

5242

U. S. COAST & GEODETIC SURVEY
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Air
Photo.

Topographic }
Hydrographic } Sheet No. Reg. No. 5242

Form 504
Rev. Dec. 1933

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Field No. 42

State North Carolina

LOCALITY

Intracoastal Waterway

WEST OF CAPE FEAR RIVER

Lockwoods Folly Inlet to Shallowater Inlet

DAVIS CREEK WEST TO SAUCEPEN CREEK

1934

CHIEF OF PARTY

E. H. KIRSCH

U. S. GOVERNMENT PRINTING OFFICE: 1934

5242

Applied to Ch. 1236. Oct 1937 - P.B.L.

PHOTO NOS.
452 through 478

DATE
January 31, 1933

TIME
11:23 A.M.

PROJECTION BY

L. C. Ripley

7-2-34

PROJECTION CHECKED BY

E. H. Kirsch

7-3-34

CONTROL PLOTTED BY

F. H. McBeth

7-5-34

CONTROL CHECKED BY

T. P. Mitchell

7-6-34

CONTROL PLOTTED ON PHOTOS BY

U. F. Richardson

CONTROL CHECKED ON PHOTOS BY

E. S. Ethridge

W. W. King

TOPOGRAPHY TRANSFERRED BY

T. P. Mitchell

TOPOGRAPHY CHECKED BY

E. J. Anderson

SMOOTH RADIAL PLOT BY

T. P. Mitchell

7-6-34

7-16-34

RADIAL PLOT CHECKED BY

L. C. Lande

SCALE PLOT BY

L. C. Lande

7-2-34

DETAIL INKED BY

T. P. Mitchell

8-29-34

AREA DETAIL INKED: 45.7 Sq. Statute Miles (land area).

LENGTH OF COASTLINE: 13.2 Statute Miles.

LENGTH OF SHORELINE: 22.2 Statute Miles (Over 200 meters wide).

LENGTH OF STREAMS: 36.2 Statute Miles (Less than 200 meters wide).

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 42

REGISTER NO. 5242

State North Carolina

General locality Intracoastal Waterway
~~West of Cape Fear River~~

Locality Lockwood's Folly Inlet to Shallowater Inlet
~~Davis Creek West to Sawopen Creek~~

Scale 20,704 v. Date of survey Photographs- January 31, 1933, 19

Vessel Air Photo Compilation Party No. 21, Charleston, S. C.
Compilation- 8-29-34

Chief of party E. H. Kirsch

Surveyed by See data Sheet in Descriptive Reports

Inked by T. P. Mitchell

Heights in feet above 0.0.0.0 to ground to tops of trees

Contour, Approximate contour, Form line interval 0.0.0 feet

Instructions dated November 10, 1933, 19

Remarks: None

GENERAL INFORMATION

Statistics

The total land area covered by this sheet is 45.7 square statute miles. The total length of the outside coast shoreline is 13.2 statute miles. There are 22.1 statute miles of river shoreline more than 200 meters from nearest opposite shore and 36.2 statute miles of rivers and sloughs less than 200 meters wide. The figure 36.2 includes the Intracoastal Waterway (Canal) which is approximately 50 meters wide and 13.5 statute miles long.

General Topographic Information

The following topographic notes are supplementary to the report made by the field inspection party. The general description of this sheet and adjoining sheets of this series is of low coastal plain type with very little relief.

The coastal shoreline in general is very regular being broken only by a few small rivers. There are large sand bars that are exposed at low tide. Just inside the coast shoreline we find a strip of high ground from 75 to 400 meters wide which has been classed as beaches and sand dunes. The dune area is interspersed with patches of slightly marshy ground on which grows grass and scrub bushes.

Between the dune area and the high ground line of the mainland we have a vast area of low ground which consists of marsh, mud flats mixed with sand, numerous islands and small sloughs partially covered at high water.

In this area is the Intra Coastal Waterway, a mechanically constructed canal approximately 50 meters wide which is shown by two parallel dashed lines except, where the canal bank is the high water line.

The mainland in general has very little relief and consists of cultivated, timber and grass land represented by symbols taken from the Topographic Manual. The wooded area is about equally divided with coniferous and deciduous trees, however the portion East of the Lockwood Folly River appears to be rather sandy where more deciduous trees appear.

Report:

The general report is listed under "General Topographic Information".

