

TP00267

TP00267

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline
Job No. PH-7101 Map No. TP-00267
Classification No. Edition No. 1
Field Edited Map

LOCALITY

State South Carolina and Georgia
General Locality Charleston to Savannah
Locality Botany Bay Island

1970 TO 1974

REGISTRY IN ARCHIVES

DATE

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR
TO REGISTRATION

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
DESCRIPTIVE REPORT - DATA RECORD		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division(Norfolk)		SURVEY TP. <u>00267</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final(F.E.)</u> JOB PH. <u>7101</u>	
OFFICER-IN-CHARGE Jeffrey G. Carlen, Cdr.		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Aerotriangulation May, 1972 Compilation Sept., 1973		Sept., 1970	
II. DATUMS			
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify)	
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify)	
3. MAP PROJECTION Polyconic		4. GRID(S) STATE South Carolina ZONE South	
5. SCALE 1:20,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY		R.B. Kelly	Dec. 1973
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Coradomat</u> CHECKED BY		Allen Allen	Sept. 1973 Sept. 1973
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: <u>Wild B-8</u> CONTOURS BY SCALE: <u>1:20,000</u> CHECKED BY		L.B. Foltz A.L. Shands NA NA	Oct. 1973 Oct. 1973
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: <u>Smooth ink drafting</u> CONTOURS BY CHECKED BY SCALE: <u>1:20,000</u> HYDRO SUPPORT DATA BY CHECKED BY		L.B. Foltz A.L. Shands NA NA NA NA	Nov. 1973 Nov. 1973
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		A.L. Shands	Nov. 1973
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		R.R. White Frank Margiotta	June 1974 July 1974
7. COMPILATION SECTION REVIEW BY		Frank Margiotta	July 1974
8. FINAL REVIEW BY		Billy H. Barnes	Oct., 1975
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		Billy H. Barnes	March 3, 1976
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY			
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		R.T. CATDR	JUN 1976

TP-00267
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "E" and "I"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE SAVANNAH RIVER ENT.		(C) COLOR X		ZONE	
XX PREDICTED TIDES GA. (Hilton Head)		(P) PANCHROMATIC		Eastern	
<input type="checkbox"/> REFERENCE STATION RECORDS		(I) INFRARED X		MERIDIAN	
XX TIDE CONTROLLED PHOTOGRAPHY				75th	
				<input checked="" type="checkbox"/> STANDARD	
				<input type="checkbox"/> DAYLIGHT	

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
*71E(I)3140-3142	3/31/71	11:00	1:30,000	± 0.2 ft. at MHW
*71E(I)2308-2309	3/28/71	15:40	1:30,000	± 0.2 ft. at MLW
*71E(I)2383-2388	3/30/71	09:44	1:30,000	± 0.2 ft. at MHW
*71E(I)2296-2302	3/28/71	15:32	1:30,000	± 0.2 ft. at MLW
**70L(C)9833-9837	11/4/70	11:55	1:40,000	7.1 ft. above MLW
74E(C)4562-4566	4/6/74	09:36	1:20,000	3.6 ft. above MLW

REMARKS
 *Tide coordinated infrared photography
 **Bridge and compilation photography

2. SOURCE OF MEAN HIGH-WATER LINE:

Tide coordinated infrared photography except for a section of shoreline at latitude 32° 32.2' longitude 80° 14.5' (two inlets formed by Frampton Creek and the Townsend River) which was compiled from photographs flown at 1:20,000 scale on 6 April 1974.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

Tide coordinated infrared photography.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
No survey	TP-00268	TP-00270	No survey

REMARKS

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

TP-00267

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	Joseph K. Wilson	10/70
2. HORIZONTAL CONTROL	RECOVERED BY Richard E. Kesselring	10/70
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY R.E. Kesselring	10/70
3. VERTICAL CONTROL	RECOVERED BY NA	
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY NA	
	LOCATED (Field Methods) BY NA	
	IDENTIFIED BY NA	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY NA	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

Pre-marked

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
70L(c)9834A	SEABROCK 2 RM. 3, 1963	71E(c)019	SAMP, 1933 (not used in compilation of this sheet)
70L(c)9837A	EDISTO BEACH STATE WATER TANK, 1963		
71E(c)024	WHITE POINT, 1933		
(not used in compilation of this sheet)			

3. PHOTO NUMBERS (Clarification of details)

NA

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

NA

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

6-C&GS Forms 152
 3- " " 266
 3- " " 269c

TP-00267
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	Richard D. Black	Apr. 1974
	RECOVERED BY Richard D. Black	Apr. 1974
2. HORIZONTAL CONTROL	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
3. VERTICAL CONTROL	RECOVERED BY None	
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY Richard D. Black/Kesselring	
	LOCATED (Field Methods) BY Richard D. Black	Jan. 1974
	IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY R.D. Black	Jan. 1974
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY None	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

28 MAR 71E 2297 and 2299

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

Plans of Seabrook Island Company.

