

8219

Form 504  
Rev. June 1941  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

*Air Photographic*  
*Plane Table*  
*Hydrographic*

*Survey No.* CS-275-17  
*(Field)* Magnolia Beach  
Quadrangle.

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

MAY 18 1942

Acc. No. \_\_\_\_\_

### LOCALITY

*State* South Carolina

*General locality* Georgetown County

*Locality* Magnolia Beach Quadrangle

194.2

CHIEF OF PARTY

Wm. D. Patterson

9128

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

T8219

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. CS-275-17

Magnolia Beach quadrangle

REGISTER NO.

T8219

State South Carolina

General Locality Georgetown County

Locality Magnolia Beach quadrangle

Scale 1:20,000 Date of survey Mar. 16 to April 23 19 42

Vessel Defense Mapping Field Party No. 1

Chief of party Wm. D. Patterson,

Surveyed by A. W. P. Rogers, Photogrammetric Aid,

Inked by A. W. P. Rogers, Photogrammetric Aid,

Heights in feet above MSL to ground ~~to tops of trees~~

Contour, ~~Approximate contour, Form line~~ interval 20 feet

Instructions dated January 23, 1942

Remarks: None

## General Procedure in the Production of Topographic Quadrangles for the War Department

This quadrangle, together with similar adjoining maps produced under Project C.S. 275, was prepared by the Coast and Geodetic Survey for the War Department under "General Specifications for War Department Mapping Program" issued about December 1941, in which is incorporated the "Standard of Accuracy for a National Map Production Program" issued by the Bureau of the Budget under date of June 10, 1941.

The general procedure in the production of this and the adjoining quadrangles was:

### PREPARATION OF BASE MAPS

Assembly into quadrangle base sheets by photographic means of previously produced planimetric maps of the area. These maps were compiled by this Bureau from aerial photographs taken in 1934 and were published in 1935 on the scale of 1:10,000. Lithographic prints of the base sheets on cloth-mounted paper were furnished to the field parties.

### FIELD SURVEYS

No new photography was used in the preparation of this map.

Contouring and revision of the planimetric base map were by planetable methods. The completed field sheets were transmitted directly to the Washington Office as no photogrammetric work was involved in the completing of the base map.

Accuracy Tests - Application of systematic horizontal and vertical accuracy tests to check the maps for conformity with the specifications. These tests consisted of comparison of the map position and elevation of selected random points with the true position and elevation as independently determined by standard survey methods.

## PROCESSING IN THE WASHINGTON OFFICE

Review - Examination of the manuscript for accuracy and completeness of compilation and compliance with specifications, correcting where necessary; addition of military and state grids and other special features; and verification of the general adequacy of the manuscript as a basis for the production of a finished map.

Drafting and Reproduction - Preparation of smooth color separation drawings on 1:20,000 scale on metal-mounted "blue-line" copies of the base map. Contours, additions, and corrections were transferred directly from the field sheets to the appropriate color separation drawing by projector and inked. From these drawings, negatives and printing plates were prepared for reproduction of the finished map on the scale of 1:31,680



DESCRIPTIVE REPORT TO ACCOMPANY MAGNOLIA BEACH  
QUADRANGLE

DEFENSE MAPPING PROJECT CS-275-17  
Wm. D. Patterson, Chief of Party.

Instructions for this project were dated January 23, 1942.

DESCRIPTION OF COAST LINE

The only discrepancy found in the shoreline was a shifting of Midway Inlet from Lat.  $33^{\circ} 27'$ , Long.  $79^{\circ} 7\frac{1}{2}'$ , southwest as shown on the sheet. 83

The planetable traverse for this correction was started near triangulation station "DAN 1924", shown on sheet and the M.H.W. line was rodged in beginning at a point SE of a large dance pavilion, continuing down the shore to the southern point of sandbar, thence back inland as shown on the sheet.

The NE shore line across the Inlet was traversed showing change of the M.H.W. line of north end of Pawleys Island, showing the limits of change.

LANDMARKS FOR CHARTS:

A water tower on Pawleys Island is located in the NW corner of a bend in the road to the SE as shown on the sheet. It is approximately 125 feet high.

A large dance pavilion is shown at the east end of a trail leading to it from two walkways and could be seen for miles to seaward. The ridge pole is normal to the shore line. Dimensions approximately 40 feet wide by 60 feet long. These landmarks are submitted on form No. 567.

RECOVERABLE HYDROGRAPHIC AND TOPOGRAPHIC STATIONS:

No new H & T stations were located on this quadrangle.

