

3841

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic
Field No. A1, A2, A3. Office No. T6841

LOCALITY

State North Carolina
General locality Cape Lookout
Coast of North Carolina
Locality Lookout Bight

194 3

CHIEF OF PARTY

William F. Deane

LIBRARY & ARCHIVES

DATE July 31, 1943

Applied to charts A-1876, 420 and 1234 before review JPR August 1943

" " chart 1233 before review W.A. Bender Oct 1943

No correction to Chart 421 after review - JTW 7/18/44

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

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

Field No. **A-1, A-2, A-3**

REGISTER NO.

State **North Carolina**

General Locality **Cape Lookout**
Coast of North Carolina

Locality **Lookout Bight**

Scale **1:10000** Date of survey **January**
February, 19 **43**

Vessel **Launch FARIS**

Chief of party **William F. Deane**

Surveyed by **William F. Deane and Robert H. Randall, Jr.**

Inked by **W. F. D. and R. H. R.**

Heights in feet above **MHW** to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated **October 22**, 19 **42**

Remarks: _____

DESCRIPTIVE REPORT

To Accompany Topographic Sheets A-1, A-2, and A-3.

LAUNCH FARIS

WILLIAM F. DEANE, CHIEF OF PARTY

PROJECT GS-298

1943

Authority: The work on this sheet was done under authority of the Director's Instructions dated October 22, 1942.

Scope: The survey was done by personnel of the Launch FARIS during January of 1943 in order to establish signals for the hydrographic survey in the vicinity of Lookout Bight, North Carolina. The survey established the high water line along Shackleford Banks from Longitude $76^{\circ} 37'.7$ eastward into Lookout Bight and continuing southward along the west shore of Cape Lookout to Latitude $34^{\circ} 35'.8$. The limits of mean low water were determined inside Lookout Bight.

Control: Topography was begun at Topographic Station ABE, whose position was determined by resection from triangulation stations Back Sound Beacon, 1933, Bull, 1913, and Shackleford Banks, East Gable House, 1933. Traverse was thence continued eastward, the work being facilitated by the flat nature of the topography which allowed resections at all topographic stations upon the above mentioned triangulation stations and, on sheets A-2 and A-3, triangulation stations Jack, 1933, Cape Lookout Lighthouse, 1933, East Radio Tower, Cape Lookout, 1933, and West Radio Tower, Cape Lookout, 1933. All traverses between signals closed within the allowable limits and adjustment was made in the field.

Methods: Standard planetable methods were used throughout.

General: Comparison of present conditions with those indicated on Topographic Sheet 4346-a ⁽¹⁹²⁸⁾ reveals no major changes in the eastern part of the bight, but discloses the considerable extension of the sand point to the northeast of the breakwater and the widening of the shoal area east of this point, with the disappearance of one of the small sand islands and the alteration of the others to the southeastward of the flashing red beacon. ^{The position of} the breakwater ^{is different by about 20} ~~itself shows a shift in position of 20 to 30 meters southwest of its apparent~~ ^{from its} former position. The visible portion of the breakwater, averaging only a half foot above mean high water, is considerably broken up and apparently much deteriorated, but evidently has been responsible for the building up of the shore nearby- the rocks beyond its inshore end being now completely buried- as well as for the greater part of the other changes noted above. The positions of all other offlying features such as wrecks were determined by hydrographic means.

Magnetic Observations: Magnetic meridians were determined at triangulation stations Jack, 1933, and topographic station EX. It was not possible to get a meridian near the radio towers because of the amount of local attraction caused by the steel structures. The meridians obtained agreed closely.

Landmarks for Charts: Landmarks for charts were submitted on Form 567.

<u>Statistics:</u>	Statute miles of shoreline:	12.9
	Number of stations located:	49
	Square statute miles:	0.4

Respectfully submitted,

Robert H. Randall, Jr.

Robert H. Randall, Jr.
Jr. H. & G. E.

Approved and forwarded,

William F. Deane

William F. Deane
Chief of Party.

