

6838

Form 504  
Rev. April 1935  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Topographic

~~Hydrographic~~

Sheet No. A

State North Carolina

LOCALITY

Albemarle Sound

U. S. Marine Corps Air Station

1942

CHIEF OF PARTY

Joseph E. Waugh

U. S. GOVERNMENT PRINTING OFFICE

6838

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

REGISTER NO.

**T6838**

State North Carolina

General Locality Albemarle Sound

Locality ~~U. S. Marine Corps Air Station~~ Marine Glider Base

Scale 1:5000 Date of survey September, 19 42

Vessel Launch ELSIE III

Chief of party Joseph E. Waugh

Surveyed by Joseph E. Waugh

Inked by detail by Joseph E. Waugh

Heights in feet above MWL to ground ~~XXXXXXXXXXXX~~

Contour, Approximate contour, Form line interval \_\_\_\_\_ feet

Instructions dated July 27, 19 42

Remarks: The inking of this sheet was completed at the Norfolk Processing Office.



T6838

DESCRIPTIVE REPORT

TO ACCOMPANY

TOPOGRAPHIC SHEET NO. A (field letter)

U. S. MARINE CORPS AIR STATION ALBEMARLE SOUND

PROJECT CS 292

LAUNCH ELSIE III

INSTRUCTIONS:

The topography on this sheet was executed in accordance with the Director's Instructions for Project CS 292, dated July 27, 1942, amended by telegram on August 6, 1942.

LIMITS AND SCALE:

This survey was made on a scale of 1:5000. The sheet covers the north side of Albemarle Sound between the highway bridge in Latitude  $36^{\circ} 00.50$ , Longitude  $76^{\circ} 34.90$  and triangulation station CENTER.

SURVEY METHODS AND CONTROL:

There are three triangulation stations on this sheet. The line CACTUS, 2 - WEST GABLE, FISH HOUSE is the only line that is clear. Orientation for the planetable at CACTUS 2 and CENTER was obtained by computing and plotting on the sheet points that are on range with triangulation stations across the sound.

All the topography on the sheet was rodged in from a traverse run from CENTER to CACTUS 2. This traverse was 2845 meters long. This traverse was checked at WEST GABLE, FISH HOUSE. A total error of five meters was in this traverse. The traverse was rerun from CACTUS, 2 and most of the error was found in one setup. The topography from this point to the end was reroadded and all detail corrected. The final total error was 2.5 meters,  $1\frac{1}{2}$  meters from CENTER to WEST GABLE, FISH HOUSE and 1 meter from WEST GABLE, FISH HOUSE to CACTUS 2. (The error was found in a setup on the second section of the traverse). A field adjustment of the final closing error was made on the sheet.



The topography to the east of the bridge and the highway north of the bridge was rodged in from a setup 40 meters from triangulation station CACTUS 2.

Standard topographic methods were used except as noted above. The shore line and all off lying features were rodged in except the two outer stakes on the fish trap line. They were cut in. This is not the extreme off shore end, please refer to hydrographic sheet no. 1 (field number) of this limit. The highway bridge was drawn in with reference to signals At and Zany. These signals were cut in from CACTUS 2 and CENTER. The width of the bridge was measured and the center line at its north abutment located from CACTUS 2. The bridge was then drawn in.

The approximate eastern limit of the U. S. Marine Corps Air Station is shown. At the time of the survey the exact limit had not been determined and for that reason could not be located. The character of the topography to the west of this line will be changed as work on the Station progresses.

#### GENERAL CHARACTER OF AREA:

There is a small vertical clay bluff varying in height up to 17 feet which runs back of the shore line as indicated on the sheet. In several places as shown the mean water level line runs to the bluff. Back of the bluff are cultivated fields. There is a fringe of trees and brush along the bluff in places as shown. The cypress swamp on the east end is not wet except during the rainy season or on extreme high tides. A narrow sand beach is between it and the sound. The north side of this swamp was not located and the detail on the sheet is not intended to show this limit. There are numerous trees, stumps, stakes, logs, etc. along the shore as indicated. Only those showing above water level have been shown on the topographic sheet. All submerged obstructions found were located by hydrographic methods. The symbol for narrow-leaved trees shown in the water area invariably indicates growing cypress trees.

