

12298

0.115

Diag. Cht. No. 1237.

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey SHORELINE

Field No. Ph-6217 Office No. T-12298

### LOCALITY

State SOUTH CAROLINA  
CAPE FEAR, N.C. TO  
General locality WINYAH BAY, S.C.

Locality MURRELLS INLET

1963-1964

### CHIEF OF PARTY

Joseph K. Wilson Chief, Photo Party 6420  
J. C. Bull, Director Atlantic Marine  
Center

### LIBRARY & ARCHIVES

DATE December 1967

USCOMM-OC 5087

12298

## DESCRIPTIVE REPORT - DATA RECORD

T-12298

PROJECT NO. (II):

Job PH-6217

FIELD OFFICE (II):

Myrtle Beach, S.C.

CHIEF OF PARTY

J. K. Wilson

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center

OFFICER-IN-CHARGE

J. C. Bull, Director, Atlantic  
Marine Center

INSTRUCTIONS DATED (II) (III):

|                   |                     |
|-------------------|---------------------|
| 11 September 1963 | Field               |
| 14 October 1963   | Office              |
| 10 January 1964   | Amendment #1 Office |

METHOD OF COMPILATION (III):

Kelsh

MANUSCRIPT SCALE (III):

1:20,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:6,000 pantographed to 1:20,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):

N.A. 1927

VERTICAL DATUM (III):

MEAN SEA LEVEL EXCEPT AS FOLLOWS: MHW  
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):

BUCK, 1934

LAT.:

33° 34' 19."697(606.8m)

LONG.:

79° 00' 51."531(1329.0m)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

y = 214,123.93 ft.

x = 2,604,859.96 ft.

STATE

South Carolina

ZONE

North

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

T-12298

|   |                               |                                     |
|---|-------------------------------|-------------------------------------|
| FIELD INSPECTION BY (II):<br>Robert S. Tibbetts<br>Harvey G. Lucas  |                               | DATE:<br>Jan. 1964<br>Nov. 1963     |
| MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):<br><br>Air Photo Compilation<br>Date of Photography - Feb. 21, 1963 |                               |                                     |
| PROJECTION AND GRIDS RULED BY (IV):<br><br>A. E. Roundtree  |                               | DATE<br><br>Nov. 27, 1963           |
| PROJECTION AND GRIDS CHECKED BY (IV):<br><br>R. S. Kornspan   |                               | DATE<br><br>Nov. 29, 1963           |
| CONTROL PLOTTED BY (III):<br><br>W. P. Cackowski  |                               | DATE<br><br>March 1964              |
| CONTROL CHECKED BY (III):<br><br>R. R. Wagner   |                               | DATE<br><br>March 1964              |
| RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):<br><br>R. B. Kelly (W.O.)   |                               | DATE<br><br>Dec. 1963               |
| STEREOSCOPIC INSTRUMENT COMPILATION (III):  | PLANIMETRY<br><br>R. E. Smith | DATE<br>March 1964                  |
|   | CONTOURS<br>Inapplicable      | DATE                                |
| MANUSCRIPT DELINEATED BY (III):<br><br>R. E. Smith  |                               | DATE<br><br>March 1964              |
| SCRIBING BY (III):<br><br>A. Santillan  |                               | DATE<br><br>Jan. 1965               |
| PHOTOGRAMMETRIC OFFICE REVIEW BY (III):<br><br>R. R. Wagner<br>R. E. Smith  |                               | DATE<br><br>March 1964<br>Feb. 1966 |
| REMARKS:<br><br>FIELD EDIT<br>R.S. TIBBETTS      JUNE 1964  |                               |                                     |

DESCRIPTIVE REPORT - DATA RECORD  
T-12298

CAMERA (KIND OR SOURCE) (III):  
"W" Camera

PHOTOGRAPHS (III)

| NUMBER                 | DATE         | TIME | SCALE    | STAGE OF TIDE                   |
|------------------------|--------------|------|----------|---------------------------------|
| 63 W 3044 thru<br>3048 | 21 Feb. 1963 | 1010 | 1:30,000 | +0.9 <sup>6</sup> ft. above MSL |

