

10821

Original

Diag. Cht. Nos. 1110 and 1239-3.

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey PLANIMETRIC

Field No. Ph-5801 Office No. T-10821

LOCALITY

State SOUTH CAROLINA

General locality COOPER RIVER

Locality COTE BAS LANDING TO HAGEN ISLAND

1958

CHIEF OF PARTY

A. L. Wardwell, Tampa District Office

LIBRARY & ARCHIVES

DATE August 1962

USCOMM-DC 5087

10821

DESCRIPTIVE REPORT - DATA RECORD

T-10821

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): MBW

~~Mean High Water (MHW) as of 1961/1/1~~
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): BELL, 1934

Lat.:

Long.:

Adjusted
~~Unadjusted~~

Plane Coordinates (IV):

State: South Carolina Zone: South

Y= 437,693.49 ft.

X= 2,322,071.29 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

PLANIMETRIC

Areas contoured by various personnel
(Show name within area)
(II) (III)

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): **G. E. Varnadoe**

Date: **Aug-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, 1:62,500**
Date of Photography: **May 1958**

Projection and Grids ruled by (IV): **P. Dempsey (W.O.)**

Date: **11 Aug. 1958**

Projection and Grids checked by (IV): **Shoup (W.O.)**

Date: **11 Aug. 1958**

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

Date: **Dec. 1958**

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

Date: **Dec. 1958**

Radial Plot or Stereoscopic

Date: **Dec. 1958**

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

Planimetry **I. I. Saperstein**
Stereoscopic Instrument compilation (III):

Date: **Mar. 1959**

Contours **Inapplicable**

Date:

Manuscript delineated by (III): **I. I. Saperstein**

Date: **Mar. 1959**

Photogrammetric Office Review by (III): **W. H. Shearouse**

Date: **Mar. 1959**

Elevations on Manuscript

Date:

checked by (II) (III): **Inapplicable**

DESCRIPTIVE REPORT - DATA RECORD

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

4

Diapositives

XEROGRAPHIC (III)

Number	Date	Time	Scale	Stage of Tide
58-S-3098	9 May 1958	10:40	1:30,000	*
58-S-3099	"	10:40	"	
58-S-3100	"	10:41	"	
58-L-3629	"	08:58	"	
58-L-3630	"	08:58	"	
58-L-3631	"	08:59	"	

Tide (III) *

Reference Station:
Subordinate Station:
Subordinate Station:

Washington Office Review by (IV):

Final Drafting by (IV):

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): 19
~~Shoreline (More than 200 meters to opposite shore) (III): 19~~
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 23**
Number of BMs searched for (II): 3
Number of Recoverable Photo Stations established (III): 0
Number of Temporary Photo Hydro Stations established (III): 0

Ratio of Ranges	Mean Range	Spring Range

Date: Aug. 1961
Date: March 1957
Date: Aug. 1961
Date:

Remarks:

* A dam has been built across the mouth of the Back River thus cutting off tidal waters to the river. This also affects the tide in the Cooper River (according to Mr. G. E. Varnadoe) making the predicted tide tables for the Cooper River unreliable.

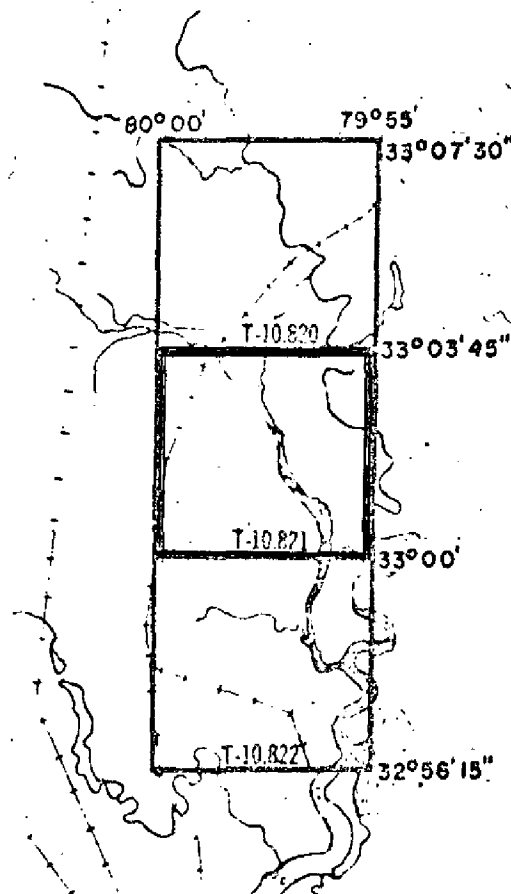
** Three stations fell east of project, of these, two were recovered and one was found destroyed.

