

Form 50

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Air Photographic

Sheet <del>-Fiel</del>d No. I-8

------Office No...

LOCALITY

State South Carolina

General locality Georgetown County

Locality Waverly Mills Quadrangle

194 2...

CHIEF OF PARTY

Wm. D. Patterson

LIBRARY & ARCHIVES

DATE October 1,1943

ON Diag. Ch. 12371

B-1870-1 (I)

07-27

# DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

### 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. 275-1 Waverly Mills Quadrangle

### REGISTER NO.

State _ South Carolina
General Locality Georgetown County
Locality Waverly Mills Quadrangle
Scale 1:20,000 Date of survey Fab.10 to Mar. 24, 19 42
Wessel Defense Mapping Field Party No. 2
Chief of party Wm. D. Patterson
Surveyed by Joe N. Henningsen, Sr. Photogrametric Aid.
Inked by Joe N. Henningsen, Sr. Photogrametric Aid.
Heights in feet above M. S. L. to ground to work to see the second to th
Contour, Approximate xoom toox x xx xx xx xx xx xx xx xx 20. feet
Instructions dated January 23 , 1942
Remarks: Contouring, revision and completion surveys
of air-photographic compilations.

### DESCRIPTIVE REPORT TO ACCOMPANY WAVERLY MILLS QUADRANGLE

DEFENSE MAPPING PROJECT CS 275-1 Wm. D. Patterson, Chief of Party

Instructions for this project were dated January 23, 1942

### SURVEY METHODS:

Plane table and stadia traverse were used to locate all detail added to the sheet. A line of magnetic declination was placed on the sheet by orienting the sheet on a long, straight stretch of road and the declinatione was used to orient the sheet on traverse and set-ups for location of detail. Traverses were run by setting the table up on alternate points on the line. Whenever possible the table was oriented on long straight stretches of road previously located. All traverses were closed with a horizontal error of less than 10 meters, and where well defined detail had been located the traverses were adjusted by the graphic method. Elevations were carried in the regular differential level system except in few cases when contouring vertical angles and the step up system were used.

### CONTROL:

Plane table positions were located from identifiable planimetric detail appearing on the sheet and a check obtained where the identification was doubtful. Control was not taken from detail which was obscured by foliage and might be inaccurately shown. No detail added to the sheet was located from positions of a less degree of accuracy than the classification of the points located.

Vertical control was taken from third order level circuits run over roads on this quadrangle.

### REVISION WORK:

All road revisions on this quadrangle are shown. In most cases the actual road course had been changed, the original road being apparent and overgrown with brush or located in a more logical place. One main change of this kind is where the road that runs to Pawleys Island has been changed. This road has been straightened out and the proper revision is made on the sheet. Numerous other changes and deletions have been made in trails and roads over the entire sheet.

Houses on the sheet were checked for location by inspection and also by actual survey where suspected of being misplaced. Those deleted are shown with a small red cross over them. Any detail on this sheet crossed out in red is to be deleted. All roads on the south side of a fence and property line marked "Vanderbilt Line" are private roads, but have not been separately designated as such on the sheet. All roads have been classified according to the instructions. Power lines have

been shown, and additional intermittent drainage shown where encountered. All roads shown as Class 5 are roads over which a standard gauge vehicle may pass but are unimproved trails. All Class 5 roads on the east side of the Waccamaw River are bad in wet weather, due to the lack of sufficient drainage and the light, sandy soil, which will not stand up in wet weather.

### ACCURACY OF WORK:

With the exception of the discrepancies mentioned above, which were rectified, the detail shown on the blue line print appears to be within the limits of accuracy listed in the instructions. All detail added to the sheet is believed to be within the allowable limits of error and no further work on this quadrangle is recommended.

### JUNCTIONS:

Satisfactory junctions were made with AII applying quadrangles, 2, 4, and 17. Quadrangle 12 has not been completed.

### SHORELINE:

A field examination of the shoreline on this sheet necessitated a change in the vicinity of Pawleys Inlet. This change was made by plane table and stadia traverse and is shown according to the instructions on the completed quadrangle.

### LANDMARKS:

There are no additional landmarks on this quadrangle.

### GEOGRAPHIC NAMES:

A list of geographic names in this area is covered in a special report. The main highway numbers are shown on the sheet.

### MARSH AREAS:

All marsh area shown on the blue line print is wet tidal marsh.

