

6835

6835

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Hydrographic
Field No. 1243	Office No. H-6835
LOCALITY	
State	NORTH CAROLINA
General locality	Ocracoke Inlet
Locality	Vicinity of Ocracoke <del>Big Foot Slough &amp; Nine Foot Shoal</del>
Channels	
194 3	
CHIEF OF PARTY	
Raymond H. Tryon Jr.	
LIBRARY & ARCHIVES	
DATE	

H6835

Form 537  
(Ed. Nov. 1941)

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. H-6835

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.

REGISTER No. 6835

Field No. 1243

State NORTH CAROLINA

General locality OCRACOCKE INLET  
Vicinity of Ocracoke

Locality ~~Big Foot Slough, Nine Foot, Teaches Hole & Silver Lake Channels~~

Scale 1:10,000 Date of survey January - July, 1943

Instructions dated November 2, 1942

Vessel ELSIE III

Chief of party Raymond H. Tryon, Jr.

Surveyed by Raymond H. Tryon, Jr.

Soundings taken by fathometer, graphic recorder, ~~hand lead and box~~

Protracted by Joseph D. Curd

Soundings penciled by Joseph D. Curd

Soundings in ~~feet~~ feet at MLW ~~MLLW~~

REMARKS: This sheet was processed at the Norfolk Processing Office.

## DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SURVEY, FIELD NO. 1243

BIG FOOT SLOUGH AND NINE FOOT SHOAL CHANNELS

OCRACOCKE, N. C.

INSTRUCTIONS:

Work on this survey was accomplished under original Instructions dated November 2, 1942 and Supplemental Instructions dated November 12, 1942. ✓

SURVEY METHODS:

Standard methods of surveying were used. Three point fixes on previously located shore objects were used to control the position of the sounding launch. All sounding were obtained with the 808A fathometer. Bottom characteristics were obtained underway on frequent fixes by casts of the armed lead. ✓

Hydrographic signals "Nine", "Smoke", "Four", "Five" and "Hot" were located by sextant fixes at the objects and by sextant cuts from triangulation station "SWASH" and by sextant cuts from each other. Signal "Smoke" is the smokestack of the sunken dredge which originally was detailed to do the dredging through the bulkhead at the head of Big Foot Slough. The main deck of the dredge is awash, the machinery mostly covered by water. When last visited, the dredge showed signs of breaking in two. It is believed that the dredge will break up during the winter storms of this year. Signals "Four", "Five" and "Nine" are fixed aids to navigation. Signal "Hot" is a target on a duck blind. ✓

DISCREPANCIES:

Hydrographic signals "Nine" and "Four" were previously located on the topographic survey. Due to the trouble experience with a warping plane table board, the topographic location was erroneous (see Seasons report for discussion). The final locations adopted were those from sextant cuts as previously discussed. ✓

Cross lines were run in Pamlico Sound outside Big Foot Slough Channel and in Swash Channel and in Nine Foot Shoal Channel. Crossings were good, in no case were discrepancies of over a foot noted. It is believed that the smooth plotting will remove these discrepancies. ✓

DANGERS:

The only dangers in this area are the edges of the channels (see channels below). ✓

C.P. 86.14

CHANNELS:

(a) Big Foot Slough Channel ~~was~~<sup>runs</sup> from Cockle Shoal Light north-northwestward through a dredged channel in Latitude 35°09' to Pamlico Sound. The channel is bounded on the east by a sand ~~bulkhead~~<sup>bulkhead</sup> which is plainly visible to the navigation although covered by depths of from one to three feet of water. For the last mile before reaching the dredged channel, a similar ~~bulkhead~~<sup>bulkhead</sup> is found on the west side of the Slough. The channel through the bulkhead at the head of Big Foot Slough which was dredged in the fall of 1942, has filled to such an extent as to be valueless. Minimum depths of ~~six~~<sup>five</sup> feet are found halfway through the channel at which place it has narrowed to about 50 feet in width. From the dredged channel southward the depths ~~at~~<sup>increase</sup> gradually to 18 and 19 feet in Latitude 35°08'; then gradually shoal to 12 feet in Latitude 35°07.5'; then deepen again to 18 feet in Latitude 35°07.0'; and gradually shoal to 12 feet at Cockle Shoal Light. ✓

(b) Swash Channel connects Big Foot Slough in Latitude 35°07.5' with Nine Foot Shoal Channel in Latitude 35°07.5', Longitude 76°00.5'. A minimum depth of 6 feet is found. ✓

