

8212

Diag'd on Diag. Ch. No. 1237

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photo. Compilation

Field No. _____ Office No. T-8212

LOCALITY

State South Carolina Carolina

General locality Georgetown-Horry Counties

Locality Yauhannah

194 3

CHIEF OF PARTY

Lieut. Comdr. K. G. Crosby

Lieut. Comdr. F. L. Callen

LIBRARY & ARCHIVES

DATE March 14, 1946

B-1870-1 (1)

8212

DATA RECORD

Form T-1

T- 8212

Quadrangle (II): Yauhannah

Project No. (II): CS 285

Field Office: Myrtle Beach, S.C. Chief of Party: F. L. Gallen

Compilation Office: Tampa, Florida Chief of Party: K. G. Crosby

Instructions dated (II III): 7/15/42

Copy filed in Descriptive
Report No. T- (VI)

Completed survey received in office: 8/23/43

Reported to Nautical Chart Section: 1/26/45

Reviewed: 10/43

Applied to chart No.

Date:

Redrafting Completed: 1/44

Registered: 2/46

Published: 11/44

Compilation Scale: 1:20,000

Published Scale: 1:31680

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927

Datum Plane (III): M.S.L. 1929

Reference Station (III): G-301, 1935 (S.C.G.S.)

Long.

Lat.: 79° 09' 50" 121

Lat.

Long.: 33° 39' 13" 486

(1291.5 m.)

(415.5 m.)

Adjusted ✓

Unadjusted

State Plane Coordinates (VI): *South*
*S. Carolina Zone*X = ~~2,558,755.42 ft.~~Y = ~~242,757.87 ft.~~

X = 2,558,747.12 FT.

Y = 667,191.80 FT.

Military Grid Zone (VI) "B"

O.D.
J.H.S. 10/19/43

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
8259	4-2-42		1:20,000	Inshore sheet
8260	"		"	
8282	"		"	
8283	"		"	
8284	"		"	

Tide from (III): --

Mean Range:--

Spring Range: --

Camera: (Kind or source) 9 lens

Field Inspection by: W.W.Doeringfield, D.G.Flippo date: April-May 1942

Field Edit by: L. Levin date: Sept. 1943

Date of Mean High-Water Line Location (III): --

Red line celluloid print

~~Projection and Grids ruled by~~ (III) Wash. Office

date: oo

" " " checked by: Wash. Office

date: --

Control plotted by: H.W.Thune, Jr.Photo.Ingr.

date: Feb. 1943

Control checked by: W.E.Snyder, Photo. Aid

date: " "

Radial Plot by: Tampa Office Personnel

date: March 12, 1943

" " rerun by Tampa Office Personnel

June 21, 1943

Detailed by: M. Rutkin, Jr.Engr.Drafts.

date: Mar.-July 1943

H.W.Thune, Jr.Photo.Engr.

Reviewed in compilation office by: A.L.Kidwell, Jr.

date: August 1943

J.H.S.Billmyer, Asst.Photo.Engr.

Topo.Engr.

Elevations on Field Edit Sheet

checked by: L. Levin ✓

date: Sept. 1943 ✓

STATISTICS (III)

Land Area (Sq. Statute Miles); 60.3

Shoreline (More than 200 meters to opposite shore); None

Shoreline (Less than 200 meters to opposite shore); 69.4

Number of Recoverable Topographic Stations established; -

Number of Temporary ~~Hydrographic~~ Stations located by radial plot: 1
Topographic

Leveling (to control contours) - miles; 2 2

Roman numerals indicate whether the item is to be entered by,

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname
and initials (not initials only).

Remarks;

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

This quadrangle, together with similar adjoining maps produced under Project C.S. 285, 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:

1.

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 April 1942 and were published in 1944 on the scale of 1:20,000. Lithographic prints of the quadrangle base sheets on cloth-mounted paper were furnished to the field parties and similar prints in red ink on celluloid sheets were furnished to the compilation office.

2.

FIELD SURVEYS

Aerial photography with the Coast and Geodetic Survey nine-lens camera, with airplane and flight crew furnished by the U. S. Coast Guard. The photographs were taken to the scale of 1:20,000.

Ground inspection of the photographs for identification of control points, and classification and clarification of planimetric details on the photographs. The field parties were permitted to make field inspection notes either on the photographs or on the planimetric base sheet.

Contouring by planetable, directly on the photographs or on the planimetric base sheet at the option of the field party. The contouring for this quadrangle was done on the photographs.

Supplementary vertical control was established by means of an extensive subordinate level net, furnishing unmarked elevations at road intersections, driveways, and numerous other points identifiable on the photographs.

