

5252

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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

Air
Photo

Topographic

Field 52

~~Hydrographic~~

Sheet No.

Reg. No. 5252

State South Carolina

LOCALITY

~~Waccamaw River~~ ~~Main Creek~~

Murrell Inlet

193 4-5

CHIEF OF PARTY

E. H. Kirsch

U. S. GOVERNMENT PRINTING OFFICE: 1934

5252

Applied to 836 Jan 28, 1936
" " 1237 Sept 1937 - P.B.C.

Photo No.	Date	Time
595 - 610	Aug. 17, 1934	9:15 A.M.
225 - 231	Aug. 4, 1934	8:45 A.M.
345 - 349	Aug. 5, 1934	8:40 A.M.
PROJECTION BY	<u>On land</u> L. C. Ripley	11-6-34
PROJECTION CHECKED BY	<u>E. H. Kirsch</u> E. H. Kirsch	11-6-34
Scale $F = 0.950$		
CONTROL PLOTTED BY	<u>W. W. Johnson</u> W. W. Johnson	11-13-34
CONTROL CHECKED BY	<u>F. H. McBeth</u> F. H. McBeth	11-14-34
CONTROL PLOTTED ON PHOTOS BY	<u>E. J. Anderson</u> E. J. Anderson	October 1934
CONTROL CHECKED ON PHOTOS BY	<u>M. D. Crook</u> M. D. Crook	October 1934
TOPOGRAPHY TRANSFERRED BY	<u>P. W. Hund</u> P. W. Hund	Mar. 19, 1935
TOPOGRAPHY CHECKED BY	<u>R. G. Hickson</u> R. G. Hickson	3-19-35
SMOOTH RADIAL PLOT BY	<u>R. G. Hickson</u> R. G. Hickson	1-3-35
RADIAL PLOT CHECKED BY	<u>W. W. Johnson</u> W. W. Johnson	1-5-35
SCALE PLOT BY	<u>L. C. Lande</u> L. C. Lande	
DETAIL INKED BY	<u>W. W. Johnson</u> W. W. Johnson	3-8-35
AREA DETAIL INKED: 22.9 square statute miles.		
LENGTH OF COASTLINE: 5.6 St. Miles.		
LENGTH OF SHORELINE: None (more than 200 meters wide)		
LENGTH OF STREAMS: 35.7 St. 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. 52

REGISTER NO. 5252

State South Carolina

General locality ~~Waccamaw River - Main Creek~~

Locality Murrell Inlet

Scale 1:10,000 Photographs - Aug. 4, 5, & 17, 1934

Date of survey, 19

Vessel Air Photo Compilation Party No. 21.

Chief of party E. H. Kirsch

Surveyed by See data Sheet in Descriptive Report.

Inked by W. W. Johnson

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

GENERAL INFORMATION

Description of Topography:

In general, the area covered by this sheet is largely high ground having numerous roads and trails which denote that the section is quite thickly populated. This is especially true along the Eastern border of the sheet, near the coast. Murrell's Inlet, is a summer fishing resort though there are a number of permanent residents.

Along the western edge of the sheet, bordering the Waccamaw River, there are several old abandoned rice fields which have become filled in and overgrown with scattered cypress trees and bushes.

Between the abovementioned areas the high ground is fairly heavily wooded with one or two out-over portions on the South.

There is no general report affecting this sheet.

Statistics:

Area of detail inked: 22.9 square st. miles.

Length of coastline: 5.6 statute miles.

Length of shoreline: None.

Length of streams: 35.7 statute miles (less than 200 meters wide)

Photographs:

Sheet 5252 was compiled from photographs taken with a standard type US Army Air Corp's 5-lens Camera operated by the Aero Serv. Corp. of Philadelphia.

Photos 595 to 610 were taken at approximately 9:30 A.M. on Aug. 17, 1934, 3 hrs. 15 min. before high tide on the outer coast.

Photos 345 to 349 were taken at 8:40 A.M. Aug. 5, 1934, 1 hour 30 minutes after low tide.

Photos 225 to 231 were taken at 8:45 A.M. Aug. 4, 1934, 2 hours 15 min. after low tide.

CONTROL

Source:

Triangulation by E.B. Roberts, 1924, K.G. Crosby, 1934 and South Carolina Traverse (P.W.A.) 1934. Graphic Control sheet "H" Reg. No. *T-63286*. J. C. Sammons 1935. Control established by Roberts and Crosby has been office ~~adjusted~~ to N. A. 1927 datum, other control is unadjusted to N. A. 1927 datum.
Field adjusted

Errors:

No errors in control were found on this sheet.

