

12292

ORIGINAL

12292

Form 504 U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY DESCRIPTIVE REPORT	
<i>Type of Survey</i> <u>Shoreline (Photogrammetric)</u>	
<i>Field No.</i>	<i>Office No.</i> <u>T-12292</u>
LOCALITY <i>State</i> <u>South Carolina</u> <i>General locality</i> <u>Long Bay</u> <i>Locality</i> <u>Singleton Lake</u>	
<div style="text-align: center;"><u>1963-1965</u> 1962-65</div> CHIEF OF PARTY J.K. Wilson, Chief of Field Party Allen L. Powell, Director, AMC	
LIBRARY & ARCHIVES DATE	

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

T-12292

PROJECT NO. (II):

Job PH-6217

FIELD OFFICE (III):

Myrtle Beach, South Carolina

CHIEF OF PARTY

Joseph K. Wilson

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center

OFFICER-IN-CHARGE

J. C. Bull, Director, Atlantic
Marine Center

INSTRUCTIONS DATED (II) (III):

11 September 1962 Field
14 October 1963 Office
10 January 1964 Office Amendment #1

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):

ARROWHEAD 1962

LAT.:

33° 45' 53."4329(1646.3m)

LONG.:

78° 46' 55."4416(14 26.7m)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

y = 285,696.26 Ft. x = 2,674,061.88 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

FIELD INSPECTION BY (II): Harvey G. Lucas Matthew A. Stewart Jim D. Shea		DATE: Nov. 63 Feb. 64 Feb. 64
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air photo compilation Date of photography 24 Aug. 1962 and 1 Sept. 1962		
PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree		DATE Dec. 1963
PROJECTION AND GRIDS CHECKED BY (IV): P. Silverman		DATE Dec. 1963
CONTROL PLOTTED BY (III): I. Saperstien		DATE Mar. 1964
CONTROL CHECKED BY (III): R. R. Wagner		DATE Mar. 1964
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): W. Heinbaugh		DATE Nov. 1964
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY R.J.Pate R.R.Wagner	DATE Feb 1965 Feb 1965
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): R. J. Pate		DATE Mar. 1965
SCRIBING BY (III): C. Blood		DATE Mar. 1965
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. E. Smith		DATE Feb. 1966
REMARKS: FIELD EDIT - 1965 (See page 17)		

FORM C&GS-181c
(3-66)U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"S" Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62-S-856A	24 Aug. 1962	0826	1:30,000	0.1
62-S-857A	"	0827	"	0.1
62-S-858A	"	0828	"	0.1
62-S-859A	"	0829	"	0.1
62-S-1067A	1 Sept. 1962	0803	1:30,000	5.1
62-S-1068A	"	0804	"	5.1

TIDE (III)

Predicted

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Charleston, S.C.		5.1	6.0
SUBORDINATE STATION: Myrtle Beach		5.1	6.0
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

Leo F. Pougnet, Atlantic Marine Center

DATE:

August 1966

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

13

RECOVERED:

6

IDENTIFIED:

None

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

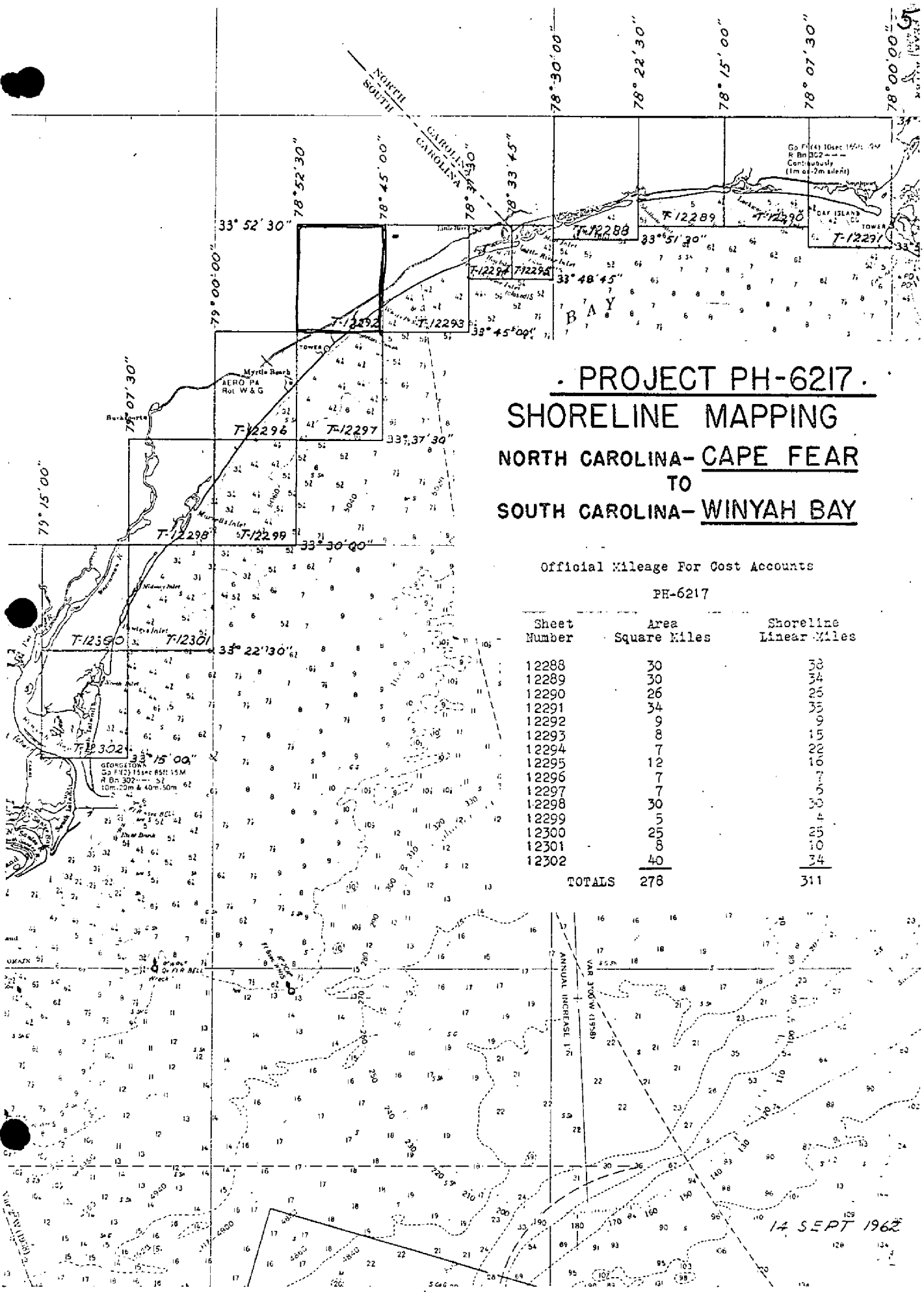
REMARKS:

COMPILATION RECORD

COMPLETION DATE

REMARKS

Manuscript complete pending Field	Feb. 1965	superseded
Field edit applied		
Compilation complete	July 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	25
12291	34	33
12292	9	9
12293	8	15
12294	7	22
12295	12	16
12296	7	7
12297	7	5
12298	30	30
12299	5	4
12300	25	25
12301	8	10
12302	40	34
TOTALS	278	311

14 SEPT 1962

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12292

Shoreline manuscript T-12292 is one of fifteen similar maps in this project. The primary purpose of the project is to provide new shoreline for nautical chart purposes and to provide photogrammetric photo-hydro support data for hydrographic surveys to be conducted in the same area.

Field operations preceding compilation included recovery and identification of horizontal control and field inspection.

Compilation was at 1:20,000 scale by Kelsh instrument methods using the 1:30,000 scale panchromatic photography obtained August 24, 1962.

