

# 8199

*Original*

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Air Photographic Topographic

Field No. \_\_\_\_\_ Office No. T-8199

### LOCALITY

State North Carolina

General locality Brunswick County

Locality Mary-Inlet, N. C. Holden Beach N. C.

## DATA RECORD

T-8199

Quadrangle (II):

Project No. (II):

Mary Inlet  $7\frac{1}{2}$  minute Quadrangle

CS-275

Field Office:

Chief of Party:

Myrtle Beach, S. C.

F. L. Gallen

Compilation Office:

Chief of Party:

Baltimore, Maryland

Fred. L. Peacock

Instructions dated (II III):

Copy filed in Descriptive  
Report No. T- (VI)Jan. 23, July 15,) 1942  
Oct. 19, 23, 27 ;)Completed survey received in office: *June 25, 1943*Reported to Nautical Chart Section: *June 26, 1943*Reviewed: *9/10/43*

Applied to chart No.

Date:

Redrafting Completed: *Jan. 4, 1944*Registered: *12/45*Published: *1944*

Compilation Scale: 1:20,000

Published Scale: *1:31,680*

Scale Factor (III): None

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

Reference Station (III): Hewett, 1934

Lat.:  $33^{\circ} 57' 27.182''$  837.5  
(1011.1)mLong.:  $78^{\circ} 18' 36.172''$  928.8  
(611.8)m

Adjusted

~~Unadjusted~~State Plane Coordinates (VI): *North Carolina, (single zone)*  
*No plane coordinates available for Ref. Station Hewett*

X =

Y =

Military Grid Zone (VI) " B "

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
8132 to 8134	4/1/42	12:52p.m.	1:20,000	0.4' below M. L. W.
8135 to 8137	4/1/42	1:08p.m.	1:20,000	0.5' below M. L. W.
8150 & 8151	4/1/42	1:30p.m.	1:20,000	0.6' below M. L. W.

Tide from (III): Predicted tables, Reference Station, Charleston, S. C. with time corrections for Shallotte Inlet (Bowen Point), N. C.

Mean Range: 4.6' Spring Range: 5.4'

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

Field Inspection <sup>and contouring</sup> by: A. M. Jylha date: April, 1943

Field Edit by: L. Levin date: July, 1943

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

Same as date of photographs

Projection and Grids ruled by (III) Washington Office date: Jan., 1943

" " " checked by: Washington Office date: Jan., 1943

Control plotted by: J. Edward Deal, Jr. date: April 10, 1943

Control checked by: Henry P. Eichert date: April 12, 1943

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

Detailed by: Albert C. Rauck, Jr. date: May 21, 1943  
June 19, 1943

Reviewed in compilation office by: Joseph Steinberg and J. Edward Deal, Jr. date: June 23, 1943

Elevations on Field Edit Sheet *L. Levin* checked by: date: July 29, 1943

### STATISTICS (III)

Land Area (Sq. Statute Miles): 144

Shoreline (More than 200 meters to opposite shore): 11 Statute Miles

Shoreline (Less than 200 meters to opposite shore): 17 Statute Miles

Number of Recoverable Topographic Stations established:

5 Azimuth Reference Marks established by radial intersections

15 Non-floating aids to navigation established by plane-table

Number of Temporary Hydrographic Stations located by radial plot:

Leveling (to control contours)/- Statute miles: 52

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:



FIELD INSPECTION REPORT  
QUADRANGLE T-8199  
PROJECT CS-275  
F. L. GALLEN, CHIEF OF PARTY

1. The area consists of irregular rolling land indented by a large number of streams and ravines. The highlands are sparsely timbered and have very little underbrush, and the soil is exceedingly poor and sandy. The lowlands are exceedingly brushy and more heavily timbered. Only a small portion of this area is fit for farming and the better lands are in the bottoms and valleys.

All streams have U shaped bottoms with a small gradient, and they meander considerably.

There is some doubt as to the sketching of a stream at its junction in the southcentral portion of photograph No. 8136 above a bridge (elevation 6.7 feet). The photograph is bad in this portion and good stereopsis lacking. The soil in the area is loose and sandy.

2. Field inspection is complete.

3. The photographs are typical of the area.

4. See Report for T-8200.

5. See Report for T-8200. All elevations were found correct. There was no large closing error and the usual error is less than 0.5 feet.

6. Standard equipment was used.

Considerable sketching was done in this area. All streams were located by stereopsis after some base elevations were first established and later checked in the field. The results in general were good. The accuracy of this kind of work depends entirely on the clearness of the photographs.