The wet weather swamp areas are shown enclosed by the blue dashed
line. The limits of these areas were found to be very indefinite but
it is believed that those shown will be most nearly correct. They are
called "wet weather swamps" because they dry out during the summer but
have all of the appearance of a swamp during wet weather. This is especially true on the east side of Waccamaw River where the soil was
such that a definite wet weather swamp area could not be identified
in most cases. Therefore, a statement that all area east of the Waccamaw
River is very wet and partly under water in wet weather would most clearly describe it.

### PHOTOGRAPHS:

Photographs of this area were used wherever possible to locate additional drainage and culture if possible. They were also used to locate limits of wet weather swamps where clearly defined.

### BOUNDARIES:

The only boundary of any consequence shown on this sheet is the Vanderbilt property line which is clearly defined and fenced on the east side of Highway No. 17. It is a well defined landmark and is, therefore, shown.

### BRIDGES:

All bridges are shown where they are considered more than a culvert. The ones shown are light bridges and the capacity is not thought to be over seven tons for any of them.

### BEACONS AND LIGHTS:

All beacons and lights were corrected and deletions or discrepancies noted. Additional ones were added.

This report submitted by

Joe N. Henningsen

Topographer, U.S.C. and G.S.

Approved and forwarded:

Wm. D. Patterson

Lieut. Comdr., U.S.C. and G.S.

Defense Mapping Field Party No. 1

### ADDITIONAL NOTES OF CHIEF OF PARTY

### WAVERLY MILLS QUADRANGLE PROJECT CS-275-1

### SURVEY METHODS:

Station recovery parties, operating by truck and leased launch, first recovered all marked stations in the quadrangle. Beacons and lights were located by sextant fixes, plotted on compilation sheets with scale 1:10,000, scaled for "Landmarks for Charts," and were then replotted by Dm. and Dp. on the 1:20,000 topographic sheet. These special recovery parties submitted Recovery Notes and descriptions of Stations for all marked stations in the area.

Level parties operating at the same time, ran closed loops of levels along all roads where desirable, and even cross-country between roads where the topography of the country indicated that additional levels were necessary. Leveling by wye level is much faster than by planetable and saved considerable planetable work. The leveling party left temporary bench marks at all road intersections, and at various intervals along the lines of levels, for use by the topographic party.

Topographic parties were then able to complete the contouring and planimetric revision with a minimum of delay.

Geographic Names were investigated by a separate party and a separate report will be submitted on this subject.

### CONTOURS - VERTICAL ACCURACY

Although the instructions for the project provide that 90% of the contours shall be within an accuracy of one-half contour interval (10 feet), it is believed that 90% of the contours are within an accuracy of 1 foot. The terrain is comparatively flat so that an error of one foot would move a contour for a considerable distance, yet all contours adjoining other quadrangles agreed within a few meters in horizontal position.

Due to the extensive network of levels which had been previously furnished the topographer, no tests for vertical accuracy were made other than the checks furnished by the tie-in with contours on adjoining sheets. For example, the ll-foot elevation shown on the sheet in Lat. 33° 28.6°, Long. 79° 08° had been erroneously transferred from tha level book as 13 feet. The topographer began a traverse from this temporary EM. and the resulting contour 1/2 mile to eastward was therefore 2 feet in error. This was immediately evident when comparison was made with the adjoining sheet and an extensive

investigation was made before the source of the discrepancy was discovered. This was the only instance on the entire project where contours failed to check with those on adjacent sheets.

### PLANIMETRIC DETAIL

Extensive changes had taken place since August 1934 when the area was photographed and a large amount of revision work was necessary. We have since learned that the area was photographed by the nine-lens camera since the date of this survey. Had we known that this was to have been done, we could have completed the contouring alone in less than one-half of the time actually consumed.

Wm. D. Patterson,

Lieut. Comdr., U.S.C. & G. S.

Chief of Party.







# LANDMARKS FOR CHARTS

STRIKE OUT ONE TO BE CHARTED

April 2.

Georgetown, S. C.

I recommend that the following objects which have (have not been inspected from seaward to determine their value as landmarks, be charted on (deleted from) the charts indicated.

The positions given have been checked after listing.

WILL D. PATTERSON

		Ï							İ		hie	Chief of Party.
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This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

CHECKED BY: C. SUPP

SCALED BY: L. G. CHAMBERS

Rev. Mai 1935

DEPARTN NT OF DIMMERCE U. S. COAST. AD GEODETIC SURVEY

Page 2 of 2

# LANDMARKS FOR CHARTS

TO BE CHARTED STRIKE OUT ONE TO BE DELETED +

Georgetown, S. C.

193 42

April 2

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks, be charted on (deleted from) the charts indicated.