PROJECT PH-5801

5

Planimetric Mapping South Carolina , Back River

Scale 1:10,000



Official Milage for Cost Accounts

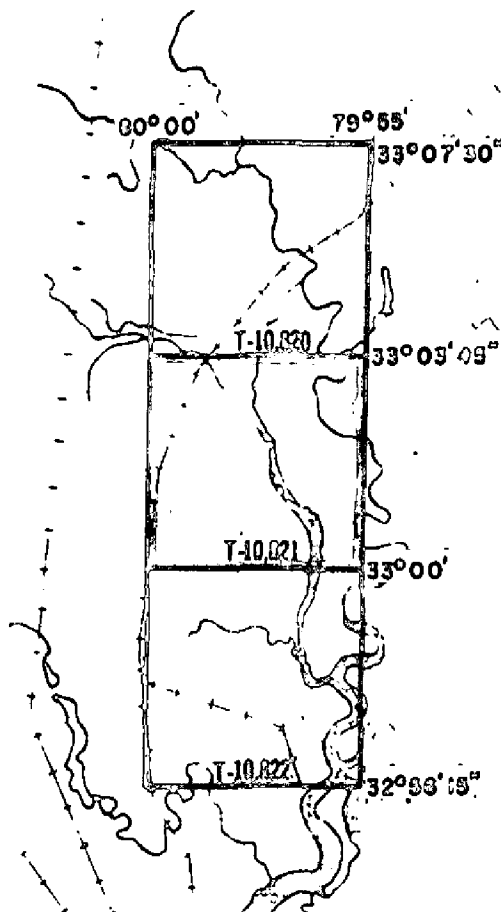
Sheet No.	Area Sq. Mi.	Shoreline Lin. Mi.
T-10820	21	17
T-10821	21	19
T-10822	21	22
Totals	<u>63</u>	<u>58</u>

