

8209

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-8209

LOCALITY

State South Carolina

General locality Horry County

Locality Conway

194 3

CHIEF OF PARTY

Lieut. Comdr. K. G. Crosby

Lieut. Comdr. F. L. Gallen

LIBRARY & ARCHIVES

DATE September 25, 1946

B-1870-1 (1)

8209

DATA RECORD

T- 8209

Quadrangle (II): Conway

Project No. (II): CS 275

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

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

Instructions dated (II III):
1/23;7/15;10/19;10/23;10/27, 1942Copy filed in Descriptive
Report No. T- (VI)

Completed survey received in office: 9/43

Reported to Nautical Chart Section: 1/45

Reviewed: 11/45

Applied to chart No.

Date:

Redrafting Completed: 2/44

Registered:

Published: 4/44

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): CONWAY, WATER TANK, 1932

Lat.: 33°49'57"62(1775.3)
m. Long.: 79°02'45"14(1160.7)
m. Adjusted
Unadjusted

State Plane Coordinates (VI): South Carolina north zone.

X = 2,593,423. — ft.

Y = 308,727. — ft.

Military Grid Zone (VI) "B"

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
8232	4-2-42	-	1:20,000	Inshore Sheet
8233	"	"	"	"
8246	"	"	"	"
8247	"	"	"	"
8248	"	"	"	"

Tide from (III); --

Mean Range; --

Spring Range; --

Camera: (Kind or source) USC&GS 9 lens

Field Inspection/and contouring
by: K.B.Roche

date: April
May, 1943

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) Washington Office date: --

" " " checked by: -- date:

Control plotted by: Previous project date:

Control checked by: " " date:

Radial Plot by: Tampa Office Personnel date: March 12, 1943
" " rerun by " " " date: June 21, 1943

(Western party of sheet)
Detailed by: W.E.Snyder and P.G.Gill, Photo. Aids date: Mar.-Aug. 1943

Reviewed in compilation office by: A.L.Kidwell, Jr. Topo. Engr. date: Aug.-Sept. 1943
J.H.S. Billmyer, Asst. Photo. Engr.

Elevations on Field Edit Sheet

checked by: L. Levin

date: Sept 1943

STATISTICS (III)

Land Area (Sq. Statute Miles); 33 (new detailing)

Shoreline (More than 200 meters to opposite shore); Previously reported

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

Number of Recoverable Topographic Stations established; 2

Number of Temporary Hydrographic Stations located by radial plot; --

Leveling (to control contours) - miles; 20

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: T-8209 is a revision of an area compiled previously from
aerial photographs, and reproduced on a red line celluloid print,
and new detailing sufficient to fill out the balance of the $7\frac{1}{2}$
minute quadrangle which includes the previous compilation.

The revisions and new detailing are in black acetate ink.

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:

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 entirely.

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 ~~ne~~-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 4 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-8209
(CONWAY)
PROJECT CS-275
F. L. GALLEN, CHIEF OF PARTY.

1. Approximately one-third of this Quadrangle is swamp, which is drained by the Waccamaw River. Cypress and Gum trees are the predominating trees in the swamp. There are numerous areas in the swamp that are of a lighter tone on the photographs and are a few feet higher than the surrounding swamp, but none of these approach the twenty-foot contour. East of the River are found narrow gullies separated by ridges, which are relatively flat and are usually farmed. These ridges are just above the forty foot contour. In these gullies are deciduous trees with a few evergreens. West of Toddville and north to the Bear Swamp the land is very flat and grassy, with few trees except in the vicinity of streams. The Cates Bay Road to Conway follows a ridge having the highest ground in the Quadrangle, 61 feet at the west edge of town. Northwest of Conway a stream which has many tributaries and flows into the Waccamaw, is about 20 feet lower than the ground on both sides at a point where an abandoned railroad bed crosses it. North of this stream the land is again relatively flat with an average elevation about 35 feet. Apart from the swamp, the quadrangle is extensively farmed; the products - tobacco, corn, oats; tobacco, the largest product, is marketed in Conway (population 5011), which is a central market for the surrounding region. Roads, ^{some} except for through paved routes, are poor. U. S. Highway 501 (from the east) and U. S. Highway 701 (from the south) converge at Conway to go north. U. S. Highway 90 traverses the Quadrangle in an east-west direction through Conway. U. S. Highway 501 approximately follows the Atlantic Coast Line Railroad. *(Only north of Conway)*

2. The field inspection included classification of roads, buildings and trees. Because of the congested buildings in Conway, buildings were individually blocked in. This scheme was followed for the entire quadrangle. Dwellings are indicated by green; stores and barns by red; public buildings, schools, churches, by blue.

Some of the bridges were classified. Not all trees were classified because this did not seem necessary. Generally, the trees were over twelve feet. Evergreens were much darker on the photo than deciduous trees. In the vicinity of the streams the underbrush is usually quite thick - almost impenetrable.