Photographs

Photographs from one flight only was used in the compilation of this sheet. The 400 flight with photos beginning with No. 452 and ending with No. 478. This flight was made January 31, 1933 at 11:23 A.M., parallel to and approximately 1100 meters North of the coast shoreline. All photographs except No. 462 had very little distortion and scale fluctuation, so

little trouble was had in transferring the topography. All photos were taken with a standard U. S. Army Air Corps 5-lens camera.

CONTROL

Source

Triangulation by C. D. Meaney, 1932 and K. G. Crosby, 1934 all stations on N. A. 1927 datum.

Errors

No errors were found in the plotting of control.

Discrepancies:

No control stations established by other organizations were used in the compilation of this sheet.

Method

The standard radial line method was used as described in the U.S.C. & G.S. Notes on the Compilation of Planimetric Line Maps from 5-lens Aerial Photographs.

Adjustment of Plot:

Some difficulty was had in transferring detail to this sheet due to the fact that most of the photos were blurred, however the objects on the photos that were very indistinct were traced in pencil on the photos then transferred to the celluloid. Some of the roads were very faint due to heavy timber but with careful adjusting they were traced within the limited error.

Interpretation:

The low water line along the outside coast is probably farther from the high water line than is shown but since these photos were taken at approximately high tide the actual low water line is submerged.

The low water line of the Lockwood-Folly, Shallotte and Little Shallotte Rivers is shown by ~~dashed~~ *dotted* lines where the photos were clear.

The high ground line along certain marshy sections of the above named rivers, could not be exactly defined so the broken marsh lines were used to indicate the boundary of the marsh.

The Intracoastal Waterway Canal which is described under "General Topographic Information", was transferred exclusively from "B" prints where the distortion and scale fluctuation was very little. Extreme care was taken in transferring this canal and it is felt that no

appreciable error will be found in the location shown on this sheet.

North of Lat. $33^{\circ} 56'$ and East of Long. $78^{\circ} 18'$ there appears on the photos what we have classed as depression or ^{Bay} ponds. These ^{Bay} ponds are about one to three feet lower than the surrounding country. Tall grass, bushes and trees grown in these ^{Bay} ponds and at certain seasons they are filled with water. This information was furnished by the field inspection party - 1934.

Improved roads are represented by a double dashed line while minor roads and trails are shown by a single dash line.

Not all minor trails and buildings have been shown as they could not be clearly seen on the photos. All symbols were taken from the topographic manual except those more fully described previously in this report.

Information from other Sources:

Field inspection by Lt. B. H. Rigg and Lt. E. H. Kirsch, 1934. *Graphic control surveys Reg. Nos. T-6212 (a) and (b); T-6211 (b)*

Conflicting Names

There are no conflicting names on this sheet.
(See Review.)

Comparison with other surveys:

A comparison with the U.S.C. & G.S. Charts Nos. ³²⁵⁴ ~~2354~~ and 1236 has been made. *No U.S.G.S. Sheets of this area are available.*

^{Bacon} ~~Beacon~~ Inlet shown on above charts is reported as entirely closed. *This name will not be shown on the compilation map.*

Junctions:

Satisfactory junctions have been made with:

East - Sheet No. 41, Reg. No. 5341
West - Sheet No. 43, Reg. No. 5243

Landmarks

A list of landmarks for charts and marked topographic stations will be submitted with A. C. S. No. AE, AF, AG, by Lt. B. H. Rigg, Chief of Party, 1934. *Reg Nos. T-6212 (a) and (b); T-6211 (b).*

RECOMMENDATION FOR FURTHER SURVEYS

The compilation of this sheet is believed to be accurate, thorough and complete for charting purposes and no additional surveys are necessary. A probable error of not more than .3 mm may be found in detail of importance for charting and not over .6 mm. for detail of lesser importance.

Assisted by:

E. H. Kirsch

E. H. Kirsch,
Chief of Party.

Submitted by:

T. P. Mitchell

T. P. Mitchell.

Date Feb 21, 1935

GEOGRAPHIC NAMES

Survey No. T-5242Chart No. 1236, 3Diagram No. 1236

Approved by the Division of Geographic Names, Department of Interior. *

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

| Status | Name on Survey | Name on Chart | New Names in local use | Names assigned by Field | Location |
|--------|---|-----------------------------|---------------------------|----------------------------|----------|
| | Shallotte Inlet. | do | | | |
| | Lockwood Folly Inlet | do | Lockwoods Folly Inlet. | ① | |
| | Sheep Island | do | | | |
| | Lockwood Folly River | do | Lockwoods Folly River. | | |
| | Mary Inlet. | do | | | |
| | Shallotte River | do | | | |
| | Little Shallotte ^{Creek} River | do | | | |
| | Long Point | do | | | |
| | Bowen Point | do | | | |
| | Saucepan Creek | do | | | |
| | Howell Point | do | | | |
| | Davis Creek | do | | | |
| | Spring Creek | do | | | |
| | Brantley Island | do | | | |
| | | cont'd from later page | | | |
| | | Turkey Trp Swamp | | | |
| | | Genoes Point | ✓ | | ✓ |
| | <u>Pinner Point</u> | PINNERS POINT | ✓ | | ✓ |
| | | | | | |
| | | | | | |
| | | names approved 9/21/35 | | | |
| | | K.T. Adams | | | |

GEOGRAPHIC NAMES

Date. April 22, 1935

Survey No. T-5242

Chart No. 1236

Diagram No. _____

Approved by the Division of Geographic Names, Department of Interior. *

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

| Status | Name on Survey | Name on Chart | New Names in local use | Names assigned by Field | Location |
|--------|---|----------------------------|-------------------------------------|-------------------------|------------|
| | SHALLOTTE | | | | ✓ |
| ✓ | SHALLOTTE INLET | <i>Shalotte</i> | | | ✓ |
| ✓ | SPRING CREEK | | | | ✓ |
| | LONG POINT | " | (being referred to local interests) | | |
| ✓ | MARY INLET | " | U.S.G.B. = Marys | | ✓ |
| ✓ | LOCKWOODS FOLLY RIVER | " | | | ✓ |
| ✓ | LOCKWOODS FOLLY INLET | " | | | ✓ |
| ✓ | SHEEP ISLAND | " | | | ✓ |
| ✓ | HOWELL POINT | " | U.S.G.B. = Howells | | ✓ |
| ✓ | DAVIS CREEK | " | | | ✓ |
| ✓ | SAUCEPAN CREEK | " | | | ✓ |
| ✓ | BRANTLEY ISLAND | " | | | ✓ |
| ✓ | BOWEN POINT | " | | | ✓ |
| ✓ | SHALLOTTE River | " | | | ✓ |
| ✓ | Little Shalotte Creek | " | U.S.G.B. = Shalotte Cr. | | ✓ |
| | Bacon Inlet <i>closed</i> | " | | | ✓ |
| | Add the following names from Engineer's Blue Prints name on Blue print | | 25694-5-6 | | |
| + | Little Saucepan Creek | Little Saucepan | | | ✓ |
| | | Old Mill Creek | ✓ | x | ✓ |
| | | Gibbs Creek | ✓ | * | ✓ |
| | | Holden Beach | ✓ | x | 11/11/35 ✓ |
| | | Stanbury Creek | ✓ | names approved | 9/21/35 |
| | | cont'd (see previous page) | | K.T. Adams | (11-120) |

Applied to chart 835 Oct. 8, 1935 HLR.

Review of Air Photo Compilation No. T-5242

Projection.

The diagonals of the projection of this compilation were tested and found to be satisfactory.

Geographic Names.

The names as shown will be accepted pending Mr. Bacon's decision. Lockwoods Folly River and Lockwoods Folly Inlet are the local names for those shown on Chart 1236 as Lockwood Folly River and Lockwood Folly Inlet, respectively.

Comparison with Other Surveys.

Charts No. 1236, 3254. Light No. 51 which appears as Triangulation Station I. W. Beacon No. 51, 1934 on this compilation does not appear on these charts. There are no other omissions noted with these charts, except the wrecks which are discussed under Old Topographic Surveys.

Old Topographic Surveys: Comparison with T-672 (1857) and T-673 (1856) shows numerous changes in the shoreline. The compilation is adequate to supersede these surveys. T-4096 (1924), T-4097 (1924) There is considerable change here since 1924, particularly at the inlets. The following detail has not been carried forward from T-4096 with the following remarks:

| | | |
|-----------------|------------|---------------------------------|
| Submerged wreck | 33° 54.8' | Not transferred to compilation. |
| | 78° 15.5' | These wrecks are not shown on |
| | | the new plane table surveys. |
| Submerged wreck | 33° 54.6' | " |
| | 78° 14.25' | |

T-6211 (b), 1934. There is good general agreement. The following described topographic stations have been transferred to the compilation from T-6211 (b) under which the descriptions are filed.

