

Orig.

T-12609

T-12609

T-12609

| | |
|---|-----------------------------|
| Form 504 | |
| U. S. DEPARTMENT OF COMMERCE | |
| COAST AND GEODETIC SURVEY | |
| DESCRIPTIVE REPORT | |
| Type of Survey | SHORELINE (Photogrammetric) |
| Field No. | Office No. T-12609 |
| LOCALITY | |
| State | SOUTH CAROLINA |
| General locality | CHARLESTON TO SAVANNAH |
| Locality | EAST END |
| 19.64-65 | |
| CHIEF OF PARTY | |
| J. K. Wilson, Chief, Photo Party 6420 | |
| J. Bull, Director, Atlantic Marine Center | |
| LIBRARY & ARCHIVES | |
| DATE | |

chart 1239 W.H. Hall 1-25-68 No com. Part. app after V & R.
Fully after app to large scales

chart 491 John P. W. in 2/9/68 Part. Applied after Review

792 - Part. Appd. after V & R. B7 12/4/68

11522 (792) Fully Appd after Final Review 1/14/75 RNado

11521 (1239) Fully Appd after Final Review 1/14/75 RNado

DESCRIPTIVE REPORT - DATA RECORD

T -12609

PROJECT NO. (II):

Job PH-6407

FIELD OFFICE (III):

Georgetown, South Carolina

CHIEF OF PARTY

Joseph K. Wilson

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center

OFFICER-IN-CHARGE

J. Bull

Director, Atlantic Marine Center

INSTRUCTIONS DATED (III) (III):

23 April 1964

Field

28 September 1964

Office

22 December 1964

Office Amendment #1

METHOD OF COMPILATION (III):

Kelsh

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:6,000 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):

GEOGRAPHIC DATUM (III):

N.A. 1927

VERTICAL DATUM (III): MHW

MEAN SEA LEVEL EXCEPT AS FOLLOWS:

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):

FOLLY NORTH, 1943 ✓

LAT.:

32° 41' 13."559 (417.7m) ✓

LONG.:

79° 53' 16."783 (437.2m) ✓

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

= 312,419.95 ft. ✓

x = 2,342,127.04 ft. ✓

STATE

SOUTH CAROLINA ✓

ZONE

SOUTH ✓

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

| | | |
|--|---|------------------------|
| FIELD INSPECTION BY (III): Robert S. Tibbetts | | DATE: OCT-NOV. 1964 |
| MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air photo compilation Date of photography, May 8, 1964 | | |
| PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree (WSC) | | DATE Nov. 1964 |
| PROJECTION AND GRIDS CHECKED BY (IV): P. Hawkins (WSC) | | DATE Nov. 1964 |
| CONTROL PLOTTED BY (III): A. Santillan | | DATE Jan. 1965 |
| CONTROL CHECKED BY (III): H. Cordell | | DATE Jan. 1965 |
| RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): L. Fritz (WSC) J. T. Gerlack (WSC) | | DATE No date |
| STEREOSCOPIC INSTRUMENT COMPILATION (III): | PLANIMETRY K. Boyle Reviewed by R. Wagner | DATE Feb. 1965 |
| | CONTOURS Inapplicable | DATE |
| MANUSCRIPT DELINEATED BY (III): K. Boyle | | DATE Feb. 1965 |
| SCRIBING BY (III): B. Barge | | DATE March 1965 |
| PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. E. Smith | | DATE April 1966 |
| REMARKS: FIELD EDIT: J.A. Brothers July, 1965 | | |

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"S" Camera

PHOTOGRAPHS (III)

| NUMBER | DATE | TIME | SCALE | STAGE OF TIDE | |
|-------------|-------------|--------|----------|---------------|-------------|
| 64 S 1183 | May 8, 1964 | 0917 | 1:30,000 | BELOW BRIDGE | OUTER COAST |
| 1184 | " | 0917 | " | 0.7 | 0.3 |
| 1185 | " | 0918 | " | 0.7 | 0.3 |
| 1186 | " | 0918 | " | 0.7 | 0.3 |
| 1226 | " | 0941 | " | 0.7 | 0.3 |
| 1227 | " | 0942 | " | 0.2 | |
| 1228 - 1230 | " | 0942-3 | " | 0.2 | |