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

F.E. SHEET (PAPER)

Seven (7) forms C&GS 526(recovery notes); Four (4) forms NOAA 76-40; One (1) form C&GS 157(position of intersected station); Two (2) C&GS forms 24A; Two (2) forms C&GS 470; One (1) form C&GS 382; One (1) form C&GS 152.

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	11/ /73	Class III Manuscript Superseded	2/4/74	12/13/73 Field Edit
Field edit applied Compilation complete	6/ /74	Class I Manuscript Superseded	9/10/74	
Final Review	10/ /75		1/30/76	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
	92974	7/29/74	Non-floating Aid
	92974	7/29/74	Landmark
	92974	7/29/74	Landmark (deleted)

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 7/29/74
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS 76-40 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
FOURTH	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	

CHARLESTON to SAVANNAH
So. CAROLINA to GEORGIA
SHORELINE MAPPING

SCALE 1:10,000 & 1:20,000

Official Mileage
for Cost Accounts

Sheet No. - Area Sq. Mi.

TP-00257	8
TP-00258	7
TP-00269	9
TP-00270	1
TP-00271	10
TP-00272	4
TP-00273	1
TP-00274	3
TP-00275	3
TP-00276	3
TP-00277	12
TP-00278	4
TP-00279	3

Total 63

Revised 1/7/79

0-28

30'

84.00
55.00
25.00

5

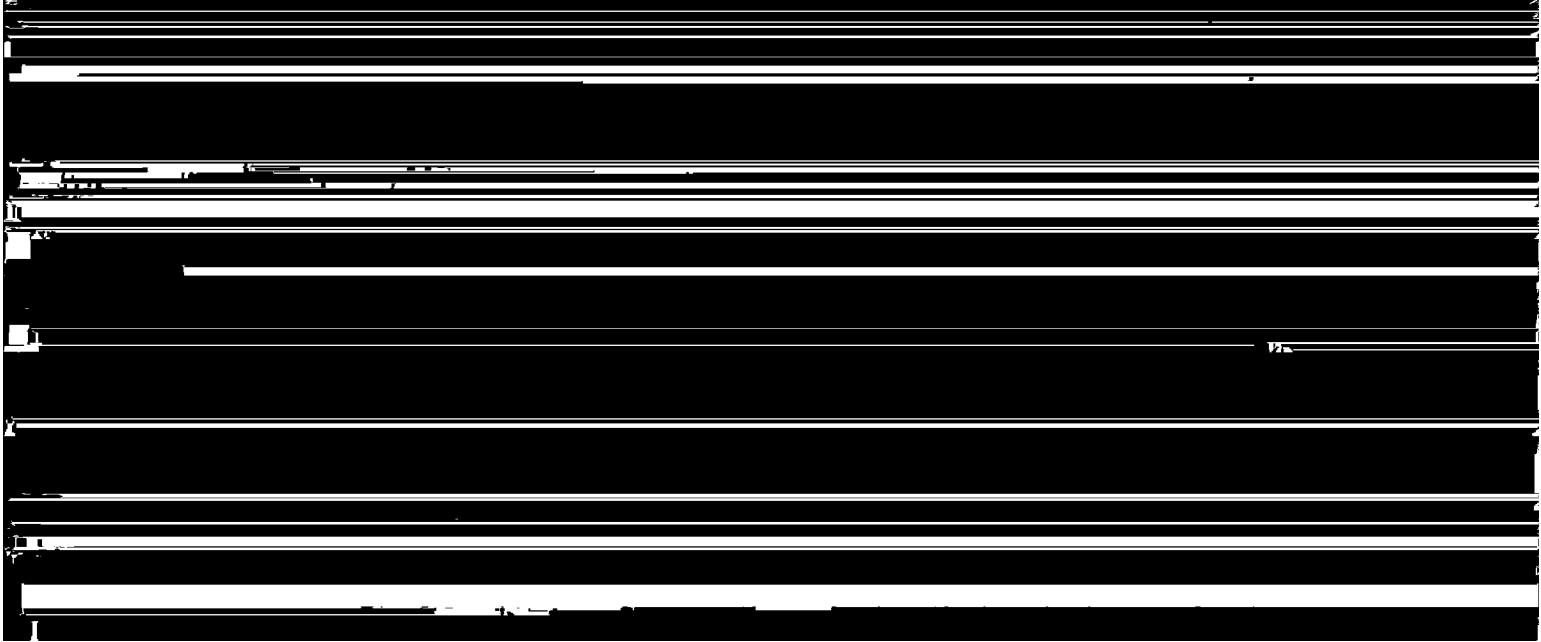
SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT TP-00267

