

8190

8190

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photographic Topographic

Field No. Office No. T-8190

LOCALITY

State North Carolina

General locality Brunswick County

Locality Funston

1943

CHIEF OF PARTY
FL Gallen and
Fred. L. Peacock

LIBRARY & ARCHIVES

DATE June 27, 1946

DATA RECORD

T-8190

Quadrangle (II): Project No. (II):
 Funston $7\frac{1}{2}$ min. Quadrangle CS-284

Field Office: Chief of Party:
 Myrtle Beach, South Carolina F. L. Gallen

Compilation Office: Chief of Party:
 Baltimore, Maryland Fred. L. Peacock

Instructions dated (II III): Copy filed in Descriptive
 July 15, Oct. 19, 23, 27, 1942 Report No. T- (VI)

Completed survey received in office: 7/43

Reported to Nautical Chart Section: 1/45

Reviewed: 10/43 Applied to chart No. Date:

Redrafting Completed: 11/43

Registered: 6/46 Published: 3/44

Compilation Scale: 1:20,000 Published Scale: 1:31680

Scale Factor(III): None

Geographic Datum (III): N.A. 1927 Datum Plane (III): Mean Sea Level

Reference Station (III): MILL, 1932

Lat.: $34^{\circ} 05' 43.961''$ 1354.5 Long.: $78^{\circ} 05' 21.351''$ 547.3 Adjusted
(494.2)m (990.8)m ~~Unadjusted~~

State Plane Coordinates (VI):

~~2,275,756.00~~
~~2,618,858.28 ft.~~
 X = ~~2,270,000 Ft~~ Y = ~~988,952.72 ft.~~
N. Carolina ~~130,000 Ft~~
Single Zone 127,027.26

Military Grid Zone (VI) 'B'

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
8114 to 8118 Inc.	4/6/42	Unknown	1:20,000	There are no navigable waters within the limits of this quadrangle.
8120 to 8121 Inc.	4/1/42	12:33p.m.	1:20,000	
8106 to 8108 Inc.	4/1/42	11:57a.m.	1:20,000	

Tide from (III): No tide computation necessary

Mean Range: Spring Range:

Camera: (Kind or source): U. S. Coast & Geodetic Survey Nine lens camera (focal length $8\frac{1}{4}$ "

Field Inspection by: Henry M. Eldridge date: Spring, 1943

Field Edit by: *L. Levin* date: *August, 1943*

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

~~Projection~~ Projection and Grids ruled by (III): C. H. R. date: April 6, 1943

" " " checked by: John C. O'Neill date: April 6, 1943

Control plotted by: Charles C. Tropp date: April 9, 1943

Control Checked by: John M. Reinoldi date: April 15, 1943

Radial Plot by: Joseph Steinberg & J. Edward Deal, Jr. date: May, 1943

Detailed by: M. Eleanor Herzog date: 6/11/43 to 7/21/43

Reviewed in compilation office by: Wm. H. VanLoon date: 7/16/43 to 7/23/43

Elevations on Field Edit Sheet checked by: *L. Levin* date: *Aug 9, 1943*

STATISTICS (III)

Land Area (Sq. Statute Miles): 61

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

Shoreline (Less than 200 meters to opposite shore): None

Recoverable Topographic Stations established: None

Number of Temporary Hydrographic Stations located by radial plot:
None

Leveling (to control contours) - miles: 72 mi.

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:

Contours by Henry M. Eldridge

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

This quadrangle, together with similar adjoining maps produced under Project C.S.284, 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:

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.

Contouring by planetable directly 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.

COMPILATION OF MANUSCRIPT

Compilation on the map manuscripts by radial plot methods (celluloid hand templates) of all planimetry and contours. These manuscripts were drawn on the scale of 1:20,000 on celluloid sheets on which polyconic projections had been ruled with the Projection Ruling Machine in the Washington Office. Compilation was accomplished in the Baltimore Tampa Photogrammetric Office.

FIELD EDIT

Comparison of a copy of the 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.