PHOTOGRAPHS

Five lens photographs, 235-244 inclusive, August 4, 1934, 8:45 A.M., and 581-596 inclusive, August 17, 1934, 9:15 A.M. were used on this survey.

CHARACTER OF CONTROL USED:

Well defined planimetric detail such as right angle road intersections, where not covered by foliage, was used for starting and closing traverses, to locate roads, houses, bridges and other detail.

\* The small land area on this quadrangle is divided by a ridge running N by E as indicated by the contour. This higher area drains S. E. and N W - normal to the ridge and streams are very minor except in the marsh areas. Theographic examination indicates that the streams are not of sufficient importance to warrant additional field work. Bgg.

Less well defined detail, as bends in roads, intersections of trails, etc. was used for control in running the 20-foot contour.

No traverse run was out more than 10 meters where well defined control was used.

Where there was less defined control the traverse was adjusted by the graphic method to conform with the planimetric detail whenever there occurred a discrepancy.

#### GEOGRAPHIC NAMES:

Geographic names were investigated by a separate party and are submitted as a separate report.

The names of schools and churches have been shown as they are commonly known in the locality.

#### JUNCTIONS:

Junctions were made in good agreement with Quadrangle No. 1 on the west and Quadrangle No. 11 on the north with no detail out more than 5 meters.

#### MARSHES:

With the exception of the NE corner of this Quadrangle an inland marsh covered at high water, extends the full length of this quadrangle as shown on the sheet

#### BOUNDARIES:

There is no county boundary in this quadrangle. The only boundary existing is that of "The Brookgreen Gardens", located in the quadrangle to the north which extends down into the NE corner of this quadrangle. ~~This is apparently private or corporate property and the boundary will not be shown on the map.~~

#### GENERAL DESCRIPTION:

The well defined contours of this Quadrangle were made because of careful adherence to vertical and horizontal control. Cross lines were run wherever possible to locate the 20 foot contour.

The photographs for this area were helpful in locating the perimeter edges of cypress swamp areas, thus reducing the cost of traversing.

The wooded area has been labeled as to type and density.

The detail of drainage was omitted because of limited time to complete the sheet before the office moved to Salisbury, Maryland. Roads not previously shown have been shown by the centerline and with the

T8219

dash - - - - symbol. All roads have been classified according to the Army War College Instructions of January 12, 1942.

The only bridge in the quadrangle, connecting Pawley's Island with U.S. Highway No. 17 is shown by the appropriate bridge symbol. The approximate load limit is 10 tons.

Two transmission lines are shown on the quadrangle. One crosses the NW corner of the sheet and the other supplies Pawley's Island.

There is a telephone line 9 meters west of the of U.S. Highway No. 17 traversing the full extent of the sheet.

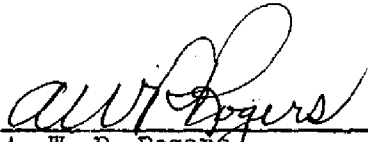
Several cultural changes have been made, such as the addition of houses, roads, a fire lane on a south portion of the Brookgreen Estate, etc. Deletions of woods, trails, trees in fire lane are shown in red ink.

The delinatoire was used in all traverses, saving a great deal of time. Where there was reason to suspect local magnetic interference, as along the power line in the N.W. corner of the sheet, orientation was obtained by using the two-point method.


REMARKS

All details are believed to conform with the degree of accuracy required.

Respectfully submitted,

  
A. W. P. Rogers,  
Photogrammetric Aid,  
U.S. Coast & Geodetic Survey

Approved and forwarded:

  
Wm. D. Patterson,  
Lieut. Comdr. U. S. C. & G. S.  
Defense Mapping Field Party No. 1



## Remarks

## Decisions

1		334791
2		334790
3		334791
4		"
5		"
6		"
7		"
8		334791
9		"
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## GEOGRAPHIC NAMES

Survey No. **T8219**

GEOGRAPHIC NAMES											
Survey No. T8219											
Name on Survey											
	A.	B.	C.	D.	E.	F.	G.	H.	K.		
✓ Midway Inlet											1
✓ Magnolia Beach											2
✓ Pawleys Island											3
✓ Pawleys Island											4
✓ Pawleys Island Creek											5
✓ Club House Creek											6
✓ Annieville											7
✓ Georgieville											8
✓ Flagg Pond											9
✓ Long Bay											10
✓ Atlantic Ocean											11
											12
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Names indicated in red approved

C. L. HECK 01/10/42

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
~~PHOTOSTATIC OF~~

~~NO. 11~~

No. T **T8219**

received **June 1, 1942**  
registered **June 4, 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
20			
22			
24			
25			
26			
30			
40			
62			
63			
82			
✓ 83	Pg 1	#24	Mr. Storm - Mr. Conley.
88			
90			