This 1:20,000 scale shoreline manuscript is one of nine 1:20,000 scale and four 1:10,000 scale maps which comprise Project PH-7101, Charleston, SC to Savannah, GA. This is one of several projects that make up SCOPE, the Southern Coastal Plains Expedition. It is not a standard shoreline survey because compilation was limited to the ocean shoreline and only a limited amount of interior detail. Shoreline of bays, inlets, canals or rivers that may be within the geographic limits of this map were not delineated. This deviation from written instructions was brought about by verbal instructions telephoned from the Rockville office to the Chief, Coastal Mapping Section, AMC.

Field work prior to compilation consisted of premarking horizontal control for bridging.

Analytic aerotriangulation was done in the Rockville Office in 1973 using the 1:40,000 scale, color photography dated November 1970. Bridge points were dropped common to the 1:30,000 scale, March 1971, infrared photography for ordering ratios.

Compilation was done at the Atlantic Marine Center in October and November 1973. The Wild B-8 Plotter using the November 1970 bridging photography was used to compile inshore features and to drop shoreline pass points common to the March 1971 tide coordinated mean high water and mean low water photographs. The mean high and mean low water lines were delineated graphically from the 1971 ratioed photographs with the exception of an area at latitude $32^{\circ} 32.2'$ longitude $80^{\circ} 14.5'$ which was compiled from 6 April 1974, color, 1:20,000 scale photography taken in conjunction with edit.



7

Photogrammetric Plot Report
Charleston to Savannah
South Carolina and Georgia
Job PH - 710F

21. Area Covered

This report covers nine 1:20,000 sheets, TP-00267, TP-00268, TP-00269, TP-00270, TP-00271, TP-00272, TP-00273, TP-00277, TP-00279 and four 1:10,000 sheets, TP-00274, TP-00275, TP-00276, and TP-00278 from Kiawah River, South Carolina, to Tybee Island, Georgia.

22. Method

Eight strips 1:40,000 scale color photography were bridged by analytic aerotriangulation methods and adjusted to ground on South Carolina South State Plane coordinate system. Bridge points were used on 1:30,000 scale infrared photography for ratioing photographs to be used in compiling the Mean Low- and Mean High-Water Line. Ratio prints of infrared photography covering Mean Low- and Mean High-Water were ordered. (One each of cronapaque). Tie points were used to augment datum between strips. Data for plotting manuscripts for compilation were assembled for ruling and plotting by the Coradomat and Calcomp.

23. Adequacy of Control

The horizontal control provided was adequate except for Fusky (USE) 1932 sub stations A and C, which held in strip one and did not hold in strip two, because of poor image points. Also, Chan, 1933, substation A and C did not hold in strip four because of poor image points.

All other control held within the accuracy required by National Standards of Map Accuracy at 1:20,000 and 1:10,000 scale.

24. Supplemental Data

U.S. Geological Survey quadrangles were used to provide elevations for vertical adjustments of bridges.

25. Photography

RG-8 color film positives were adequate as to coverage, overlay, and definition.

