
**U.S. DEPARTMENT OF COMMERCE**
**COAST AND GEODETIC SURVEY**

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>PLANIMETRIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>Ph-5301</td>
</tr>
<tr>
<td>Office No.</td>
<td>T-10820</td>
</tr>
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**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>SOUTH CAROLINA</th>
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<tbody>
<tr>
<td>General locality</td>
<td>COOPER RIVER</td>
</tr>
<tr>
<td>Locality</td>
<td>THE TEE TO MEPKIN CREEK</td>
</tr>
</tbody>
</table>


1950
CHIEF OF PARTY
A. L. Wardwell, Tampa Photo Office

**LIBRARY & ARCHIVES**

**DATE**
August 1962
DESCRIPTIVE REPORT - DATA RECORD

T - 10820

Project No. (II): Ph-58Q1  Quadrangle Name (IV):


Photogrammetric Office (III): Tampa, Fla.  Officer-in-Charge: A. L. Wardwell

Instructions dated (II) (III): 23 July 1958  Copy filed in Division of

Photogrammetry (IV)

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:10,000  Stereoscopic Plotting Instrument Scale (III): 1:6,000

Scale Factor (III): Pantographed to 1:10,000

Date received in Washington Office (IV): Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): Oct 3, 1961

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927  Vertical Datum (III): MHW

Reference Station (III): LIT USGS 1935

Lat.: Long.: Adjusted

Plane Coordinates (IV):

State:South Carolina Zone: Lambert South

Y = 456,910.15 ft.  X = 2,341,423.68 ft.

Roman numerals indicate whether the item is to be entered by (I) Field Party, (II) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.
Areas contoured by various personnel
(Show name within area)
(II) (III)
DESCRIPTIVE REPORT - DATA RECORD

Field inspection by (II): George E. Varnadoe
Date: Sept. 1958

Planetable contouring by (II): Inapplicable
Date:

Completion Surveys by (II):
Date:

Mean High Water Location (III) (State date and method of location): Air Photo Compilation
Date of Photography: May 1958

Projection and Grids ruled by (IV): P. Dempsey (W.O.)
Date: Aug. 8, 1958

Projection and Grids checked by (IV): R. D. Shoup (W.O.)
Date: n n n

Control plotted by (III): E. Pursel
Date: Dec. 18, 1958

Control checked by (III): E. T. Ogilby
Date: Dec. 18, 1958

Stereoscopic
Control extension by (III): Washington Office
Date:

Stereoscopic Instrument compilation (III):
Date:

R. E. Smith

Manuscript delineated by (III): R. E. Smith
Date: Jan. 1959

Photogrammetric Office Review by (III): W. H. Shearouse
Date: Feb. 1959

Elevations on Manuscript
checked by (II) (III): Inapplicable
Date:
DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): Wild "S" and WILD "L" Diapositives

Diapositives (III)

<table>
<thead>
<tr>
<th>Number</th>
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<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<td>9 May 1958</td>
<td>08:56</td>
<td>1:30,000</td>
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<tr>
<td>58S3627</td>
<td></td>
<td>08:57</td>
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<td>58S3628</td>
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<td>10:41</td>
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<td>58S3100</td>
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<td>58S3101</td>
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<td>10:43</td>
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<tr>
<td>58S3102</td>
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<tr>
<td>58S3103</td>
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<td>10:43</td>
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Tide (III) *

Reference Station: *
Subordinate Station: *
Subordinate Station: *

Washington Office Review by (IV):
Final Drafting by (IV): Tampa District Office
Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 21
Shoreline (More than 200 meters to opposite shore) (III): 17
Control Leveling - Miles (II): Inapplicable
Number of Triangulation Stations searched for (II): 9
Number of BMs searched for (II): 5
Number of Recoverable Photo Stations established (III): 1
Number of Temporary Photo Hydro Stations established (III): None

Remarks: * The tide predictions can not be used. The river level has been raised and is subject to non-tidal variations because it is the sluice-way for a large system of lakes and dams extending far into South Carolina.

