TP-00278

NOAA FORM 76-35

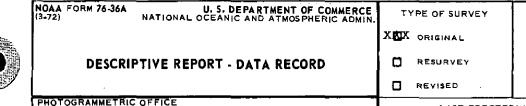
" U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline
Job No. PH-7101 Map No. TP-00278
Classification No. Edition No
Field Edited Map
LOCALITY
State South Carolina and Georgia
General Locality Charleston to Savannah
Locality Savannah Beach
19 70 TO 1974
REGISTRY IN ARCHIVES
DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1972-751-152

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR TO REGISTRATION



TYPE OF SURVEY	SURVEY TP. 00278
XX ORIGINAL	MAP EDITION NO. (1)
RESURVEY	MAP CLASS Final (F.E.
REVISED .	јов рн. <u>7101</u>
LAST PRECEED	ING MAP EDITION
TYPE OF SURVEY	JOB PH
ORIGINAL	MAP CLASS
RESURVEY	SURVEY DATES:
] REVISED	19TO 19
2	FIFE

1. <u>off</u>	ICE			2
Aerotriangulation	May,	1972 /	Sept.	, 1970 ′

1927 NORTH AMERICAN

MEAN HIGH-WATER

Compilation Sept., 1973 /

Coastal Mapping Division, Norfolk, VA

OFFICER-IN-CHARGE

II. DATUMS

1. HORIZONTAL:

I. INSTRUCTIONS DATED

Jeffrey G. Carlen, Cdr.

2. VERTICAL: MEAN LOWER LOW-WATER MEAN SEA LEVEL		
3. MAP PROJECTION	4. G	RID(\$)
Polyconic	South Carolina	South (
5. SCALE 1:10,000 /	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		Dec. 1973 Dec. 1973
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:20,000 CHECKED BY	R.R. White	Jan. 1974 Jan. 1974
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY	R.R. White	Jan. 1974 Jan. 1974
метнор: Smooth ink drafting сонтоина ву	NA	
scale: 1:10,000 HYDRO SUPPORT DATA BY CHECKED BY		
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	<u> </u>	Jan. 1974
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	7 7	Jul. 1974 Jul. 1974
7 COMPILATION SECTION REVIEW	The product of a data of	A110. 1971

ŖΥ

BY

вΥ

OTHER (Specify)

OTHER (Specify)

Billy H. Barnes

R.T. CATOR



9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH

10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH

NOAA FORM 76-35 A

b	NOAA FORM 76-36B (3-72)		P-0027	8		U.S ANIC AND A	TMOSPHE	ERIC AT	OF COMMERCE DMINISTRATION OCEAN SURVEY
	1. COMPILATION PHOTOGRAPHY		,.	· ·					
	CAMERA(S)		TYPE		TOGRAPHY		TIME F	REFERE	ENCE
	Wild RC-8 "E" and TIDE STAGE REFERENCE SAVAN			LEGE	ND	ZONE			
	A PREDICTED TIDES ENTRA		(C) COL				tern		Xstandard
	REFERENCE STATION RECORDS TIDE CONTROLLED PHOTOGRAF	ЭНҮ		RARED		MERIO	th	-	DAYLIGHT
	NUMBER AND TYPE	DATE	TIME	:	SCALE	- '-'		E OF T	IDE .
	70L(C)447A & 448A	11/7/70	10:1		:40,000) 2.			ove MLW -
	70L(C)9923A & 9924A	11/5/70	10:2		:40,000				ove MTM ~
: -	71E(I)2344 & 2345	3/30/71	09:0	1.	1:30,000	+ 0.	2 ft.	of	MHW
; ç	71E(I)2258 & 2259	3/28/71	13:1	.7	:30,000) 	2 ft.	of	MT.W '
* *	71E(I)2336 - 2339 71E(I)2250 - 2253	3/20/71 · 3/28/71/	08:5		.:30,000				MHW /
7.5	(1)2250 - 2253	3/20/11	13:1	. <i>⊆</i> : J	:30,000	+ 0.	Z It.	OI	MLW/
	REMARKS	<u></u>		· · · · · · · · · · · · · · · · · · ·					
	*Tide control	led infrar	ed pho	togra	phy.				
:	2. SOURCE OF MEAN HIGH-WATER	LINE:			<u> </u>				
					. /				
	Tide control	led infrar	ed pho	togra	phy.				
	3. SOURCE OF MEAN LOW-WATER O	R MEAN LOWER LO	OW-WATER L	INE:					
					•				
	Tide control	led infrar	ed pho	togra	phy.				•
	·	·							<u> </u>
	4. CONTEMPORARY HYDROGRAPHI	C SURVEYS (List o	nly those su	rveys tha	t are sources [or photogram	metric su	vey info	ormation.)
	SURVEY NUMBER DATE(S)	SURVEY COF	Y USED	SURVEY	NUMBER	DATE(S)	5	URVEY	COPY USED
	5. FINAL JUNCTIONS						w		00 77
	11 002//	NST ボワーハハク 70		SOUTH	0270		WEST 1		
	REMARKS	TP-00279		TP-0	06 17		1:20	,000	