PIPE No. 1
PIPE No. 2
U.S.E. Monument 22
U.S.E. Monument 24
U.S.E. Monument 25
U.S.B.M. No. 19
B.M. No. 16

T-6212 (a), 1934. There is good general agreement between T-6212 (a) and this compilation. The following described stations have been transferred to the compilation from T-6212 (a) under which

Additional Work. 1936

July 1936 Graphic Control Surveys T 649⁵ and T 6494
have been examined. but show
no corrections or additions to this
compilation.

J. J. Jones 12/16/36

the descriptions are filed.

| | |
|-----------------------------|---------------------|
| U.S.E. Reference Mark No. 4 | Square Post on Dune |
| " " " No. 5 | |
| " " " No. 6 | S. Gable Hotel |
| " " " No. 7 | |
| " " " No. 8 | |
| " " " No. 9 | |
| " " " No. 10 | |
| " " " No. 11 | |
| " " " No. 12 | |
| " " " No. 13 | |

T-6212 (b) (1934) There is good general agreement between T-6212 (b) and this compilation. The following described stations have been transferred by the compilation party to the compilation from T-6212 (b) under which the descriptions are filed.

U.S.E. Reference Mark No. 17
U.S.E. Reference Mark No. 18

All detail shown on plane table surveys T-6212 (a); T-6212 (b); T-6211 (b) is shown on this compilation except for the magnetic declination and non-recoverable plane table stations.

The plane table descriptive reports contain a list of landmarks and discussion of comparisons between the plane table shore-line and the compilation. There were only minor differences in location of shore-line on the two surveys.

opposite page.

Additional Work 1936

Leonard A. Melson

1/3/36

Note 11/23/36 - T6494 1936, Graphic Control Survey. All detail on T6494 within the area of this compilation has been added to the compilation (supplemental) 11/25/36. except for temporary plane table stations.

1/3/36

REVIEW OF AIR PHOTO COMPILATION NO. *T-5242.*

Chief of Party: E. H. Kirseh

Compiled by: T.P. Mitchell

Project: HT 162

Instructions dated: Nov. 10, 1933

1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown ✓
on this compilation. (Par. 16a, b,c,d,e,g and i; 26; and 64)
2. Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation ✓
which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g,n)
3. Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 65; and 66 d,e) ✓
4. ~~Blue-prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28)~~ *None transmitted.*
5. Differences between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report. ✓
6. The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; 44; and 66 c,h,i) ✓
7. High water line on marshy ~~and mangrove~~ coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

See following pages concerning High water line on sand beaches transferred from T-6211(b) and T-6212(a) and (b)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Refer also to the pamphlet "Notes on the Compilation of Planimetric Line Maps from Five Lens Air Photographs."

8. The representation of low water lines, ~~reefs, coral reefs and rocks,~~ and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)

9. Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 57)
*Descriptions filed with T-6212a, and T-6211b.
T-6212b.*

10. A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60)
*Furnished with T-6212a and T-6211b
T-6212b. Descriptive Reports*

- ~~11. All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. (Par. 16c)~~
No bridges on this compilation.

12. Geographic names are shown on the overlay tracing. The accepted local usage of new names has been determined and they are listed in the report, together with a general statement as to source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U. S. G. S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k)
*No US Geological Survey Quadrangles are available for this area.
See following page for discussion of names. Dave.*

13. The geographic datum of the compilation is N.A. 1927 and the reference station is correctly noted. *and is adjusted)* ✓

14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j)

15. The drafting is satisfactory and particular attention has been given the following:
 1. Standard symbols authorized by the Board of Surveys and Maps have been used throughout ✓ except as noted in the report.
 2. The degrees and minutes of Latitude and Longitude are correctly marked. ✓

3. All station points are exactly marked by fine ✓
black dots.
4. Closely spaced lines are drawn sharp and clear ✓
for printing.
5. Topographic symbols for similar features are of ✓
uniform weight.
6. All drawing has been retouched where partially ✓
rubbed off.
7. Buildings are drawn with clear straight lines ✓
and square corners where such is the case on
the ground.

(Par. 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48)

16. No additional surveying is recommended at this time.

17. Remarks:

18. Examined and approved;

E. H. Kirsch
Chief of Party

19. Remarks after review in office:

See following pages.

Reviewed in office by: L. A. Williams
B. G. Jones

Examined and approved:

C. N. Green
Chief, Section of Field Records

L. O. Lobat
Chief, Division of Charts

H. B. Borden
Chief, Section of Field Work

G. Wade
Chief, Division of Hydrography
and Topography.