Submitted by,

Robert B. Kelly

Approved and forwarded:

J. D. Perrow, Jr.

J. D. Perrow, Jr.

Chief, Aerotriangulation Section

Robert B. Kelly
Dec. 10, 1973

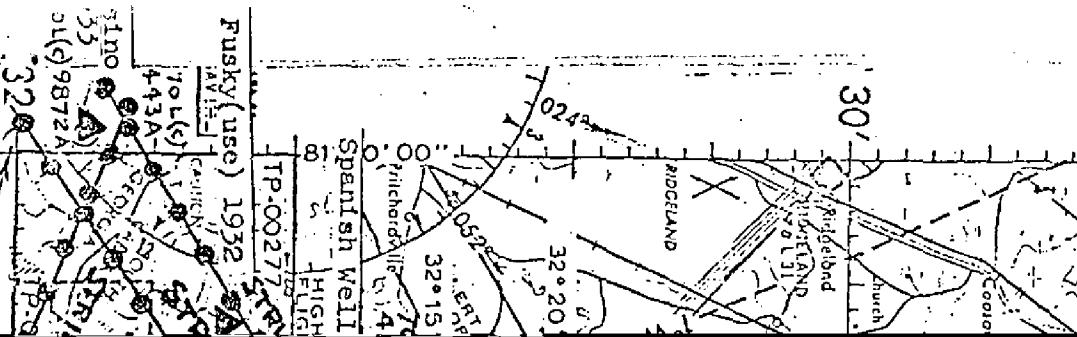
PH-7101
Charleston to Savannah

NOTE TO COMPILER

Foreshore Cross Section points listed below were omitted during bridging. Points should be dropped during compilation.

Section II	68-01
Section VII	69-01
Section VIII	69-02
Section IX	73-01
Section XIII	79-01

CHAF
So. C
St



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443A-
01(6)9872A
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9916

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY			
TP-00267	PH-7101	N.A. 1927				
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE <u>South Carolina</u> ZONE <u>South</u>	GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE	REMARKS	
SEABROOK 2, 1915	Vol. III pg. 327		X=	ϕ 32° 33' 48.465"		
			Y=	λ 80° 10' 38.158"		
EDING, 1963	Vol. III pg. 362		X=	ϕ 32° 31' 16.472"		
			Y=	λ 80° 16' 19.803"		
EDISTO ISLAND EAST / BASE, 1849	Vol. III pg. 357		X=	ϕ 32° 33' 15.301"		
			Y=	λ 80° 13' 34.369"		
EDISTO BEACH STATE PARK WATER TANK, 1963	Vol. III pg. 367		X=	ϕ 32° 30' 41.241"		
			Y=	λ 80° 17' 57.626"		
EDISTO ISLAND WEST BASE, 1849	Vol. III pg. 359		X=	ϕ 32° 30' 28.302"		
			Y=	λ 80° 19' 34.832"		
PAVILION, 1963	Vol. III pg. 363		X=	ϕ 32° 30' 16.740"		
			Y=	λ 80° 17' 40.711"		
SEABROOK 2, RM 3, 1963	Vol. III pg. 328		X=	ϕ 32° 33' 50.666"		
			Y=	λ 80° 10' 36.259"		
NORTH EDISTO RIVER ENT- RANCE RANGE FRONT LIGHT, 1954	Vol. III pg. 374		X=	ϕ 32° 34' 56.354"		
			Y=	λ 80° 12' 30.143"		
NORTH EDISTO RIVER ENT- RANCE RANGE REAR LIGHT, 1963	Vol. III pg. 374		X=	ϕ 32° 35' 19.912"		
			Y=	λ 80° 12' 58.043"		
			X=	ϕ		
			Y=	λ		
COMPUTED BY L.B. Foltz		DATE 11/12/73	COMPUTATION CHECKED BY F.R. Gustafson			DATE 11/12/73
LISTED BY		DATE	LISTING CHECKED BY			DATE
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY			DATE

COMPILATION REPORT

TP-00267

31. DELINEATION

Delineation was by the Wild B-8 stereoplotter.

Photo coverage was adequate. The mean high water line and the mean low water line were compiled graphically from tide co-ordinated infrared photography taken at mean high and mean low water.

32. CONTROL

See the attached "Photogrammetric Plot Report," dated: 12/10/73

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

Alongshore details were delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

Copies of Form 76-40 for 2 non-floating aids to navigation and 1 landmark were forwarded to the Rockville, MD office on July 26, 1974.

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS

See the attached Form 76-36b, item #5 of the Descriptive Report, concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement required.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with the following U.S. Geological Survey Quadrangle: ROCKVILLE, SC, dated 1960; Photo-revised 1971, scale 1:24,000. EDISTO ISLAND, SC, dated 1960, scale 1:24,000.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean Survey Charts: 792, 6th edition, dated April 1, 1972; scale 1:40,000 and 793, 6th edition, dated October 21, 1972.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ADDENDUM TO THE COMPILATION REPORT

TP-00267

FIELD EDIT

All questions were answered and field edit was adequate. A special flight of five photographs was taken in conjunction with field edit. They covered an area of shoreline at latitude $32^{\circ} 32.2'$ longitude $80^{\circ} 14.5'$ which has a new inlet formed by the Townsend River. Compilation used these 6 April 1974, 1:20,000 scale, color photos and the field edit to delineate the inlet and the changes in the surrounding shoreline.