The positions given have been checked after listing.

M. D. PATTERSON Chief of Party. CHARTS 836 836 836 826 836 836 836 ог танове сная тяно весния **ТЯАНЭ ЯОВЯАН** 5/31/42 5/20/42 5/21/42 5/20/42 5/20/42 5/21/42 5/21/42 DATE va 1927 Sextent METHOD OF LOCATION . . -聯 = -DATUM . -= \* . . D. P. METERS 620 1180 620 8 200 1007 67.1 LONGITUDE 154 141 141 79 121 79 15\* 79 121 79 121 POSITION . . 66 29 29 D. M. METERS 717 880 582 254 66 156 681 LATITUDE 240 253 255 25\* 241 223 25\* 222 0 200 Lt. 146 on plane table survey. REE NAME AND DESCRIPTION \* Winyah Bay - WINYAH BAY Buy - WINTAH BAY - Winyah Bay \* Winyeh Bey - Winyeh Bay WACCAMAN RIVER - Winyah River Little River Little River Little River LITTLE RIVER Little River LITIE HIVE Boscon 145 Beacon 142 Beacon 144 Bascon 147 Pancon 140 141 LIGHT 148 GENERAL Little LIGHT

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given. CHECKED BY: C. SUPP U. S. GOVERNMENT PRINTING OFFICE

SCALED BY; L. G. CHAMBIERS

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Waveley Mills Gradians

### Remarks

### Decisions

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1		922702	песъ
		333792	U.S.G.B.
2	Application of Pee Dee or Great Pee Dee River, as well as modified application of Black River, marked	<b>87</b>	U.S.G.B.
3	on name sheet No. 1, will have to await action by	334792	
	U.S.G.B. In its decision for Pee Dee River, the	- <del></del>	-
4	form CREAT PEE DEE River was one of those rejected by Board. Therefore leave Waccamaw River, Pee Dee	333792	· · · · · · · · · · · · · · · · · · ·
5	River, and Black River as on old T-5256.	222701	·
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4	Little Carr Creek										2
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# Revised T-5256, No. 2

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8	Note extended application of this name on name sheet No. 1, at east end near Waccamaw River	11	
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4	Darlington (Plantation)	\ \ \ -					<u> </u>	ļ	ļ	ļ	3
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### DIVISION OF CHARTS :

### SURVEYS BRANCH

Review of Air Photographic Survey T-8220 (Waverly Mills Quadrangle) February 1942

This quadrangle was surveyed, drafted, and published for the War Department as a part of the War Mapping Program. The field and office work were accomplished as follows:

### FIELD WORK

Air photographic surveys were made and planimetric maps published of this area by the Coast and Geodetic Survey in 1935. These planimetric maps were assembled into quadrangle form and copies printed. All surveying was then accomplished on the printed planimetric base. The field survey included contouring and corrections and additions to planimetric details.

### WASHINGTON OFFICE

Review: Subsequent to the field work the entire areas of projects 275, 284, and 285 were photographed with the nine-lens camera and this quadrangle was included. These photographs were not furnished to the field party, but were used in the office to check the completeness of the field surveys.

Blue lines for color separation drawings were printed from the same negatives from which the planimetric base for the field survey was made. All corrections and additions, including contouring, shown on the planetable sheet were then transferred to the color separation drawings by means of the projector.

The check list containing a record of all work in the Washington Office is filed in the Photogrammetric Section. The original planetable sheet, together with a cloth back copy of the published quadrangle, will be registered in the vault.

### Contemporary Hydrographic Surveys

None

### Comparison with Previous Surveys

Refer to the comparisons made in the reviews of the 1935 air photographic surveys.

### Nautical Charts

T-8220 had not been applied to the nautical charts at the date of this review. T-8220 shows changes in shoreline at Pawley Inlet and numerous additions and corrections to interior details. Aids to navigation shown in the Waccamaw River were located between February and April, 1942.

The field surveys were complete except for the junction of details with T-5216 and T-5221 in the northwest corner of the quadrangle and with the exception of the classification of wooded areas.

The green overprint has been outlined from the new photographs in this office. The contour and details shown in green on the planetable sheet at the northwest corner of the quadrangle were added in this office to complete the junction with adjoining quadrangles.

These details have not been shown on the published quadrangle. They will be added to the negative so as to appear when the quadrangle is reprinted.

Reviewed by F. H. McBeth

Inspected by B. G. Jones My

Chief, Surveys Branch

Chief, Division of Charts

Chief, Section of Topography

Chief, Division of Coastal Surveys