3. COMPILATION OF MANUSCRIPT

Revision of the planimetric base map from the new photographs and addition of contours and corrections obtained by the field parties. ~~A~~ ^{manuscript} radial plot was made for this work, using ^{the} red line print as a base.

4. FIELD EDIT

Comparison of a copy of the corrected manuscript with the ground. This included inspection for completeness and accuracy as well as the location by planetable methods of additional details, checking of nautical and aeronautical aids to navigation, etc. ~~Steps 2 and 3 were accomplished simultaneously.~~

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 manuscript. From these drawings, negatives and printing plates were prepared for reproduction of the finished map on the scale of 1:31,680 or 1:25,000.

FIELD INSPECTION REPORT
QUADRANGLE T-8212
PROJECT CS-285
F. L. GAILLEN, CHIEF OF PARTY

1. The drainage of the area runs entirely toward the Pee Dee and Little Pee Dee Rivers. In the northern half of the quadrangle the drainage can be classified as dendritic, while in the southern half much of the drainage is controlled by sand ridges running in an east-west direction and thereby classified as trellis drainage. In the middle and southern part of the quadrangle lie several circular areas which for the most part are classified as low ground and contain mostly evergreen brush. It is the opinion of the writer that these areas were off-shore lagoons previous to the emergence of the area. The off-shore bars and spits still remain to give evidence of this fact and may be noted on photograph 8282.

The ground relief of the quadrangle varies from sea level to a height of about sixty-four feet. The area within the quadrangle slopes from north to south giving further evidence of the formation of off-shore lagoons and their gradual emergence.

The roads in this quadrangle are made of sand and clay. The drainage of these roads is as a whole very poor and the roads are not dependable in wet weather. There are many temporary roads built by lumbermen which can be traveled in dry weather only. State Highway No. 707 runs through the southern part of the quadrangle and Highway No. 701 in the south-east. These are the only two roads that can be considered good roads in the quadrangle.

Some farming is carried on upon the relative higher places in the areas which are usually sand ridges.

2. See the Report for Quadrangle 8221.
3. See the Report for Quadrangle 8237 and 8238.
- 4-5. See the Report for Quadrangle 8721.
6. See the Report for Quadrangle 8238.
- 7-8-9-10-11-12-13. See the Report for Quadrangle 8216.
14. See the Report for Quadrangle 8238.
15. The dimensions and the load limit of the bridges have been indicated on the photographs but they have not been classified. *Bridges have been classified on sheet according to field edit.*
16. See the Report for Quadrangle 8238.
17. See the Report for Quadrangle 8226.
18. Geographic Names is the subject of a separate report for this Project. LA

19. All the adjacent Quadrangles join this one on overlapping photographs. The junctions between the photographs were checked in the field and should be satisfactory.

Submitted by

Walter W. Doeringfeld

Walter W. Doeringfeld,
Junior Topographic Engineer.

Approved and forwarded:

F. L. Gallen

F. L. Gallen,
Chief of Party.

COMPILATION REPORT
TO ACCOMPANY
SHEET NO. T-8212

26. CONTROL

Four traverse stations fall on this sheet and two of these could be held to in the main radial plot. South Carolina Geodetic Survey station G-301 and HO-220 could not be held and were later investigated by the field party. These two stations were found to have been picked incorrectly in the field. After being re-picked on the photographs, the stations check satisfactorily.

27. MAIN RADIAL PLOT

A continuous radial plot was laid by the Tampa Field Office on March 12, 1943. The plot covered the area included within sheets T-8207, 8208, 8209, 8210, 8211, 8212, 8213 and 8214. The usual procedure was followed in laying the plot.

Of the 46 templates prepared, 11 were omitted from the plot due to excessive tilt, lack of control, or because there were sufficient templates without their use. The following templates were omitted because of tilt: 8246, 8247, 8248, 8253 and 8255.

The following table indicates the control density.

No. of Templates	No. of Control Stations
1	20 Sta. or more
2	15-19 inclusive
9	10-14 "
20	5-9 "
3	4 Sta. or less

The above table indicates that there was ample control for the plot as a whole. The following table shows the actual control density for each sheet.

Sheet No.	No. of Control Stations
8207	7
8208	10
8209	20
8210	6
8211	15
8212	4
8213	10
8214	5

In laying the plot it was found that several triangulation and traverse stations consistently could not be held. The discussion of these individual cases will be included in the Descriptive Report accompanying each sheet in the plot. All

stations which could be held consistently gave good radial line intersections. No triangles of error were picked.

