

TP 00268

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-00268
Classification No. Edition No. 1
Field Edited Map

LOCALITY

State South Carolina and Georgia
General Locality Charleston to Savannah
Locality Kiawah 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, VA		SURVEY TP. <u>00268</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: Analytic LANDMARKS AND AIDS BY		R.B. Kelly	Dec. 1973
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY		Allen Allen	Sept. 1973 Sept. 1973
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 SCALE: 1:20,000 CONTOURS BY CHECKED BY		L.B. Foltz A.L. Shands NA NA	Oct., 1973 Oct., 1973
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: Smooth ink drafting CONTOURS BY CHECKED BY SCALE: 1:20,000 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		J.R. Minton	Mar., 1974
7. COMPILATION SECTION REVIEW BY		G.R. Vanderhaven	Mar., 1974
8. FINAL REVIEW BY		G.R. Vanderhaven	Mar., 1974
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		Billy H. Barnes	Oct., 1975
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		Billy H. Barnes	March 3, 1976
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		R. T. CATOR	JUN 1976

NOAA FORM 76-368
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00268
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

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

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
*71 E(I)3133 - 3139	3/31/71	11:00	1:30,000	+ 0.2 ft. at MHW
*71 E(I)2310 - 2315	3/28/71	15:42	1:30,000	+ 0.2 ft. at MLW
70 L(C)9828 - 9832	11/4/70	11:55	1:40,000	7.1 ft. above MLW

REMARKS

*Tide coordinated infrared photography.

2. SOURCE OF MEAN HIGH-WATER LINE:

Tide coordinated infrared photography

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	No Survey	No Survey	TP-00267

REMARKS

TP-00268

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	Joseph K. Wilson	Mar. 1971
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	R.E. Kesselring NA Mar. 1971
	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	NA NA NA
	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	NA NA NA
4. LANDMARKS AND AIDS TO NAVIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
5. GEOGRAPHIC NAMES INVESTIGATION	CLARIFICATION OF DETAILS BY	NA
6. PHOTO INSPECTION	SURVEYED OR IDENTIFIED BY	NA
7. BOUNDARIES AND LIMITS		

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
Pre-marked2. VERTICAL CONTROL IDENTIFIED
NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
70L(C)9895A	BEACH 1965		
70L(C)9832A	ST. JOHNS 1933		

3. PHOTO NUMBERS (Clarification of details)

NONE

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

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

1-Form 251
53-Forms 152
1-Form 269C
1-Form 266

TP-00268

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	Richard D. Black	Feb. 1974
2. HORIZONTAL CONTROL	RECOVERED BY	Richard D. Black
	ESTABLISHED BY	Feb. 1974
	PRE-MARKED OR IDENTIFIED BY	NA
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	Richard D. Black
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	Feb. 1974

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

71E 3137R, 3138R

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

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

One (1) copy of Form 526 (Recovery Note)

NOAA FORM 76-36D
(3-72)TP-00268
RECORD OF SURVEY USEU. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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	3/ /74	Class I 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

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
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

