

TP-00277

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-00277...
Classification No. Edition No. ... 1
Field Edited Map ✓

LOCALITY

State ... South Carolina and Georgia ✓
General Locality ... Charleston to Savannah ✓
Locality ... SAVANNAH RIVER ✓

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) - OFFICER-IN-CHARGE Jeffrey G. Carlen, Cdr. -		SURVEY TP- <u>00277</u> MAP EDITION NO. <u>14</u> MAP CLASS <u>Final (F.E.)</u> JOB PH- <u>7101</u>	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division(Norfolk) - 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: Analytic LANDMARKS AND AIDS BY		R.B. Kelly -	Dec. 1973 -
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY		D. Phillips - D. Phillips -	Dec. 1973 - Dec. 1973
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 - SCALE: 1:20,000 - CONTOURS BY CHECKED BY		C. Blood - A. Rauck - NA NA	Jan. 1974 - Jan. 1974 -
4. MANUSCRIPT DELINEATION PLANIMETRY BY Smooth ink tracing of reduction of 1:10,000 CHECKED BY METHOD: scale TP-00274 & TP-00278 CONTOURS BY CHECKED BY SCALE: 1:20,000 - HYDRO SUPPORT DATA BY CHECKED BY		Charles Parker - A. Rauck - NA NA NA NA	Jan. 1974 Jan. 1974
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		A. Rauck -	Jan. 1974
6. APPLICATION OF FIELD EDIT DATA Traced BY Traced CHECKED BY		F. Margiotta - A. Rauck, Jr. -	Aug. 1974 Aug. 1974
7. COMPILATION SECTION REVIEW BY		F. Margiotta -	Aug. 1974
8. FINAL REVIEW BY		Billy H. Barnes -	Dec. 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. CATOK	JUN 1976

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00277
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "E" and "L"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE SAVANNAH RIVER <input checked="" type="checkbox"/> PREDICTED TIDES ENTRANCE <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR X (P) PANCHROMATIC (I) INFRARED X		ZONE Eastern	<input checked="" type="checkbox"/> STANDARD
				MERIDIAN 75th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
* 71E(I)2336 - 2338	3/30/71	08:52	1:30,000	+ 0.2 ft. of MHW	
* 71E(I)2344 - 2347	3/30/71	09:01	1:30,000	+ 0.2 ft. of MHW	
* 71E(I)2250 - 2253	3/28/71	13:12	1:30,000	+ 0.2 ft. of MLW	
* 71E(I)2257 - 2261	3/28/71	13:17	1:30,000	+ 0.2 ft. of MLW	
70L(C)447A-449A	11/7/70	10:12	1:40,000	2.0 ft. above MLW	
70L(C)9923A & 9924A	11/5/70	10:29	1:40,000	6.0 ft. above MLW	

REMARKS

*Tide Controlled infrared photography.

2. SOURCE OF MEAN HIGH-WATER LINE:

Tide controlled infrared photography.

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

Tide controlled 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-00279	No Survey	No Survey

REMARKS

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00277
HISTORY OF FIELD OPERATIONS1. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J.K. Wilson	June, 1971
2. HORIZONTAL CONTROL	RECOVERED BY J.K. Wilson ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY R.E. Kesselring	June, 1971
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 None LOCATED (Field Methods) BY None IDENTIFIED BY None	
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	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

Premarked

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER

STATION NAME

PHOTO NUMBER

STATION DESIGNATION

70L(C)9866A FUSKY (USE), 1933 ✓

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER

OBJECT NAME

PHOTO NUMBER

OBJECT NAME

5. GEOGRAPHIC NAMES:

☐ REPORT☒ NONE

6. 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)

1 Form 152

NOAA FORM 76-36C
(3-72)

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONTP-00277
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Manuscript complete pending field edit	1/30/74	Class III Manuscript Superseded	2/4/74	2/4/74
Field edit applied from TP-00274 & TP- 00278 by Transfer	8/26/74	Class I Superseded	9/10/74	
Final Review	12/ /75		11/30/76	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
	97174	7/31/74	Nonfloating aids
	97174	7/31/74	Landmarks

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 7/31/74
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 567 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 MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

JOB PH-7101

PLESTON to SAVANNAH
AROLINA to GEORGIA
CORELINE MAPPING

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

Official Mileage
for Cost Accounts

Sheet No. - Area Sq. Mi.

TP-00267
TP-00268
TP-00269
TP-00270
TP-00271
TP-00272
TP-00273
TP-00274
TP-00275
TP-00276
TP-00277
TP-00278
TP-00279

Total 68

Revised 11/4/74

80°

30'

80° 53'
30° 55'
10° 48'

3

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT TP-00277

This map is a tracing of a photo-reduction of 1:10,000 scale maps TP-00274 and TP-00278. The Summaries for those maps are applicable to this map.

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.