A cronar positive showing shoreline, alongshore features and pass points will be furnished for preparation of the hydrographer's boat sheet along with specially prepared ratio prints for the location of hydrographic signals.

The manuscript is a vinylite sheet $7\frac{1}{2}$ minutes in latitude by $7\frac{1}{2}$ minutes in longitude from which the smooth sheet was drafted and reproduced on cronaflex. One cronar positive and one cronar negative are provided for record and registry.

FIELD INSPECTION REPORT
Project 21059
Maps T-12296 thru T-12299 and T-12292

This report is submitted for the five maps since there are no great differences in terrain, natural or cultural features which would require special treatment.

2. AREAL FIELD INSPECTION

The area lies between Murrells Inlet and Crescent Beach. It also includes a part of the Waccamaw River and is bordered on the east by the Atlantic Ocean. The photograph coverage is not complete for each map, therefore in accordance with instructions from Washington, field inspection has been completed to the limits of the photographs with the exception of a few places where photograph coverage extends beyond the map limits.

The portion adjacent to the Atlantic Ocean consists of almost a solid group of resort houses along the beach within the three northern maps, whereas with the exception of Murrells Inlet, the two southern maps along the ocean consist of low sand dunes. The area along the Waccamaw River consists of old abandoned rice fields and swamp.

Myrtle Beach is the largest town within the area. This is a summer resort with a population of about 8000 during the off season. The U. S. Air Force maintains a base and there is also a municipal airport at Crescent Beach which is named Myrtle Beach Airport.

The photographic quality was good for the entire area. Photographic tones were found to be similar to other areas along the South Atlantic Coast. The photographs used were flown in both 1962 and 1963, therefore, causing some areas to photograph slightly different. The field inspector has used the more recent photography where possible.

Photographs used for field inspection are listed below for individual maps:

<u>T-12292</u>	<u>T-12296</u>	<u>T-12297</u>	<u>T-12298</u>	<u>T-12299</u>
62-S-1065A	63-W-3040	62-S-860A	62-S-1078A	63-W-3043
" " 1066A	" " 3042	" " 1069A	" " 1079A	" " 3044
" " 1068A	62-S-861	" " 1070A	" " 1080A	
" " 1069A	" " 862		" " 1081A	
" " 856A	" " 1071A <i>Radio</i>		63-W-3045	
" " 857A	" " 1072		" " 3046	
" " 858A	" " 1071A		" " 3047	
" " 859A	" " 1073A		" " 3048	
	" " 1074A			

3. HORIZONTAL CONTROL

Horizontal control recovery and identification has been completed in accordance with project instructions.

The identification of horizontal control was accomplished in October 1963 and forms 152 and 526 (duplicate) were forwarded to Washington at that time.

Horizontal control stations reported "lost", "destroyed", or "not recovered" are listed below by maps:

<u>T-12292</u>	<u>T-12296</u>	<u>T-12297</u>
Loblolly, 1934	Myrtle, 1923	Mean, 1925
Kettle, 1923	PT 10 USGS, 1932	
Intracoastal Waterway Sta.	Brown, 1932	
1032/49.45 POT, 1934	Pine Island, 1934	
Intracoastal Waterway Sta.		
1017/44.75, 1934		
Intracoastal Waterway Sta.	<u>T-12298</u>	<u>T-12299</u>
891/50.0, 1934	Top, 1934	Floral, 1932
Intracoastal Waterway Sta.	Tank, 1935	(Shown dest. 1962)
737/22.78, 1934	Penthouse, 1934	
Intracoastal Waterway Sta.		
883/00.0, 1932		

4. VERTICAL CONTROL

A search was made for all tidal bench marks within the limits of these maps. Form 685A is submitted for each mark.

5. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage is almost entirely composed of tidal streams. Normal drainage is generally by direct run-off into marsh or swamp.

6. WOODLAND COVER

Woodland cover was classified in accordance with the Topographic Manual.