Discrepancies:

No control established by other organizations was used in the compilation of this sheet, **except the S.C. State Traverse.**

Compilation:

The radial line method set forth in the U. S. C. & G. S. "Notes on the Compilation of Planimetric Line Maps from 5-lens Aerial Photographs" was used in making the compilation.

Adjustment of Plot:

No unusual adjustment of the plot was necessary.

Interpretation:

No undue difficulty was experience in interpreting the photographs.

Information from other sources:

The Beach line was obtained from sketches made by the field inspection party.

Conflicting Names:

The name MURRELL INLET is given on the U.S.C. & G.S. Chart No. 1237 of this area. However, the natives call it MURRELL'S INLET.

Comparison with Other Surveys:

Satisfactory junctions were made with the following sheets:

Sheet No. 5246 on the Northeast, 5250 on the Northwest, 5251 on the West, and 5254 on the South.

Landmarks:

A list of landmarks and marked topographic stations for the western part of the sheet will be furnished by J. C. Sammons with G.C.S. "H" Reg. No. 7-63286. There are no control sheets covering the eastern part of the sheet and no landmarks could be found from study of the photos.

There are no landmarks of importance for charting in the area of this compilation. None have been recommended by the field party in their "List of landmarks" covering ch. 1237.

*L. A. M.
10/14/56.*

RECOMMENDATIONS FOR FURTHER SURVEYS

This compilation is believed to have a probable error of not more than .3 mm in positions of well defined detail of importance for charting, and of .6 mm for other data.

The compiler feels that the sheet is complete in all detail of importance and no further surveys are recommended.

Assisted by:

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

Submitted by:

W. W. Johnson, Jr.
W. W. Johnson, Jr.

Survey No. 5252

Date. Aug. 16, 1935

GEOGRAPHIC NAMES

Chart No. 1237

Diagram No. 1237

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]

REVIEW OF AIR PHOTO COMPILATION NO. T-5252.

1/10,000 scale.

Comparison with the Graphic Control Surveys.

T-6328b (1935) 1:10,000 scale.

T-6328b covers the Waccamaw River portion of this compilation. There are no discrepancies and all detail on T-6328b is shown on this compilation with the exception of non-recoverable plane table positions and the magnetic declination.

Comparison with Previous Topographic Surveys.

T-1280b (1872) 1:20,000 scale.

T-1280b covers the coast from latitude 33° 38' to Midway Inlet. The most prominent change of high water line has occurred at Murrell Inlet where the north point of the inlet has shifted northward about 1700 meters since 1872.

On the interior there have been large changes in the alignment of roads. State Highway No. 49 is new. T-1280b is superseded by this compilation over the common area.

T-4198 (1926) 1:20,000 scale.

T-4198 covers the coast from Floral Beach to North Inlet. The south point of the inlet has moved northward about 400 meters since 1926 while the other point has moved southward about 150 meters. Changes of position of the HWL along the straight beach have been comparatively small. The survey for T-4198 has not been carried inland far enough to include the roads.

Triangulation station Murrell, 1924 has been misspelled on T-4198 as "Murrel". This same has also been misspelled on recovery card No. 267 as "Murrel". This name is spelled correctly on this compilation. T-4198 is superseded by this compilation over the common area.

There are no new hydrographic surveys of this area yet in this office. (*See following page. Lam. Oct 12, 1935.*)

Comparison with the Chart.

Chart No. 1237.

Changes to be made to this chart as a result of this compilation are discussed under the comparison with the previous topographic surveys.

*Leonard A. Mulsau
August 23, 1935.*

Frank E. Enline

REVIEW OF AIR PHOTO COMPILATION NO T-5252 (Cont'd)

Comparison with New Hydrographic Surveys

H-5841(1935) 1/10,000 scale. There are no conflicts between the soundings on H-5841 and the shoreline of this compilation. The stumps, logs, snags, etc. shown on H-5841 are not shown on this compilation.

Leonard A. Hulsane
Oct 12, 1935.

REVIEW OF AIR PHOTO COMPILATION NO. 5252

Chief of Party: E. H. Kirsch

Compiled by: W. W. Johnson

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)
High water line on sand beach was obtained from field inspection notes.
Lam

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 8, 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)
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)
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 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. Busch
Chief of Party

- 19. Remarks after review in office:

Reviewed in office by: Frank G. Eubank

Examined and approved:

E. H. Green.
Chief, Section of Field Records
L. O. Lobnitz.
Chief, Division of Charts

J. S. Borden
Chief, Section of Field Work
G. H. de
Chief, Division of Hydrography
and Topography.