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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: *North Carolina*

DESCRIPTIVE REPORT.

Hyd. Sheet No. *3766*

LOCALITY:

*Western Portion of Albemarle
Bluff Point to Roanoke River
from Edenton to Eden House
Point*

1915

CHIEF OF PARTY:

O. W. Ferguson

11-4645

3766

LIBRARY

Place with descriptive report
of hydrographic sheet No. 3766

S.P.A.

Drawing Section.

The finished hydrographic sheet is to be accompanied by the following form, properly filled in, when the sheet is turned in to the office.

U. S. COAST AND GEODETIC SURVEY
Register No. **3766**

STATE North Carolina.

GENERAL LOCALITY Albemarle Sound.

LOCALITY Western part (Edenton to Bluff Point)

Surveyed by O.W. Ferguson, J.E. Marsh, S.D. Winship, R.P. Eyman.

Chief of Party O.W. Ferguson.

Date Feb. to May 1915

Scale 1/20,000

SOUNDINGS IN Feet

Plane of reference Mean Low Water

Protracted by field Party

Soundings plotted by Field Party

Inked by _____

Verified by _____

The 6 foot curve is shown thus
" 12 " " " " "
" 18 " " " " "
" 30 " " " " "

DEPARTMENT OF COMMERCE.

COAST AND GEODETIC SURVEY.

DR. E. LESTER JONES, SUPERINTENDENT.

SURVEY OF THE WESTERN PORTION OF ALBEMARLE SOUND N.C.

1 E
TITLE SHEET

For Hydrographic Sheet X. 3766

Extending from Bluff Point to the Roanoke River

and from Edenton to Eden House Point.

BETWEEN

Latitude 35° 56' 00" to 36° 05' 35"
Longitude 76 27 00 " 76 43 30

SCALE 1 : 20,000

From March 1st, to May 13th, 1915.

OBSERVERS

O. W. Ferguson, Assistant.
James E. Marsh, Mate.
Raymond P. Eyma, Deck Officer.
S. Davis Winship, " "
Nathaniel P. White, " "

RECORDERS

Nathaniel P. White, Deck Officer.
H. W. Godsey, C. W.
A. S. Bristow, W. 2 C.

DEPARTMENT OF COMMERCE.

COAST AND GEODETIC SURVEY.

DR. E. LESTER JONES, SUPERINTENDENT.

SURVEY OF THE WESTERN PORTION OF ALBEMARLE SOUND, N.C.

- - - - -
DESCRIPTION REPORT
- - - - -

For Hydrographic Sheet A.

Extending from Bluff Point to Roanoke River

And from Edenton to Eden House Point.

between

Latitude 35° 56' 00" to 36° 05' 35"

Longitude 76 27 00 " 76 43 30

Scale 1 : 20,000

From March 1st, 1915 to May 13th, 1915

OBSERVERS

- O. W. Ferguson, Assistant.
- James E. Marsh, Mate,
- Raymond P. Nyman, Deck Officer.
- S. Davis Winship, " "
- Nathaniel P. White, " "

RECORDERS

- Nathaniel P. White, Deck Officer.
- H. W. Godsey, Ships Writer.
- A. S. Bristow, Writer 2 C.

LEADSMEN

R.T.Morgan, Sea.; Johan Jacobsen, Sea.; Rolf Skau, Sea. ^{and} J.R.Mercer, Sea.

COXSWAINS

John Godsey, Q.M. 3 C.; W.H.Buckmaster, S.M.M.; Johan Jacobsen, Sea. ^{and} Rolf Skau, Sea

SURVEY OF THE WESTERN PORTION OF ALBEMARLE SOUND, N.C. 1915.

DESCRIPTION .

This sheet includes all of the water perimeter from Bluff Point and two Miles East of ^{Leonora} ~~Leonard~~ Point, westward to the mouth of the ~~X~~ Roanoke River, to Eden House Point on the Chowan River, to the shores of Edenton and Pembroke Creek to 4½ miles above Edenton. On this sheet the great Pile Bridge of the Norfolk Southern, over five miles long, with several Plate Girders Span openings and one draw for passing large ships, *is located.*

TOWNS

Edenton, a first class country town of about 2700, is the only town. It is a large distributing center and does some manufacturing. Has Steamboat lines and the Norfolk Southern Rail Road.

OCCUPATION

The occupation of the inhabitants of Edenton pertains to the work of manufacturing, Lumber, Cotton thread, Cotton Seed Oil, Peanut ^{mill} ~~factory~~ etc. and distributing. Large fishing interests are carried on over this entire area, but the profits have been growing smaller of late. Farming claims the attention of very many, ⁱⁿ raising peanuts, cotton, corn and the various products.