TIDE (III) Predicted

| | RATIO OF RANGES | MEAN RANGE | SPRING RANGE |
|---|-----------------|------------|--------------|
| REFERENCE STATION: CHARLESTON, S.C. | | 5.2 | 6.1 |
| SUBORDINATE STATION: FOLLY ISLAND (OUTER COAST), S.C. | | 5.2 | 6.1 |
| SUBORDINATE STATION: FOLLY RIVER (OUTER COAST), S.C. | | 5.4 | 6.4 |

WASHINGTON OFFICE REVIEW BY (IV): *FINAL*
M.M. Slawney, Atlantic Mar. Center

DATE:

May, 1966

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

7

RECOVERED:

3

IDENTIFIED:

2

NUMBER OF BM(S) SEARCHED FOR (II):

None

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

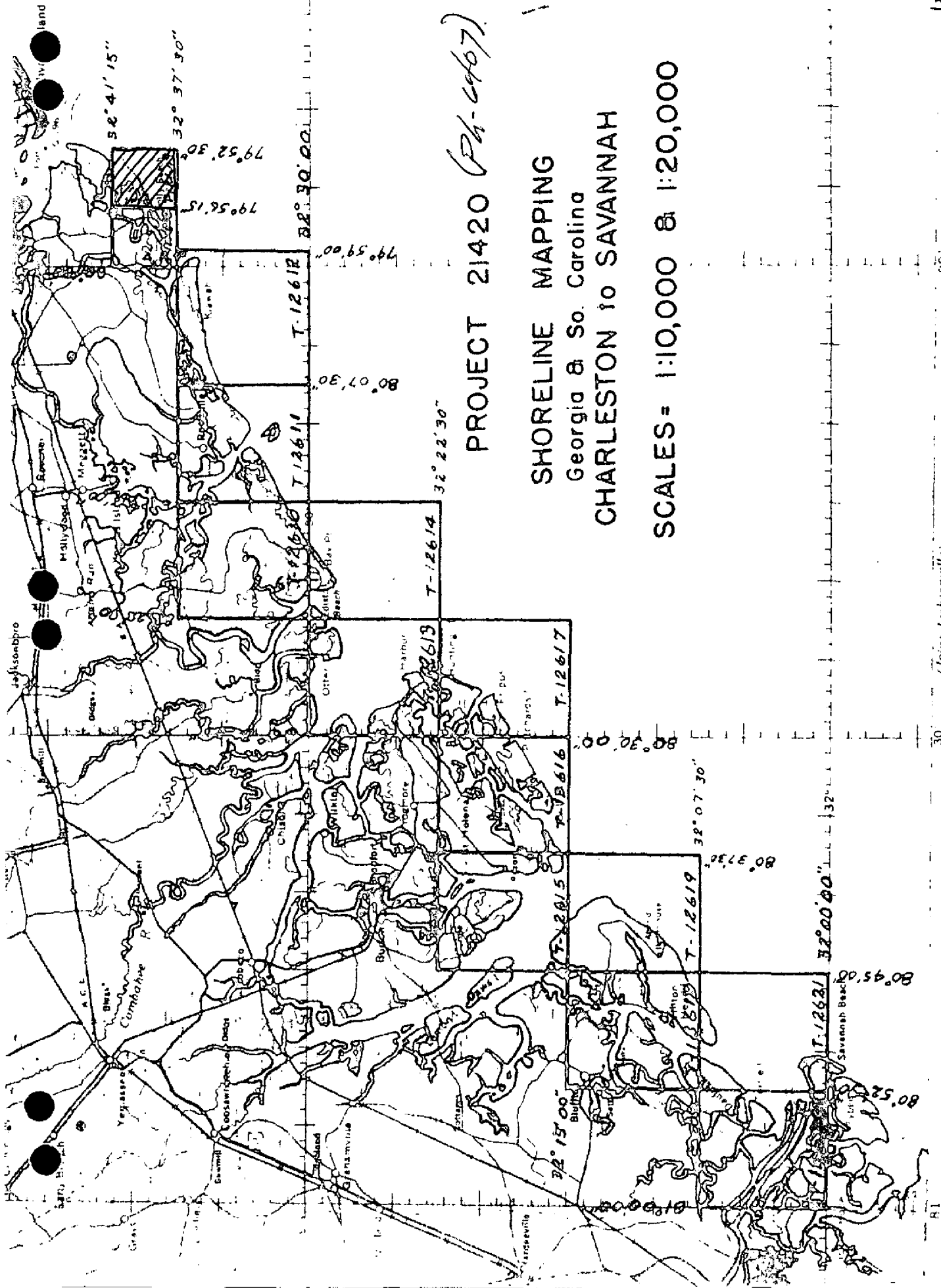
REMARKS:

COMPILATION RECORD

COMPLETION DATE

REMARKS

| | | |
|--|-----------|------------|
| Alongshore area for hydro | Feb. 1965 | Superseded |
| Field edit applied Manuscript Complete | Dec. 1965 | |
| | | |
| | | |
| | | |
| | | |
| | | |



PROJECT 21420 (Ph-6407)

SHORELINE MAPPING

Georgia & So. Carolina

CHARLESTON to SAVANNAH

SCALES= 1:10,000 & 1:20,000

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12609

Shoreline manuscript T-12609 is one of six 1:10,000 scale manuscripts in Ph-6407 (Charleston to Savannah, Ga.), which also contains twelve 1:20,000 scale maps. The sketch on page 5 of this report shows the position of this manuscript in the project.

This is a stereo-instrument project in advance of hydrographic surveys of the area. The photographs for T-12609 are panchromatic at 1:20,000 scale, taken with the "S" camera on May 8, 1964. The stereo-bridge was run and adjusted to field identified control in the Washington Office. Compilation was done with the Kelsh Plotter. Ratio prints, at 1:10,000 scale were processed, and provided for photo-hydro support.

Field work preceding compilation consisted of control identification and field inspection was provided for compilation. The manuscript was field edited in conjunction with photo-hydro support.

The compilation manuscript was a vinylite sheet 3 minutes, 45 seconds in latitude, and 3 minutes 45 seconds in longitude. The smooth manuscript was on cronaflex for review. One cronar positive and one cronar negative are furnished for registry and record after final review.

FIELD INSPECTION REPORT
Project 21420 (Part 1)
South Carolina

For data pertaining to this Map see field inspection report filed
under Map T-12608.

11 November 1964
Submitted by:

Joseph K. Wilson
Chief, Photo Party 6420

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

MAP T.....12609

21/20

PROJECT NO.

SCALE OF MAP.

1.10,000

SCALE FACTOR

[illegible]

1 FT. = .3048006 METER

B.L. Barge

COMPUTED BY:

12-28-64

DATE:

CHECKED BY: TS

DATE:

COMM-DC-5784

COMPILATION REPORT
T-12609

The aerotriangulation bridge was run in the Washington Science Center and the report is submitted with T-12608.

31. DELINEATION

The Kelsh Plotter was used. Field inspection was adequate. Photography was satisfactory.

32. CONTROL

See Aerotriangulation 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

The shoreline inspection was adequate and was delineated accordingly. The approximate low water line was delineated from office interpretation of the photography.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

Appropriate copies of Form 567 for Landmarks were forwarded to the Washington Office under date April 15, 1966. There are no Aids to Navigation.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Junctions were made with T-12608 to the west, T-12286 to the north, the Atlantic Ocean is to the south and east.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. quadrangle James Island, S.C., dated 1959, scale 1:24,000 and found to be in good agreement.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with U.S.C&G.S. chart No. 792, 3rd edition, dated Feb., 24, 1964, scale 1:40,000.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS

None

ITEMS TO BE CARRIED FORWARD

None

Approved and forwarded:

J. Bill

J. Bill
Director, Atlantic Marine Center

A. L. Shands

A. L. Shands
Cartographic Aid

0

48. GEOGRAPHIC NAME LIST

*ATLANTIC OCEAN

EAST END

FOLLY BEACH (*Area name & community*)

FOLLY ISLAND

FOLLY RIVER

LIGHTHOUSE INLET

RAT ISLAND CREEK

* Not on A. J. Wraight's name list

GEOGRAPHIC NAMES

Ph 21420 (James Island, S.C.)

T-12609 (Shoreline)

Atlantic Ocean

East End

Folly Beach (*Area & Community*)