Я	a

NOAA FÖRM 76-36C		TP=00278			NIC AND ATMOSPHE	MENT OF COMMERCE RIC ADMINISTRATION ONAL OCEAN SURVEY
I. K. PIELD INSPE	CTION OPE	<u> </u>	EDIT OP			
, , , , , , , , , , , , , , , , , , , 	OP	ERATION	<u> </u>		NAME	DATE
1. CHIEF OF FIELS	D BARTY		TV	Wils	0 m	11/1970
11 011121 01 1 1221		RECOVERED BY			elring	11/1970
2. HORIZONTAL CO	ONTROL	ESTABLISHED BY	NA	Hoos		,, 1
	-	PRE-MARKED OR IDENTIFIED BY		Kess	elring	11/1970
		RECOVERED BY	NA			
3. VERTICAL CON	TROL	ESTABLISHED BY	NA			
		PRE-MARKED OR IDENTIFIED BY	NA NA			
4. LANDMARKS AN		ECOVERED (Triangulation Stations) BY	NA NA			
AIDS TO NAVIGA		LOCATED (Field Methods) BY [DENTIFIED BY	NA			
		TYPE OF INVESTIGATION				
5. GEOGRAPHIC NA		COMPLETE BY				
INVESTIGATION		SPECIFIC NAMES ONLY	NA			
		MO INVESTIGATION	37.4			
6. PHOTO INSPECT		CLARIFICATION OF DETAILS BY	NA NA		<u> </u>	
7. BOUNDARIES AN	AD CIMILI2	SURVEYED OR IDENTIFIED BY	I NA		<u>;:</u> _	
1. HORIZONTAL CO	ontrol ide Premar		2. VERT	ICAL CO	NTROL IDENTIFIED	
PHOTO NUMBER		STATION NAME	РНОТО 1	NUMBER	STATION [DESIGNATION
	South: R.M. 2	End (USE) 1932				
3. PHOTO NUMBER	S (Clarificati	on of details)	L		<u></u>	
NA		ŕ				
4. LANDMARKS AN	D AIDS TO N	AVIGATION IDENTIFIED	*****	· · ·		
NA.	<u> </u>					
PHOTO NUMBER		OBJECT NAME	РНОТО 1	NUMBER	OBJE	TNAME
5. GEOGRAPHIC N		REPORT NONE	6. BOUN	DARY AN	D LIMITS: REI	PORT NONE
7. SUPPLEMENTAL	MAPS AND	PLANS				
ł	ECORDS (Sk	etch books, etc. DO NOT list data submit. 152	ed to the (Geodesy D	ivision)	