SHORES

The shores are, above water, marshy with a strip of sand or of high land containing some clay, rising to ten and twenty feet in places. Some portions as at Capehart, ^{have been} cut away considerably. The under water ^{gently} shores are shallow and ~~gently~~ sloping, most everywhere, and in places (marked on the sheet) abound with stumps and stakes; for as the water is fresh, and contains no Teredo Navalis, the stumps do not decay or become eaten up by worms.

Survey of the western portion of Albemarle Sound, N.C. 1915.

CREEKS

--

There is only one creek of any importance on this sheet, Pembroke or Machamicomock Creek, which forms the prolongation of the narrowing lagoon above Edenton.

This creek was developed by Topography for two miles and by Hydrography for four miles above the Hatchery. At Pembroke point, at the U.S. ^{Fish} Hatchery, it has the least depth, about ^{five} ~~three~~ feet but after passing this narrow bar it furnishes a depth from ^{ten} ~~ten~~ to six ^{teen} feet for ^{three and a half} ~~two~~ miles farther.

WATER

--

These waters are fresh, but may become a little brackish after long periods of drought. At the Ice Plant and the City Water works one may find a good supply of fresh artesian water which can be put on board very readily.

BOTTOM

The bottom, in the outer and main part of this sheet, is uniformly hard and sandy, ^{howe} ~~however~~ sticky and good holding bottom on Edenton bay and Bachelor Bay (at the mouth of Roanoke River), in the Solmon River, also on Cypress shores, and on stumpy areas the bottom is soft and sticky.

The stumpy areas are marked on the sheet.

HARBORS

--

This whole sound partakes of the nature of a harbor, but the exposed area becomes pretty rough at times. The depth over the main areas runs between 15 and 22 feet.

SURVEY OF THE WESTERN PORTION OF THE ALBEMARLE SOUND, N.C. 1915.

The best harbor is Edenton Bay, also Chowan River up a few miles from the mouth and Selman River for small boats drawing six feet.

DAY MARKS AND LIGHTS

The sound is wide and of quite uniform depth ^{from} of 19 to 21 feet. There is a light on the Draw of ^{the} long pile bridge across the sound, from Skanners Point .

Run # 2 should be moved to the point of the bar 400 meters farther South and ~~and~~ 165 meters farther west, and should be a red beacon; then, vessels could run from the draw direct for this light and make one turn right here for the Range light and Edenton; also, this Red Beacon would be very valuable in giving the course from Roanoke River to Edenton .

MacKays beacon, above the bridge and towards the south shore, is of very little use, It was useful before the bridge was built to guide the ferry boats crossing the Bay into MacKays Creek .

CURRENTS

There are no regular tides manifested, the area of the sounds being so immensely larger than the inlets; but the currents sweep to and fro moderately under the influence of the wind.

NAVIGATION

The long bridge is somewhat of an obstruction to navigation but furnishes a light and other points for locating .

Vessels drawing 8 feet have no trouble reaching Edenton docks, and

SURVEY OF THE WESTERN PORTION OF THE ALBEMARLE SOUND, N.C. 1915.

by dredging for ^a half mile, 12 feet could be carried.

Pembroke creek to the U.S. Fish hatchery furnishes five feet and from eight to twelve feet above. Chowan River furnishes good navigation; Salmon Creek six feet depth. Entering the ^{River} Roanoke, only nine feet of water is found, for about a mile, and something less could be carried at low water.

CRAFT

--

Regular line of steamers run three times a week from Edenton to Plymouth on the Roanoke and up the ^{Rivers} Chowan, also to Elizabeth City, where freight is transferred for Norfolk.

Some boats freight direct^{ly} from these waters through the canal to Norfolk. Fishing boats, flat bottom schooners and gasoline boats, carrying wood, lumber, fish and supplies, ply these waters.

SHIPPING

--

SP The commodities shipped are ^m supplies, fertilizer, grain, cotton, poultry and vegetables and truck, coal, wood, lumber, fish, etc.

STATISTICS FOR ALBEMARLE SOUND SHEET A. EDENTON, N.C.

May 13th, 1915.