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

Albert C. Rauck, Jr.
for L.B. Foltz
Cartographic Technician
11/8/73

Approved:

Albert C. Rauck, Jr.
Albert C. Rauck, Jr.
Chief, Coastal Mapping Section, AMC

19 August 1975

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7101 (Charleston, S. C. to Savannah, Ga.)

TP-00267

Atlantic Ocean

Seabrook Island

Botany Bay Island

South Creek

Deveaux Bank

Townsend River

Edingsville Beach

Edisto Beach

~~Edisto Beach State Park~~

Edisto Island

Frampton Creek

Frampton Inlet

Jeremy Inlet


North Edisto River

Privateer Creek

Privateer Point

Scott Creek

Approved by

Chas. E. Harrington
Staff Geographer-C51x2

NOAA FORM 75-74 (2-74)		U.S. DEPARTMENT OF COMMERCE NOAA NATIONAL OCEAN SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW			
TP-00267			
1. PROJECTION AND GRIDS A.L.S.	2. TITLE A.L.S.	3. MANUSCRIPT NUMBERS A.L.S.	4. MANUSCRIPT SIZE A.L.S.
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY A.L.S.	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA	7. PHOTO HYDRO STATIONS X X	
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES X X	10. PHOTOGRAMMETRIC PLOT REPORT A.L.S.	11. DETAIL POINTS A.L.S.
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE A.L.S.	13. LOW-WATER LINE A.L.S.	14. ROCKS, SHOALS, ETC. A.L.S.	15. BRIDGES X X
16. AIDS TO NAVIGATION A.L.S.	17. LANDMARKS A.L.S.	18. OTHER ALONGSHORE PHYSICAL FEATURES A.L.S.	19. OTHER ALONGSHORE CULTURAL FEATURES A.L.S.
PHYSICAL FEATURES			
20. WATER FEATURES A.L.S.	21. NATURAL GROUND COVER NA		22. PLANETABLE CONTOURS NA
23. STEREOSCOPIC INSTRUMENT CONTOURS NA	24. CONTOURS IN GENERAL NA	25. SPOT ELEVATIONS NA	26. OTHER PHYSICAL FEATURES X X
CULTURAL FEATURES			
27. ROADS A.L.S.	28. BUILDINGS A.L.S.	29. RAILROADS X X	30. OTHER CULTURAL FEATURES X X
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES A.L.S.	34. JUNCTIONS A.L.S.		35. LEGIBILITY OF THE MANUSCRIPT A.L.S.
36. DISCREPANCY OVERLAY A.L.S.	37. DESCRIPTIVE REPORT A.L.S.	38. FIELD INSPECTION PHOTOGRAPHS X X	39. FORMS A.L.S.
40. REVIEWER A.L. Shands		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> A.C. Rauck, Jr.	
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 R.R. White		SUPERVISOR <i>Albert C. Rauck, Jr.</i>	
Checked: F. Margiotta		A.C. Rauck, Jr.	
43. REMARKS Field edit applied from: Field edit ozalid, field photographs 71E(I)2297 and 2299. Also special set of photographs 74E(C) 4562 thru 4566 and Plot Plan of Seabrook Island, SC prepared by W.C. Byrd and Assoc., Rev. October 27, 1972.			

FORESHORE CROSS-SECTIONS

CHARLESTON, SOUTH CAROLINA TO SAVANNAH, GEORGIA

JOB PH-7101

Sixteen foreshore cross-sections were taken between Folly Island, South Carolina, and Tybee Island, Georgia, a linear distance of approximately seventy miles. Twelve sections were positioned from triangulation and/or traverse stations and two sections, II and XIII, were located from photo points with sun azimuths. Section IX was located from a triangulation station using a photo point for an azimuth and section VII was run parallel to a relatively long pier.

Vertical control for sections I thru VI, VIII and IX was taken from the tide staff at Edisto Beach, South Carolina. Section VII was based on a temporary tide staff installed at Harbor River Entrance, South Carolina, and a temporary tide staff placed at Skull Creek(North Entrance) provided the control for sections X and XI. The remaining sections were based on the tide staff at Savannah River Entrance, Georgia.