Folly Island

Folly River

Lighthouse Inlet

* Long Island

* Rat Island

Rat Island Creek

** North of compilation limits*

A. J. Wraight

A. J. Wraight
Geographic Names

T-12609

49. NOTES FOR THE HYDROGRAPHER

None

| C&GS FORM 1002 (11-19-81) | | U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY | |
|---|---|--|---|
| PHOTOGRAMMETRIC OFFICE REVIEW | | | |
| T-10363 T-12609 | | | |
| 1. PROJECTION AND GRIDS RES | 2. TITLE RES | 3. MANUSCRIPT NUMBERS RES | 4. MANUSCRIPT SIZE RES |
| CONTROL STATIONS | | | |
| 5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY RES | 6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX | | 7. PHOTO HYDRO STATIONS XX |
| 8. BENCH MARKS XX | 9. PLOTTING OF SEXTANT FIXES XX | 10. PHOTOGRAMMETRIC PLOT REPORT BRIDGE (WO) | 11. DETAIL POINTS KELSH |
| ALONGSHORE AREAS (Nautical Chart Data) | | | |
| 12. SHORELINE RES | 13. LOW-WATER LINE RES | 14. ROCKS, SHOALS, ETC. XX | 15. BRIDGES XX |
| 16. AIDS TO NAVIGATION XX | 17. LANDMARKS RES | 18. OTHER ALONGSHORE PHYSICAL FEATURES RES | 19. OTHER ALONGSHORE CULTURAL FEATURES RES |
| PHYSICAL FEATURES | | | |
| 20. WATER FEATURES RES | 21. NATURAL GROUND COVER RES | | 22. PLANETABLE CONTOURS XX |
| 23. STEREOSCOPIC INSTRUMENT CONTOURS XX | 24. CONTOURS IN GENERAL XX | 25. SPOT ELEVATIONS XX | 26. OTHER PHYSICAL FEATURES RES |
| CULTURAL FEATURES | | | |
| 27. ROADS RES | 28. BUILDINGS RES | 29. RAILROADS XX | 30. OTHER CULTURAL FEATURES RES |
| BOUNDARIES | | | |
| 31. BOUNDARY LINES XX | | 32. PUBLIC LAND LINES XX | |
| MISCELLANEOUS | | | |
| 33. GEOGRAPHIC NAMES RES | 34. JUNCTIONS RES | | 35. LEGIBILITY OF THE MANUSCRIPT RES |
| 36. DISCREPANCY OVERLAY XX | 37. DESCRIPTIVE REPORT RES | 38. FIELD INSPECTION PHOTOGRAPHS RES | 39. FORMS RES |
| 40. REVIEWER RES <i>P.E. Smith</i> | | SUPERVISOR, REVIEW SECTION OR UNIT ACR <i>Albert C. Rauch Jr.</i> | |
| 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 B. Wilson <i>B. Wilson</i> | | SUPERVISOR ACR <i>Albert C. Rauch Jr.</i> | |
| 43. REMARKS | | | |

Field Edit Report submitted with T-12608.

REVIEW REPORT T-12609
SHORELINE
May 1966

61. GENERAL STATEMENT

See summary accompanying Descriptive Report (page 6)

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-11312, 1:10,000, 1957, final review February 1958.

The Atlantic shoreline at Lighthouse Inlet has moved inland as much as 190 meters.

Some groins have been added from longitude $79^{\circ} 54' 35''$ east to Lighthouse Inlet.

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

63. COMPARISON WITH MAPS OF OTHER AGENCIES

JAMES ISLAND, S. C., US.G.S., 1:24,000, 1959

The maps are generally in agreement; the shoreline at Lighthouse Inlet shows the largest changes. The groins at East End and those to longitude $79^{\circ} 55' 30''$ are not on the quadrangle.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

BOAT SHEET: 20-1-65, 1:20,000, no date

Shoreline changes of up to 80 meters were made by the field editor in July 1965 to the original field inspected shoreline which was the shoreline used on the boat sheet.

65. COMPARISON WITH NAUTICAL CHARTS

CHART 792, 1:40,000, 4th Edition of February 14, 1966

There are some changes in the shoreline at Lighthouse Inlet and along the coast. These are to be expected in this area.

The groins between longitude $79^{\circ} 53' 45''$ and $79^{\circ} 54' 35''$ are omitted from the chart.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

No items are noted for future surveys.

Reviewed by:

M. M. Slavney
M. M. Slavney

Approved by:

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

Approved by:

Charles Lauer
Chief, Cartographic Branch
JLB

L. F. Woodward
Chief, Photogrammetry Division

Chief, Chart Division

Chief, Operations Division

NOTES TO VERIFIER
T-12609 Project 21420 (Ph-6207)
BOAT SHEET No. PE 20-1-65

Changes in the shoreline to 80 meters were made by the field editor in July 1965. The boat sheet shoreline was from the field inspection in November 1964.

U. S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY
WASHINGTON, D. C. 20235

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
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