7. SHORELINE AND ALONGSHORE FEATURES

The high-water line has been indicated on the photographs by symbol in accordance with current instructions. No attempt was made to delineate the low-water line.

The field inspector accomplished this phase by several methods; measurements from identifiable points of detail, by visual inspection from skiff and by walking the shoreline.

All other shoreline features are adequately covered by field inspection noted on the photographs. There has been no great changed since photography.

8. OFFSHORE FEATURES

Several piling at Murrells Inlet were located by angles from photo points. These piling were originally private day beacons (single pile) marking the channel. No one maintains these markers anymore, therefore, it is recommended that they be shown on the maps as a single pile. The numbers, listed on form 24A, were used only for the convenience of the field party.

9. LANDMARKS AND AIDS

Five new nautical landmarks are recommended for charting on form 567. All old landmarks are also recommended.

All fixed aids to navigation are reported on form 567 for charting. There were no changes. The aids were located by several photogrammetric methods, namely; direct method, theodolite cuts from triangulation stations and photo points, and by sextant.

10. BOUNDARIES, MONUMENTS AND LINES

There have been no boundary lines shown.

11. OTHER CONTROL

There were no topographic stations established.

12. OTHER INTERIOR FEATURES

All roads were classified in accordance with Photogrammetry Instructions No. 56.

Field Inspection of buildings was done in accordance with Photogrammetry Instructions No. 54, revised September 22, 1961.

There were no bridge or cable clearances measured during this survey.

Marsh and swamp limits have been shown on the photographs where coverage was available.

FIELD INSPECTION REPORT
Project 21059
Maps T-12296 thru T-12299 and T-12292

13. GEOGRAPHIC NAMES

See special report of Geographic Names, project 21059,
which was submitted to Washington on 5 February 1964

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Control Identification to Washington	10-16-63
Control Identification to Washington	10-24-63
Map Data T-12300 thru T-12302 to Tampa	1-17-64
Geographic Name Report to Washington	2-10-64
Control Identification to Washington	2-13-64

25 February 1964
Submitted by:

Joseph K. Wilson
Chief, Photo Party 6420

AEROTRIANGULATION REPORT

Project No. 21059

Cape Fear to North Carolina

Winyah Bay to South Carolina

21. Area Covered

This report covers aerotriangulation bridging of the Atlantic Coast from Myrtle Beach, South Carolina to Cape Fear, North Carolina (T-Sheets T-12288 thru T-12295 and T-12297).

22. Method

Three strips were bridged on the stereoplanigraph and adjusted by IBM 1620 methods. All stations held within National Map Accuracy Standards, with the exceptions of Corncake RM #1, 1962 (Strip #3) and Goat, 1934, SS"A". All tie points were averaged. Plotting coordinates are furnished at 1:10,000 scale.

23. Adequacy of Control

Horizontal control provided was adequate in quality and coverage, with the exception of Corncake RM # 1, 1962, which could not be held in strip #3. It is believed that the RM #1 has been disturbed (see Form 526 Recovery Note). Another station should be identified in the area to complete T-Sheet No. T-12291, Goat 1934, SSA could not be clearly identified in strip #1 and was eliminated from the bridge.

24. Supplemental Data

None

25. Photography

Photography was adequate as to coverage, overlap, and definition.

Submitted by:

W. Heinbaugh
W. Heinbaugh

Approved by:

John P. Perrow Jr.
John P. Perrow, Jr.

COMPILATION REPORT T-12292
The Photogrammetric Plot Report submitted with T-12296.

31. DELINEATION

The Kelsh Plotter was used.

The photographs and Field inspection were 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

The shoreline inspection was adequate.

The low-water was based on office interpretation.

36. OFFSHORE DETAILS

No statement.

37. LANDMARKS AND AIDS

None

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38. CONTROL FOR FUTURE SURVEYS

There are no topographic or photo-hydro stations.

39. JUNCTIONS

Junctions have been made with T-12293 on the east and T-12297 on the south.