The accompanying map of Conway showing the corporate limits was obtained at the City Hall. These limits were not indicated on the photo and can easily be transferred to the Map Manuscript. No other incorporated towns are included in the Quadrangle.

3. The grassy areas which are in this Quadrangle are characterized by a dark gray tone. Cypress in the swamp is a much lighter tone. Deciduous trees are slightly darker than cypress. Evergreens are darker gray than grass. Along the Waccamaw River are several lumber yards in which are large piles of

lumber that look like buildings on the photo. the buildings have been blocked in.

4. Horizontal control for this quadrangle has been pricked on the photos and forwarded to the Tampa Office.

5. Elevations for the planetable were obtained from centerline of roadway elevations set by a supplementary level party and from State Local Control Stations along the main highways.

6. Contouring was done entirely on the photographs. Orientation was determined by placing a magnetic north direction by sighting on a long road tangent. Position was usually readily discernible except in wooded areas where horizontal traverses were run. Streams were located by field inspection. No large vertical closures were encountered.

7. The shoreline is indicated on the photos. HWL is not more than a few feet horizontally from LWL.

9. Shoreline structures are indicated.

11. There are no Beacons or lights on this section of the Waccamaw River.

14. Roads were classified according to instructions.

15. See section (2) of this Report.

16. See Section (2) of this Report.

17. Political boundary lines will be added by the Field Edit Party.

18. Geographic Names is the subject of a separate report. ~~XX~~

Respectfully submitted,

K. B. Roche

K. B. Roche,

Sr. Photogrammetric Aid.

Approved and forwarded:

F. L. Gallen

F. L. Gallen,
Chief of Party.

COMPILATION REPORT
TO ACCOMPANY
SHEET NO. T-8209

26. CONTROL

Approximately 28 square statute miles of T-8209 is made up from maps compiled from air photographs in 1935, and the detailing done in the Tampa Office consisted of making additions and revisions on a red line celluloid print of the previous compilation with additional new detailing to complete the 7½ minute quadrangle.

The control was plentiful and was used on the old compilation. The new drafting of the unmapped part of the quadrangle was controlled by radial points determined by a new radial plot.

Due to the large amount of control stations in the area, the detail previously compiled was assumed to be accurate and was "held to" in making revisions and cutting in additional radial points on the sheet.

Some of the traverse stations were not recovered and picked on the photographs as there was enough control in the area to make them superfluous, *but are shown on the manuscript.*

27. RADIAL PLOT

The main radial plot of which this sheet was a part is discussed in the compilation report for T-8212.

28. DETAILING

As mentioned above, the detailing on approximately half of the sheet, was new mapping, and the rest revisions of old detail. All new detailing and revisions and additions are shown on the red line celluloid print in black ink.

The photographs were clear and the field inspection was sufficient, therefore, no difficulty was experienced in the drafting of the sheet.

29. SUPPLEMENTAL DATA

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

34. LANDMARKS AND AIDS TO NAVIGATION

Two topographic stations, (Meade Fire Tower, and Veneer Manufacturing Co. Water Tower), are shown on the sheet and their ~~correct~~ geographic positions are shown on ~~attached~~ forms 524, *as scaled from the radial plot.*

These structures should be investigated in the field as to their being suitable landmarks for air navigation, and recommendations made.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

No topographic quadrangle maps by other organizations were available in the Tampa Office with which this sheet could be compared.

Discrepancies between T-8209 and the portion of it previously compiled have been corrected on the celluloid sheet as mentioned before in this report. Except for the addition of a main highway, the discrepancies are of minor importance.

45. COMPARISON WITH NAUTICAL CHARTS

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

Respectfully submitted,

William E. Snyder
William E. Snyder,
Photogrammetric Aid

Forwarded by:

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

FIELD EDIT REPORT
QUADRANGLE NO. T-8209
PROJECT CS-285

46. The field edit on this Quadrangle 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
Contours and planetable elevations	Brown

47. The positions and amount of detail on this map manuscript is believed to be complete and adequate.

48. A horizontal accuracy test was run in this Quadrangle. *The positions of three points (two houses and one culvert) were corrected by the reviewer.*
The vertical accuracy test is the subject of a special report for Project CS-285.

Approved & Forwarded

F. L. Gallen
F. L. Gallen
Chief of Party

Submitted by

Louis Levin
Louis Levin
Photo. Aid.