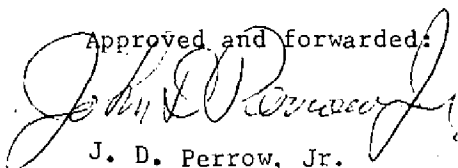
25. Photography

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

Submitted by,

Robert B. Kelly

Approved and forwarded:



J. D. Perrow, Jr.

Chief, Aerotriangulation Section

PH-7101
Charleston to Savannah

NOTE TO COMPILER

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

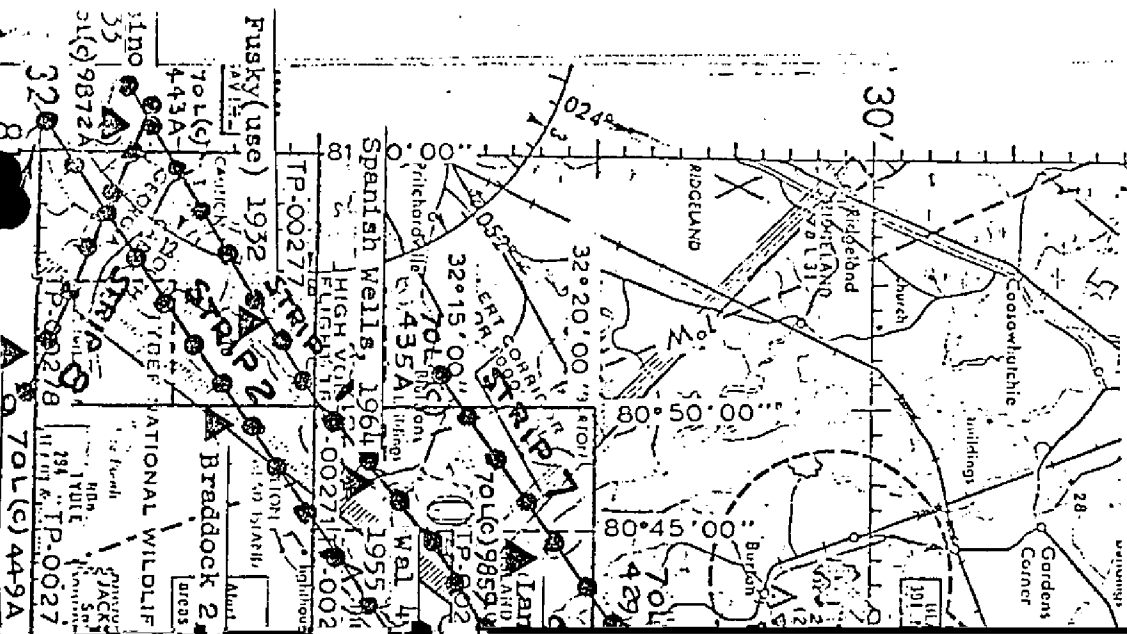
Section II	68-01
Section VII	69-01
Section VIII	69-02
Section IX	73-01
Section XIII	79-01

JOB PH-7

CHARLESTON to
SO. CAROLINA to

SHORELINE MAP

SCALE 1:10,000 & 1:20



8
32° 20' 00\"/>

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET STATE <u>South Carolina</u> ZONE <u>South</u>	GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE	REMARKS
STATION NAME	SOURCE OF INFORMATION (Index)				
TP-00277 & TP-00278	PH-7101		N.A. 1927		
BLOODY POINT RANGE REAR LIGHT, 1964	Vol. III Pg. 431		X=	ϕ 32° 03' 17.590"	
			Y=	λ 80° 50' 23.135"	
FORT PULASKI, 1963	Quad 320- 803 STA 1044		X=	ϕ 32° 01' 38.952"	
			Y=	λ 80° 53' 27.569"	
TYBEE LIGHTHOUSE, 1932	Quad 320- 803 STA 1052		X=	ϕ 32° 01' 19.301"	
			Y=	λ 80° 50' 44.985"	
SAVANNAH BEACH MUNICI- PAL WATER TANK, 1963	Quad 320- 803 STA 1058		X=	ϕ 32° 00' 39.717"	
			Y=	λ 80° 50' 31.690"	
JONES ISLAND RANGE FRONT LIGHT, 1964	Vol. III Pg. 432		X=	ϕ 32° 02' 30.954"	
			Y=	λ 80° 51' 10.695"	
JONES ISLAND RANGE REAR LIGHT, 1964	Vol. III Pg. 433		X=	ϕ 32° 02' 39.669"	
			Y=	λ 80° 51' 40.736"	
COCKSPUR LIGHTHOUSE, 1902	Quad 320- 803 STA 1055		X=	ϕ 32° 01' 20.912"	
			Y=	λ 80° 52' 48.601"	
BLOOD, 1964	Bridge Form 164, Pg. 1		X= 2,039,737.70 ft.	ϕ	
			Y= 90,977.31 ft.	λ	
BACK, 1931	Bridge Form 164 Pg. 13		X= 2,051,586.65	ϕ	
			Y= 115,820.52	λ	
			X=	ϕ	
			Y=	λ	
COMPUTED BY F.R. Gustafson		DATE 11/15/73	COMPUTATION CHECKED BY L.B. Foltz		DATE 11/15/73
LISTED BY		DATE	LISTING CHECKED BY		DATE
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.		JOB NO.		GEODETTIC DATUM		ORIGINATING ACTIVITY		
TP-00277		PH-7101		N.A. 1927				
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS	
			STATE	ZONE	South Carolina	φ LATITUDE λ LONGITUDE		
BLOOD AZIMUTH MARK, 1964	Vol. III Pg. 429		x=		φ 32° 05'	23.989"	✓	
			y=		λ 80° 52'	01.398"	✓	
MOODY, 1932	Quad 320- 803 STA 1046		x=		φ 32° 01'	54.457"	✓	
			y=		λ 80° 55'	56.253"	✓	
JONES ISLAND RANGE FRONT LIGHT, 1964	Vol. III Pg. 432		x=		φ 32° 02'	30.954"	✓	
			y=		λ 80° 51'	10.695"	✓	
JONES ISLAND RANGE REAR LIGHT, 1964	Vol. III Pg. 433		x=		φ 32° 02'	39.669"	✓	
			y=		λ 80° 51'	40.736"	✓	
FUSKY (USE), 1932	Bridge Form 164 Pg. 2		x=	2,032,053.21 ✓	φ			
			y=	101,680.36 ✓	λ			
			x=		φ			
			y=		λ			
			x=		φ			
			y=		λ			
			x=		φ			
			y=		λ			
			x=		φ			
			y=		λ			
			x=		φ			
			y=		λ			
			x=		φ			
			y=		λ			
			x=		φ			
			y=		λ			
COMPUTED BY	F.R. Gustafson		COMPUTATION CHECKED BY		L.B. Foltz		DATE	11/15/73
LISTED BY			LISTING CHECKED BY				DATE	
HAND PLOTTING BY			HAND PLOTTING CHECKED BY				DATE	