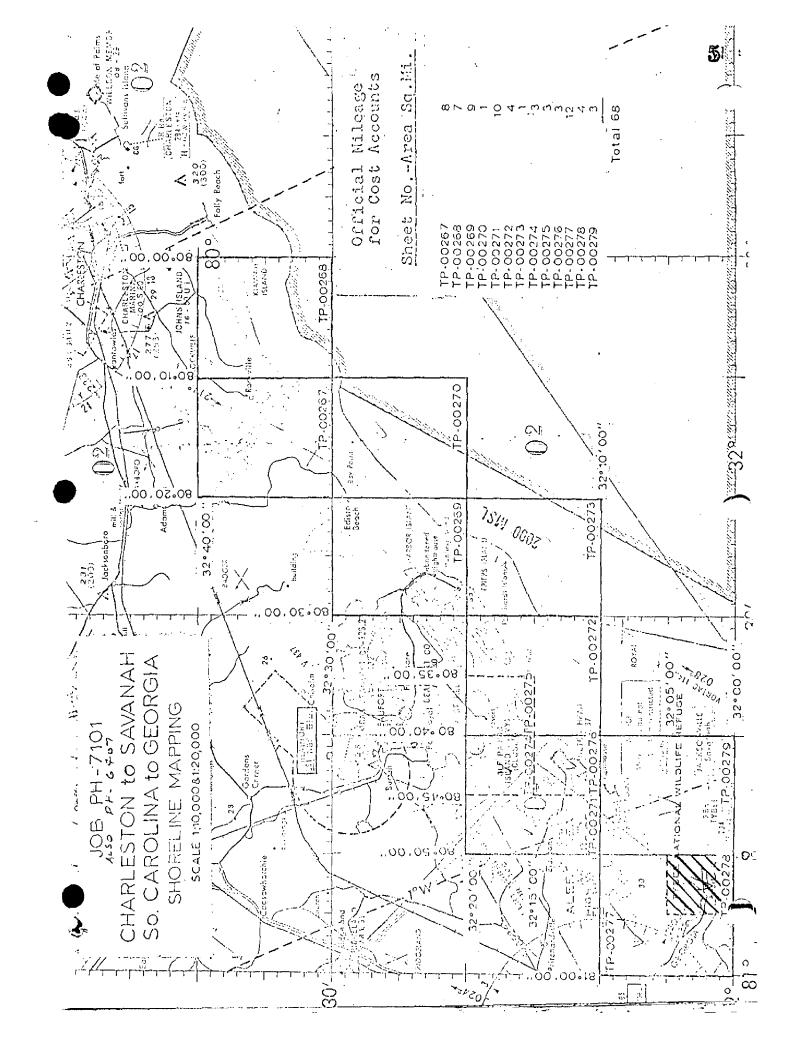
IOAA FORM 7636 3-72)	TP-00278 HISTORY OF FIELD		NÎC-AND ATMOSPHER	MENT OF COMMERI RIC ADMINISTRATI NAL OCEAN SURVI
I FIELD INSP	ECTION OPERATION X FIEL	D EDIT OPERATION		
	OPERATION	T	IAME .	DATE
				Jan-May
I. CHIEF OF FIE	LD PARTY	LT(jg) R.D		1974
_	RECOVERED BY	LT(jg) R.D	. Black	Jan-May
. HORIZONTAL				
	PRE-MARKED OR IDENTIFIED BY			
. VERTICAL CO				
	PRE-MARKED OR IDENTIFIED BY			
	RECOVERED (Triangulation Stations) BY	LT(jg) R.D	. Black	Jan-May
LANDMARKS A AIDS TO NAVIO		LT(jg) R.D		Jan-May
	IDENTIFIED BY TYPE OF INVESTIGATION	LT(jg) R.D	. Black	Jan-May
5. GEOGRAPHIC I	(5)			
INVESTIGATIO				
	X NO INVESTIGATION	<u></u>		
. PHOTO INSPEC	CLARIFICATION OF DETAILS BY	LT(jg) R.D	. Black	Jan-May
, BOUNDARIES A				
. HORIZONTAL	CONTROL IDENTIFIED	2. VERTICAL CON	TROL IDENTIFIED	
PHOTO NUMBER	ST A TION: NAME	PHOTO NUMBER	STATION D	ESIGNATION
	,			
	"			
		<u> </u>		
3. PHOTO NUMBE	RS (Clarification of details)			
71	E 2250R, 2251R, 2252R			
. LANDMARKS A	ND AIDS TO NAVIGATION IDENTIFIED			
		· · · · · · · · · · · · · · · · · · ·	*********	
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJEC	TNAME
1E2252R	TYBEE KNOLL CUT RANGE			
	FRONT LIGHT	- 1	•	
. GEOGRAPHIC I	NAMES: REPORT X NONE	6. BOUNDARY AND	D LIMITS: [] REP	ORT (X) NONE
	AL MAPS AND PLANS	15. 250.000.7400		அ
Mana				
None				
	RECORDS (Sketch books, etc. DO NOT list data submi	tted to the Geodesy Di	vision)	