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-8190
PROJECT CS-284
F. L. Gallen, Chief of Party

1. DESCRIPTION OF AREA

The area covered by this quadrangle in general is undeveloped land. The north section has several farms on the higher ground, the lower ground being mostly swamp. The central and western section is quite flat and poorly drained. The eastern section is quite hilly, and very well drained. There are numerous ponds and depressions on the ridge between Allen Creek and Moore's Creek. Drainage for this area follows a well defined pattern. Mill Creek and Dorns Creek which are tributaries to Town Creek drain the northern section of the area. Allen Creek and Moore Creek drain the central and eastern section of the area. Several bays which are flat wet weather swamps appear in different sections of the area and the drainage from them has been delineated on the photographs.

2-3. See the report for Quadrangle 8185.

4-5. See the report for Quadrangle 8184.

6. See the report for Quadrangle 8185.

7-13. These items do not apply to this quadrangles.

14-15-16. See the report for Quadrangle 8184.

17. This quadrangle lies entirely in Brunswick County, North Carolina. Only political boundaries apply and these will be added by the field edit party.

18. See the report for Quadrangle 8184.

19. Junctions with Quadrangle 8184 to the north, 8197 to the south and 8191 to the west are all on overlapping photographs. The junctions have been checked in the field and should be satisfactory. There is no modern survey to the east.

Approved and Forwarded

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

Submitted by:

Henry M. Eldridge
Henry M. Eldridge
Senior Photogrammetric Aid

26 CONTROL:

There are ten U. S. Coast & Geodetic Survey Triangulation Stations used to establish secondary control and detail points. Two of these Triangulation Stations are within the limits of this map manuscript and eight are just outside the limits.

Those stations within the limits are:

MILL, 1932
FUNSTON, 1942

Those stations just outside the limits are:

BOLIVIA, 1942
WINNABOW, 1942
IN, 1917
OAKS, 1917
ORTON CHURCH CUPOLA, 1917
EAST GABLE OF ORTON BARN, 1917
RUINS, 1917
CYPRESS, 1932

In order to facilitate the identification of horizontal control on the office photographs, the field party established Field Inspection Stations at well-defined points, near the following triangulation stations.

OAKS, 1917
RUINS, 1917
CYPRESS, 1932
FUNSTON, 1942
WINNABOW, 1942

These Field Inspection Stations are shown by circles in orange ink on the glossy side of the map manuscript.

27 RADIAL PLOT:

The radial plot for this map manuscript is described in Section 4 of the descriptive report for the Radial Plots of Projects CS-275 and CS-284, which has been submitted to the Washington Office.

28 DETAILING:

Nine lens unmounted office photographs were used in detailing this map manuscript.

28 DETAILING: (cont'd)

Drainage throughout the area of this map manuscript was very obscure and the field party's interpretation was accepted, after verification, by stereoscopic examination of the office photographs.

Two unusually wide and well-defined lanes not indicated by field inspection were noted on the office photographs. These were interpreted as fire lanes, by the compilation office, and are shown on the map manuscript by dashed black lines.

see Field Photo
8447

The compiler was able to interpret the office photographs satisfactorily from the data furnished by the field inspection party.

29 SUPPLEMENTAL DATA:

There are no previous Topographic surveys covering the area of this map manuscript available to the compilation office.

The field party furnished the compilation office with a blue-line print of the State Highway & Public Works Commission Highway Map of Brunswick County, scale 1" = 1 mile.

Paragraphs 30 to 36 do not apply to this map manuscript.

37 GEOGRAPHIC NAMES:

A list of Geographic names is attached to this descriptive report showing undisputed, disputed and recommended geographic names. Undisputed geographic names only, are shown on the map manuscript.

38 DISCREPANCY OVERLAY:

A discrepancy overlay has been prepared to accompany this map manuscript. On it are notes calling the attention of the field edit party to additional information needed to make this map manuscript complete. Questions concerning correct interpretation, comments, and such notes as are deemed likely to be of assistance during the field edit are also included. The numbers of all bench marks are shown for the convenience of the Baltimore Compilation Office, in scaling the geographic positions from the red-line print.

39 HORIZONTAL ACCURACY:

The horizontal accuracy of the location of well-defined and less

39 HORIZONTAL ACCURACY: (cont'd)

well-defined points of detail is believed to be within the limits set forth in the instructions for Project CS-284, paragraph 59, dated July 15, 1942.