In the area near the eastern edge of quadrangles 8208, 8210, and 8212, along the flight line from photo 8253 to photo 8259 some difficulty was encountered in laying the templates due to the fact that few control stations were available to give rigidity to this series of templates. However, it is believed that the accuracy is well within the prescribed limits. This is at least partially indicated by the fact that in many cases road intersections which were picked as radial points correspond exactly to plotted geographic positions, (U.S.G.S. Traverse Stations), of third order accuracy or less.

Due to the fact that there were some errors in the picking of control on the photographs by inexperienced personnel and some of the geographic positions being in error, the plot was re-run on the 21st of June 1943. This plot was run under the supervision of a member of the Washington Office personnel temporarily transferred to the Tampa Office.

The plot was re-run after carefully checking all control and azimuth lines between photograph centers, and selecting certain radial points to be used for supplemental control for "cutting in" new radials.

After the plot had been re-run, the survey sheets were laid on the templates and the selected radial points were re-picked. Most of these points changed less than 0.5 m.m., and a great many checked exactly with the picking on the previous plot. Very few points changed more than 0.75 m.m.

After the selected points had been picked, the other radials were "cut in" again, and the drafting was corrected to agree with the revised plot.

28. DETAILING

The detailing was done on a red line celluloid print of the quadrangle, of which the eastern portion was compiled from photographs on a previous project. This eastern part was revised to agree with the recently taken photographs. These revisions and the new detailing of the rest of the sheet have been done in black celluloid ink.

The photographs were reasonably clear, but the scale was rather poor. Some difficulty was experienced in some places in the picking of radial points, as a large part of the area is heavily wooded.

The northwestern part of the sheet was detailed by using the projector and checked by picking and cutting in additional radial points.

In general, the field inspection was good. As a few of the roads labeled on the field prints could not be seen on the photographs, only the parts which were visible on which were traced out by the field inspector were shown.

Satisfactory junctions were made with the adjoining quadrangles.

29. SUPPLEMENTAL DATA

There were no graphic control surveys by this Bureau, or maps and plans by other organizations used to supplement the photographs in the detailing.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

There were no topographic quadrangle maps available in the Tampa office with which a comparison with T-8212 could be made.

45. COMPARISON WITH NAUTICAL CHARTS

None of the published nautical charts show the area covered by this quadrangle in detail.

Respectfully submitted,

Morris Rutkin

Morris Rutkin,
Jr. Engineering Draftsman

Forwarded by:

Kenneth G. Crosby
Kenneth G. Crosby
Chief of Party...

FIELD EDIT REPORT
QUADRANGLE T-8212
PROJECT CS-285

18. The location of the Geographic names in the vicinity of the Pee Dee Swamp were checked in the field. Those that were located incorrectly on the map manuscript were deleted by drawing green lines through them and have been shown in their correct location in blue ink. "Horse Pan Branch" could not be located anywhere in this Quad. and it is recommended that it be deleted. Most of the information was obtained from a man who has been living in this area for 70 years, N. B. Smart, Route 2, Conway, S. C. , and was verified by two other farmers. *All geographic names have been relocated according to field edit and "Horse Pan Branch" has been removed from sheet.*
46. The field edit was accomplished by visual inspection making all additions and corrections on the map manuscript in the field and transferring all detail to a smooth copy while inking.

The following color scheme was used:

<u>FEATURES</u>	<u>COLORS</u>
Additions, bench marks, wye level elevations and crosses	Red
Deletions	Green
Drainage features	Blue
Political boundaries	Violet
Geographic Names	Blue

47. The position and amount of detail on this map manuscript is believed to be complete and adequate.
48. The vertical accuracy tests are the subject of a special report for project CS -285. *The nearest vertical accuracy test is on T-8213 to the west.*
- A horizontal accuracy test was run in this Quad..
The results of this test are discussed in a report attached to this report.

Approved and forwarded

F. L. Gallen
F. L. Gallen

Respectfully submitted,
Louis Levin per F.L.G.
Louis Levin
Photo. Aid.

T-8212

No. 1

Remarks

Decisions

1	Not Great Pee Dee River: name is carried to westerly branch above junction with Little Pee Dee River	U.S.G.B.
2		Road Maps
3		"
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		336791 U.S.G.B.
14		" "
15		" U.S.G.B.
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		336792
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8212