(c) Nine Foot Shoal Channel runs from its junction with Swash Channel in a northwesterly direction to Pamlico Sound. This is a natural channel which has depths of from 12 feet 100 meters south of Swash Light to 6 feet 200 meters east of Nine Foot Shoal Light. The channel is plainly marked by aids to navigation. ✓

(d) Silver Lake Channel is dredged and runs from Cockle Shoal Light to Silver Lake Entrance Light 1. Minimum depths of 14 to 15 feet are found. The entrance to Silver Lake and Silver Lake itself was not included in the area of this survey. A survey by the U. S. Engineer Department in October of 1942 covers these areas. B.P. 36641 ✓

ANCHORAGES:

There are no good anchorages in the area except in Silver Lake. The hard sand bottom and swift currents make poor holding ground throughout the area. In Silver Lake a maximum protection from the weather is found and dock space is usually available for tying up. ✓

COMPARISON WITH PREVIOUS SURVEYS:

The same general depths as previously charted prevail except as noted:

~~The 11 foot sounding charted in Latitude 35°06.9', Longitude 75°59.6' falls in 12 feet.~~ <sup>this could be 11 ft</sup> 83

The 22 foot sounding charted in Latitude 35°07.0', Longitude 75°59.8' falls in 18 feet. There are no deeper soundings in this vicinity on the present survey. ✓

The 3 foot soundings charted in Latitude 35°07.1', Longitude 76°00.2', and Latitude 35°07.4', Longitude 76°00.3' each fall in 5 feet.

The 15 foot sounding charted in Latitude 35°07.7', Longitude 76°00.2', falls in 13 feet.

The 23 foot sounding charted in Latitude 35°08.0', Longitude 76°00.2' falls in 19 feet.

The 10 foot sounding charted in Latitude 35°08.8', On shoulder. Longitude 76°00.4' falls in 15 feet.

The 15 foot sounding in Latitude 35°07.5', Longitude 76°00.5' falls in 12 feet.

The above discrepancies are believed to be caused by the natural shoaling of the spots involved. Adequate verification of soundings on the present survey was had to disprove the old soundings.

GEOGRAPHIC NAMES:

The geographic names Big Foot Slough, Swash, and Nine Foot Shoal Channels and the limits of each as described above under the heading "Channels" are the well established local names for the areas outlined. This nomenclature is not in strict accordance with the light list which shows buoys N22 and N24 as located in Swash Channel instead of Nine Foot Shoal Channel. It is recommended that the names be applied to the areas as outlined by the hydrographic party.

The geographic name Silver Lake Channel pertaining to that channel from Cockle Shoal Light to Silver Lake Entrance Light was the name applied only by the hydrographic party. No other designation could be found locally.

*Silver Lake Channel Light used in Intracoastal Light List L. H.*

STATISTICS:

Statute miles of sounding lines - - - -	108.0
Number of Positions - - - - -	793
Number of Soundings - - - - -	4112
Area, Sq. Stat. miles - - - - -	3.5

Respectfully submitted,

*Raymond H. Tryon Jr.*  
Raymond H. Tryon Jr.  
H. & G. Engineer

H6835

A D D E N D U M

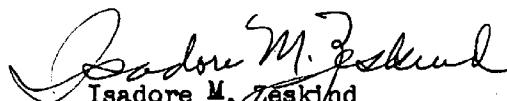
To Accompany

HYDROGRAPHIC SHEET H-6835

(Field No. 1243)

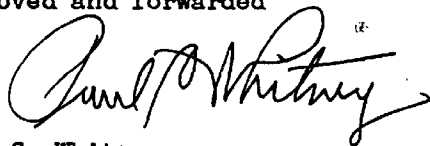
This sheet was processed at the Norfolk Processing Office.

Respectfully submitted,

  
Isadore M. Zeskind  
Associate Cartographic Engr.

Norfolk, Va.  
August 31, 1943

Approved and forwarded



Paul C. Whitney  
Supervisor, S.E. District

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. <sup>6835</sup>.....

Records accompanying survey:

Boat sheets <sup>1</sup>...; sounding vols. <sup>4</sup>...; wire drag vols. ....;  
 bomb vols. ....; graphic recorder rolls <sup>5</sup>...;  
 special reports, etc. ....  
 .....

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

Number of positions on sheet	.793.
Number of positions checked	.60.
Number of positions revised	.....
Number of soundings recorded	.442.
Number of soundings revised (refers to depth only)	.21...
Number of soundings erroneously spaced	.12...
Number of signals erroneously plotted or transferred	.....
Topographic details	Time ..8..
Junctions	Time .....
Verification of soundings from graphic record	Time ...4...