TIDE (III) Predicted

|   | RATIO OF<br>RANGES | MEAN<br>RANGE | SPRING<br>RANGE |
|---|--------------------|---------------|-----------------|
| REFERENCE STATION: Charleston, South Carolina |                    | 5.1           | 6.0             |
| SUBORDINATE STATION: Murrells Inlet           | HW<br>LW           | -0.6<br>0.0   | 4.5<br>5.3      |
| SUBORDINATE STATION:                          |                    |               |                 |

WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet-Atlantic Marine Center

DATE: June 1966  
Sept. 1965

PROOF EDIT BY (IV):

DATE:

|   |    |            |             |
|---|----|------------|-------------|
| NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): | 22 | RECOVERED: | IDENTIFIED: |
|   |    | 19         | 1           |
| NUMBER OF BM(S) SEARCHED FOR (II):                  | 10 | RECOVERED: | IDENTIFIED  |
|   |    | 6          | 3           |

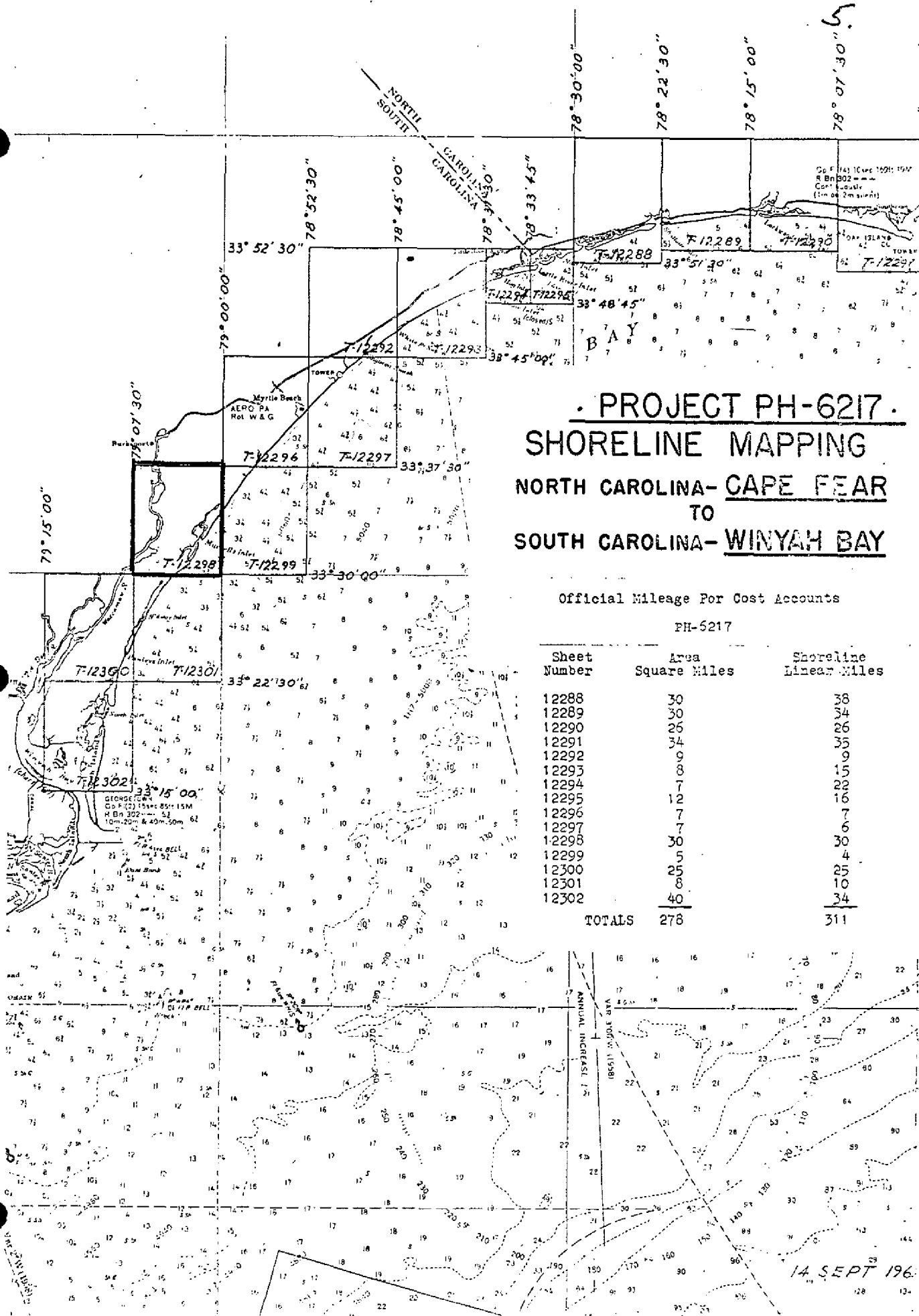
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): None