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

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

THE FIELD INSPECTION REPORT
IS SUBMITTED WITH T-10822

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORTCOAST AND GEODETIC SURVEY
CONTROL RECORDMAP T-10821 PROJECT NO. Ph 5801 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y -COORDINATE LONGITUDE OR x -COORDINATE	244 m meters DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
<u>RUTH, 1928</u>	<u>P.C.</u>	<u>NA 1927</u>	<u>440 953.34</u> ✓	<u>134 402.85</u> ✓			
<u>BABE, 1928</u>	<u>P-16</u>	<u>NA 1927</u>	<u>2331 345.98</u> ✓	<u>710 595.68</u> ✓	✓		
<u>MORE, 1928</u>	<u>P.C.</u>	<u>NA 1927</u>	<u>438 511.58</u> ✓	<u>133 658.60</u> ✓	✓		
<u>COAT, 1928</u>	<u>P-16</u>	<u>NA 1927</u>	<u>2330 088.93</u> ✓	<u>710 212.53</u> ✓	✓		
<u>TOM, 1928</u>	<u>P.C.</u>	<u>NA 1927</u>	<u>429 645.76</u> ✓	<u>130 956.29</u> ✓	✓	<u>E</u>	
<u>LINE, 1928</u>	<u>P-16</u>	<u>NA 1927</u>	<u>2337 127.19</u> ✓	<u>712 357.79</u> ✓	✓		
<u>NOLL, 1934</u>	<u>P-16</u>	<u>NA 1927</u>	<u>432 209.81</u> ✓	<u>131 737.81</u> ✓	✓		
<u>CON, 1934</u>	<u>P-40</u>	<u>NA 1927</u>	<u>2330 060.65</u> ✓	<u>710 203.91</u> ✓	✓		
<u>BELL, 1934</u>	<u>P.C.</u>	<u>NA 1927</u>	<u>427 745.91</u> ✓	<u>130 377.21</u> ✓	✓		
<u>SCRUB, 1928</u>	<u>P-39</u>	<u>NA 1927</u>	<u>2324 959.53</u> ✓	<u>708 649.08</u> ✓	✓		
<u>SONG, 1928</u>	<u>P.C.</u>	<u>NA 1927</u>	<u>436 766.37</u> ✓	<u>133 126.66</u> ✓	✓	<u>E</u>	
<u>BAD, 1928</u>	<u>P-16</u>	<u>NA 1927</u>	<u>2334 221.64</u> ✓	<u>711 472.18</u> ✓	✓		
	<u>P.C.</u>	<u>NA 1927</u>	<u>439 671.17</u> ✓	<u>134 012.04</u> ✓			
	<u>P-40</u>	<u>NA 1927</u>	<u>2319 111.31</u> ✓	<u>706 866.54</u> ✓	✓		
	<u>P.C.</u>	<u>NA 1927</u>	<u>430 686.63</u> ✓	<u>131 273.55</u> ✓	✓		
	<u>P-39</u>	<u>NA 1927</u>	<u>2323 701.09</u> ✓	<u>708 265.51</u> ✓	✓		
	<u>P.C.</u>	<u>NA 1927</u>	<u>437 693.49</u> ✓	<u>133 409.24</u> ✓	✓		
	<u>P-40</u>	<u>NA 1927</u>	<u>2322 071.29</u> ✓	<u>707 768.75</u> ✓	✓		
	<u>P.C.</u>	<u>NA 1927</u>	<u>428 662.81</u> ✓	<u>130 656.69</u> ✓	✓		
	<u>P-16</u>	<u>NA 1927</u>	<u>2331 347.81</u> ✓	<u>710 596.23</u> ✓	✓		
	<u>P.C.</u>	<u>NA 1927</u>	<u>443 291.02</u> ✓	<u>135 115.37</u> ✓	✓		
	<u>P-16</u>	<u>NA 1927</u>	<u>2327 704.22</u> ✓	<u>709 485.67</u> ✓	✓		
	<u>P.C.</u>	<u>NA 1927</u>	<u>445 606.16</u> ✓	<u>135 821.03</u> ✓	✓		
	<u>P-16</u>	<u>NA 1927</u>	<u>2327 701.95</u> ✓	<u>709 484.97</u> ✓	✓		

1 FT. = 3048006 METER
COMPUTED BY: W.D.

DATE

CHECKED BY: W.D.

DATE

COMM-DC-57843

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T. - 10821 PROJECT NO. 96-5801 SCALE OF MAP 1/10000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y-COORDINATE LONGITUDE OR X-COORDINATE	1944 in meters DISTANCE FROM GRID LINE IN FEET OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
KILL 1934	P.C.		440 450.51	134, 249.58			
KILL 1934	P.40	NA 1927	2320 507.73	707, 292.06	✓		
RM No. 1	computed		440 470.92	134, 255.81	✓		
			2320 615.58	707, 324.43	✓		
TEES 1928 1932	P.C.		448 020.39	136, 556.89	✓		
TEES 1928, 1932	P.25	NA 1927	2327 135.77	709, 312.40	✓		
Sub Station	computed		447.777.84	136, 482.96	✓		
			2327 256.33	709, 349.15	✓		
DIG 1934	P.C.		436 108.75	132, 926.21	✓		
DIG 1934	P.40	NA 1927	2320 589.64	707, 317.08	✓		
Sub Station	computed		436 146.41	132, 937.69	✓		
			2320 656.00	707, 337.36	✓		
PIG 1933	P.C.		430 963.14	131, 357.83	✓		
PIG 1933	P.39	NA 1927	2326 546.43	709, 132.77	✓		
Sub Station	computed		430 933.34	131, 348.74	✓		
			2326 535.91	709, 129.56	✓		
BK 54, 1935 (SCGS)	P.4	NA 1927	438 514.89	133, 659.60	✓		
BK 54, 1935			2308 733.11	703, 703.26	✓		
(SCGS) Sub Station	computed		438 486.08	133, 650.82	✓		
BK 53 1935 (SCGS)	P.3		2308 708.33	703, 695.71	✓		
BK 55 1935 (SCGS)	P.3		447 228.51	136, 315.52	✓		
			2311 955.75	704, 685.52	✓		
			434 419.90	132, 411.45	✓		
			2307 200.28	703, 236.05	✓		

1 FT. = 3048006 METER
COMPUTED BY: W.D.

DATE

CHECKED BY: W.D.