Project limits to the north and west.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with USGS Quadrangle Nixonville, S.C., scale 1:62,500, edition of 1942, They are in fair agreement.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart 1237, scale 1:80,000 1st edition, Jan. 1929, revised Nov. 5, 1962 and chart 835 scale 1:40,000, 1st edition March, 1952, revised April 18, 1955.

The two charts are not in agreement around Singleton Swash. The manuscript agrees with chart 835.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Approved and Forwarded:

R. J. Pate.
R. J. Pate
Cartographic Technician

Allen L. Powell
Allen L. Powell, RADM, NOAA
Director, Atlantic Marine Center

GEOGRAPHIC NAMES

Ph 6217 (Cape Fear, N.C.-Winyah Bay, S.C.)

T-12292(Shoreline)

Alligator Pond ✓

~~Atlantic Ocean~~ ✓

Bear Branch

Black Creek

Bear Bone Bay

Buck Bay

Boggy Swamp

Chapin Pond ✓

Canepatch Swamp

Cane Bay

House Pond ✓

Jones Big Swamp

Long Bay ✓

Lake Arrowhead ✓

Long Pond ✓

Long Branch

Oewis Ocean Bay

Mills Swamp

Old Bay

Outside Swamp

Prices Swamp

Sand Hill Pond ✓

Singleton Lake ✓

Singleton Swash ✓

Star Bluff Crossroads

Tiger Bay

Tilly Swamp

Watts Bay

*A. J. Wraight*A. J. Wraight
Geographic Names

✓ Only these names appear on this manuscript

T-12292

49. NOTES FOR THE HYDROGRAPHER

None

PHOTOGRAMMETRIC OFFICE REVIEW

T-10363 T-12292

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 RES		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 XX		18. OTHER ALONGSHORE PHYSICAL FEATURES RES		19. OTHER ALONGSHORE CULTURAL FEATURES RES	
PHYSICAL FEATURES							
20. WATER FEATURES XX				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 RJP <i>R. J. Pate</i>				SUPERVISOR ACR <i>Albert C. Rauch, Jr.</i>			
43. REMARKS							

FIELD EDIT REPORT
T-12292

No formal field edit report was received. Field edit data was received in the compilation office on the discrepancy print. The only notation on the discrepancy print was dated 27 March 1965.

There are no field edit notes on any of the photographs which cover this manuscript.

REVIEW REPORT T-12292

SHORELINE

August 16, 1966

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61. GENERAL STATEMENT

See summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with Registered Survey T-5244, 1:20,000 scale.

The shoreline in the area of Singleton Swash has changed considerably since the time of the old survey. This has been noted on the comparison print along with a minor change between longitude 78°45'00" and 78°46'00".

The interior has undergone some changes with the addition of new roads, the completion of the intracoastal waterway and other man made changes.

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

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. quadrangle NIXONVILLE, S. C., 1:62,500 scale, edition of 1942.

The two surveys are in good agreement except in the area of Singleton Swash where a part of the swash or stream has been filled.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Hydrographic surveys in the area of this manuscript had not been started at the time of final review.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 835-SC, 1:40,000 scale, 3rd edition, March 1966, and Chart 1237, 3rd edition, June 21, 1965. The shoreline of these charts and manuscript T-12292 are in good agreement.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

67. Field work pertaining to this manuscript can be found on the following photographs:

Horizontal control - 62-S-1067A

Field inspection notes - 62-S-856A thru 62-S-859A;

62-S-1065A, 1066A, 1068A, 1069A

Field edit notes - none

Reviewed by:

Leo F. Beugnet
Leo F. Beugnet
Cartographer

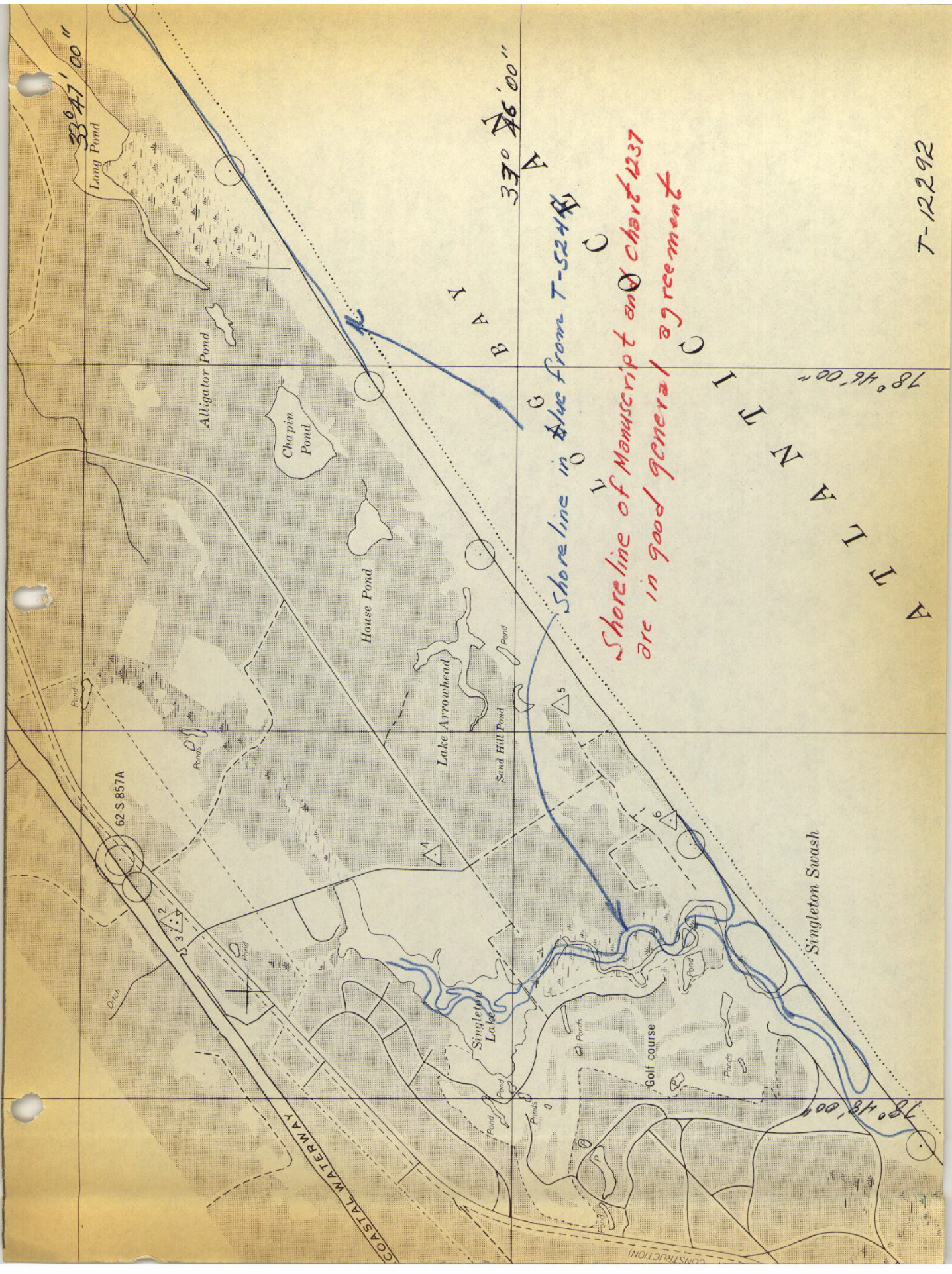
Approved:

Allen L. Powell
Allen L. Powell, RADM, NOAA
Director, Atlantic Marine Center

Approved:

Charles H. Hauer
Chief, Photogrammetric Branch

Jack E. Luth
Chief, Photogrammetry Division



T-12292

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

T-12292

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

USCOMM-DC 8558-P03