

5386

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Form 504
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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, Director

DESCRIPTIVE REPORT

Field 67

Air
Photo

Topographic

Hydrographic

Sheet No. Reg. 5386

State South Carolina

LOCALITY

~~McClellanville and Vicinity~~

McClellanville

1934-5

CHIEF OF PARTY

E. H. Kirsch

U. S. GOVERNMENT PRINTING OFFICE: 1934

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. 67

REGISTER NO. 5386

State South Carolina

General locality ~~McClellanville & Vicinity~~

Locality McClellanville

Scale 1:10,000 Photographs - Aug. 8, 1934
Date of ~~survey~~ Aug. 25, 1934, 19
Compilation - Feb. 2, 1935

Vessel Air Photo Compilation Party No. 21

Chief of party E. H. Kirsch

Surveyed by See data sheet in Descriptive report.

Inked by P. W. Hund

Heights in feet above --- to ground to tops of trees

Contour, Approximate contour, Form line interval --- feet

Instructions dated November 10, 1933, 19

Remarks: None.

PHOTOS NO.

675 through 687
84 through 94

DATE

8-25-34
8-4-34

TIME

4:35 P.M.
7:45 A.M.

PROJECTION BY

T. B. Nutting
T. B. Nutting

11-23-34

PROJECTION CHECKED BY

E. H. Kirsch
E. H. Kirsch

11-23-34

CONTROL PLOTTED BY

F. H. McBeth
F. H. McBeth

11-24-34

CONTROL CHECKED BY

P. W. Hund
P. W. Hund

11-26-34

CONTROL PLOTTED ON PHOTOS BY

L. C. Lande
L. C. Lande

November 1934

CONTROL CHECKED ON PHOTOS BY

E. J. Anderson
E. J. Anderson

November 1934

SMOOTH RADIAL PLOT BY

M. D. Crook
M. D. Crook

11-30-34

SMOOTH RADIAL PLOT CHECKED BY

P. W. Hund
P. W. Hund

12-28-34

SCALE PLOT BY

T. P. Mitchell
T. P. Mitchell

November 1934

SCALE PLOT CHECKED BY

L. C. Lande
L. C. Lande

November 1934

TOPOGRAPHY TRANSFERRED BY

P. W. Hund
P. W. Hund

2-1-35

TOPOGRAPHY CHECKED BY

R. G. Hickson
R. G. Hickson

3-18-35

DETAIL INKED BY

P. W. Hund
P. W. Hund

2-2-35

H. W. Langley
H. W. Langley

12-29-34

AREA DETAIL INKED: 27.8 Sq. St. Miles.

LENGTH OF SHORELINE: 4.6 St. Miles (Over 200 meters wide)

LENGTH OF STREAMS : 67.2 St. Miles (Less than 200 meters wide)

LENGTH OF COASTLINE: None.

GENERAL INFORMATION

Statistics:

The total area covered by this sheet is 27.8 Sq. St. miles. The Inland Water Route divides the sheet almost into two equal parts, crossing from about the southwest corner to the northeast corner. No Coastal shore line appears on this sheet and there are only a few miles of streams more than 200 meters wide - 4.6 St. miles of shoreline. There are numerous small creeks, sloughs and branches - a total of 67.2 St. miles as measured along the center-line of the streams.

Report:

The area included in this compilation is all of the low coastal plain type with very little relief. The area shown Northwest of the Inland Water Route is almost entirely high ground; approximately one half of which is used for farming purposes, while the remainder is heavily wooded. The area shown southeast of the waterway is almost entirely marsh land with only a very few spots of high ground some of which are the result of the dumping of spoil deposited when dredging the Inland Water Route.

Photographs:

This sheet was compiled from photographs of two flights. The 600 flight with photos 675 through 687 were taken on August 25, 1934 at 4:35 P.M. 2 hours and 23 minutes after low tide. The other flight with photos 84 through 94 were taken on August 4, 1934 at 7:45 A.M. 1 hour and 25 minutes before low tide. All photographs were taken with a five lens camera, Army Air Corps type No. T3A H U I 33, operated by the Aero Service Corp. of Philadelphia, Pa.

CONTROL

Sources:

The control used in the smooth radial plot for this compilation was established by C. D. Meaney, 1932, K. G. Crosby, 1934 and B. H. Rigg, 1934 and the State of South Carolina 1934.