40 RECOMMENDATIONS FOR FUTURE SURVEYS:

The planimetric detail as presented on this map manuscript is believed to be complete, but is subject to field edit for corrections, additions and deletions.

41 JUNCTIONS:

Complete and satisfactory junctions have been made as follows:

To the North with map manuscript for Survey No. T-8184
To the South with map manuscript for Survey No. T-8197
To the West with map manuscript for Survey No. T-8191

To the East, a comparison of junctions was made with the Corps of Engineers, U. S. Army, Tactical Map, Wilmington Quadrangle, N. C. Junction was in disagreement at the following points:

Disagreement at junction with the location of Orton Pond.

Marsh at Latitude $34^{\circ} 04' 20''$ and Longitude $78^{\circ} 00'$ is shown as water area. A marsh area is shown bordering this water area.

At Latitude $34^{\circ} 05' 10''$ and Longitude $78^{\circ} 00'$ Funston road is not in agreement.

Detail is not complete on quadrangle north of Latitude $34^{\circ} 05'$ at Longitude $78^{\circ} 00'$.

Contours are in complete disagreement.

42 REMARKS:

The field party has furnished an adequate description of the area covered by this map manuscript, in the field report which is attached to the compilation office descriptive report.

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

No Topographic Quadrangles of this area were available to the compilation office.

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES: (cont'd)

A general comparison was made with a blue-line print of the N.C. State Highway and Public Works Commission map of Brunswick County. Lack of minute detail on this map does not permit an accurate comparison. However, common roads are in fair agreement.

45 COMPARISON WITH NAUTICAL CHARTS:

There are no nautical charts which cover the area of this map manuscript.

Respectfully submitted,
July 20, 1943

M. Eleanor Herzog
M. Eleanor Herzog
Jr. Photogrammetric Aid

Map Manuscript, Discrepancy
Overlay and Descriptive Re-
port Reviewed by:

William H. Van Loon
William H. VanLoon
Pr. Photogrammetric Aid

Compilation of Map Manu-
script Supervised by:

Joseph Steinberg
Joseph Steinberg
Asst. Photogrammetric Eng.

and

J. Edward Deal, Jr.
J. Edward Deal, Jr.
Asst. Photogrammetric Eng.

Approved & Forwarded:
July 23, 1943

Fred. L. Peacock
Fred. L. Peacock
Commander, C & G Survey
Officer-in-Charge
Baltimore Photogrammetric Office

LIST OF GEOGRAPHIC NAMES

Undisputed

✓ Allen Creek
✓ Allen Creek Bridge
✓ Brunswick Station
✓ Clear Pond
✓ Dews Creek
✓ Dews Creek Bridge
✓ Funston
✓ Funston Road
✓ Goresville (abd.)
✓ Harris Swamp
✓ Hickman Branch
✓ Loughlin (abd.)
✓ Lewis Bridge

✓ McKinzie Creek
✓ Mill Creek (town)
✓ Moors Creek
✓ Orton Creek
✓ Orton Pond
✓ Pretty Pond
✓ Rice Creek Road
✓ Swain Branch
✓ Willet Branch
✓ Wilmington, Brunswick
& Southern Railroad (Add.)
✓ Woods Ponds
✓ Mill Creek (stream)
✓ Bell Swamp
✓ " " Road
✓ Middle Swamp
✓ River Swamp

LIST OF GEOGRAPHIC NAMES

Recommended

✓ Mill Creek
Middle Swamp
McKinsie Pond

Disputed

Mills Creek
Middle Swamp Creek
McKinsie Pond

FIELD EDIT REPORT
T-8190
PROJECT CS-284

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:

FEATURES	COLORS
Additions, bench marks, wye level elevations	RED
Deletions	GREEN
Drainage features	BLUE
Contours and plane table elevations	BROWN
Civil boundaries	VIOLET

47. The position and amount of detail on this map manuscript is believed to be complete and adequate.
48. Horizontal accuracy tests were run in quadrangles Nos. T-8184 and T-8191.

Vertical accuracy tests are the subject of a special report for Project CS-284.