#### COMPARISON WITH PREVIOUS SURVEYS:

A detail comparison with topographic sheet no. T 3527 (1915) could not be made in the field due to the differences in scale. The detail shown at signal House (T 3527) no longer exist as shown on the old survey.



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DESCREPANCIES:

No discrepancies were noted in the field. ✓

JUNCTIONS:

*T-6839 a (1942)*

This sheet joins sheet no. B (field letter) at signal Jake on the west end. A satisfactory junction was obtained. No junction with a modern survey was made on the east end. ✓

MAGNETICS:

Magnetic observations were obtained with the declinatoire furnished with alidade no. 244 at triangulation stations CENTER and CACTUS 2. The error of the declinatoire is not known and no favorable opportunity presented itself for the determination of this error. ✓

Station	Time	Date	Observed Value	Charted Value
CENTER	1445 (EWT)	9/2/42	5° <sup>40'</sup> 58' W	5° 45' W ✓
CACTUS 2	845 (EWT)	9/4/42	5° <sup>24'</sup> 37' W	5° 45' W ✓

LANDMARKS AND AIDS TO NAVIGATION:

There are no landmarks to charts or aids to navigation on this sheet. ✓

SIGNALS OUTSIDE WATER LINE:

Name	Character
At	piling of bridge ✓
Jake	dead pine tree
Lux	cypress tree
Man	fence post
Put	cypress tree
Que	cypress tree
Raw	fence post
Sap	pile
Ute	cypress tree
Vat	on edge of wooden bulkhead
Xray	cypress tree
Yes	piling of bridge
Zany	piling of bridge



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STATISTICS:

Length of shore line	2.0 statute miles
Length of roads	0.8 statute mile
Area	0.2 square statute mile

Respectfully submitted,

*Joseph E. Waugh*  
Joseph E. Waugh  
Lieutenant, C&GS

Oct. 16, 1942  
Norfolk Processing Office

Approved and Forwarded.

*Paul C. Whitney*  
Paul C. Whitney  
Supervisor, Southeastern District



8. 10. 14.

Remarks

Decisions

1	For title	
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# GEOGRAPHIC NAMES

Survey No.

**T6838**

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>Albemarle Sound</u>									1
<u>Sandy Point</u>									2
U. S. Marine Corps Air S									3
Station									4
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# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
~~PHOTOGRAPH~~

~~NOX~~

No. T

**T6838**

received Oct. 17, 1942  
registered Oct. 24, 1942  
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
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RETURN TO

82	R. W. Knox
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*RW*



DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF TOPOGRAPHIC SURVEY

REGISTRY NO. 6838

Field No. A

North Carolina; Albemarle Sound;  
U. S. Marine Corps Air Station  
Surveyed September 1941; Scale 1:5,000  
Instructions dated July 27, 1942

Plane Table Survey

Aluminum Mounted

Chief of Party - J. E. Waugh  
Surveyed by - J. E. Waugh  
Inked by - J. E. Waugh and Norfolk Processing Office  
Reviewed by - R. H. Carstens  
Inspected by - H. R. Edmonston, December 7, 1942

1. Adjoining Surveys

T-6838 joins T-6839 (1942) on the west. There are no contemporary surveys on the east.

2. Comparison with Prior Surveys

T- 211 (1848) 1:20,000  
T- 247 (1848) 1:20,000  
T-3527 (1915) 1:40,000

Agreement with the shoreline of these earlier surveys is fairly good. Differences in short sections of shoreline of as much as 50 meters are probably caused by interpretation and sketching on the small-scale surveys. The present survey contains much more detail and is adequate to supersede the earlier surveys in the common area.

3. Comparison with Chart 1228 (latest print date 8-18-42)

The charted topography originates with the previously discussed surveys together with blueprints 30447 and 30448 showing the location of the highway bridge. The survey position is in agreement with the charted position of this feature.

4. Condition of Survey

Satisfactory.

5. Compliance with Instructions for the Project

Satisfactory.


6. Superseded Surveys

T- 211 (1848) in part

T- 247 (1848) " "

T-3527 (1915) " "

Examined and approved:



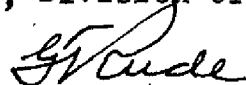
Chief, Surveys Section



Chief, Division of Charts



Chief, Section of Hydrography



Chief, Division of Coastal  
Surveys