** 1 triangulation station falls east of the manuscript.
SUMMARY
TO ACCOMPANY PLANIMETRIC MAP MANUSCRIPTS
T-10820 through T-10822

Subject surveys represent project PH-5801.

It is located in the State of South Carolina and covers the Back River and portions of the Cooper River directly north of the City of North Charleston.

The purpose of the three (3) surveys is to provide new planimetric maps for nautical charting.

A stereoplanigraph bridging plot of subject surveys was done in the Washington Office in December 1958. The manuscripts were compiled in pencil by Kelsh Plotter from Wild "L" and "S" photography of May 1958 and results of field inspection of September 1958 at the Tampa District Office. Subsequently scribed and completed at the Tampa District Office, the submitted map manuscripts are well suited for the direct reproduction of file copies.

A stable film positive at the compilation scale of 1:10,000 and the Descriptive Report of each will be registered and filed in the Bureau Archives.

August 1961
Official Mileage for Cost Accounts

<table>
<thead>
<tr>
<th>Sheet No.</th>
<th>Area Sq. Mi.</th>
<th>Shoreline Lin. Ml.</th>
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<td>17</td>
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<td>T-10821</td>
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<tr>
<td>Totals</td>
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<td>58</td>
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</table>
PROJECT PH-5801

Planimetric Mapping
South Carolina, Back River

Scale 1:10,000

Official Mileage for Cost Accounts

<table>
<thead>
<tr>
<th>Sheet No.</th>
<th>Area Sq. Mi.</th>
<th>Shoreline Lin. Mi.</th>
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<td>17</td>
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<tr>
<td>T-10821</td>
<td>21</td>
<td>19</td>
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<tr>
<td>T-10822</td>
<td>21</td>
<td>22</td>
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<tr>
<td><strong>Totals</strong></td>
<td><strong>33</strong></td>
<td><strong>58</strong></td>
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FIELD INSPECTION REPORT

IS INCLUDED WITH T-10822
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<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR Y-COORDINATE</th>
<th>LONGITUDE OR X-COORDINATE</th>
<th>X44 IN M METERS</th>
<th>Y44 IN M METERS</th>
<th>DISTANCE FROM GRID IN FEET.</th>
<th>OR PROJECTION LINE IN METERS FORWARD</th>
<th>(BACK)</th>
<th>DATUM CORRECTION</th>
<th>FORWARD</th>
<th>(BACK)</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN M METERS FORWARD</th>
<th>(BACK)</th>
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<tbody>
<tr>
<td>L11WS 1935</td>
<td>P-5 or USGS Index</td>
<td>NA 1927</td>
<td>45° 6' 90.15</td>
<td>102° 40' 24.86</td>
<td>159,266.49</td>
<td>159,266.49</td>
<td>705.437.75</td>
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<tr>
<td>BRIDGE 1928</td>
<td>P-19</td>
<td>NA 1927</td>
<td>45° 9' 57.36</td>
<td>102° 42' 33.68</td>
<td>140,078.24</td>
<td>140,078.24</td>
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<td>41° 9' 10.47</td>
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<td>P-25</td>
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<td>NA 1927</td>
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<td>BRANCH, 1925</td>
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<td>102° 40' 24.31</td>
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<td></td>
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<tr>
<td>DIKE, 1928</td>
<td>P-16</td>
<td>NA 1927</td>
<td>45° 1' 54.88</td>
<td>102° 40' 24.31</td>
<td>137,358.88</td>
<td>137,358.88</td>
<td>711.677.61</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
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<tr>
<td>SIMS, 1925</td>
<td>P-17</td>
<td>NA 1927</td>
<td>45° 1' 54.88</td>
<td>102° 40' 24.31</td>
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</tr>
</tbody>
</table>
PHOTOGRAMMETRIC PLOT REPORT

The stereoplanigraph bridge report is included with the descriptive report for T-10822.