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 68

5

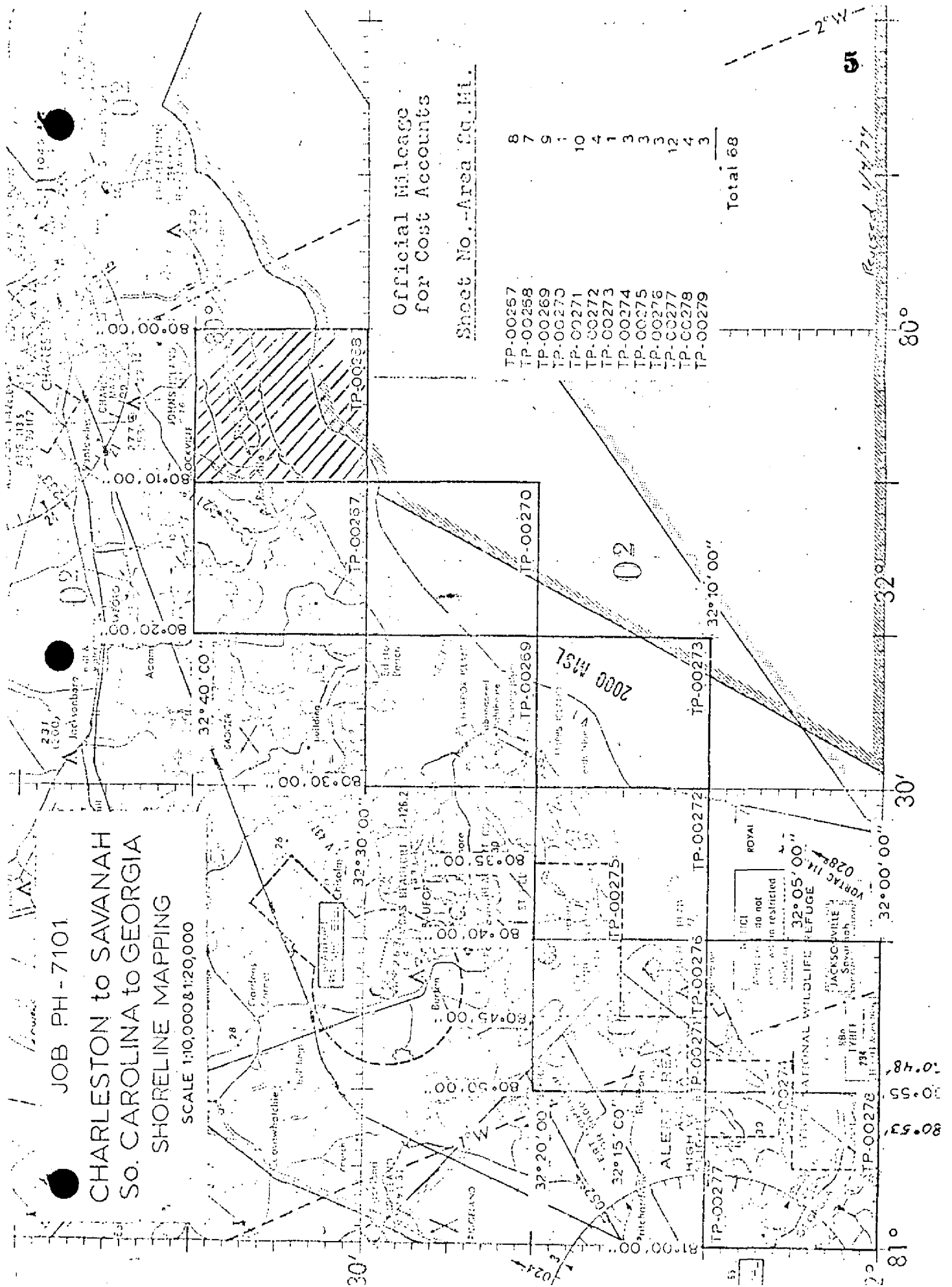
Revised 1/4/79

80°

30'

32°00'00"

81°
80°55'
80°53'
80°48'



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT TP-00268

This 1:10,000 scale shoreline manuscript is one of thirteen maps, nine at 1:20,000 scale and four at 1:10,000 scale, which comprise Project PH-7101, Charleston, South Carolina to Savannah, Georgia. This project is one of several that make up the Southern Coastal Plains Expedition, SCOPE. 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 consisted of premarking horizontal control for bridging and the profiling of two foreshore areas along the beach.

Bridging was done by analytic aerotriangulation methods in the Rockville Office using the 1:40,000 scale color photography dated November 4, 1970. Bridge points were dropped that were common to the 1:30,000 infrared, tide coordinated photographs for use in ordering ratio prints.

Compilation was done at the Atlantic Marine Center in October 1973 on the Wild B-8 Plotter using the bridging photography. Compilation on the plotter consisted of delineating inshore features and dropping shoreline pass points that were common to the March 1971, 1:30,000 scale, tide coordinated photography. This photography was ratioed and used to graphically delineate the MHW and MLW lines. The foreshore profile at approximate longitude 80° 06.2' compares reasonably well with the MH and ML water lines indicated on the tide - coordinated photos. The foreshore profile at approximate longitude 80° 01.3' is in an area subject to frequent change. The MLWL compares well; the MHWL differs by approximately 30 meters.

Field edit was done in February 1974.

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

The original manuscript is a stabilene sheet 10 minutes in latitude and 10 minutes in longitude.