REMARKS:  
Field Edit applied.



| COMPILATION RECORD                          | COMPLETION DATE | REMARKS    |
|---|-----------------|------------|
| Manuscript complete pending field edit      | March 1964      | Superseded |
| Field edit applied<br>Compilation completed | Sept. 1965      |            |
|   |                 |            |
|   |                 |            |
|   |                 |            |



**PROJECT PH-6217**  
**SHORELINE MAPPING**  
**NORTH CAROLINA-CAPE FEAR**  
**TO**  
**SOUTH CAROLINA-WINYAH BAY**

Official Mileage For Cost Accounts

PH-6217

| Sheet Number  | Area Square Miles | Shoreline Linear Miles |
|---------------|-------------------|------------------------|
| 12288         | 30                | 38                     |
| 12289         | 30                | 34                     |
| 12290         | 26                | 26                     |
| 12291         | 34                | 35                     |
| 12292         | 9                 | 9                      |
| 12293         | 8                 | 15                     |
| 12294         | 7                 | 22                     |
| 12295         | 12                | 16                     |
| 12296         | 7                 | 7                      |
| 12297         | 7                 | 6                      |
| 12298         | 30                | 30                     |
| 12299         | 5                 | 4                      |
| 12300         | 25                | 25                     |
| 12301         | 8                 | 10                     |
| 12302         | 40                | 34                     |
| <b>TOTALS</b> | <b>278</b>        | <b>311</b>             |

14 SEPT 196

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-12298

Shoreline manuscript T-12298 is one of fifteen similar maps in Project 21059 (PH-6217). The sketch on page 5 of this report shows the position of this map in the project. This is a Kelsh project in advance of hydrographic surveys in the same area. The field operations preceding compilation included recovery and identification of horizontal control and field inspection. The Kelsh compilation was at 1:20,000 scale from which a cronar positive showing shoreline and alongshore features was furnished for preparation of the hydrographer's boat sheet. 1:30,000 scale photographs taken February 21, 1963 were used for compilation. 1:20,000 scale ratio prints were subsequently provided for hydro support purposes. The compilation manuscript is a vinylite sheet  $7\frac{1}{2}$  minutes in latitude and  $7\frac{1}{2}$  minutes in longitude from which the smooth sheet was scribed and reproduced on cronaflex. One cronar positive and one cronar negative are provided for record and registry after final review.

FIELD INSPECTION REPORT  
Project 21059

For data pertaining to this Map see field inspection report  
filed under Map T-12296.