DATE

COMPILATION REPORT T-10821PHOTOGRAMMETRIC PLOT REPORT

The stereoplanigraph report is included with the Descriptive Report for T-10822.

31. DELINEATION

Manuscript was delineated using the Kelsh Plotter.

The field inspection was adequate.

The infra-red photography was good for delineation of shoreline and marsh areas, but was not too clear for white surfaced features, such as roads.

32. CONTROL

The density of primary and secondary control was adequate.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate and was delineated according to the field inspector's notes.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

One landmark, shown on Chart 680 as TANK has been noted for deletion and Form 567 was submitted by the field inspector. There are no aids to navigation.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions were made with the following: T-10820 to the north, T-10822 to the south, AMS Quadrangle SUMMERVILLE, 1:62,500 to the west, and USGS Quadrangle KITTREDGE, 1:24,000 to the east. This map falls in the southwest part of Quadrangle KITTREDGE.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. BOUNDARIES:

The U. S. Naval Reservation boundary has been shown according to the field inspection. However this is not in agreement with the boundary as shown on USGS Quadrangle KITTREDGE.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS Quadrangle KITTREDGE 1:24,000 edition of 1950 and planimetric map T-5161 1:20,000 dated 1933. The only major change between the manuscript and the quadrangle is the addition of a canal leading north from Chicken Creek. All other changes are minor, including differences in interpretation of vegetation cover.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 680 1:20,000 revised to 26 May 1952. The maps listed under Item 46 are probably the source of topography for the chart. The same differences exist.

Landmark charted as TANK at Dean Hall has been noted for deletion on Form 567.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

I. I. Saperstein
I. I. Saperstein
Cartographer (Photo)

Approved and Forwarded:

Arthur L. Wardwell
Arthur L. Wardwell
Chief of Party

BRIDGE AND OVERHEAD CABLE CLEARANCES

1. Fixed Highway Bridge across canal, north of Chicken Creek.

Horiz. Cl: 56 ft.

Vert. Cl: 3 ft.

(Not listed in bridge book)

2. Transmission line across Back River near the mouth of Chicken Creek.

Clearance: 17 ft. above high water.

~~TO BE DELETED~~
~~TO BE DELETED~~
~~TO BE DELETED~~

TRIKE OUT TWO

NOTIFYING AIDS/OK LANDMARKS FOR CHARTS
Tampa District Office

Tampa District Office

5/26

1959

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

The positions given have been checked after listing by

George B. Varnadoe

Arthur L. Hargrett *Chief of Party*

[illegible]

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.

48. GEOGRAPHIC NAMES LIST T-10821

Back River

Chicken Creek

Cooper River

Cote Bas

Cote Bas Landing

Crane Pond

Cypress Gardens

Dean Hall

Durham Creek

Hagan Island


Long Field Pond

Medway Plantation

Pine Grove

Prioleau Creek

South Carolina


Geographic Names Section
10 August 1961

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 10821

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

4a Classification label unclassified

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) XX 7. Photo hydro stations XX 8. Bench marks WHS 9. Plotting of sextant fixes XX 10. Photogrammetric plot report W.O. 11. Detail points XX

ALONGSHORE AREAS

(Nautical Chart Data)

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

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines WHS 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 WHS 38. Field inspection photographs WHS 39. Forms WHS 40. William H. Shearouse Milton M. Slavney
Reviewer Supervisor, Review Section or 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:

15

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

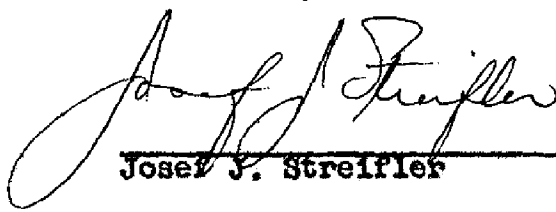
680 1:20,000 Revised to 61 2/13

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

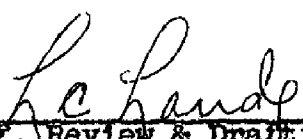
66. Adequacy of Results and Future Surveys

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

Reviewed by:


Josef J. Streifler

Approved by:


Chief, Review & Drafting
Section


Chief, Nautical Chart Division

 8/6/62
Chief, Photogrammetry Division


Chief, Operations Division

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10821

Record of Application to Charts

[illegible]

M-2168-1

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.