The procedure, in establishing the TTM's used to control the individual sections, was to take a level reading on a recoverable object for use as a TTM, record it as a foresight, and then send the rodman into the water where the rod was used as a combination tide staff/level rod. After observing the water level on the rod for a period sufficient to determine a mean reading, a level reading was taken. The water level reading was subtracted from the level reading and the result entered in the field book as a backsight. Immediately, the instrument was moved, a new water level reading determined and another level reading obtained. Again the two were subtracted and the result entered as a foresight. The rodman was then sent back to the TTM to close the loop. The entries in the field book show this procedure reversed. This was done to avoid confusion as there didn't appear to be any adequate method of showing the actual procedure. The remainder of the operation was straightforward leveling with an angle and distance to the mean high and low water lines thrown in.

Time differences for each section were calculated in advance to eliminate any datum correction; for example, if a minus time were indicated for a particular section, then the water level readings on the tide staff/level rod would be obtained first and the man on the controlling tide staff informed of the time of the readings. The tide staff man would then wait the calculated length of time for the section involved before reading the controlling tide staff. For plus times, the procedure was reversed. Information was exchanged between the controlling tide staffs and the individual sections via radio. At sections I and XII, no radio communications were available. For these two sections, the controlling tide staff was read and recorded at fifteen minute intervals and the height of the water at the time of the water level readings computed at a later time.

As no specific instructions were given to the contrary, cross-section shots were taken of the foreshore at twenty, thirty, and sometimes, fifty foot intervals, depending on the length of the section. Whether they are necessary, or even wanted, is not known, but as they only took about five to ten minutes extra for each section, they were included anyway.

One typical section and three atypical sections were plotted to give the compiler an idea of what was done and to show the method of location. These sections, the field book, pricking cards, sun azimuths, color contact photographs and charts showing the individual section locations are

Richard E. Kesselring

Richard E. Kesselring
Survey Tech.
May 3, 1971

FIELD EDIT REPORT

TP-00267

Botany Bay Island, South Carolina
PH-7101

51. METHODS

All field work was done in accordance with the AMC Manual, current Photo Instructions and Project Instructions OPR-436-WH-74, "Coasts of South Carolina and Georgia" dated November 16, 1973 addressed to Chief, Atlantic Hydrographic Party.

An inspection of all shoreline and alongshore features was made, and all deletions, additions, corrections, and verifications are either shown or indexed on the field edit ozalid. All field edit notes are in violet ink.

The listed geodetic positions of the North Edisto River range lights were verified by theodolite cuts. Four new groins (lat. $32^{\circ} 34.2'$, long. $80^{\circ} 11.2'$) were located by taped distances from photogrammetric control points. The main entrance road to Seabrook Island is to be compiled by the photogrammetry office from information included on the "Plans of Seabrook Island Company" and photograph 71E2297R. A special set of aerial photographs was taken in April, 1974 by the Air Photo Mission to aid in compilation of a new inlet formed at lat. $32^{\circ} 32.1'$, long. $80^{\circ} 14.4'$.

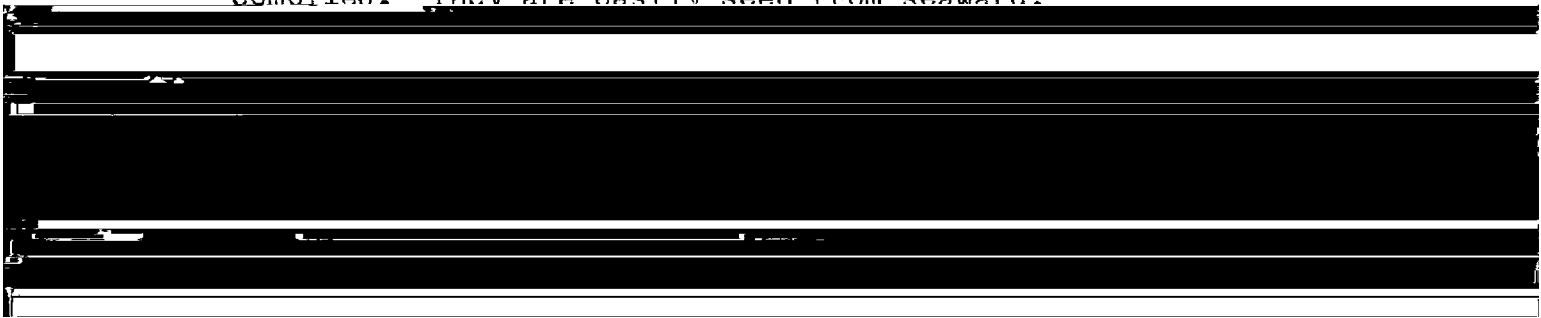
52. ADEQUACY OF COMPILATION

Compilation of shoreline and alongshore features was generally adequate, except as noted below. Compilation will be complete when field edit notes are applied.