Marsh areas were found to be about an elevation of four feet.

11. All beacons and lights have been cut in on the photographs.

14-18. See report for T-8200.

Submitted by,

*Arnold M. Jylha*  
Arnold M. Jylha, *per JLG*  
Sr. Photogrammetric Aid.

Approved and forwarded:

*F. L. Gallen*  
F. L. Gallen,  
Chief of Party.



26 CONTROL:

Six triangulation stations, within the limits of this map manuscript, were used to control the photographs used for the area of this map manuscript. These six triangulation stations were established in 1932 and 1934 and recovered in 1942. They are:

SHALLOTTE, 1934  
BOON, 1932  
LOCKWOOD, 1934  
HEWETT, 1934  
TAR, 1934  
HOLDEN, 1934

Field inspection stations were established by the field inspection party at well-defined points near four of these six triangulation stations. This assured accurate picking of these horizontal control stations on the office photographs and are shown with small circles in orange ink on the reverse side of the map manuscript. They are:

BOON, 1932  
TAR, 1934  
HOLDEN, 1934  
LOCKWOOD, 1934

One station, namely "TOLLY, 1934", lies just outside the east limits of this map manuscript.

In addition to the control mentioned above, there are ten other triangulation stations shown within the limits of this map manuscript. This compilation office received no data regarding their recovery or use as control. These stations were evidently used as control by the parties responsible for the 1935 survey and compilation. They are:

CHADWICK, 1934  
FISH, 1923  
U. S. E. R. M. "15", 1934  
U. S. E. R. M. "14", 1934  
\*I. W. Bn. "34", 1934 (lighted)  
\*I. W. Bn. "45", 1934  
\*I. W. Bn. "35", 1934 (lighted)  
\*I. W. Bn. "32", 1934 (lighted)  
\*I. W. Bn. "30", 1934 (lighted)  
\*I. W. Bn. "51", 1934 (lighted)

*All beacons have been moved  
since 1934*

\*These stations were evidently non-floating aids to navigation that were used as control for the 1935 compilation.



27 RADIAL PLOT:

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

28 DETAILING:

Sufficient field inspection data was provided for interpretation of the photographs used for this map manuscript.

This compilation office was provided with a red-line compilation, on celluloid, of a survey made in 1935, covering approximately two thirds of the land area of this map manuscript.

After numerous well-defined points had been determined by radial intersections, it was found necessary to relocate most of the detail shown on this red-line compilation.

New roads were added and roads relocated since 1935, were corrected. Tree lines were changed due to additional growth and cleared areas. Buildings were added or deleted according to the field inspection, and visual examination of the office photographs.

Low ground and swamp areas were detailed after stereoscopic examination of the office photographs in conjunction with the field inspection. Areas designated as swamp or wet weather swamp by the field inspection party, or determined by careful stereoscopic examination, were shown by the conventional swamp symbol and labeled. The low ground areas designated by the field inspection party, or delineated by stereoscopic examination, were shown with an open water lining symbol, without the grass tufting, as was recommended in the supplemental instructions for Projects CS-275, CS-284, and CS-285, dated October 27, 1942. These areas were labeled with the letters "L.G.".

Drainage, as provided by the field inspection party, was carefully checked by stereoscopic examination, and found to be in good agreement.

29 SUPPLEMENTAL DATA:

Portions of the previous topographic surveys, by the U. S. Coast & Geodetic Survey, cover portions of this map manuscript.

Survey Number	Dated	Scale
T-672	1857	1:10,000
T-725a	1859-60	1:10,000
T-4096	1924	1:20,000
T-4097	1924	1:20,000

\*There are 15 nonfloating aids to navigation along the Intracoastal Waterway on this quadrangle. These aids were cut in by the planetable intersection method using the photographs as planetable sheets. The results of this work have been compared with the sketches of the aids drawn on the recovery cards and are in very close agreement. All the intersections obtained on the photographs are relatively accurate. Ordinarily this method would not be acceptable but because the photographs do not indicate excessive tilt, the intersections are satisfactory, the distances from setups to the intersected objects are short, the setup points are clearly identifiable points on the photographs and the transfer from the photographs to the map manuscript was accurately performed, it is believed that the positions of these aids are sufficiently accurate to be retained as recoverable topographic stations.

S.M.



29 SUPPLEMENTAL DATA: (cont'd)

These surveys were not available to this compilation office, therefore no comparison could be made with this map manuscript.