31. Delineation

The Kelsh Plotter was used for delineation.

The field inspection was satisfactory. Reference, letter from W.O. 711-pj, to Mr. George E. Varnadoe, dated 21 Oct. 1958.

The infra-red photographs were satisfactory for delineation of shoreline and swamp but were less desirable for some interior features.

32. Control

The density of primary and secondary control was adequate.

33. Supplemental Data

None.

34. Contours and Drainage

Contour data not applicable.

Drainage shown was from field inspection and office interpretation.

Drainage in swamp areas that were classified "intermittent" by the field inspector has been shown as "perennial".

35. Shoreline and Alongshore Details

The high-water line was delineated according to the field inspector's notes. See Item 31. No low-water line was shown.

36. Offshore Details

No unusual problems were encountered in compiling offshore details.
37. LANDMARKS AND AIDS

Three Landmarks have been shown and are listed on Form 567.

38. CONTROL FOR FUTURE SURVEYS

One recoverable Topographic station has been shown and is listed under Item 49.

39. JUNCTIONS

Junctions have been made with the following:
T-10821 to the south, CORDESVILLE AMS 1:24,000 to the north, SUMMERVILLE AMS 1:62,000 to the west, KITTREDGE, S.C. USGS 1:24,000 to the east; this map falls within the northwest part of Kittredge quadrangle.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. GEOGRAPHIC NAMES

A church building shown on the USGS Quadrangle map as TABO CHURCH has been shown on the map manuscript as TAVOU CHURCH. The field inspector notes on photograph 58-L-3626 "TAVOU CHURCH (Sign on church)."

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS Quadrangle KITTREDGE, S.C. scale 1:24,000, compiled from aerial photographs taken in 1938 and 1941; Topography by plane-table methods 1948, (see Item 39). The shoreline is not in agreement because the level of the Cooper River has been raised and many of the old dikes were breached. See Field Inspection Report, Item 2, and the note for "Tide" on page 4 of this report.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with C&GS Chart No. 680, scale 1:20,000 published May 1942 and corrected to May 1952. The same differences listed under Item 46 were found.
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Approved and Forwarded:

[Signature]

Arthur L. Wardwell
Chief of Party
Back River

Childsberry
Comingtee
Cooper River

Durham Creek

East Branch Cooper River

Kittredge

Mepkin
Mepkin Creek
Molly Branch

Rice Hope
Rice Hope Landing

South Carolina

The Tee

Wappoola
West Branch Cooper River

Geographic Names Section
10 August 1961
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by

_ M. H. Shreve_  

South Carolina

<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE*</th>
<th>LONGITUDE*</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
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<td>TANK</td>
<td>Water Tank Neptun Abbey</td>
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<td>10.35</td>
<td>79.57</td>
<td>U.A. 1927</td>
<td>Photo Plot</td>
<td>1958</td>
<td>X 630</td>
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<tr>
<td>ELEVATED</td>
<td>ht. 122 (152)</td>
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<td>33 07</td>
<td>319</td>
<td>79 57 308</td>
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<tr>
<td>CHY</td>
<td>Brick (Old Rice Mill)</td>
<td></td>
<td>58.82</td>
<td>17.35</td>
<td>T-10220 1958</td>
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<td></td>
<td>X 680</td>
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<td>ht. 60 (42)</td>
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<td>1812</td>
<td>79 57 450</td>
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<td>31.71</td>
<td>38.45</td>
<td>&quot;</td>
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<td>977</td>
<td>79 56 997</td>
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</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individuals.
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be (deleted from) the charts indicated.