~~Test was run during review, found to be satisfactory.~~

Submitted by

Louis Lewin

Louis Lewin
Photogrammetric Aid

Approved and Forwarded

F. L. Gallen

F. L. Gallen
Chief of Party

Remarks

Decisions

1		
2		Road Maps
3		"
4	Not listed in 1943 Railway Guide, but in 1941 ditto, in hands of receiver.	
5		
6		
7		
8		340779
9		"
10		340780
11	This spelling in Names Report.	"
12	<i>Not shown on this map. He</i>	"
13		"
14		"
15		"
16		"
17		"
18		340779
19		340780
20		"
21		"
22		341780
23		"
24		"
25		"
26		"
27		"
M 234		

GEOGRAPHIC NAMES

Survey No.

FUNSTON quadrangle

Name on Survey

		A, <small>On Chart No.</small>	B, <small>On previous survey No.</small>	C, <small>On U. S. quadrangle Maps</small>	D, <small>From local information</small>	E, <small>On local Maps</small>	F, <small>P. O. Guide or Map</small>	G, <small>Rand McNally Atlas</small>	H, <small>U. S. Light List</small>	
✓ <u>Brunswick County</u>	✓									1
✓ <u>U.S. Highway No. 17</u>	✓									2
✓ <u>State Highway No. 303</u>	✓									3
✓ <u>Wilmington, Brunswick and Southern R.R. (Abandoned)</u>						✓				4
✓ <u>Smithville Twp</u> <i>Twerp?</i>	✓									5
✓ <u>Town Creek Twp</u>	✓									6
										7
✓ <u>Orton Creek</u>	✓									8
✓ <u>Orton Pond</u>	✓									9
✓ <u>Woods Ponds</u>	✓									10
✓ <u>Moore's Creek</u>	✓									11
✓ <u>Goresville (Abd.)</u>	✓									12
✓ <u>Allen Creek</u>	✓									13
✓ <u>Allen Creek Bridge</u>	✓									14
✓ <u>Clear Pond</u>	✓									15
✓ <u>Pretty Pond</u>	✓									16
✓ <u>McKinzie Creek</u>	✓									17
✓ <u>McKinzie Pond</u>	?									18
										<i>shown in next sheet</i>
✓ <u>Swain Branch</u>	✓									19
✓ <u>Mill Creek</u>	✓									20
										<i>(settlement)</i>
✓ <u>Hickman Branch</u>	✓									21
✓ <u>Funston</u>	✓									22
✓ <u>Funston Road</u>	✓									23
✓ <u>Dews Creek</u>	✓									24
✓ <u>Dews Creek Bridge</u>	✓									25
✓ <u>Rice Creek Road</u>	✓									26
✓ <u>Mill Creek</u>	✓									27
										<i>(stream)</i>

Remarks.

Decisions

	Remarks.	Decisions
1		341780
2		341781
3		341780
4		341781
5		341780
6		341781
7		"
8		"
9	Not shown	"
10		"
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GEOGRAPHIC NAMES

Survey No. T-8190

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							
✓ Harris Swamp	✓															1
✓ Brunswick Station			(settlement)													2
Bell Swamp	✓															3
✓ Bell Swamp Road	✓															4
✓ Willet Branch	✓															5
✓ Lewis Bridge	✓															6
✓ Lewis Road	✓															7
✓ Middle Swamp	✓															8
✓ Loughlin (Abd.)	✓															9
✓ River Swamp	✓															10
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Names made final in 1922
by L. Heck on 11/10/23

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.

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.

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-8190

FUNSTON 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

For the nearest vertical accuracy test see the descriptive report on survey T-8184.

There is no horizontal accuracy test in this area.

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.

There are no previous topographic surveys in this area.

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:

There are no nautical charts which cover the area of this map manuscript.

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. 8, 1943 By Willis W. St. John
under direction of D. H. Benson *per W.M.*

Inspected by B. G. Jones *B.G. Jones 6/46*

Examined and approved:

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

~~Chief, Topography Section~~

Robert W. Knox
Chief, Div. of Charts
Robert W. Knox
Chief, Nautical Chart Branch
Raymond E. Gorman
Chief, Div. of Coastal
Surveys