G. C. Sheets "JJ" Reg. No. T-6293 a, "KK" Reg. No. T-6293 b. Lt. Rigg, 1935. Control established by Meaney and Crosby has been adjusted to N. A. 1927 datum. That established by Rigg and the State of S.C., is unadjusted to N. A. 1927 datum.

Errors:

No errors were found in plotting control.

Discrepancies:

No discrepancies were found in the control in the area covered by this compilation.

Remarks:

2

The following control stations were not used in the radial plotting or the compilation of this sheet:

JUNCTION - CLUBHOUSE & DUPREE CREEK BN. 15, SKRINE CR. BN. 10, SKRINE CR. BN. 11, SKRINE CR. BN. 9, Since these beacons were removed before the photographs were taken and consequently could not be plotted on the photographs.

CT-153, CT-155, CT-156. These stations were not field inspected and could not be plotted on the photographs.

Station BAY was spotted on the photographs but the field inspection seemed to be poor, since it did not coordinate with the rest of the control used in the smooth radial plot.

COMPILATION

Method:

The standard radial line method was used as described in the U. S. Coast and Geodetic Survey notes on the Compilation of Planimetric Line Maps from five lens Aerial Photographs.

Adjustment of Plot:

No difficulty or adjustment was necessary in the plot.

Interpretation:

Little difficulty was encountered in transferring detail to the sheet. All the photographs were clear as to detail and had little or no distortion due to tilt. In some few places in heavily timbered areas the roads could not be followed, but in no place where there were highways of importance was this condition found.

The symbols used in compiling this sheet were taken from the topographic manual.

Several areas, on either side of the Inland Water Route, are shown sanded, since these areas are mostly sand deposited by the dredges in the digging of the waterway.

In the area covered by the town of McClellanville only the roads are shown since it would be impossible to show all the buildings and trees in such a manner that the detail would be clear.

The high water line of the channel from the Inland Water Route to the town of McClellanville was taken from the topo sheet JJ Reg. No. 7-6293^a, since this has been dredged since the photographs were taken and they no longer give a true picture of this area.

Information from other Sources:

Field inspection by Lt. B. H. Rigg, 1934-5 and Lt. E. H. Kirsch, 1934-5. G.C.S. "KK" Reg. No. 7-6293^b, "JJ" Reg. No. 7-6293^a Lt. B. H. Rigg, 1935.

These poles have been transferred from T-6292 a and
shown as recoverable stations. to the compilation

Lam

6/26/35.

* Two landmarks have been recommended, one is given in the
descriptive report T-6293 a; the other in T-6293 b. These
landmarks have not been submitted on Form 967 however
These are shown on the compilation as in Refuge 1934 and
described station Bird (a) (100 ft tower) Lam

(50 ft tower)

6/26/35.

Conflicting Names:

There are no conflicting names on this sheet

Remarks

(See opposite page)

~~Two topographic stations have been plotted on this compilation marked N. Pole and S. Pole. They are the poles on the North and South bank of the Inland Water Route. The telephone line running between McClellanville and Cape Romain Lighthouse. The wires are laid in a submarine cable between these two points.~~ [↑]

Numerous Beacons and Eng. R.M. are shown with black circles on the celluloid sheet and named accordingly on the overlay sheet.

COMPARISON WITH OTHER SURVEYS

Junctions:

Satisfactory junctions were made with the following:

Sheet No. 63	Reg. No. 5382	on the North
68	5387	East
69	5388	South
70	5389	West

Landmarks:

*(See opposite page *)*

A full list of landmarks and recoverable stations for this area has been submitted with G.C.S. "JJ" Reg. No. 7-6293 a , "KK" Reg. No. 7-6293 b , Lt. B. H. Rigg, 1935.

Discrepancies:

The area called Oyster Bay on the present chart No. 1238 has been divided into two parts, namely in the area northwest of a line from Nellie Creek to Skrine Creek called Oyster Bay and the southeastern area called Muddy Bay. These changes in names were made ^{because} of information given to the topographic party, Lt. B. H. Rigg, by L. G. Owens, Head Lt. Keeper, Cape Romain Lighthouse, L. P. Jackson, Asst. Lt. Keeper, and R. L. Morrison, prominent water^{man} of McClellanville.

Remarks:

The new Inland Water Route appears on this compilation running across the sheet from the Southwest to the Northeast, this does not appear on the present chart No. 1238 as it has just been completed. There are a few minor changes in the channel around McClellanville from that shown on the present chart No. 1238, since this channel has been dredged at the time the Inland Water Route was made.