30 HIGH WATER LINE:

The stage of tide, of all the photographs used in the process of detailing this map manuscript, was computed and found to be at, or near, mean low water.

The high water line was delineated from data provided by field inspection party and careful stereoscopic examination of the office photographs. Some changes were made in the high water line of the 1935 compilation.

*The shoreline on the manuscript was very incomplete as received from the field. It has been completed by the reviewer*

31 LOW WATER AND SHOAL LINES:

Low water lines have been detailed by office examination of the photographs, with the aid of field inspection.

In the Shallotte River, numerous shoal lines representing mud shoals are shown on this map manuscript. These have been interpreted from examination of the office photographs.

32 DETAILS OFFSHORE FROM THE HIGH WATER LINE:

Fender piling in the Intracoastal Waterway was noted on the field inspection and was easily discernible on the office photographs. This was detailed and labeled.

33 WHARVES AND SHORELINE STRUCTURES:

Several piers or wharves, noted by the field inspection, and discernible on the office photographs, along the north shore of the Intracoastal Waterway, were detailed and labeled. At a point of land known as Tar Landing, in the Shallotte River there are two structures that appear to be piers on the office photographs. These were also detailed and labeled.

34 LANDMARKS AND AIDS TO NAVIGATION:

15 non-floating aids to navigation appear on this map manuscript, along the Intracoastal Waterway. These lights and beacons were located by plane table by the field inspection party, and were shown on field inspection photographs 8136 and 8133, and on the overlap of the black and white print of the 1935 compilation covering the area of Survey No. T-8200.

*The plane table work was made directly on the manuscript so that the original was transferred to the map manuscript before the position could be seen. This was not planable location but identification and the 524 descriptions have been removed from the files for all of the aids for which this identification is not exact. The portion retained on the sheet as the best available. 8248 12/45*



### 34 LANDMARKS AND AIDS TO NAVIGATION: (cont'd)

These aids to navigation were transferred from the field inspection photographs to this map manuscript by orienting the field inspection photographs to numerous well-defined detail points in the vicinity of the aids to navigation. One of the fifteen aids to navigation was transferred from the black and white print of the 1935 compilation covering the area of Survey No. T-8200 by matching common polyconic projections.

Two other aids to navigation, not shown on this map manuscript, located in the vicinity of the junction of Shallotte Inlet and the Intracoastal Waterway, have been indicated, as being down or destroyed, by notation and deletion on the black and white print of the 1935 compilation covering the area of Survey No. T-8200.

Examination of U. S. Coast & Geodetic Survey Chart No. 835, revealed that these two aids to navigation are:

Beacon "75" (Black daymark, green reflector)  
Gp. Fl. R (2) ev. 4 Sec. "76" (Lighted Beacon)

Only Beacon "75" appears in the U. S. Coast Guard Light List of the Intracoastal Waterway of the United States, edition of 1942. The name and description of the lighted Beacon "76" is not listed in the 1942 edition and will probably be found in the 1943 edition.

*Bn "75" + Lt "76" have been rebuilt in their original position MVR*

It is assumed that the field inspection party has forwarded to the Washington Office, Form No. 567 for the deletion of these two aids to navigation. *no record here*

The fifteen non-floating aids to navigation shown along the Intracoastal Waterway on this map manuscript are:

Cape Fear -- Little River Light	"50"	(Double fl. R., 4 Sec.)
Cape Fear -- Little River Light	"51"	(Fl. W. 4 Sec.)
Cape Fear -- Little River Light	"52"	(Double Fl. R., 4 Sec.)
Cape Fear -- Little River Beacon	"53"	(Black Daymark, green reflector)
Cape Fear -- Little River Beacon	"55"	( " " )
Cape Fear -- Little River Beacon	"57"	( " " )
Cape Fear -- Little River Light	"59"	(Fl. W. 4 Sec.)
Cape Fear -- Little River Beacon	"61"	(Black Daymark, green reflector)
Cape Fear -- Little River Beacon	"63"	( " " )
Cape Fear -- Little River Beacon	"65"	( " " )
Cape Fear -- Little River Light	"67"	(Fl. W. 4 Sec.)
Cape Fear -- Little River Beacon	"69"	(Black Daymark, green reflector)
Cape Fear -- Little River Beacon	"71"	( " " )
Cape Fear -- Little River Beacon	"73"	( " " )
*Fl. ev. 4 Sec. "71A"		

34 LANDMARKS AND AIDS TO NAVIGATION: (cont'd)

\*No complete name and description is available to the compilation office. This light is referred to as Cape Fear -- Little River Light "72" (Double Fl. R. 4 Sec.) in the U. S. Coast Guard Light List of the Intracoastal Waterway of the United States, edition of 1942. The name of this light has evidently been changed and will probably be found in the 1943 edition.