A new inlet at lat. $32^{\circ} 32.1'$, long. $80^{\circ} 14.4'$ has been formed since photography. This inlet will be compiled from the special set of photographs referred to above.

Seabrook Island inshore details have changed considerably since photography due to private construction and development. All significant changes on this island are noted on the field edit ozalid and corrections have been made.

It is recommended that the sand dunes along the shoreline of Edisto Beach State Park (lat. $32^{\circ} 30.5'$, long. $80^{\circ} 17.5'$) be compiled. They are easily seen from seaward.



57. LANDMARKS AND AIDS TO NAVIGATION

Two non-floating aids to navigation are recommended for charting. They are the North Edisto River channel range lights, and both are triangulation stations.

One landmark, the Edisto Beach State Park water tank, is recommended for charting.

The "CLUB HOUSE" (lat. $32^{\circ} 33.8'$, long. $80^{\circ} 10.7'$) shown on charts 1239, 792, and 793 should be deleted. It now blends in with the surrounding houses and buildings.

Forms 76-40 have been completed for all of the above.

58. FIELD EDITORS

Field edit was performed by Lt.(jg) Richard D. Black and Mr. Michael F. Sutphin of Photo Party 61.

Respectfully Submitted,

Richard D. Black 18 April 1974

Richard D. Black
Lt.(jg) NOAA
Chief, Photo Party 61

[illegible]

[illegible]

REVIEW REPORT TP-00267

SHORELINE

October 1975

61. GENERAL STATEMENT:

See Summary which is page six of this Descriptive Report.

A comparison print showing differences noted in paragraphs 62, 63 and 65 is included with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with T-12610, scale 1:20,000, dated April 1966 and T-12611, scale 1:20,000, dated July 1965.

Significant differences are shown in blue on the comparison print. In the area compared, TP-00267 supersedes T-12610 and T-12611 for nautical chart construction purposes. T-12610 and T-12611 are the latest registered prior surveys of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with U.S.G.S. Quadrangles EDISTO ISLAND, SC, scale 1:24,000, dated 1960 and ROCKVILLE, SC, scale 1:24,000, dated 1960 (Photo-Revised 1971). Significant differences are shown in brown on the comparison print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with H-9196 (20-1-71), scale 1:20,000, dated 1971. There were no significant differences noted.

65. COMPARISON WITH NAUTICAL CHARTS:

The area covered by this map is within the limits of NOAA Charts 11522, scale 1:40,000, 7th edition, dated August 17, 1974 and 11517, scale 1:40,000, 7th edition, dated August 24, 1974. Significant differences are shown in red on the comparison print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with Project Instructions, except as explained in Summary and meets the requirements for Bureau Standards and the National Standards of Map Accuracy.

Reviewed by:

Billy H. Barnes

Billy H. Barnes
Cartographer
October, 1975

Approved for forwarding:

Joseph W. Vonasek
Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

TP-00267
1:20,000

23

71E(7)2300

32° 32'

COMPARISON PRINT
Red = Chart 11522
Blue = T-12610
Brown = USGS

71E(7)2354

EDING, 1963

32° 31'

Edisto Beach State Park

△ EDISTO BEACH STATE PARK
WATER TANK, 1963
Steel Ht = 88(94) ft

PAVILION 1963

Groin

Pier

Groins

18'

X=2,220,000 FT

80° 17'

32° 30'

80° 16'

NOTE: Unlabeled circles are photogrammetric
plot points, not map features

SEABROOK ISLAND

TP-00267
1:20,000

24

SEABROOK 2, RM 3, 1963
SEABROOK 2, 1915

Area under construction

Private road

Shoreline subject to frequent change

MLW

Groins

Shoal

Ma

Pond

Marsh

SOUTH CREEK

Area Subject to frequent change

MLW

Breakers

Devaux Bank

Shoal

COMPARISON PRINT

- Red = Chart 11522
- Blue = T-12611
- Brown = USGS

80°12'