DATE	1915	LETTER	VOL.	POSITIONS	SOUNDINGS	MILES		VESSEL.
						STATUTE		
March 24	"	a	1	115	965	31.75		LAUNCH 54
" 25	"	b	1	152	1287	44.50		"
" 27	"	c	2	56	478	16.20		"
" 29	"	d	2	161	1385	51.20		"
" 30	"	e	2	161	1201	50.25		"
April 1	"	f	3 & 4	163	1217	51.25		"
" 5	"	g	4	144	1214	46.25		"
" 6	"	h	4	45	329	12.25		"
" 8	"	i	5	84	592	17.000		"
" 9	"	k	5	115	862	22.25		"
" 12	"	l	5 & 6	126	867	28.25		"
" 13	"	m	6	38	242	7.50		"
" 14	"	n	6	10	72	2.50		"
" 17	"	o	6	49	432	10.50		"
" 19	"	p	6	125	1021	24.25		"
" 26	"	r	7	105	846	18.75		"
" 27	"	s	7	57	442	9.75		"
" 27	"	a	1	100	353	8.75		DORY 48
" 28	"	t	7	106	842	18.25		LAUNCH 54
May 1	"	b	1	49	419	7.80		DORY 48
" 7	"	u	8	53	346	10.00		LAUNCH 54
" 13	"	w	8	91	670	16.00		" "
" 13	"	c	1	72	446	11.25		" 44
		23	9	2177	16739	516.65		

SURVEY OF THE WESTERN PORTION OF ALBEMARLE SOUND, N.C.

LIST OF GEOGRAPHIC POSITIONS TO ACCOMPANY HYDROGRAPHIC SHEET, NO A.

Name	Character		Latitude			Longitude		
Abb.	Small flag in top of tree in water		36°	02'	431 ^m	76°	36'	457 ^m
Arrow	Tree boarded and whitewashed	*V.	36	01	1384	76	35	1255
Ban	Tree in water caged and whitewashed		35	56	834	76	40	1391
Barn	Outer gable of large barn	V.	35	57	1041	76	29	735
Bay	Tree in water caged and whitewashed		35	56	42	76	39	1412
Cact.	Cattus (1909) \triangle	V.	36	00	726.7	76	30	1268.2
Call	Tree in water caged and whitewashed		36	01	692	76	27	1220
Can	Black Can Buoy No. 1	V.	35	57	1393	76	41	718
(Cape)	Capeheart (1925) \triangle	V.	35	59	296.0	76	41	284.9
Court	Edenton Court House (1845-50) \triangle	V.	36	03	not given scaled (870)	76	36	(739)
Cyp	Cypress (1909) \triangle	V.	36	02	249.2	76	39	474.5
Der	Center of plate girder span	V.	35	57	1840	76	35	1038
Draw	Highend of Draw Bridge	V.	35	59	428.8	76	35	426.0
Eden	Eden 2 (1909) \triangle	V.	36	02	1071.8	76	42	731.4
Fen	Tree in water caged and whitewashed		35	57	50	76	43	714
Flag	Small Flag in top of tree		35	57	1449	76	43	311
Fun	Lone tree in water		35	58	1834	76	41	260
Gab	Outer gable of small wharf house		35	56	396	76	38	856
Gir.	Center of plate girder span	V.	35	58	1141	76	35	726
Gum	Whitewashed tree near \triangle Gum ⁹ (1909)		36	00	710	76	41	270
(Gum)	Gum (1909) \triangle		36	00	713.3	76	41	287.8
Hart	Whitewashed tree in water		35	58	757	76	42	14
House	Outer gable of wharf house	V.	36	00	738	76	31	877

* V. signify that this object is Promnent.

SURVEY OF THE WESTERN PORTION OF ALBEMARLE SOUND, N.C.

LIST OF GEOGRAPHIC POSITIONS TO ACCOMPANY HYDROGRAPHIC SHEET, NO. A.

Name	Character	Latitude	Longitude
Leary	Leary 2 (1909) \triangle	36° 01' 748.1 ^m	76° 27' 1208.3 ^m
Low	Small flag on stump in water \odot	36 03 513	76 36 1374
Lum	Outer end of long wharf *V.	36 02 748	76 42 488
Mack	Mackeys Creek Beacon (1909) \triangle V.	35 56 1142.5	76 36 1138.8
Mouth	Tree in water caged and whitewashed V.	36 02 1111	76 37 618
Net	Small flag on fish stake \odot	35 59 1389	76 31 360
Next	Small flag in top of tree in water \odot	36 03 671	76 41 301
Oil	Water Tower of Cotton Seed Oil Mill V.	36 03 510	76 36 556
One	Signal \odot	36 01 199	76 29 277
Pan	Pan (1909) \triangle V.	35 56 874.9 ⁴	76 35 1143.2
Plate	Center of plate girder span V.	35 59 1354	76 35 178
Red	Small flag in top of tree in water \odot	36 02 101	76 38 532
Roan	Roanoke River L.H. (1909) \triangle V.	35 57 56.7	76 41 1005.6
Skin	Skinner (1915) \triangle V.	36 00 1204.4	76 34 1190.2
Sleight	Sleight 2 (1909) \triangle	35 57 1112.5	76 29 613.1
Snag	Tree in water whitewashed	35 56 922	76 42 1312
Sod	Signal \odot	35 56 915	76 32 1395
Span	Center of plate girder span V.	35 56 1675	76 36 68
Spire	Church Spire V.	36 00 1825	76 33 1300
Strut	Tree caged and whitewashed	35 56 1569	76 42 521
Stump	Tree in water whitewashed	35 56 1012	76 43 816
Swan	Small signal \odot	35 56 326.6	76 37 957.7
Swing	Cupola of watchmans house V.	35 57 675.0	76 35 1323.2