NOAA FORM 76-36D (3-72)

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

TP-00278

	· 		RECO	RD OF SURVE	Y USE			
I. MANUSC	RIPT COPIES							
-	CO	MPILA	TION STAGE	s			DATE MANUSC	RIPT FORWARDED
	DATA COMPILED		DATE	RE	MARKS		MARINE CHART	HYDRO SUPPOR
Manusc	ript complete			Class II]	Manus	crip	;	1/24/73
pendin	g field edit	1/	/74	Supers	eded -		2/4/74	Field edi
		+		· · ·				·
	edit applied		/ -1	Class I				ļ.
Compil	ation complete	[77]	/74	Supers	eded	1	9/10/74	
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mi l	Ti cará car	120	125]		1	1/30/76	ļ
LIUST	Review	12/	1 75 ·				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
· · · · · ·						1		
11. LANDM	IARKS AND AIDS TO NAVIGA	TION						
1. REP	ORTS TO MARINE CHART D	IVISION	, NAUTICAL	DATA BRANCH				
NUMBER	CHART LETTER		DATE			REMA	RKS	
	NUMBER ASSIGNED	1	RWARDED					· · · ·
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	71-14	1/	<u> </u>	Hour road.	-116 A-W			
	97174	7/	31/74	Landmarks	3	•		
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	DESCRIPTION NARROWS CHAR	I		L	DATE 500		7/31/7	 1.
	REPORT TO MARINE CHAR' REPORT TO AERONAUTICA							
	RAL RECORDS CENTER DAT			, ,,_,,				
ī. 🔀	BRIDGING PHOTOGRAPHS;	X	DUPLICATE	BRIDGING REPO	RT; 📈 🖂 Co	MPUTER	R READOUTS.	
2. 🖂	BRIDGING PHOTOGRAPHS; CONTROL STATION IDENT	IFICAT	ION CARDS;	FORM NOS	567 SUBMI	TTED BY	FIELD PARTIES	
3. 🔀	SOURCE DATA (except for G	eograp	hic Names Re	port) AS LISTED I	N SECTION I	II, NOAA F	FORM 76-36C.	
	ACCOUNT FOR EXCEPTION	45:						•
	DATA TO SERENI OSCO							
4 [_]	DATA TO FEDERAL RECO							
IV. SURVI	EY EDITIONS (This section s SURVEY NUMBER	shall be	Completed ea		edition is re		TYPE OF SURVEY	,
SECOND	TP	(2)	PH	·•		REV	_	SURVEY
EDITION	DATE OF BUGIOSSAD		DATE OF FI	ELD EDIT			MAP CLASS	
EDITION					n.	□ m.	□iv. □v.	FINAL
	SURVEY NUMBER		JOB NUMBE	R		Ť	YPE OF SURVEY	,
THIRD	TP	_ (3)	PH			REV	ISED RE	SURVEY
EDITION	DATE OF PHOTOGRAP	нү	DATE OF FI	ELD EDIT		_	MAP CLASS	
					<u> </u>	□ш.		
	SURVEY NUMBER		JOB NUMBE	R			YPE OF SURVEY	
FOURTH		_ (4)	PH			L.JREV		SÜRVÉY
EDITION	DATE OF PHOTOGRAPI	HY	DATE OF FI	ELD EDIT	Пи.	П	MAP CLASS □IV. □V.	Πε



SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT TP-00278

This 1:10,000 scale shoreline manuscript is one of nine 1:20,000 scale and four 1:10,000 scale manuscripts that comprise Project PH-7101, Charleston, SC to Savannah, GA. This is one of several projects that make up SCOPE, the Southern Coastal Plains Expedition. This sheet lies entirely within the limits of the 1:20,000 scale sheet TP-00277. 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 taking a reference measurement to the mean high and mean low water lines and premarking horizontal control required for bridging.

