

10820

Original

Diag. Cht. Nos. 1110 and 1239-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey PLANIMETRIC

Field No. Ph-5801 Office No. T-10820

LOCALITY

State SOUTH CAROLINA

General locality COOPER RIVER

Locality THE TEE TO MESPIN CREEK

19 58

CHIEF OF PARTY

A. L. Wardwell, Tampa Photo Office

LIBRARY & ARCHIVES

DATE August 1962

USCOMM-DC 5087

10820

DESCRIPTIVE REPORT - DATA RECORD

T - 10820

Project No. (II): **Ph-5801** Quadrangle Name (IV):

Field Office (II): **MONCKS CORNER, S. C.**

Chief of Party: **A. L. Wardwell**

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): **MLW**

~~Mean Sea Level~~ except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (2) refer to sounding datum
i. e., mean low water or mean lower low water

Reference Station (III): **LII WS USGS 1935**

Lat.:

Long.:

Adjusted

~~unadjusted~~

Plane Coordinates (IV):

State: **South Carolina** Zone: **Lambert South**

Y= **456,910.15 ft.**

X= **2,314,423.68 ft.**

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

When entering names of personnel on this record give the surname and initials, not initials only.

DESCRIPTIVE REPORT - DATA RECORD

3

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: " " "

Control plotted by (III): **E. Pursel**

Date: **Dec. 18, 1958**

Control checked by (III): **E. T. Ogilby**

Date: **Dec. 18, 1958**

~~Radio Plot~~ Stereoscopic

Control extension by (III): **Washington Office**

Date:

Stereoscopic Instrument compilation (III): **Planimetry**
gch/oly/s **R. E. Smith**

Date: **Jan. 1959**

Date:

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

4

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

Number	Date	Time	Scale	Stage of Tide
58L3626	9 May 1958	08:56	1:30,000	*
58L3627	"	08:57	"	"
58L3628	"	08:57	"	"
58S3100	"	10:41	"	"
58S3101	"	10:41	"	"
58S3102	"	10:43	"	"
58S3103	"	10:43	"	"

Tide (III) *

Reference Station: *
Subordinate Station:
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV):

Date: Aug. 1961

Final Drafting by (IV):

W. Steifler
Tampa District Office
W. Steifler

Date: Jan. 1959

Drafting verified for reproduction by (IV):

Date: Aug. 1961

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 21
Shoreline (More than 200 meters to opposite shore) (III): 17

Control Levelling - Miles (II): Inapplicable

Number of Triangulation Stations searched for (II): 9

Recovered: 5
Recovered: 1

Identified: 3
Identified: 1

Number of BMs searched for (II): 1

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.

6

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.

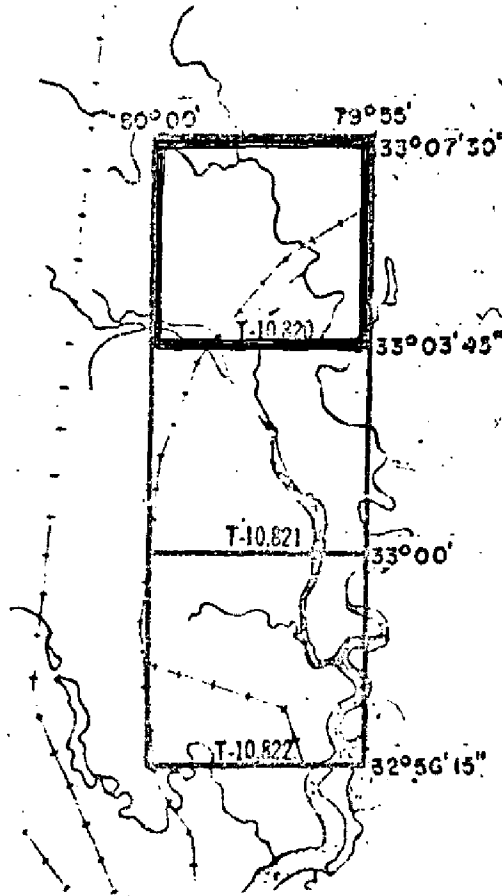
A stable film positive at the compilation scale of 1:10,000 and the Descriptive Report of each will be registered and filed in the Bureau Archives.