The geographic positions of these fifteen non-floating aids to navigation have been scaled by the compilation office and are herewith submitted, with descriptions, on Form No. 567 and Form No. 524.  
*Form 567 filed under Chart Letter 404, 1943.*

35 HYDROGRAPHIC CONTROL:

The fifteen non-floating aids to navigation, listed in paragraph 34, may be used as partial hydrographic control, for any future hydrographic survey.

36 LANDING FIELDS AND AERONAUTICAL AIDS:

There is no data available to the compilation office as to landing fields or aeronautical aids within the limits of this map manuscript.

37 AZIMUTH REFERENCE MARKS:

Five azimuth reference marks, established by radial resections, fall within the limits of this map manuscript. They are:

BOON AZIMUTH (R. M. 2)	1943
HEWETT AZIMUTH (R.M.1)	1943
HOLDEN AZIMUTH (R.M.1)	1943
LOCKWOOD AZIMUTH (R.M.1)	1943
TAR AZIMUTH (R. M. 1)	1943

The geographic positions of these five azimuth reference marks have been scaled and are herewith submitted, with descriptions, on Form No. 524.

38 DISCREPANCY OVERLAY:

A discrepancy overlay, prepared during the process of detailing, accompanies this map manuscript. On it are notes calling attention of the field edit party to differences of interpretation of field inspection, between two units of the field inspection party. A set of general notes have

39 GEOGRAPHIC NAMES:

A geographic name list, showing undisputed, disputed and recommended geographic names has been prepared to accompany this descriptive report. The geographic names which fall in the area of the 1935 compilation were field inspected in April 1942 and the name data forwarded to the Washington Office in May, 1942.

The geographic names in the area outside the area of the 1935 compilation are shown on a map of Brunswick County, North Carolina State Highway and Public Works Commission, submitted to the compilation office by the field party.

40 HORIZONTAL ACCURACY:

The horizontal accuracy of this map manuscript is believed to be within the limits set forth for well-defined points and less well-defined points of detail, in the instructions for CS-275, paragraph 36, dated January 23, 1942.

41 RECOMMENDATIONS FOR FUTURE SURVEYS:

The planimetric detail as presented on this map manuscript is believed to be complete, including all field inspection data and careful interpretation of the photographs where field data was missing.

42 JUNCTIONS:

The following complete junctions have been made with this map manuscript:

To the North -- Survey No. T-8192.

To the East -- Survey No. T-8198.