Verification by...*A.P. ST/PM*... Total time .40.. Date *Oct. 7, 1943*

Review by .....*J.A. McCormick*..... Time .8 hrs. Date *Oct. 12, 1943*

## Remarks

## Decisions

	Remarks	Decisions
1		U.S.G.B
2		351759
3		351760
4		
5		350760
6		351758
7		351759 U.S.G.B
8		351760
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		



GEOGRAPHIC NAMES

Survey No. H-6835

Name on Survey											
	A	B	C	D	E	F	G	H	K		
<u>North Carolina</u>											1
<u>Ocracoke</u>											2
<u>Big Foot Slough Channel</u>											3
<u>Nine Foot Shoal Channel</u>											4
<u>Ocracoke Inlet</u>											5
<u>Ocracoke I.</u>											6
<u>Silver Lake</u>											7
<u>Silver Lake Channel</u>											8
<u>Swash Channel</u>											9
											10
											11
											12
											13
											14
											15
											16
											17
											18
											19
											20
											21
											22
											23
											24
											25
											26
											27

Names underlined in red approved  
 by L. Heck on 10/14/43

H6835

1950

1950

1950

1950

1950

1950

1950

1950

1950

1950

1950

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
PHOTOSTAT OF

} No. H  
No. T

{ received  
registered  
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			
✓ 25	Pg 2	RF	
26			
30			
40			
62			
63			
82			
✓ 83	Pg 283	RF	
88			
90			

RETURN TO

82	
----	--

✓ Revol

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6835

Field No. 1243

North Carolina; Ocracoke Inlet; Vicinity of Ocracoke  
Surveyed January - July 1943; Scale 1:10,000  
Instructions dated November 2, 1942 (Project CS 299)

Soundings:

808 Recorder

Control:

Three-point fix on shore signals

Chief of Party - R. H. Tryon, Jr.  
Surveyed by - R. H. Tryon, Jr.  
Protracted by - J. D. Curd  
Soundings plotted by - J. D. Curd  
Verified and inked by - A. R. Stirni  
Reviewed by - J. A. McCormick  
Inspected by - H. R. Edmonston, October 12, 1943

1. Shoreline and Signals

Shoreline and topographic signals are from T-6924 (1942-43). Fixes used in the location of hydrographic signals are recorded in the sounding volumes.

2. Sounding Line Crossings

Satisfactory.

3. Depth Curves

Satisfactory.

4. Adjoining Surveys

A satisfactory junction was effected with H-6834 (1943) on the south.

5. Previous Surveys

H- 321 (1852),	1:10,000;	H- 613 (1857),	1:20,000;
H- 661 (1857-58),	1:20,000;	H-1364 (1877),	1:20,000;
H-1871 (1887-88),	1:20,000;	H-2798 (1905),	1:20,000;
H-3902 (1916),	1:20,000;	H-4734 (1927),	1:10,000;
H-4778 (1927),	1:20,000;		

Shoreline changes not being so pronounced in this area, channels are in much the same locations as they were in 1852. Depths vary from survey to survey, those of 1852 being a little shoaler than those of today and those of 1927 being a little deeper in Lat. 35°08.4', Long. 76°02.1'. As stated in the Descriptive Report, the 10-ft. dredged channel in Lat. 35°09.0', Long. 76°00.5' has shoaled to a controlling depth of 4 to 5 feet, about the same as was shown on the earliest surveys.

6. Comparison with Chart 1231 (Print of May 20, 1943)  
Chart 1232 (Print of July 13, 1943)

Most of the depths charted in this area are from the 1927 surveys discussed in the preceding paragraph. Channel limits and depths in Silver Lake are from U. S. Engineers' B.P. 36641 of 1942. The survey determined positions for all aids in the area except Buoy S-10 (Lat. 35°06.3', Long. 75°59.4') which may not have been on station. Charted positions agree fairly well with those on the survey but there are small differences which should be eliminated.

7. Compliance with Project Instructions

Satisfactory.


8. Additional Field Work Recommended

None.

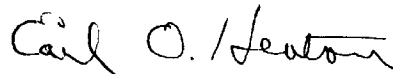
9. Superseded Surveys

H- 321	in part	H-2798	in part
H- 613	" "	H-3902	" "
H- 661	" "	H-4734	" "
H-1364	" "	H-4778	" "
H-1871	" "		

Examined and approved:

  
Chief, Surveys Branch

  
Chief, Division of Charts

  
Chief, Section of Hydrography

  
Chief, Division of  
Coastal Surveys



Applied to Chart. 1231 - Oct. 1943 - D. P. G.  
Applied to chart 418 October 26, 1943. L. A. M.  
" " " 1232 Apr 1944 N. P. G.