COMPILATION REPORT

TP-00277

31. DELINEATION

The compilation was done by photo-reducing the 1:10,000 scale maps TP-00274 and TP-00278 and tracing the photo-reductions onto this map manuscript.

32. - 47.

See Compilation Reports for TP-00274 and TP-00278.

Submitted by:

Charles Parker
Charles Parker
Cartographic Aid
January 30, 1974

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-00277

Atlantic Ocean	Savannah River
Bloody Point	South Channel
Calibogue Sound	Turtle Island
Cockspur Island	Tybee Island
Daufuskie Island	Tybee Knoll Spit
Fort Pulaski	Tybee National Wildlife Refuge
Fort Pulaski National Monument	
Fort Screven	
Grenadier Shoal	
Horseshoe Shoal	
Lazaretto Creek	
Mungen Creek	
New River	
Oyster Bed Island	
Savannah Beach	

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-00277			
1. PROJECTION AND GRIDS FPM	2. TITLE FPM	3. MANUSCRIPT NUMBERS FPM	4. MANUSCRIPT SIZE FPM
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY FPM	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA		7. PHOTO HYDRO STATIONS FPM
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES X X	10. PHOTOGRAMMETRIC PLOT REPORT FPM	11. DETAIL POINTS FPM
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE FPM	13. LOW-WATER LINE FPM	14. ROCKS, SHOALS, ETC. FPM	15. BRIDGES FPM
16. AIDS TO NAVIGATION FPM	17. LANDMARKS FPM	18. OTHER ALONGSHORE PHYSICAL FEATURES FPM	19. OTHER ALONGSHORE CULTURAL FEATURES FPM
PHYSICAL FEATURES			
20. WATER FEATURES FPM	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
CULTURAL FEATURES			
27. ROADS FPM	28. BUILDINGS FPM	29. RAILROADS FPM	30. OTHER CULTURAL FEATURES FPM
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES FPM	34. JUNCTIONS FPM		35. LEGIBILITY OF THE MANUSCRIPT FPM
36. DISCREPANCY OVERLAY FPM	37. DESCRIPTIVE REPORT FPM	38. FIELD INSPECTION PHOTOGRAPHS FPM	39. FORMS FPM
40. REVIEWER Frank P. Margiotta Aug. 1974		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> Albert 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 F.P. Margiotta by transfer from TP-00278 and TP-00274 Aug. 74 Reviewer: A.C. Rauck Aug. 74		SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
43. REMARKS Field edit applied from photo reductions of TP-00274 & TP-00278.			

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 TBM's used to control the individual sections, was to take a level reading on a recoverable object for use as a TBM, 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 TBM 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 included with this report.



Richard E. Kesselring
Survey Tech.
May 3, 1971

REVIEW REPORT TP-00277

SHORELINE

December 1975

The Review Reports for 1:10,000 scale maps TP-00274 and TP-00278 are also applicable to this map.

Reviewed by:

Billy H. Barnes

Billy H. Barnes
Cartographer
December, 1975

Approved for forwarding:

Joseph W. Voracek

for Victor E. Serena
Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Div.