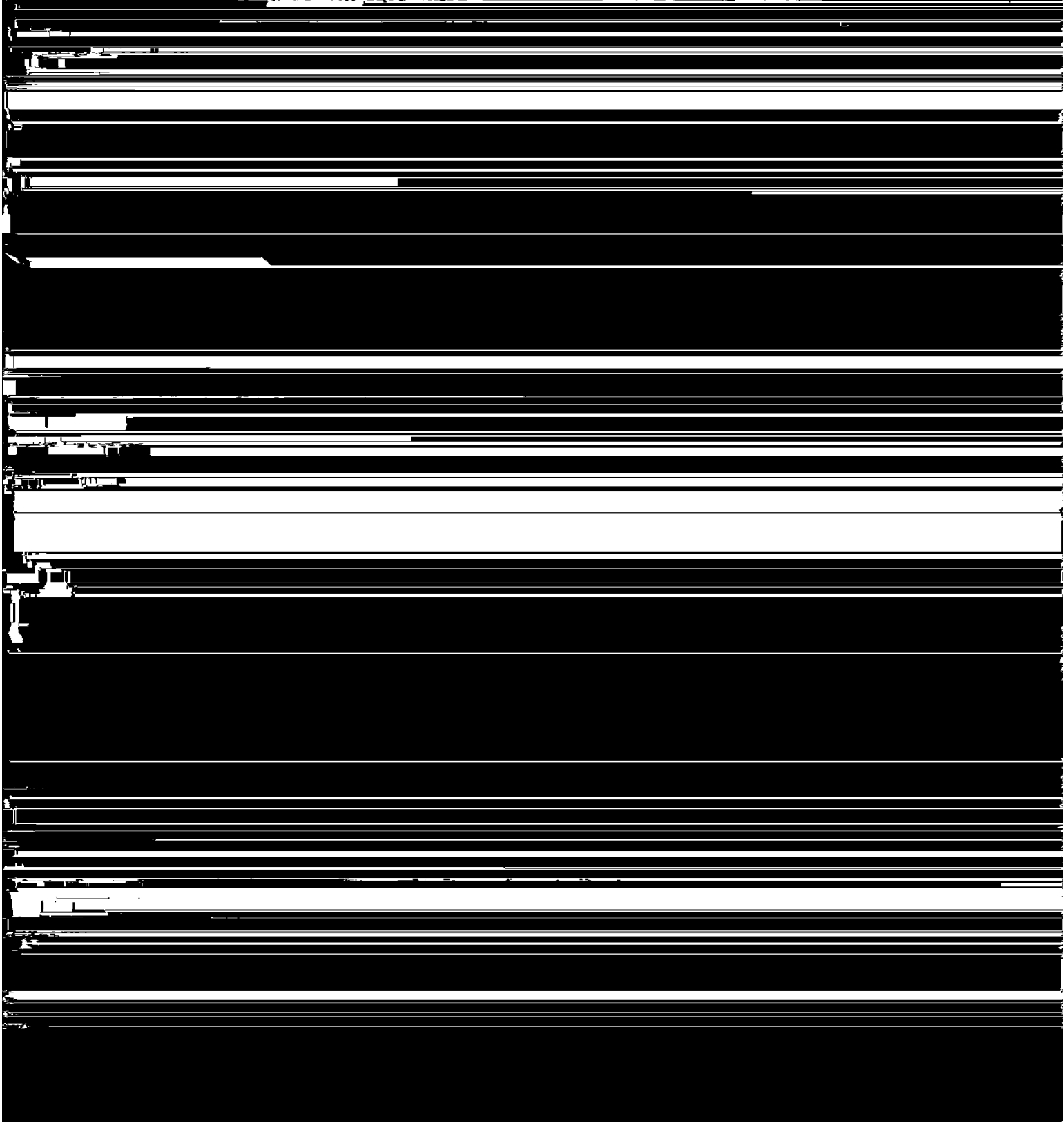
To the West -- Survey No. T-8200.



43 REMARKS: (cont'd)

The Lockwood Folly River meanders through the northeast corner of this map manuscript and is bounded by cypress swamp and salt marsh.

To the south lies the Intracoastal Waterway between Lockwood Folly



Respectfully submitted,  
June 22, 1943

Albert C. Rauck, Jr.  
Albert C. Rauck, Jr.  
Sr. Photogrammetric Aid

Map Manuscript, Discrepancy  
Overlay and Descriptive Re-  
port, reviewed and Compila-  
tion of Map Manuscript  
Supervised by:

Joseph Steinberg  
Joseph Steinberg  
Asst. Photogrammetric Eng.

and

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

Approved and Forwarded:  
June 25, 1943

Fred. L. Peacock  
Fred. L. Peacock, Commander  
U. S. Coast & Geodetic Survey  
Officer-in-Charge  
Baltimore Field Office

LIST OF GEOGRAPHIC NAMES

Undisputed

- ✓ Boones Neck Road
- ✓ Fulford
- ✓ H. & L. Road
- ✓ Holden Beach Road
- ✓ Little Doe Creek
- ✓ Oak Grove
- ✓ Pamlico Bridge
- ✓ Red Bug
- ✓ Sandy Branch
- ✓ Sharron Creek
- ✓ Williams Branch

Disputed

Disputed

- Lockwood Folly River
- Bachelor Swamp

Recommended

- ✓ Lockwoods Folly River (V. 56 B)
- ✓ Pamlico Creek

Above names are on northern part of  
quadrangle, and do not include names  
of earlier report (No. 21 sheet)

FIELD EDIT REPORT  
T-8199  
PROJECT CS-284

46. The field edit was accomplished by visual inspection, making all corrections, additions, and deletions 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 and crosses	RED
Deletions	GREEN
Contours	BROWN
Civil boundaries	VIOLET

47. The position and amount of detail is believed to be complete and adequate. *incomplete shoreline?*
48. Horizontal accuracy tests were run in quadrangles Nos. T-8198 and T-8192.

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

Submitted by

*Louis Levin part 24.*  
Louis Levin  
Photogrammetric Aid

Approved and Forwarded

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



T-8199

No. 1

Remarks.