YAUHANNAH quadrangle

1	Name on Survey	A,	B,	C,	D	E	F	G	H	K	
✓	<u>Pee Dee River</u>	✓									1
✓	<u>U.S. Highway No. 701</u>	✓									2
✓	<u>State Highway No. 707</u>	✓									3
	(northwestward from Yauhannah, Pee Dee Road below)										
✓	<u>Georgetown County</u>	✓									4
✓	<u>Horry County</u>	✓									5
✓	<u>Marion County</u>	✓									6
✓	<u>Murrell's Inlet and Waverly Mills Twp 7</u>	✓									7
	(Georgetown County)										
✓	^{2 words} <u>Peedee and Choppee Twp 5</u>	✓				"					8
✓	<u>Carvers Bay (Collins) Twp 6</u>	✓				"					9
✓	<u>Bucks Twp</u>	✓									10
	(Horry County)										
✓	<u>Woodbury Twp</u>	✓									11
	(Marion County)										
											12
✓	<u>Yauhannah</u>	✓									13
✓	<u>Bull Island</u>	✓									14
✓	<u>Hell Gate</u>	✓									15
✓	<u>Bull Creek</u>	✓									
✓	<u>Yauhannah Lake</u>	✓									16
✓	<u>Yauhannah Bridge</u>	✓									17
✓	<u>Yauhannah Forest Fire Lookout Tower</u>	✓									18
✓	<u>Big Island</u>	✓									19
✓	<u>Pee Dee Swamp</u>	✓									20
✓	<u>Conch Creek</u>	✓									21
	(stream)										
✓	<u>Cowford Swamp</u>	✓									22
✓	<u>Bradley Branch</u>	✓									23
✓	<u>Tupelo Bay</u>	✓									24
✓	<u>Sand Ridge</u>										25
	name shown on T-8213										
✓	<u>Johnny Young Road</u>	✓									26
✓	<u>Rice Crossroads</u>	✓									27

M 234

	Remarks	Decisions
1		336782
2		"
3		"
4		"
5	✓ shown twice - in different countries	337791
6		336792
7	- Not shown -	"
8		"
9		"
10		"
11		"
12	=	337792
13		"
14		"
15		"
16		"
17		337791
18		337792
19		"
20		"
21		"
22		"
23		337791
24		"
25		"
26	stream not shown on compilation	"
27		"

GEOGRAPHIC NAMES

Survey No. T-8212

2

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	
✓ Petersfield	✓								1
✓ High Hill	✓								2
✓ Carvers Bay Road	✓								3
✓ Larrimore Gully	✓								4
✓ Pee Dee Road	✓ (see line 3, No. 1)								5
✓ Sally Branch	✓								6
* Tom Branch	(very small)								7
✓ Conch Creek	✓ (settlement)								8
✓ Pitch Landing	✓								9
* Bruortons Road	✓	next quadrangle	8213						10
✓ Gravel Gully	✓								11
✓ Jordan Creek	✓								12
✓ Jacobs Creek	✓								13
✓ Jordan Lake	✓								14
✓ Britton Neck	✓								15
✓ Britton Neck Road	✓								16
✓ Russ Creek	✓								17
✓ Dead River	✓								18
✓ Jiles Creek	✓								19
✓ Russ Lake	✓								20
✓ Little Pee Dee River	✓								21
✓ Little Pee Dee Swamp	✓								22
✓ Bradley Bridge	✓								23
✓ Sheep Pen Branch	✓								24
✓ Gilbert Crossroads	✓								25
* Rhems Branch	✓								26
✓ Horsepen Branch	✓								27

T-8212

No. 3

Remarks

Decisions

1		337791
2		"
3		"
4		"
5		"
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. T-8212

3	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>Lucas Bay</u>	✓								1
✓	<u>Lucas Bay Plantation</u>	✓								2
✓	<u>Lucas Bay Road</u>	✓								3
✓	<u>Bucksville Road</u>	✓								4
✗	<u>Pawleys Swamp Road</u>	name shown in T-8210								5
										6
										7
										8
										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 11/20/43

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.

Original celluloid manuscript.

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-8212

YAUHANNAH 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 vertical accuracy test is on T-8213 to the west.

The horizontal accuracy test points on this sheet were all within the allowable error of .5 m.m., with the exception of point T-11, whose displacement was .67 m.m. This necessitated a slight change in a private road joining Pee Dee Road at 33°39'45"/79°11'58" and the shifting Previous Surveys of an elevation mark at the intersection of the two roads.

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-5248	1:10,000	1934
T-5249	1:10,000	1934
T-5250	1:10,000	1934

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:

No nautical charts cover this area.

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

Only changes of a minor nature were necessary during the review of this map manuscript.

Reviewed Oct. 19, 1943 By John H. Stewart
under direction of D. H. Benson *(per R.E.M.)*

Inspected by B. G. Jones *B.G. Jones 2/46*

Examined and approved:

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

~~Chief, Topography Section~~

Robert Wilson
Chief, Div. of Charts
Nautical Chart Branch
Raymond C. Copman
Chief, Div. of Coastal
Surveys