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

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

Robert B. Kelly
12-10-73

Approved and forwarded:

J. D. Perrow, Jr.

J. D. Perrow, Jr.

Chief, Aerotriangulation Section

PH-7101
Charleston to Savannah

NOTE TO COMPILER

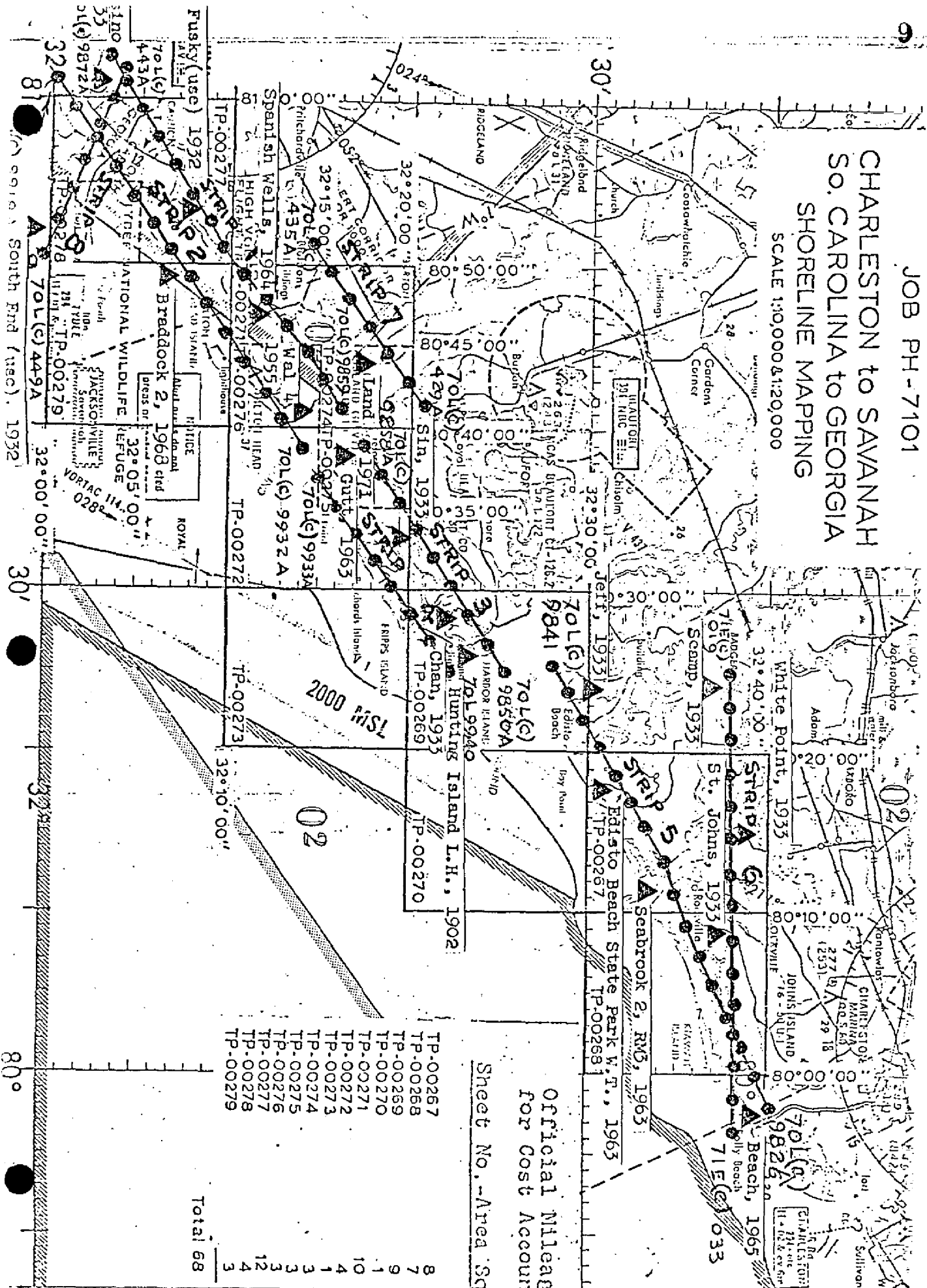
Foreshore Cross Section points listed below were omitted during bridging. Points should be dropped during compilation.