* V. signify that this object is Promnent.

SURVEY OF THE WESTERN PORTION OF ALBEMARLE SOUND, N.C.

LIST OF GEOGRAPHIC POSITIONS TO ACCOMPANY HYDROGRAPHIC SHEET, NO. A.

Name	Character		Latitude			Longitude		
Tank	Edenton water tower (1909) Δ	V.	36°	03'	(751) ^M	76°	36'	(911) ^M
Thru	Center of plate girder span	V.	36	00	381	76	34	1451
Tree	Small flag in top of tree \odot		36	02	1200	76	40	895
Vow	Tree in water caged and whitewashed		35	56	1251	76	41	970
War	Outer gable of wharf house	V.	36	00	1797	76	29	848
Wash	Tree caged and whitewashed		36	00	1153	76	32	1210
White	Outer gable of wharf house	V.	36	01	367	76	28	841
Yet	Flag on fish stake \odot		36	00	1386	76	27	1185

AIDS TO NAVIGATION ALSO USED.

N. 4	Red nun off Bluff Pt.	V.	36	00	1246	76	27	661
N. 6	Red nun off Skinners Point		36	00	807	76	35	928
N.2	Red nun entrance to Edenton Bay	V.	36	02	410	76	36	1814
S. 4	Red spar - Edenton Bay	V.	36	02	1112	76	36	1174 ⁵
S. 1	Black spar " "	V.	36	03	325	76	36	1045
S. 6	Red spar " "	V.	36	03	380	76	36	915
S. 3	Black spar " "	V.	36	03	598	76	36	1066
M.	Black and Red spar off Reedy Pt.	V.	36	01	1227	76	37	1102
C. 1	Black can entrance to Roanoke River	V.	35	57	1393	76	41	718

VEC
Sept. 24, 1915

HYDROGRAPHIC SHEET 3766.

Albemarle Sound, vicinity of Edenton, North Carolina,
by Asst. O. W. Ferguson in 1915.

TIDES.

	Edenton ft.
Mean low water, or plane of reference on staff	4.6
Lowest tide observed " "	2.6
Highest " " " "	7.6
Mean range of tide	0.3

Hydrographic Sheet 3766.
Albermarle Sound.

This sheet was protracted and plotted by the Field Party and the work was carefully done. In verifying it, those positions which appeared doubtful were checked, the others being accepted as correct.

The area was well developed and dangers to navigation accurately located. However, there is a difference of one foot at nearly half of the crossings, due possibly to the fact that there was a heavy sea while most of the work was being done; and the soundings taken on A day from position 7, 1 1/2 miles south of O Mid, to position 13, near O Gab, are three feet less than those of crossing lines. There are four ^{other} crossings on this sheet with a difference of two and three feet. These are indicated in pencil.

A search was made for the ten foot shoal shown on Hyd. Sheet 828 in lat. $35^{\circ} 74'$ and longitude $76^{\circ} 39' 30''$, but the least depth found was thirteen feet. However, a snag was discovered near position 61P.

The four foot shoal at the mouth of Salmon Creek shown on Hyd. Sheet 1230A in lat. $36^{\circ} 00' 10.90''$ and longitude $76^{\circ} 42' 29.3''$ was not investigated and as it falls near three lines of soundings each of which shows a depth of about nine feet, it was indicated on this sheet in red.

A number of stumps and snags were located and as no symbols for them were given on the sheet of Conventional

signs, the symbol ~~#~~ with a descriptive word or phrase such as "stump" or "old tree" were used.

The soundings are in feet.

Inked and verified by

S. L. Rosenberg.

H. 3766.

Report cannot be found. This is a very good sheet with exception of a few discrepancies in depths on cross lines to the eastward of the entrance to Roanoake River.

Sheet examined in Div.
of Hyd'y & Tool'y.