24 February 1964  
Submitted by:

*Joseph K. Wilson*  
Joseph K. Wilson  
Chief, Photo Party 6420



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

MAP T. 12298 PROJECT NO. Ph-21059 SCALE OF MAP 1:20,000 SCALE FACTOR

| STATION         | SOURCE OF INFORMATION (INDEX) | DATUM        | LATITUDE OR $\mu$ -COORDINATE<br>LONGITUDE OR $x$ -COORDINATE<br>North Zone | DISTANCE FROM GRID IN FEET.<br>OR PROJECTION LINE IN METERS |        | DATUM CORRECTION | N.A. 1927 - DATUM<br>DISTANCE FROM GRID OR PROJECTION LINE<br>IN METERS |        | FACTOR DISTANCE<br>FROM GRID OR PROJECTION LINE<br>IN METERS |
|-----------------|-------------------------------|--------------|---|---|--------|------------------|---|--------|--|
|                 |                               |              |   | FORWARD   | (BACK) |                  | FORWARD   | (BACK) |  |
| BUCK 1934       | P.C.<br>97                    | N.A.<br>1927 | 214,123.93<br>2,604,859.96  |   |        |                  |   |        |  |
| TOP 1934        | 97                            | "            | 230,890.09<br>2,577,434.01  |   |        |                  |   |        |  |
| MET 1935        | 105                           | "            | 218,240.20<br>2,577,576.07  |   |        |                  |   |        |  |
| WACK 1935       | 105                           | "            | 222,553.66<br>2,579,371.01  |   |        |                  |   |        |  |
| BULL 1935       | 105                           | "            | 224,277.25<br>2,572,974.13  |   |        |                  |   |        |  |
| HUNT 1962       | Vol.III<br>126                | "            | 193,346.02<br>2,594,144.29  |   |        |                  |   |        |  |
| HARDEE 1962     | Vol.III<br>121                | "            | 214,338.48<br>2,608,145.28  |   |        |                  |   |        |  |
| HUNTINGTON 1934 | 97                            | "            | 189,498.39<br>2,586,970.46  |   |        |                  |   |        |  |
| WACHESAW 1934   | 97                            | "            | 209,359.57<br>2,583,456.04  |   |        |                  |   |        |  |
| JILL 1935       | 105                           | "            | 204,567.91<br>2,580,630.46  |   |        |                  |   |        |  |
| BROOK 1935      | 105                           | "            | 195,596.65<br>2,575,361.05  |   |        |                  |   |        |  |
| JEFF 1935       | 105                           | "            | 200,066.09<br>2,571,434.63  |   |        |                  |   |        |  |

1 FT. = 3048006 METER

COMPUTED BY: RMW

DATE Feb. 28, 1964

CHECKED BY: IIS

DATE Mar. 4, 1964



MAP T.  
12298

PROJECT NO  
PH-21059

SCALE OF MAP 1:20,000.

SCALE FACTOR

[illegible]

1 FT. = 3048006 METER  
COMPUTED BY:

RRW

DATE Feb. 28, 1964

CHECKED BY: IIS

DATE Mar. 4, 1964

COMM-DC-57843

10.

COMPILATION REPORT  
T-12298

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-12296

31. DELINEATION

The Kelsh plotter was used.

Field Inspection was adequate.

32. CONTROL

See photogrammetric plot report.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage was delineated as inspected or from office interpretation.

35. SHORELINE AND ALONGSHORE DETAILS

Shoals, breakers and low water line has been shown from office interpretation.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Junctions are in agreement with T-12301 to the south, and T-12299 to the east. There is no contemporary survey to the west and north.

40. HORIZONTAL AND VERTICAL ACCURACY

No Statement

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. Quadrangle BROOKGREEN, S.C., scale 1:24,000 dated 1943.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with C & G S chart 1237 scale 1:80,000 revised 11/5/62.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Approved and forwarded

*R. E. Smith*  
R. E. Smith  
Cartographer

*J. Bull*

J. Bull, Director, Atlantic Marine Center



GEOGRAPHIC NAMES

Ph 21059  
(Cape Fear, N.C. - Winyah Bay, S.C.)