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

JOB PH-7101

CHARLESTON to SAVANNAH S.O. CAROLINA to GEORGIA SHORELINE MAPPING

SCALE 1:100,000 & 1:200,000



Official Mileage
for Cost Account

Sheet No. - Area Sq

TP-00267	8
TP-00268	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 68

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.		JOB NO.		GEODETTIC DATUM		ORIGINATING ACTIVITY	
STATION NAME		SOURCE OF INFORMATION (Index)		AEROTRIANGULATION POINT NUMBER		COORDINATES IN FEET STATE South Carolina ZONE	
TP-00268		PH-7101				N.A. 1927	
						GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	
						REMARKS	
KIAWAH 2, 1963	Vol. III Pg. 325			x=	φ 32° 35'	14.223"	
				y=	λ 80° 07'	47.275"	
ROYAL, 1963	Vol. III Pg. 320			x=	φ 32° 35'	54.642"	
				y=	λ 80° 05'	56.539"	
BASS, 1915	Vol. III Pg. 311			x=	φ 32° 37'	02.836"	
				y=	λ 80° 01'	22.062"	
BUST, 1963	Vol. III Pg. 313			x=	φ 32° 36'	39.921"	
				y=	λ 80° 00'	00.426"	
PENNY, 1933	Vol. III Pg. 309			x=	φ 32° 37'	22.203"	
				y=	λ 80° 00'	08.263"	
VANDERHORST, 1943	Vol. III Pg. 315			x=	φ 32° 36'	54.449"	
				y=	λ 80° 02'	37.787"	
WELCH, 1963	Vol. III Pg. 314			x=	φ 32° 36'	37.644"	
				y=	λ 80° 02'	51.339"	
				x=	φ		
				y=	λ		
				x=	φ		
				y=	λ		
				x=	φ		
				y=	λ		
COMPUTED BY L.B. Foltz				COMPUTATION CHECKED BY P.R. Gustafson			
LISTED BY				LISTING CHECKED BY			
HAND PLOTTING BY				HAND PLOTTING CHECKED BY			
				DATE 11/12/73			
				DATE 11/12/73			
				DATE			
				DATE			

COMPILATION REPORT

TP-00268

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 using tide coordinated infrared photography. Two foreshore profiles were surveyed. The one at longitude 80° 06.2' compares very well with the compilation of the MHW and MLW lines. The profile at 80° 01.3' verifies the MLW line but misses the MHW line by approximately 30 meters. Since the profile was taken in an area of frequent change, the shoreline as graphically delineated was retained.

32. CONTROL

See the attached "Photogrammetric Plot Report," dated: December 10, 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 was delineated from the photographs. See Item 31.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

There were no landmarks or aids on this map.

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: KIAWAH ISLAND, SC, dated 1959; revised 1971, scale 1:24,000 and ROCKVILLE, SC, dated 1960, revised 1971, scale 1:24,000.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the National Ocean Survey Chart 792; 6th Ed., dated April 1, 1972; scale 1:40,000.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

Albert C. Rauck, Jr.
for L.B. Foltz; Carto. Tech., 11/7/73

Approved:

Albert C. Rauck, Jr.
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-00268

Atlantic Ocean

Captain Sams Creek

Captain Sams Inlet

Kiawah Island

Kiawah River

Long Island

Sandy Point

Seabrook Beach

Seabrook Island

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-00268			
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 X X	17. LANDMARKS X X	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 11/28/73 Albert C. Ranch 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 J.R. Minton		SUPERVISOR Albert C. Ranch Jr.	
Reviewer: G. Vanderhaven		3/27/74 3/28/74	
43. REMARKS Field edit applied from field edit ozalid TP-00268, Photos 71 E 3137/3138 and Dept. of Commerce Form 251 "Observations of Horizontal Directions" dated April, 1971			

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 included with this report.



Richard E. Kesselring
Survey Tech.
May 3, 1971

FIELD EDIT REPORT

TP-00268

Kiawah 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 Field 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.

52. ADEQUACY OF COMPILATION

Compilation of shoreline and alongshore features was generally adequate and will be complete when field edit notes are applied.

A dashed line indicating a trail at Lat. $32^{\circ} 35.5'$ to $32^{\circ} 35.9'$ and Long. $80^{\circ} 07.9'$ to $80^{\circ} 06.4'$ is a drainage canal and is so noted on the field edit ozalid.

The area at the mouth of Captain Sams Inlet (Lat. $32^{\circ} 34.3'$, Long. $80^{\circ} 09.0'$) is subject to frequent change and is so noted on the field edit ozalid.

54. RECOMMENDATIONS

None.

56. GEOGRAPHIC NAMES

No discrepancies in geographic names were found while editing this sheet.

57. LANDMARKS AND AIDS TO NAVIGATION

None.

58. FIELD EDITORS

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

(2)

Respectfully Submitted,

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

RDB/mfs

REVIEW REPORT TP-00268

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 64 is included with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with T-12611, scale 1:20,000 dated July 1965 and T-12612, scale 1:20,000, dated April 1966. Significant differences are shown in blue on the comparison print. T-12611 and T-12612 are the latest registered prior surveys of the area. In the area covered, TP-00268 supersedes T-12611 and T-12612 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangles: KIAWAH ISLAND, SC, dated 1959, scale 1:24,000 and ROCKVILLE, SC, dated 1960 (Photo-revised 1971), scale 1:24,000. 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 and H-8870(20-10-65), scale 1:20,000, dated 1965. The high water line at Sandy Point has changed. This difference is 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 11522, 7th edition, dated August 17, 1974, scale 1:40,000. No significant differences were noted.