RETURN TO

82	R. W. Knox
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*RWK*

## RECORDS

Between January, 1942 and July, 1944, this Bureau completed 323 quadrangles. These maps have been published, or are in the process of being published on scales of 1:31,680 or 1:25,000. This series of quadrangles includes a land area of approximately 15,000 square miles. Incident to this work, a considerable volume of survey records and data has accumulated which will be filed for future reference. This material is filed as follows:

### Registered and Filed in the Vault

Cloth-mounted copy of the published quadrangle.  
published quadrangle at 1:20,000 scale  
Black and white cloth-mounted copy of the map manuscript. This copy is filed to preserve original survey detail shown on the manuscript at 1:20,000 scale which may not have been shown on the published sheet. For political boundaries, woodland, ~~marsh, and swamp limits,~~ refer to the published quadrangle for the finally adopted ~~positions.~~ outlines.

Descriptive Report.

Division

Filed in the Photogrammetric Section---Surveys-Branch

Field inspection photographs.

Contoured photographs (on which planetable contouring work was performed.)

Field edit sheet.

Descriptions of recoverable topographic stations (Form 524), filed in Reviewing-Unit- Section.

Supplementary traverse and level records.

Field notes, computations, lists of positions, and tabulations of results of horizontal and vertical accuracy tests.

Reproduction proof.

Correction sheet (copy of quadrangle showing in red changes to be made when next printed.)

Check lists of work performed on each sheet in the Washington Office during review, drafting, edit, and reproduction.

Blue line planimetric base sheet.



Copies of specifications and all instructions to field parties and field offices.

Filed in Reproduction Branch

Glass negatives of the color separation drawings.

Filed in the Library

~~Special report on field work by Commander K. T. Adams, 1944.~~

Special report on office work by B. G. Jones, 1944.

Season's report on field work by Commander F. L. Gallen, 1944.

Season's report on field work by Commander R. L. Schoppe, 1944.

Delivered to the Army Map Service in accordance with the contract

Film negatives and film positives of the color separation drawings.

All color separation drawings.

~~Original celluloid manuscript.~~

A correction sheet consisting of a copy of the first edition of the quadrangle with notes in red indicating changes desirable at the next printing.

## DIVISION OF CHARTS

### SURVEYS BRANCH

#### REVIEW OF AIR PHOTOGRAPHIC SURVEY T- 8219

#### MAGNOLIA BEACH QUADRANGLE

This quadrangle manuscript has been examined for completeness, accuracy, and conformity with the specifications. It is adequate for smooth drafting, reproduction and publication. Revisions found to be necessary in this office are discussed on the next page.

#### Horizontal and Vertical Accuracy

The nearest horizontal accuracy tests are on quadrangles T-8212 and 8213.

The nearest vertical accuracy test is on quadrangle T-8218.

#### Previous Surveys

This manuscript has been compared with the following previous topographic surveys of this Bureau and other agencies. This map is satisfactory to supersede the previous surveys over the common area.

T-1280a}	1872	1:20,000
T-1280b}		
T-4198	1926	1:20,000

#### Comparison with Nautical Charts Nos.

The manuscript has not been applied to the charts at the date of this review. The following comments are pertinent to the compilation and correction of nautical charts:

The details of T-8219 are complete and adequate for chart correction.

The following revisions of the map manuscript were found to be necessary and were accomplished as a part of this review:

The 1935 air photographic surveys were reduced and compiled into a  $7\frac{1}{2}$  minute quadrangle and blue line prints forwarded to the field for planetable contouring, and correction and addition of planimetric details changed since the 1935 surveys were made. Therefore very few changes were made in the office. However new nine-lens photographs were taken of this area in April, 1942, after completion of the contouring and field edit. The shore in the vicinity of Midway Inlet has been red-drawn on the field sheet and has been accepted. The only other additions are 10 small piers on the stream from the south at the new position for Midway Inlet. All corrections and additions compiled in this office are shown on the field sheet in green ink.

Reviewed Sept. 10, 1942 By J. H. McBeth  
under direction of D. H. Benson (per W. M.)

Inspected by B. G. Jones 12/2/45

Examined and approved:

K. T. Adams  
Chief, ~~Surveys Branch~~  
Division of Photogrammetry

~~Chief, Topography Section~~

Robert W. King  
Chief, ~~Div. of Charts~~  
Nautical Chart Branch

Raymond E. Egan  
Chief, Div. of Coastal  
Surveys