LIST OF TOPOGRAPHIC SIGNALS

Topographic Sheet A-1:

ABE
ART
BIT
CAL
DON

Topographic Sheet A-3:

CAM
NEW
POD
UNO

Topographic Sheet A-2:

		Latitude			Longitude		
		°	'	Meters	°	'	Meters
CHIM	Prominent chimney on white house.	34	36	1197	76	32	647
FIX	Lighthouse radio mast.	34	37	711	76	31	782
KIN	No. 3 Coast Guard bunk shack, SE gable.	34	38	1187	76	32	1236
NET	No. 2 Coast Guard bunk shack, SE gable.	34	38	413	76	32	432
PIER	Coast Guard pier, shed at end.	34	36	1266	76	32	232

BAN	JON	RAN
BOY	KAR	RAY
CAR	LAT	RED
DUN	LEE	RIT
EAR	LIT	SET
EX	MIL	TAR
FAG	MIT	TRY
FAN	MOP	TOW
GIL	NAY	VIM
GO	NOT	WET
HAY	OLD	
HOE	OX	
JAR	PAT	

TE841

	Remarks	Decisions
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GEOGRAPHIC NAMES

Survey No. **T6841**

Name on Survey	On Chart No.	On previous survey No.	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>North Carolina</u>									1
<u>Lookout Bight</u>									2
<u>Wreck Pt.</u>									3
<u>The Drain</u>									4
<u>Shackleford Banks</u>									5
<u>Cape Lookout</u>									6
									7
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Names underlined in red approved

by L. Heck on 1/20/44

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

No. H

No. T

T6841

received July 31, 1943
registered August 3, 1943
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			
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90			

RETURN TO

82	R.W.Knox
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R.W.Knox

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF TOPOGRAPHIC SURVEY

REGISTRY NO. 6841 a,b,c

Field No. A-1, A-2, A-3

North Carolina, Cape Lookout, Lookout Bight
Surveyed January 1943; Scale 1:10,000
Instructions dated October 22, 1942

Plane Table Survey

Aluminum Mounted

Chief of Party - W. F. Deane
Surveyed by - W. F. Deane and R. H. Randall, Jr.
Inked by - W. F. Deane and R. H. Randall, Jr.
Reviewed by - R. H. Carstens
Inspected by - H. R. Edmonston, January 19, 1944

1. Junctions with Contemporary Surveys

There are no adjoining contemporary surveys. A holiday of 1100 meters remains between the A-1 and A-2 portions of the present survey.

2. Comparison with Prior Surveys

T- 315	(1851)	1:10,000
T- 416	(1853)	1:20,000
T- 874	(1862)	1:10,000
T-1695	(1886)	1:20,000
H-3374	(1912)	1:10,000
T-3387	(1913)	1:20,000
T-3394	(1913)	1:20,000
T-4346	(1926-28)	1:20,000; 1:10,000
T-5574	(1933)	1:20,000

Agreement with the shoreline along Shackleford Banks from these prior surveys is fairly good. Differences range from about 150 meters on the earlier surveys to only minor differences on the 1933 survey. Considerable change, however, has taken place in the shoreline from the breakwater to The Drain. The spit has extended about one mile to the northeast since the earliest survey was made. Since the 1928 survey of this area was accomplished new piers have been built, The Drain has been dredged, and changes in the high water line have taken place. The present survey is adequate to supersede these prior surveys within the common area.

3. Comparison with Chart 1233 (Latest print date 8-20-43)
Chart 1234 (" " " 9-14-43)
Chart 1876-1-(1) (Special print)

a. Topography

The charted topography within the limits of the present survey originates with the present survey.

b. Magnetic Meridian

The survey value of the magnetic meridian is in satisfactory agreement with the charted value.

4. Condition of Survey

Satisfactory.

5. Compliance with Instructions for the Project


Satisfactory.

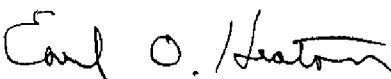
6. Superseded Surveys


T- 315 (1851)	in part
T- 416 (1853)	" "
T- 874 (1862)	" "
T-1695 (1886)	" "
H-3374 (1912)	" "
T-3387 (1913)	" "
T-3394 (1913)	" "
T-4346 (1922-28)	" "
T-5574 (1933)	" "

Examined and approved:


Chief, Surveys Branch


Chief, Division of Charts


Chief, Section of Hydrography


Chief, Division of
Coastal Surveys