
....., Director	
	
State: <i>North Carolina</i>	
DESCRIPTIVE REPORT	
<i>Hydrographic</i>	Sheet No. ^E 4696
LOCALITY	
New River Inlet	
New River Inlet to New Topsail	
Inlet	
1926-'27	
CHIEF OF PARTY	
K.T. Adams	

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET "E"

1. This hydrographic sheet was accomplished in compliance with instructions dated July 31, 1926. The completed sheet was surveyed between the dates November 21, 1926 and August 30, 1927.

2. General Description of the Coast. The entire coast is flat, being composed of an outer strip of sand beach, separated from the mainland by sloughs and marsh. The mainland and the tree line are in general about one mile back from the beach. The beach is low, with no very great elevation to any of the sand dunes and for a short distance above New Topsail Inlet the sound side of the beach is covered with low bushy trees.

There are no built up sections on the beach within the limits of this sheet, the only buildings being small fishing shacks or camps.

There are no prominent land marks within the limits of this sheet, other than the two inlets, New Topsail and New River.

3. The currents in this area are very slight and may be disregarded everywhere except in the inlets. In these inlets the current runs very strongly at times and with an ebb tide and a southerly or southeasterly sea they are very dangerous to enter. New Topsail Inlet is used very little. New River Inlet is used considerably by local fishing and pleasure boats.

4. Landmarks: See paragraph 2 above and descriptive report and list of positions accompanying topographic sheet covering this area.

5. There are no inshore dangers at a reasonable distance off the coast. In the northern half of the sheet the six fathom curve extends considerably farther off shore than in the southern half but the bottom is regular with the exception of the shoal two miles east of New River Inlet.

There are a few small wrecks along the beach which small boats coasting close inshore should beware of.

6. The inlets within the limits of this sheet are of little value to navigation, the channels are narrow, shallow and shifting. New Topsail Inlet is scarcely ever used. New River Inlet is used locally but is not buoyed.

7. Vessels can anchor over the entire area, however the holding bottom is rather poor, but it is better than in the area just to the southwest.

8. The entire area was surveyed by hand lead soundings, from three quarters of a mile offshore to seaward by the ship, except in the vicinity of New River Inlet, and inshore to the breaker line by the launch. The control was entirely by fixed positions, all of which were on shore objects, with the exception of several small areas in which angles on buoys, located from shore fixes, were used.

Respectfully submitted,

K.T. Adams

K. T. Adams,
H. & G. Engineer,
Commanding Officer,
U.S.C. & G.S.S. Lydonia.

Location of Buoys as scaled from Aluminum Plate.

S H E E T " E "

FINE	34° 15'	+	4679.4
	34° 16'	-	865.8
	77° 24'	+	4239.6
	77° 27'	-	365.3
GOOD	34° 16'	+	3046.2
	34° 19'	-	2500.0
	77° 27'	+	3857.7
	77° 30'	-	745.2
BUST	34° 20'	+	4710.0
	77° 18'	+	2496.0
TRY	34° 24'	-	3390.0
	77° 20'	+	4116.0

C. & G. SURVEY
L 41
DEC 9 1927
Acc. No.

DESCRIPTIVE REPORT

to accompany

Sheet "E"

S R E E F "E"

Date	Day	Volume	Positions	Soundings	Miles, statute,	Ship.
Nov. 21, 1926	A	1	33	228	20.3	Lydonia.
"	22	1	104	612	61.2	"
"	23	1	105	587	59.5	"
"	24	1	20	139	11.4	"
Dec. 2	E	1	19	119	10.0	"
"	7	2	92	590	54.0	"
"	15	2	22	184	15.6	"
"	16	2	98	626	57.7	"
"	17	2	49	251	27.5	"
"	18	3	27	161	15.8	"
"	19	3	67	450	39.3	"
"	21	3	103	674	60.6	"
"	22	3	45	280	31.6	"
"	22	4	20	131	11.8	"
"	23	4	84	524	49.3	"
Jan ^y 4, 1927	Q	4	48	317	27.5	"
"	5	4	61	320	31.2	"
"	7	4	41	228	22.2	"
"	7	5	45	274	24.6	"
"	12	5	105	631	61.7	"
"	13	5	53	334	32.1	"
Feb. 1	V	5	66	348	33.2	"
"	1	6	12	69	6.6	"
April 15	W	6	59	331	29.3	"
"	20	6	148	673	78.2	"
"	21	6	14	102	8.0	"
May 1	Z	7	45	247	25.3	"
"	2	7	8	46	4.6	"
"	12	7	87	532	46.5	"
"	14	7	14	79	7.1	"
"	16	7	46	268	20.2	"
"	17	7	36	202	19.0	"
"	18	7	24	131	10.4	"
"	18	8	9	45	3.6	"
June 2	G'	8	17	86	8.1	"

Date	Day	Volume	Positions	Soundings	Miles, statute,	Ship
June 9, 1927	H*	8	129	506	66.8	Lydonia.
" 10,	J*	8	25	97	14.1	"
" 11,	K*	8	72	344	51.7	"
" 12,	L*	8	42	211	19.5	"
" 12,	L*	9	19	90	9.6	"
" 13	M*	8	42	192	27.5	"
" 14	N*	9	80	369	42.0	"
" 22	P*	9	8	33	3.5	"
			2245	12,861	1,259.7	
Dec. 9, 1926	a	1	26	176	7.0	Motor Sailer.
Jan. 7, 1927	b	1	104	660	28.5	"
" 23,	c	1	76	447	23.2	"
Feb. 24,	d *	1				"
Aug. 29	e	2	92	666	28.6	"
" 30	f	2	65	336	12.8	"
			365	2285	100.1	
Total:			2606	15,146	1,359.8	

* This work transferred to Sheet "D".