Aerotriangulation was done in the Rockville office on the 1:40,000 scale color photography dated November, 1970. Pass points common to the 1:30,000 scale infrared tide coordinated photography were dropped for ordering ratios.

Compilation was done at the Atlantic Marine Center in January, 1974. The Wild B-8 Plotter, utilizing the 1:40,000 scale color bridging photography, was used to compile inshore planimetry and to drop shoreline pass points common to the 1:30,000 scale infrared tide controlled mean high and mean low water ratios. These ratios were then used to graphically compile the mean high and mean low water lines. The reference measurement referred to in paragraph 2 was used to verify the photo interpretation of those lines on the tide controlled photography.

Field edit was done in January and May, 1974.

Final review was done at the Atlantic Marine Center in December, 1975.

The original manuscript is a stabilene sheet 5 minutes in latitude by 5 minutes in longitude.

A stable base copy and a negative of the final reviewed manuscript were forwarded for record and registry.

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). The 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

J. D. Perrow, Jr.

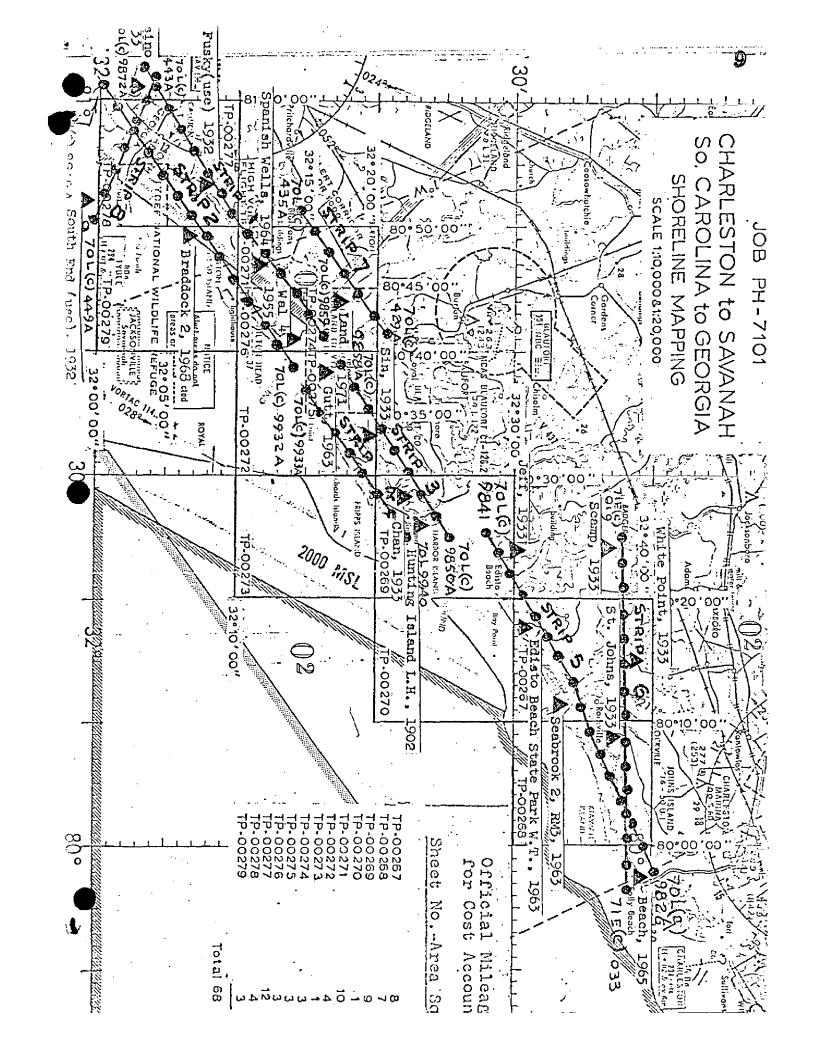
Chief, Aerotriangulation Section

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



NOAA FORM 76-41 (6-75)		DESCRIPTIVE	E REPORT CONTROL RECORD		U.S. D	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
MAP NO. TP-00277 - TP-00278	PH-7101		GEODETIC DATUM N.A. 1927	0	ORIGINATING ACTIVITY	.
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	coordinates in Feet state South Carolina zone South	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUD	Position LATITUDE LONGITUDE	REMARKS
BLOODY POINT RANGE REAR LIGHT, 1964	Vol III Pg. 431		= X	1010	17.590"	
PULASK	Quad. 320 803 STA 1044	1	χ= <i>y</i> =	\$ 32° 01 \$ 80° 53	1	
TYBEE LIGHTHOUSE, 1932	d. 320 1052	ı	χ= η=	1 1	19.301"	