No. 1

Remarks

Decisions

1		
2		U.S.G.B.
3		Railway Guide
4		
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19		
20		
21		338790
22		"
23		"
24		"
25	Pending with U.S.G.B.	"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8209

Conway quadrangle

1

Name on Survey

	A.	B.	C.	D.	E.	F.	G.	H.	K.	
Horry County	✓									1
Waccamaw River	✓									2
Atlantic Coast Line R.R.										3
Highways: according to Horry County Road Map and 1942 Texaco Map, none of the applications on the compilation are entirely correct and they should be carefully checked. Variations from these two sources:										4
										5
										6
U.S. 701 ✓	✓									7
										8
U.S. 501 ✓	✓									9
										10
State No. 90 ✓	✓									11
										12
										13
State No. 905 ✓	✓									14
										15
State 904										16
										17
State 503										18
										19
										20
Red Hill	✓									21
Sterritt Swamp	(very little on this quad.)								can't be labeled	22
Wilson Landing	✓									23
Grissett	✓									24
Kingston Lake	✓									25
Kingston Bridge	✓									26
Smith Lake Road	✓									27

T-8209

No. 2

Remarks

Decisions

1		338790
2		"
3		"
4		"
5		"
6		"
7		"
8		"
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14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		337790
23		"
24		"
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8209

2	Name on Survey	A,	B,	C,	D	E	F	G	H	K	
	<u>Grier Swamp</u>	✓									1
	<u>Grier Swamp Bridge</u>	✓									2
	<u>Conway Airport</u>	✓	(Existence doubtful) Abandoned								3
	Conway Lumber Co. Tram Road										4
	<u>Walter Short Cut Road</u>	✓									5
	<u>White Oak</u>	✓	(settlement)								6
	<u>White Oak Road</u>	✓									7
	<u>White Oak Bridge</u>	✓									8
	<u>Crab Tree Swamp</u>	✓									9
	<u>Crab Tree Bridge</u>	✓									10
	<u>Oakey Swamp</u>	✓									11
	<u>Altman Branch</u>	✓									12
	<u>Willow Spring Branch</u>	✓									13
	<u>Conway</u>	✓									14
	<u>North Conway</u>	✓									15
	<u>Jamestown</u>	✓									16
	<u>Bear Swamp</u>	✓									17
	<u>Savannah Bluff</u>	✓									18
	<u>Wadus Lake</u>	✓									19
	<u>Pitch Lodge Lake</u>	✓									20
	<u>Pitch Landing</u>	✓	(Waccamaw River near lat. 33 48')								21
	<u>Cox Ferry Lake</u>	✓									22
	<u>Cox Ferry</u>	✓									23
	<u>Indian Creek</u>	not shown									24
	<u>Indian Creek Lake</u>	✓									25
	<u>Jackson Bluff</u>	✓									26
	<u>Thoroughfare Creek</u>	✓									27

T-8209

No. 3

Remarks

Decisions

1		337790
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26		"
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GEOGRAPHIC NAMES

Survey No. T-8209

GEOGRAPHIC NAMES											
Survey No. T-8209											
3	Name on Survey	<div>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</div>									
		A,	B,	C,	D	E	F	G	H	K	
	<u>Thoroughfare Island</u>	✓									1
	<u>Pott Bluff</u>	✓									2
	<u>Toddville</u>	✓									3
	<u>Granddaddy ^{Lake} Dennis</u>	✓									4
	<u>Halfway Swamp</u>	✓									5
	<u>Gravelly Gully</u>	✓									6
	<u>Mead Fire Lookout Tower</u>	✓									7
	<u>Greenwood Church Road</u>	✓									8
	<u>Big Branch</u>	✓									9
	<u>Big Branch Bridge</u>	✓									10
	<u>Big Cypress Swamp</u>	✓									11
	<u>Pawleys Swamp Road</u>	✓									12
	<u>Baiter Swamp</u>	✓									13
	<u>Cates Bay Road</u>	✓									14
	<u>Sand Ridge</u>	✓									15
	<u>Cates Bay</u>	shown in 8210									16
	<u>Jenkins Swamp</u>	✓									17
	<u>Cedar Grove</u>	✓ (settlement)									18
	<u>Beaver Hole Swamp</u>	✓									19
	<u>Thompson Swamp</u>	✓									20
	<u>Guiton Road</u>	not enough on this quadrangle									21
	<u>Jordanville Road</u>	✓									22
	<u>Dog Bluff Road</u>	✓									23
	<u>Four Mile Swamp</u>	(one word) ✓									24
	<u>Ned Creek</u>	✓									25
	<u>Mary</u>	✓									26
	<u>Mary Branch</u>	✓	in T8207								27

M 234

GEOGRAPHIC NAMES
Survey No. T-8209

4	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	
	Potato Bed Ferry Road	✓									1
											2
											3
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L. Heck on 12/8/43

T-8209

Remarks.

No.4
Decisions

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M 234		

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-8209

CONWAY 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 horizontal and vertical accuracy tests run in this quadrangle were satisfactory. For further information see the reports in the Division of Photogrammetry files.

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-5247}	1:10,000	1934
T-5248}		

Comparison with Nautical Charts Nos. 1237

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-8209 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:

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

Reviewed Nov. 17, 1943 By Harlow E. Rees
under direction of D. H. Benson (per D.M.)

Inspected by B. G. Jones B.G. Jones 8/46

Examined and approved:

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

Chief, Topography-Section

Robert W. Hall
Chief, Div. of Charts

Raymond R. Egan
Chief, Div. of Coastal
Surveys