T-12298

- |                       |                          |
|-----------------------|--------------------------|
| * Allston Creek       | Vaux Island              |
| * Atlantic Ocean      | Vaux Creek               |
| Big Swamp             | * Weston Flat            |
| * Brookgreen Gardens  | * Whale Creek            |
| Brookgreen Creek      | White Creek              |
| Black Creek           | * Woodland Creek         |
| Bull Creek            | * Oaks Creek             |
| Bull Island           | * The Bay                |
| Bull Tongue Island    | * Sunny Side             |
| Burgess               | A. J. Wraight            |
| Collins Creek         | A. J. Wraight            |
| Cow House Creek       | Chief, Geographic Branch |
| Crane Creek           |                          |
| * Drunken Jack Island |                          |
| Fisherman Creek       |                          |
| Flagg Island          |                          |
| * Goat Island         |                          |
| * GARDEN CITY BEACH   |                          |
| Horseshoe             |                          |
| Laurel Hill Island    |                          |
| Little Bull Creek     |                          |
| * Long Bay            |                          |
| Longwood Island       |                          |
| Longwood Landing      |                          |
| * Magnolia Beach      |                          |
| * Main Creek          |                          |
| Mulberry Landing      |                          |
| * Murrells Inlet      |                          |
| * Parsonage Creek     |                          |
| Prince Creek          |                          |
| Wachesaw Landing      |                          |

\* These names appear on this manuscript.

T-12298

49. NOTES FOR THE HYDROGRAPHER

None

|   |  |   |  |
|---|--|---|--|
| C&GS FORM 1002<br>(11-13-61)  |  | U.S. DEPARTMENT OF COMMERCE<br>COAST AND GEODETIC SURVEY  |  |
| <b>PHOTOGRAMMETRIC OFFICE REVIEW</b><br>T-10363 I-12298   |  |   |  |
| 1. PROJECTION AND GRIDS<br>RRW  |  | 2. TITLE<br>RRW   |  |
| 3. MANUSCRIPT NUMBERS<br>RRW  |  | 4. MANUSCRIPT SIZE<br>RES   |  |
| CONTROL STATIONS  |  |   |  |
| 5. HORIZONTAL CONTROL STATIONS OF<br>THIRD-ORDER OR HIGHER ACCURACY<br>RRW  |  | 6. RECOVERABLE HORIZONTAL STATIONS<br>OF LESS THAN THIRD-ORDER ACCURACY<br>(Topographic stations)<br>XX |  |
| 7. PHOTO HYDRO STATIONS<br>XX   |  | 8. BENCH MARKS<br>XX  |  |
| 9. PLOTTING OF SEXTANT<br>FIXES<br>XX   |  | 10. PHOTOGRAMMETRIC<br>PLOT REPORT<br>BRIDGE (W.O.)   |  |
| 11. DETAIL POINTS<br>KELSH  |  | ALONGSHORE AREAS (Nautical Chart Data)  |  |
| 12. SHORELINE<br>RRW  |  | 13. LOW-WATER LINE<br>RRW   |  |
| 14. ROCKS, SHOALS, ETC.<br>RRW  |  | 15. BRIDGES<br>RRW  |  |
| 16. AIDS TO NAVIGATION<br>XX  |  | 17. LANDMARKS<br>XX   |  |
| 18. OTHER ALONGSHORE<br>PHYSICAL FEATURES<br>RRW  |  | 19. OTHER ALONGSHORE<br>CULTURAL FEATURES<br>RRW  |  |
| PHYSICAL FEATURES   |  |   |  |
| 20. WATER FEATURES<br>RRW   |  | 21. NATURAL GROUND COVER<br>RRW   |  |
| 22. PLANETABLE CONTOURS<br>XX   |  | 23. STEREOSCOPIC<br>INSTRUMENT CONTOURS<br>XX   |  |
| 24. CONTOURS IN GENERAL<br>XX   |  | 25. SPOT ELEVATIONS<br>XX   |  |
| 26. OTHER PHYSICAL<br>FEATURES<br>RRW   |  | CULTURAL FEATURES   |  |
| 27. ROADS<br>RRW  |  | 28. BUILDINGS<br>RRW  |  |
| 29. RAILROADS<br>XX   |  | 30. OTHER CULTURAL<br>FEATURES<br>RRW   |  |
| BOUNDARIES  |  |   |  |
| 31. BOUNDARY LINES<br>XX  |  | 32. PUBLIC LAND LINES<br>XX   |  |
| MISCELLANEOUS   |  |   |  |
| 33. GEOGRAPHIC NAMES<br>RRW   |  | 34. JUNCTIONS<br>RRW  |  |
| 35. LEGIBILITY OF THE<br>MANUSCRIPT<br>RRW  |  | 36. DISCREPANCY OVERLAY<br>XX   |  |
| 37. DESCRIPTIVE REPORT<br>RES   |  | 38. FIELD INSPECTION<br>PHOTOGRAPHS<br>RRW  |  |
| 39. FORMS<br>RRW  |  | 40. REVIEWER<br>R. R. Wagner; R. E. Smith   |  |
| SUPERVISOR REVIEW SECTION OR UNIT<br>A. C. Rauck  |  | 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<br>R. E. Smith   |  | SUPERVISOR<br>A. C. Rauck   |  |
| 43. REMARKS   |  |   |  |