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

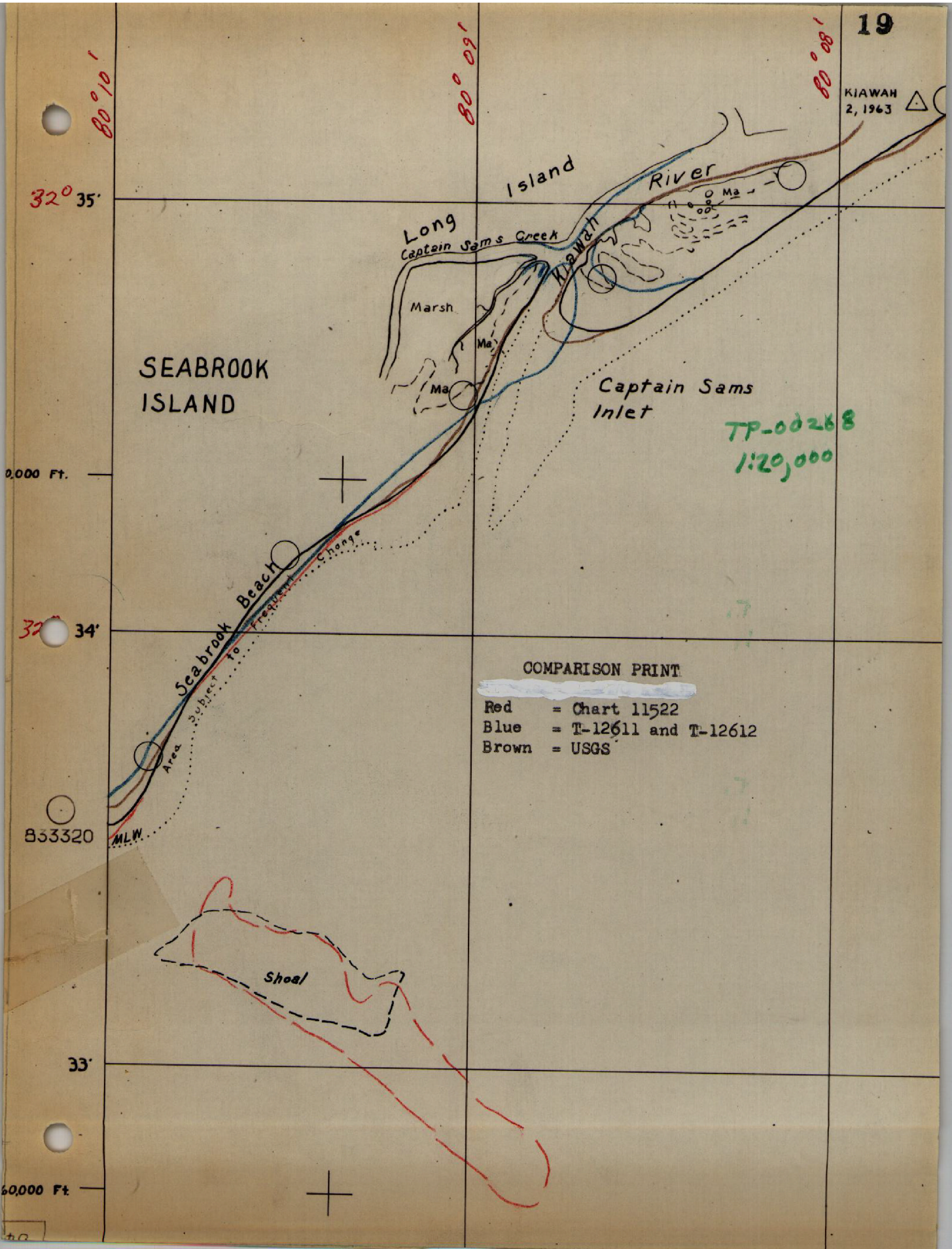
Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

KIAWAH
2, 1963



3-25-00 Ft.

20

TP-00268
1:20,000

3-280,000 Ft.

37

36

PENNY, 1933

SANDY POINT

BUST, 1963

Breakers

COMPARISON PRINT
Purple = H-8870 and H-9196
Red = Chart 11522
Blue = T-12611 and T-12612
Brown = USGS

BASS, 1915

VANDERHORST, 1943

Area subject to frequent change

NHWL from 4/16/71 profile
MLWL from 4/16/71 profile

32° 37'

32° 36'

80° 02'

80° 01'