August 1961

PROJECT PH-5801

Planimetric Mapping
South Carolina , Back River

Scale 1:10,000



Official Milage for Cost Accounts

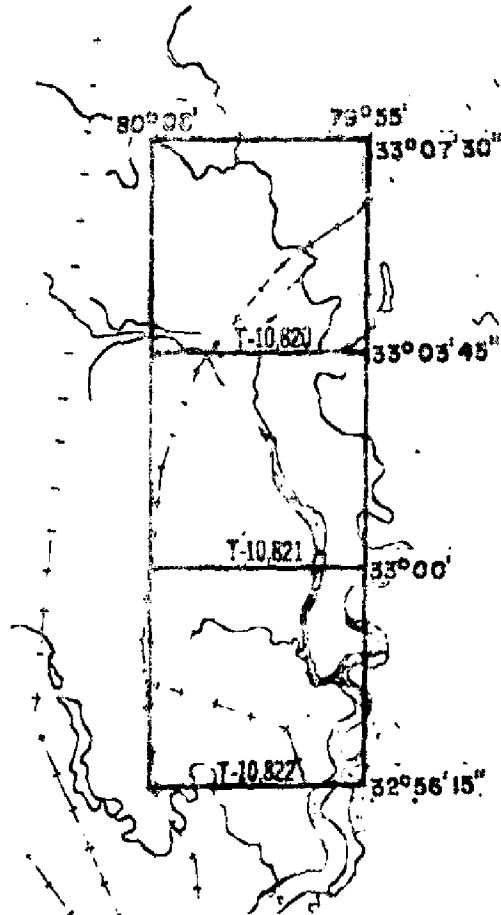
Sheet No.	Area Sq. Mi.	Shoreline Lin. Mi.
T-10820	21	17
T-10821	21	19
T-10822	21	22
Totals	<u>63</u>	<u>58</u>

PROJECT PH-5801

5

Planimetric Mapping South Carolina , Back River

Scale 1:10,000



Official Milage for Cost Accounts

Sheet No.	Area Sq. Mi.	Shoreline Lin. Mi.
T-10820	21	17
T-10821	21	19
T-10822	21	22
Totals	63	58

FIELD INSPECTION REPORT
IS INCLUDED WITH T-10822

COMPILATION REPORT T-10820

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

Contours not applicable.

Drainage shown was from field inspection and office interpretation.

Drainage in swamp areas that was 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, KITTRIDGE, 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 KITTRIDGE, 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

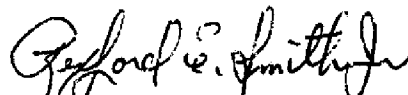
Comparison has been made with C&GS Chart No. 680, scale 1:20,000 published May 1942 and corrected to May 1952. The same differences listed under Item 46 were found.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.



Rexford E. Smith Jr.
Carto Photo Aid

Approved and Forwarded:



Arthur L. Wardwell
Chief of Party

48. GEOGRAPHIC NAMES LIST T-10820

Back River

Childsbury -
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

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

~~TEMPORARIES~~
TO BE REVISED
TO BE DELETED

STRIKE OUT TWO

Tampa District Office

5/26 19 59

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be ~~struck out~~ (deleted from) the charts indicated.

The positions given have been checked after listing by

George E. Varnadoe

Arthur L. Wardwell

Chief of Party

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION				METHOD LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED	
				LATITUDE*		LONGITUDE*								DATUM
				°	'	°	'							
TANK	SOUTH CAROLINA	Does not exist		33	05.4	79	56.0	U.S.A. 1927		X		680		
SEMAPHORE N. CABLES HOUSE		Has been raised and replaced by electric signal nearby		33	05.6	79	56.6	"		X		"		
SE. CABLES HOUSE		Obscured by trees		33	05.6	79	56.9	"		X		"		
		Does not exist		33	05.6	79	57.2	"		X		"		

Ba

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.

BAKE, 1958

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 10820

- 1. Projection and grids WHS 2. Title WHS 3. Manuscript numbers WHS 4. Manuscript size WHS
unclassified
4a Classification label -----

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

- 12. Shoreline WHS 13. Low-water line XX 14. Rocks, shoals, etc. WHS 15. Bridges WHS 16. Aids to navigation XX 17. Landmarks WHS 18. Other alongshore physical features WHS 19. Other along-shore cultural features WHS

PHYSICAL FEATURES

- 20. Water features WHS 21. Natural ground cover WHS 22. Planetable contours XX 23. Stereoscopic instrument contours XX 24. Contours in general XX 25. Spot elevations XX 26. Other physical features WHS

CULTURAL FEATURES

- 27. Roads WHS 28. Buildings WHS 29. Railroads WHS 30. Other cultural features WHS

BOUNDARIES

- 31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS

- 33. Geographic names WHS 34. Junctions WHS 35. Legibility of the manuscript WHS 36. Discrepancy overlay XX 37. Descriptive Report MMS 38. Field inspection photographs WHS 39. Forms WHS
- 40. William H. Shearouse Milton M. Slamey
Reviewer Supervisor, Review Section of Unit

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
PLANIMETRIC MAP MANUSCRIPTS
T-10820 through T-10822
August 1961

62. Comparison with Registered Topographic Surveys

T-4434	1:10,000	1928
T-4435	1:10,000	1928
T-4815	1:5,000	1934
T-5161	1:20,000	1934
T-5172	1:10,000	1934
T-5173	1:10,000	1934

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 A. Streifler
Josef J. Streifler

Approved by:

L. A. Lande
Chief, Review & Drafting
Section

Merritt Paulson
Chief, Nautical Chart Division

J. E. Waugh 8/6/62
Chief, Photogrammetry Division

Max B. Letts
Chief, Operations Division