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FIELD EDIT REPORT  
T-12298

No formal field edit report was received. Field edit data received on the discrepancy print indicates that the manuscript was field edited in June 1964.



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REVIEW REPORT T-12298

SHORELINE

June 8, 1966

61. GENERAL STATEMENT

See summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with Registered Survey T-8215, 1:20,000 scale, edition of 1944.

\* An ozalid comparison print is submitted with the differences noted. The shoreline of Magnolia Beach along the outer coast has receded approximately 200 meters in some areas. The entrance to Murrells Inlet has shifted to the south and there are considerable changes in the shoreline in that vicinity. There are minor changes in the interior of the map and along the apparent shoreline of Main Creek and Oaks Creek.

This map supersedes the listed prior survey for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. quadrangle BROOKGREEN, S.C., 1:24,000 scale, edition of 1943.

This quadrangle, published by the U.S.G.S., is the civil edition of T-8215 referred to in ITEM 62; and the same differences with T-12298 exist.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

No contemporary hydrographic surveys in the area of this manuscript were available at the time of final review.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 1237, 1:80,000 scale, 3rd edition dated June 21, 1965. The planimetry for the area around Murrello Inlet on this chart was evidently obtained from a revised chart base of T-8215 as the shoreline of the chart and map manuscript T-12298 are in good general agreement.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with the instructions and meets the National Standards of Map Accuracy.

\* REFER TO PAGE 17

Reviewed by:

Leo F. Beugnet  
Leo F. Beugnet

Approved by:

J. Bull  
J. Bull, CAPT  
Director, Atlantic Marine Center

Approved by:

Charles Lerner  
Chief, Cartographic Branch JLS

J. Ralph Sobieralski  
Chief, Photogrammetry Division  
12-06-67

J. O. Boyer  
Chief, Chart Division  
Marine

Chief, Operations Branch

T-12298

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NOTE TO THE VERIFIER

No contemporary hydrographic survey, in the area covered by this manuscript, was available at the time of final review.

The following photographs were used in the manner indicated.

Control Identification: 63-W-3046

Field Inspection: 62-S-1078A thru 1081A; 63-W-3045 thru 3048

Field Edit: None. See discrepancy print.

Final Review: 63-W-3043 thru 3049

NOTE : A COMPARISON PRINT WAS SUBMITTED BY THE FINAL  
REVIEWER ; HOWEVER, IT WAS DESTROYED SINCE  
IT CONTAINED NO INFORMATION NOT ACCOUNTED  
FOR IN THE REPORT.

SGB