Decisions

1	The name assigned originally to this quadrangle is	U.S.G.B.
2	MARY INLET. However, on 8/21/42 the U.S. Board on Geograph-	
3	ical Names approved the form MARYSV INLET, and the U.S.	
4	G. S. has been asked to approve a change in the title	
5	to agree with this ruling of the Board. <i>(Now Holden beach)</i>	
6		Road Maps
7		339782
8		"
9		"
10		"
11		U.S.G.B.
12		"
13		"
14		"
15		340782
16		339782
17	Not Mary Inlet: see above	339783 U.S.G.B.
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25	<i>Not shown</i>	"
26	Not Shallotte Point	" U.S.G.B.
27	Not Little Shallotte River	"



# GEOGRAPHIC NAMES

Survey No. T-8199

*Holden Beach*

MARYS INLET quadrangle

1	Name on Survey	A	B	C	D	E	F	G	H	K	
	<u>Intracoastal Waterway</u>	✓									1
	<u>Brunswick County</u>	✓									2
	<u>Lockwoods Folly Twp</u>	✓									3
	<u>Shallotte Twp</u>	✓									4
	<u>U.S. Highway No. 17</u>	✓									5
	<u>Holden Ferry</u>	✓									6
	<u>Holden Beach</u>	✓									7
	<u>Secession</u>	✓									8
	<u>Sand Hill Landing</u>	✓									9
	<u>Lockwoods Folly River</u>	✓									10
	<u>Holden Beach Road</u>	✓									11
	<u>Pamlico Bridge</u>	✓									12
	<u>Pamlico Creek</u>	✓									13
	<u>Little Doe Creek</u>	✓									14
	<u>Sandy Branch</u>	✓									15
	<u>Marys Inlet</u>		out								16
	<u>Big Beach</u>	✓									17
	<u>Boones Neck</u>	✓									18
	<u>Boones Landing</u>	✓									19
	<u>Boones Channel</u>	✓									20
	<u>Long Point</u>	✓									21
	<u>Sage Island</u>	✓									22
	<u>Shallotte River</u>	✓									23
	<u>Windy Point</u>	✓									24
	<u>Monks Island</u>		T- 8200								25
	<u>Bowen Point</u>	✓									26
	<u>Shallotte Creek</u>	✓									27

T-8199

No. 2

Remarks

Decisions

1		339783
2		"
3	Note that the Brunswick Co. Map name sheet applies name to westward of Sheet No.21. Follow the former.	"
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13		"
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# GEOGRAPHIC NAMES

Survey No. T-8199

2	Name on Survey	<div>On Chart No.</div> <div>On previous survey No.</div> <div>On U. S. quadrangle Maps</div> <div>From local information</div> <div>On local Maps</div> <div>P. O. Guide or Map</div> <div>Rand McNally Atlas</div> <div>U. S. Light List</div>									
		A	B	C	D	E	F	G	H	K	
✓	Shell Point	✓									1
✓	Monogram	✓									2
✓	Red Bug	✓									3
✓	Sivey Town	✓									4
✓	The Swash	✓									5
✓	Middle Dam Creek	✓									6
✓	The Millpond	✓									7
✓	Oak Grove	✓									8
✓	Boones Neck Road	✓									9
✓	Fulford	✓									10
✓	Sharron Creek	✓									11
✓	Williams Branch	✓									12
✓	H. & L. Road	✓									13
✓	ROYAL OAK RD.	✓									14
											15
											16
											17
											18
											19
											20
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											27



## 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 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.

## 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:

### 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, drive-ways, and numerous other points identifiable on the photographs.

### COMPILATION OF MANUSCRIPT

Compilation on the map manuscripts by radial plot methods (celluloid hand templets) 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.

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8199

MARY INLET 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

Horizontal accuracy tests were run in quadrangles Nos. T-8198 and T-8192. See descriptive report T-8198 for information on the test in that area.

The closest vertical accuracy test was run in quadrangle No. T-8198.

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-672	1:10,000	1857
T-4096	1:20,000	1924
T-6212a&b	1:10,000	1934
T-6494	1:20,000	1936 (graphic control)
T-6495		

Comparison with Nautical Charts Nos. 835, 1236.

The manuscript had 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:

Nautical charts were in good agreement with the map manuscript. Mary Inlet is now closed.

(The map manuscript has been applied to Chart #1236 since review.)

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 Sept. 1943 By M. O. Parker  
under direction of D. H. Benson per D.M.

Inspected by B. G. Jones 12/6/45

Examined and approved:

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

~~Chief, Topography Section~~

Robert W. Knox  
Chief, Div. of Charts  
Nautical Chart Br.  
Raymond B. Egan  
Chief, Div. of Coastal  
Surveys