J.D.H.

(11)

December 30, 1927.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
volumes of sounding records for

11

HYDROGRAPHIC SHEET

4696

Locality:

NEW RIVER INLET, NORTH CAROLINA.

Chief of Party:

Plane of reference **R. T. Adams, 1926-7,**

ft. on tide staff at **M L W**

1.3 " " " " " " **Cape Lookout (Sept. 1926)**

3.5 " " " " " " **(July, 1927)**

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

G. H. Hulse

Chief, Division of Tides and Currents.

NOTE:- General instructions were not followed in that tide reducers were entered in integral feet for depths less than 7 fathoms.

Report on H4696

Survey in 1926-'27

Chief of Party - K.T. Adams

Surveyed by - K.T. Adams

Plotted by - C.L.A., H.A.P., F.R.G.

Sounding in Pencil by - H.A.P.

Verified and checked by John S. Lane

1. The records conform to the requirements of the General Instructions.
2. The plan and character of development fulfills the requirements of the General Instructions.
3. The sounding line crossing are adequate except for the over-lap of ship and launch work. The launch work generally being deeper. The greatest differences being 5 to 6 ft. just opposite station "Aye". By instruction of Capt. Colbet and Ellis the launch soundings which were deeper ~~than~~ the ship soundings were omitted.
4. The usual depth curves could be drawn.

5. The field plotting was completed to the extent prescribed in the general instructions.
6. No part of the work had to be done over by the office draftsman.
7. No adjacent sheets were completed at the time of completion of this sheet.
8. Additional surveying is not required to fully develop in-pat areas within the limits of the sheet.
9. The character and scope of the surveying and the field drafting were both excellent.

John S. Lacey

DEPARTMENT OF COMMERCE

AND REFER TO No. 11-DRM

U. S. COAST AND GEODETIC SURVEY

WASHINGTON March 22, 1928.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4696

East Coast of North Carolina - New River Inlet to Topsail Inlet

Surveyed by K. T. Adams, F. K. Okeson.

Protracted by G. L. Anderson, H. A. Paton, F. R. Gossett.

Soundings in pencil, H. A. Paton.

Verified and inked by J. G. Ladd.

1. Specific instructions for the work were very well complied with.
2. The development is adequate. No additional work is necessary unless it is desired to further investigate the 30-foot shoals located approximately at Long. $77^{\circ} 23'.2$, Lat. $34^{\circ} 29'$ and Long. $77^{\circ} 21'.8$, Lat. $34^{\circ} 29'.5$.
3. The records were poor in recording the positions of the beginnings and ends of the lines in the "Remarks" column.
4. Sheets to the south have not yet been completed.
5. The sheet was compared with sheets No. 644 completed in 1859 and No. 1456 completed in 1880. In both these previous surveys the lines were run approximately one mile apart with additional short lines running out to the three fathom curve.

The ten fathom curve of the older surveys averaged the ten fathom curve of the 1927 work, that is, it fell about as much one side as the other. It showed approximately the same characteristics.

The five fathom curve west of New River Inlet compared very well. The 30-foot shoal at Lat. $34^{\circ} 29'$, Long. $77^{\circ} 23'.2$ fell between two lines of the old survey.

East of New River Inlet the curves were fairly good except just to the eastward of the detached shoal where the older survey showed a deep outward bend. As the 1927 work ran over this area it is not thought to be important.

The three fathom curves practically coincided.

The shoal east of New River Inlet has a least depth of 10 feet. The old survey showed twelve but there was only one line run over it and no attempt made at development.

6. A few changes in the location of the curves as inked were made in the sheet.
7. Drafting and inking - neat and good.
8. Reviewed by E. R. McCarthy, Jr. H. & G. Engr., March 6, 1928.

Approved:

Chief, Section of Field Records (Charts)

Chief, Section of Field Work (H. & T.)

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

4696

U. S. Coast and Geodetic Survey.

Register No. ^E 4696

State North Carolina

General locality New River Inlet

Locality **New River Inlet to New Topsail Inlet**
~~2 1/2 mi. SW to 6 mi. NE of New River Inlet~~

Chief of party K. T. Adams

Surveyed by K. T. Adams

Date of survey November 21, 1926 to August 30, 1927

Scale 1 : 40,000

Soundings in Feet

Plane of reference M. L. W.
P. L. A.

Protracted by *V. A. P.* Soundings in pencil by *H. L. P.*
F. R. Gossett

Inked by Verified by

Records accompanying sheet (check those forwarded):

Des. report, _____ Tide books, _____ Marigrams, 3 * Boat sheets,

_____ Sounding books, _____ Wire-drag books, _____ Photographs.

Data from other sources affecting sheet

Remarks:

* Part of launch sheet "G" accompanying sheet "E".

*Filed by SA-13
to be filed with G sheet.*