SAVANNAH BEACH MUNI- CIPAL WATER TANK, 1934	320 058	ı	χ= <i>y</i> =	4 32° 00' λ 80° 50'		
JONES ISLAND RANGE FRONT LIGHT, 1964	Vol. III Pg. 432		χ= <u>ψ</u> =	φ 32° 02 1 λ 80° 51 1	10.695"	
JONES ISLAND RANGE REAR LIGHT, 1964	Vol. III Pg. 433		χ= y=	φ 32° 02' λ 80° 51'	1 39.669"	
COCKSPUR LIGHTHOUSE, 1902	Quad. 320 803 STA 1055	1	χ= η=	φ 32° 01 λ 80° 52	1 20.912"-	
BL00D, 1964	Bridge Form 164 Pg. 1		x=2,039,737.70 / $y=90,977.31$ /	· ·		
			χ= <i>Υ</i> =	φ γ		
			x= y=	φ γ		
COMPUTED BY F.R. Gustafson		11/15/73	COMPUTATION CHECKED BY LAST			DATE11/15/73
LISTED BY HAND PLOTTING BY		DATE	LISTING CHECKED BY HAND PLOTTING CHECKED BY			DATE
		SUPERSEDES NO	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE	H IS OBSOLETE.		

COMPILATION REPORT

TP-00278

31. DELINEATION

Delineation was by the Wild B-8 stereoplotter.

Photography was adequate. This map was photo-reduced after application of field edit and then retraced on to map TP-00277.

32. CONTROL

See the attached "Photogrammetric Plot Report, dated: Dec., 1973.

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.

The mean high water line and mean low water lines were delineated from the tide coordinated photographs.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

Copies of Form 76-40 for 8 non-floating aids to navigation and 3 landmarks were forwarded to the Rockville, MD office on July 24, 1974. These forms apply also to map TP-00277.

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 Quadrangles: FORT PULASKI, SC-GA, dated 1955; photo-revised 1971, scale 1:24,000. SAVANNAH BEACH, NORTH, SC-GA, dated 1955; photo-revised 1971, scale 1:24,000.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean Survey charts: 440, 38th edition, dated Aug. 4, 1973 scale 1:40,000. 1241, 10th edition, dated July 7, 1973 scale 1:80,000.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

Charles Parker, Carto., Aid

Jan. 14, 1974

Approved for forwarding:

A.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-00278

Atlantic Ocean

Tybee Island

Bloody Point

Tybee Knoll Spit

Cockspur Island

Tybee National Wildlife Refuge

Daufuskie Island®

Fort Pulaski

Fort Pulaski National Monument

Fort Screven

Horseshoe Shoal

Lazaretto Creek

New River

Oyster Bed Island

Savannah Beach

Savannah River

South Channel

Turtle Island

Approved by

Chas. E. Harrington

Staff Geographer-C51x2

14.a

	PHO	TOGRAMMET	RIC OFFICE REVIEW	NATIONAL OCEAN SURVE
		TP-	00278	
PROJECTION AND GRIDS	2 TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
RRW	, nt	37.7		
TAIN W	RF	`` W	<u></u>	
CONTROL STATIONS				
5. HORIZONT AL CONTROL ST THIRD-ORDER OR HIGHER	ACCURACY	OF LESS TH	BLE HORIZONTAL STATIONS IAN THIRD-ORDER ACCURACY c stations)	7. PHOTO HYDRO STATIONS
RRW]	N.A.	RRW
B. BENCH MARKS	9. PLOTTING	OF SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
NA			RRW	
ALONGSHORE AREAS (Nautica	1 Chart Data)	- <u></u>	<u> </u>	
12. SHORELINE	13. LOW-WATE	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
RRW	l Ri	RW	RRW	
IL W	17. LANDMARI		18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE
		D11		CULTURAL FEATURES
RRW	R.	RW	RRW	
PHYSICAL FEATURES 20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOUR
WATER TENTONES		ZII III III III III	SHOURD COVER	
			NA	NA
3. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOUR	S IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
NA	N.	A	NA	RRW
ULTURAL FEATURES				
27. ROADS	28, BUILDING	S	29. RAILROADS	30. OTHER CULTURAL FEATURES
RRW	R	RW		
BOUNDARIES	<u> </u>	".	<u> </u>	<u>-L</u>
II. BOUNDARY LINES		A	32. PUBLIC LAND LINES	NA.
	<u>N</u>	A	<u></u>	
MISCELL ANEOUS 33. GEOGRAPHIC NAMES		34. JUNCTION	S	35. LEGIBILITY OF THE
				MANUSCRIPT
RRW	-1-22	<u></u>	RRW	RRW
6. DISCREPANCY OVERLAY	37. DESCRIPT	IVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
RRW	R	RW	ļ	RRW
O. REVIEWER			SUPERVISOR REVIEW SECTI	ON OB UNIT
Silona D. Moito	1/19	71.	I West C.	Ranch. Jr.
Richard R. White			A.C. Nauch, of	
11. REMARKS (See attached she		TIONS TO THE	AANUCCDID T	
				to the manuscript. The manu-
script is now complete ex	cept as noted un	der item 43.	ion survey have been apprice	to the manuscripts. The manu-
COMPILER	7/	1974	SUPERVISOR	Ranck In
Richard R. White				
oviewed by: F. M. B. REMARKS				
Field ed	it applie	d from:	Field edit ozali	d TP-002 7 8 and
		7/4	avcoba. Wrec it	era huonerahus
			71E(I)2250 thru	<u> </u>

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 proceedure, in establishing the TTBM's used to control the individual sections, was to take a level reading on a recoverable object for use as a TTBM, 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 TTHM to close the loop. The entries in the field book show this proceedure reversed. This was done to avoid confusion as there didn't appear to be any adequate method of showing the actual proceedure. 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 proceedure 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

FIELD EDIT REPORT

TP-00278

Savannah Beach, Georgia PH-7101 May, 1974

51. METHODS

All field work was done in accordance with the AMC Manuel, 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 to indicate additions or changes, and in green to indicate deletions.

The positions of the Jones Island range lights, Tybee Lighthouse and Bloody Point Range Rear Light were verified by theodolite cuts. The positions of the daymarks next to Bloody Point Range Rear Light were determined by theodolite intersection. Tybee Knoll Cut Range Front Light was photo identified. Savannah River South Channel Light 5 was located by sextant intersection. The positions of Savannah River South Channel Light 3 and Lazaretto Creek Light 2 were verified by sextant cuts. The steel frame tower on Turtle Island was located by Photo Party 62 in 1973, and the position determined by this party has been entered on the NOAA form 76-40.

The "causeway ruins" (lat. 32°03.0', Long. 80°54.2') were searched for by boat on 12 April, 1974. Both shorelines were inspected. No sign of this reported feature was found. The water was extremely murky at the time of the search.

The positions of features along the eastern and northern shoreline of Savannah Beach were determined by photo inspection.

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.

Numerous areas of grass and/or oyster shells were missed during compilation. These areas are noted on the field edit ozalid. An area along the northern shoreline of Tybee Island (lat. 32°01.2', long. 80°51.7' to 80°52.8') was compiled as sand, and should be compiled as grass, mud and oyster shells. The MHWL should be changed so that it follows the edge of this grass line, as noted on photo 28MAR71E2251R.

A few groins along the east shoreline of Savannah Beach were missed during compilation, and one was compiled which is not present. (lat. 32°01.4°, long. 80°50.7°). A bulkhead which exists along most of the east shoreline of Tybee Island was not compiled. All corrections are noted on the field edit ozalid.

54. RECOMMENDATIONS

None.

56. GEOGRAPHIC NAMES

No discrepencies were found while editing this sheet.