RECOMMENDATION FOR FURTHER SURVEYS

The compilation of this sheet is believed to be thorough, accurate, and complete for charting purposes and that 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 in detail.

of lesser importance.

Assisted by:

E. H. Kirsch
E. H. Kirsch,
Chief of Party.

Submitted by:

P. W. Hund
P. W. Hund.

Survey No. T-5386

June 19, 1935

GEOGRAPHIC NAMES

Chart No. 1238

SOUTH CAROLINA

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

[illegible]

Note A number of the lights shown on the graphic control surveys are designated on this compilation as Beacons. At the time of the graphic control surveys these lights had not been completed but the positions were marked by piles or by the incomplete structures. See page 5 report T 62956. The lights are not in operation according to AID Proof examined this date 2/17/36.

B.G. Jones

REVIEW OF AIR PHOTO COMPILATION NO. T-5386

Comparison with Graphic Control Surveys.

(a) T-6293a (1934) 1:10,000. There are no discrepancies between T-6293a and this compilation over the common area. *except in Mathews Cut between Br. 42 and Br. 43 on the north side of this waterway where the survey T-6293a is incomplete.*
(b) T-6293b (1934) 1:10,000. The following recoverable station was transferred from T-6293b to this compilation June 26, 1956, by L. A. McGinn, checked by D. H. Benson:

L.A.M.

Iron Pipe (U. S. Biological Survey)

see opposite page

(c) All detail shown on T-6293a and T-6293b is also shown on this compilation over the common areas. Station 379 + 41.7 N - B U. S. E. falls within 2 meters of Δ U. S. E. Mathews, and is not shown on either T-6293a or this compilation for this reason.

Comparison with Previous Topographic Surveys.

T-1347 (1874) 1:20,000 scale. T-1347 covers McClellanville and vicinity. There have been important changes of shoreline and culture in this area since 1874. T-1347 shows the high ground line with hachures while the compilation shows no definite line between high and low ground. The position of the high ground line on the compilation is doubted by the limits of vegetation. The hachures are not necessary as the incline between high ground and ~~marsh~~ *marsh* is very gradual. This information was obtained direct from the surveyor of T-6293a and T-6293b, graphic control surveys in this area.

In the interior of T-1347 in the vicinity of McClellanville new alignments have been made in important through highways. Large areas of woodland are now cleared in this area. T-1347 is superseded by this compilation for the common area.

T-1400a (1875) 1:20,000 scale. T-1400a covers Bull Bay and vicinity. Only a small portion of T-1400a is common to the southwest section of the compilation. This portion is superseded by this compilation.

Comparison with New Hydrographic Surveys.

H-5802 (1935) 1:10,000. H-5802 covers Oyster Bay and Muddy Bay areas as well as creeks in this vicinity. The shoal lines on the compilation were approximate low water lines. Where a discrepancy occurred the compilation was changed to agree with the hydrography of H-5802. There is now satisfactory agreement between H-5802 and this compilation.

Comparison with Chart No. 1238.

New lights and beacons along the new Intracoastal Waterway are shown on this compilation.

Two new landmarks have been recommended and these have been discussed in the preceding descriptive report under "Landmarks".

Leonard A. McGann
Leonard A. McGann,
June 27, 1935.

Bj. Jones

Approved
K.T. Adams

Applied to chart 837 Oct 4, 1935 H.C.
Applied to chart 836 Feb. 3, 1936 H.C.
Applied to chart 1238 Oct. 20, 1937 G.H.S.

REVIEW OF AIR PHOTO COMPILATION NO. 5386

Chief of Party: E. H. Kirsch

Compiled by: P.W. Hund

Project: H T162

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)

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)
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)
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 U.S.G.S. Quadrangles are available for this area.
13. The geographic datum of the compilation is *N 7 1927* and the reference station is correctly noted.
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.

8. The representation of low water lines, ~~reefs, coral reefs and~~
✓ ~~reefs,~~ 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)
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)
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 naviga-~~
~~tion 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 U.S.G.S. Quadrangles are available for this area.
13. The geographic datum of the compilation is *N 1927* and the
✓ reference station is correctly noted.
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 Longi-
tude 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:

Reviewed in office by: Leonard A. McNamee June 27, 1935.
B. G. Jones

Examined and approved:

K. T. Adams
Asst Chief, Section of Field Records
Division of Charts
L. O. Colburn
Chief, Division of Charts

B. Borden
Chief, Section of Field Work
G. H. Hall
Chief, Division of Hydrography
and Topography.