The positions given have been checked after listing by

George E. Varnadoes

<table>
<thead>
<tr>
<th>STATE</th>
<th>SOUTH CAROLINA</th>
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<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
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<td>TANK</td>
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</tr>
<tr>
<td>SEMAPHORE</td>
<td>Has been razed and replaced by electric signal nearby</td>
</tr>
<tr>
<td>N. GABLES</td>
<td>HOUSE</td>
</tr>
<tr>
<td>SE. GABLES</td>
<td>HOUSE</td>
</tr>
</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* Tabulate seconds and meters
49. NOTES FOR THE HYDROGRAPHER

There is one marked topographic station.

BAXE, 1958
PHOTOGRAMMETRIC OFFICE REVIEW

T- 10820

1. Projection and grids
2. Title
3. Manuscript numbers
4. Manuscript size

CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy
6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)
7. Photo hydro stations
8. Bench marks
9. Plotting of sextant fixes
10. Photogrammetric plot report
11. Detail points

ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline
13. Low-water line
14. Rocks, shoals, etc.
15. Bridges
16. Aides to navigation
17. Landmarks
18. Other alongshore physical features
19. Other alongshore cultural features

PHYSICAL FEATURES
20. Water features
21. Natural ground cover
22. Planetary contours
23. Stereoscopic instrument contours
24. Contours in general
25. Spot elevations
26. Other physical features

CULTURAL FEATURES
27. Roads
28. Buildings
29. Railroads
30. Other cultural features

BOUNDARIES
31. Boundary lines
32. Public land lines

MISCELLANEOUS
33. Geographic names
34. Junctions
35. Legibility of the manuscript
36. Discrepancy overlay
37. Descriptive Report
38. Field inspection photographs
39. Forms

40. William H. Shearouse
   Reviewer

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler

Supervisor

43. Remarks:
REVIEW REPORT
OF
PLANEITRIC MAP MANUSCRIPTS
T-10820 through T-10822
August 1961

62. Comparison with Registered Topographic Surveys

<table>
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<th>Scale</th>
<th>Date</th>
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</tr>
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<td>T-4435</td>
<td>1:10,000</td>
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<td>T-4825</td>
<td>1:5,000</td>
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<td>T-5161</td>
<td>1:20,000</td>
<td>1934</td>
</tr>
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<td>T-5172</td>
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<tr>
<td>T-5173</td>
<td>1:10,000</td>
<td>1934</td>
</tr>
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</table>

Except for the construction of an earth dam across Back River one-half mile above the point where it empties into Cooper River, there has been little change concerning the two mentioned drainage features. There are numerous additional dams and roads inland and other cultural changes within the limits of the U.S. Naval Reservation (Liberty Hall) established since the last surveys of 1934; but few of these will effect nautical chart detail.

63. Comparison with Maps of Other Agencies

KITTREDGE, S. C., 1:24,000, Ed. of 1950, U.S. Geological Survey
NORTH CHARLESTON, S. C., 1:24,000, Ed. of 1958, U. S.
Geological Survey

There is good agreement between these surveys.

64. Comparison with Contemporary Hydrographic Surveys

There are no contemporary hydrographic surveys of subject area.

65. Comparison with Nautical Charts

680 1:20,000 Revised to 61 2/13

The main drainage features are in good agreement. However, some nearby cultural features may be considered for application prior to reprinting of chart 680.

66. Adequacy of Results and Future Surveys

Subject surveys were compiled according to instructions. They are within the requirements of adequacy and accuracy.
Reviewed by:

Josef J. Streifler

Approved by:

L. C. Lande
Chief, Review & Drafting Section

Marvin Wallman
Chief, Nautical Chart Division

J. E. Waugh 8/6/67
Chief, Photogrammetry Division

May E. Kelly
Chief, Operations Division
### Record of Application to Charts

<table>
<thead>
<tr>
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<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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<tr>
<td>1-7-63</td>
<td>680</td>
<td>W. H. Wall</td>
<td>Before After Verification and Review</td>
</tr>
</tbody>
</table>

---

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under “Comparison with Charts” in the Review.