57. LANDMARKS AND NONFLOATING AIDS TO NAVIGATION

Three landmarks and ten nonfloating aids to navigation are recommended for charting. Two of the aids are daymarks on dolphins next to Bloody Point Range Rear Light. These are not listed in the Light List and are not numbered. They are possibly U.S. Corps of Engineers dredge markers. However, their prominence and permanence qualify them as legitimate aids to navigation.

58. FIELD EDITORS

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

Respectfully Submitted,

Richard D. Black

Richard D. Black LT. (j.g.) NOAA Chief, Photo Party 61

NOAA FORM 76-40	16-40						U.S. DEPAR	U.S. DEPARTMENT OF COMMERCE	ORIGINATING ACTIVITY	CTIVITY
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				N.A	٦.			METHOD AND DATE	ATE OF LOCATION	
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NOAA FORM 76-40 (8-74)

NOAA FORM 76-40		U.S. DEP	ARTMENT OF COMMERCE	ORIGINATING ACTIVITY	CTIVITY
(8-74) Replaces C&GS Form 567	m 567.	LANDMARKS FOR CHARTS	ADMINISTRATION OF THE PROPERTY	HYDROGRAPHIC PARTY GEODETIC PARTY PHOTO FIELD PARTY	,81Y Y
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CHARTING	ESCRIPTION of landmark	LATITUDE	OFFICE	FIELD	AFFECTED
TANK	Savannah Beach Municipal Water Tank, 1934 ht. = 153(160) ft.	32 001223.380 50	31.69071E(I)2336 831.8 3/30/71	Triang. Rec. 3/8/74	1240 1240 1241
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TOWER	Steel, Lt. = 63(65) ft.	42.529 041309.980	1 1	F.3.a. 1973	्रा ०५३
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ic Field Positions are dependent in part, upon control established etric methods.	Bos I Toyle	POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V+Vis.' and date. EXAMPLE: V-Vis	Rec.	LATION STATION RECOVERED landmark or aid which is also a tri- ion station is recovered, enter 'Triang.' ith date of recovery.	<pre>mmetric field positions** require method of location or verification, field work and number of the photo- ed to locate or identify the object. P-8-V 8-12-75 74L(C)2982</pre>)X'	X REVIEWER QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	OFFICE ACTIVITY REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE	GEODETIC PARTY OTHER (Specify)	T PHOTO FIELD PARTY	ORIGINATOR	

NOAA FORM 78-40 (8-74)

SUPERSEDES NOAA FORM 75-40 (2-7) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

REVIEW REPORT TO-00278

SHORELINE

December 1975

61. GENERAL STATEMENT:

See Summary, which is page six of this Descriptive Report.

A comparison print showing differences noted in paragraphs 62 through 65 is bound with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with T-12620, scale 1:20,000, dated December 1965 and T-12811, scale 1:10,000, dated July, 1965. Significant differences are shown in blue on the comparison print. In the area covered, TP-00278 supersedes T-12620 and T-12811 for nautical chart construction purposes. T-12620 and T-12811 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 SAVANNAH BEACH NORTH, SC-GA and FORT PULASKI, SC-GA, both dated 1955 (Photorevised 1971) at a scale of 1:24,000. Significant differences are shown in brown on the comparison print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with a copy of H-9459 (AHP-10-5-74) smooth sheet dated 1974 at a 1:10,000 scale. The shoreline shown on the smooth sheet was taken from the Class I manuscript. Several errors and discrepancies on the Class I manuscript were found and resolved during final review. A copy of the final reviewed map was given to hydrographic pro-

cessing for application to the verified smooth sheet for H-9459. These and other differences are shown in purple on the comparison print.

65. COMPARISON WITH NAUTICAL CHARTS:

The area covered by this map is within the limits of NOS Chart 11512, scale 1:40,000, 40th edition, dated June 1975. There is an inlet between Oyster Bed Island and Turtle Island that has a ruins symbol shown across it. It could not be seen on the photography and the field editor stated it was not visible at an on-site inspection. This and other 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:

Bill H. Barn

Billy H. Barnes Cartographer December, 1975

Approved for forwarding:

Joseph W Voriasak

Joseph W. Vonasek

Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch

Chief; Coastal Mapping Division