80°13'

24

School

800121

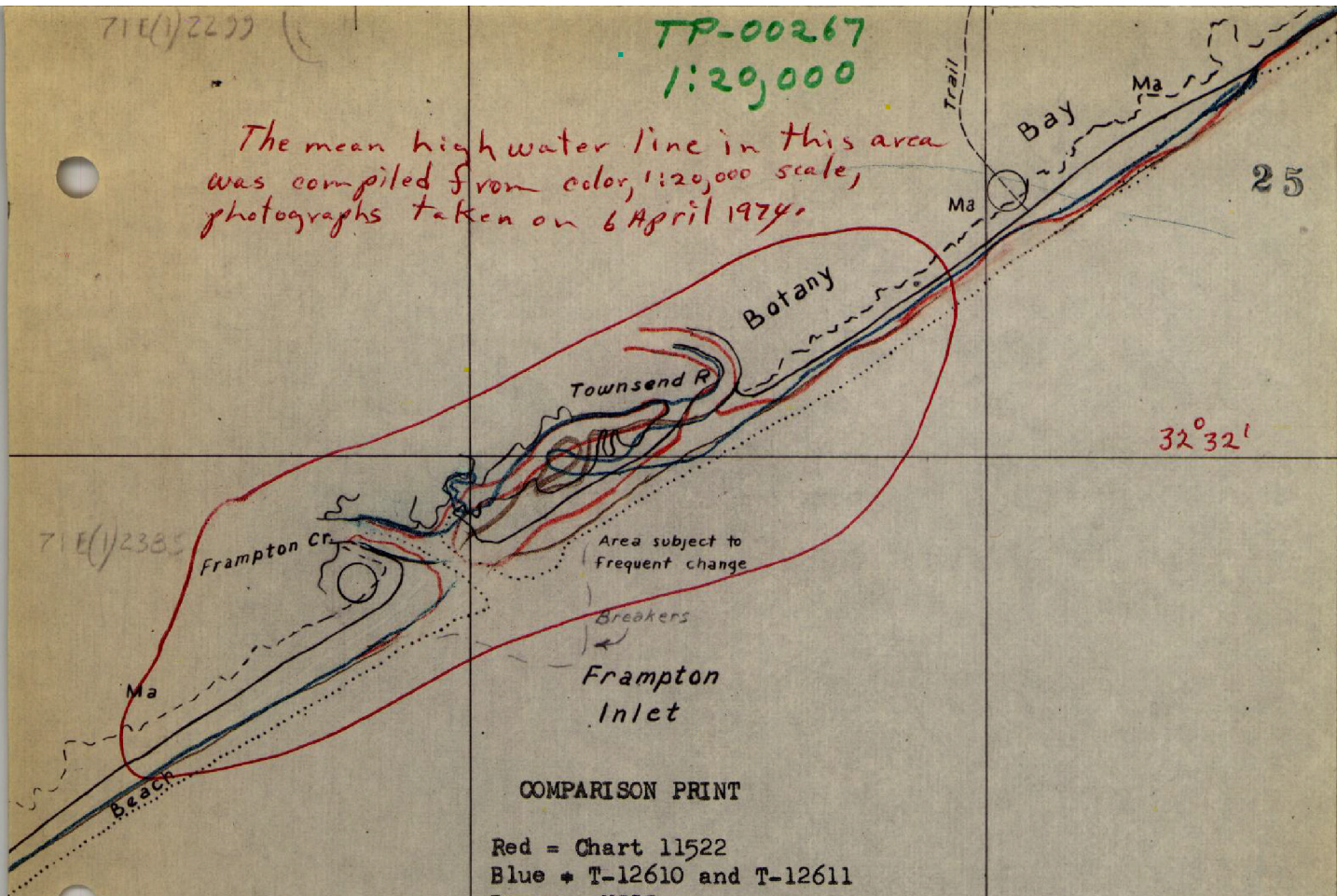
80131

COMPARISON PRINT
Red= Chart 11522
Blue = T-12611
Brown = USGS

71E(1)2299

TP-00267
1:20,000

The mean high water line in this area
was compiled from color, 1:20,000 scale,
photographs taken on 6 April 1974.



71E(1)2385

COMPARISON PRINT

Red = Chart 11522
Blue = T-12610 and T-12611
Brown = USGS

ATLANT

X = 2,230,000 FT

80° 15'

80° 14'

X = 2,240,000 FT