

TP-00273

TP-00273

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-00273
Classification No. Edition No. 1
Field Edited Map

LOCALITY

State South Carolina and Georgia
General Locality Charleston to Savannah
Locality FRIPP ISLAND

19 70 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>00273</u> MAP EDITION NO. <u>(1)</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		Robert B. Kelly	Dec. 1973
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY		Allen	Nov. 1973
3. STEREOSCOPIC INSTRUMENT : PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 SCALE: 1:20,000 CONTOURS BY CHECKED BY		C. Blood R.R. White NA	Dec. 1973 Dec. 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		Charles Parker A.L. Shands NA NA Charles Parker A.L. Shands	Jan. 1974 Jan. 1974 Jan. 1974 Jan. 1974
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		A.L. Shands	Jan. 1974
6. APPLICATION OF FIELD EDIT DATA BY		A.L. Shands	May, 1974
7. COMPILATION SECTION REVIEW BY		L.O. Neterer, Jr.	June 1974
8. FINAL REVIEW BY		A.L. Shands	Jan. 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)TP-00273
COMPILATION SOURCESU. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "E" and "L"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE SAVANNAH RIVER ENT. (Hilton Head)		(C) COLOR <input checked="" type="checkbox"/>		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 <input checked="" type="checkbox"/>			
<input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY					
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
* 71 E(I)2364 - 2366R	3/30/71	09:17	1:30,000	+ 0.2 ft. of MHW	
* 71 E(I)2278 - 2280R	3/28/71	13:34	1:30,000	+ 0.2 ft. of MLW	
70 L(C)9937A & 9938A	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.
The photography was supplemented by field edit revision in 1974.

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
TP-00269	No Survey	No Survey	TP-00272

REMARKS

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	Joseph K. Wilson	4/71
2. HORIZONTAL CONTROL	RECOVERED BY NA ESTABLISHED BY NA 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 BY <input checked="" type="checkbox"/> NO INVESTIGATION	NA
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY R.E. Kesselring	4/71
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

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)

70L(c)9970A

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
70L(c)9970A	TANK		

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 152

1 - Form 251

TP-00273
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.D. Black	Apr. 1974
2. HORIZONTAL CONTROL	RECOVERED BY R.D. Black ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY None	Apr. 1974
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 None LOCATED (Field Methods) BY N.A. 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 R.D. Black	Apr. 1974
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY R.D. Black (MHWL)	Apr. 1974

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)

28MAR 71E 2278, 2279, 2284

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

"Fripp Island Sketch"

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

1 Form C&GS 526 (recovery note); 2 forms NOAA 76-40;
3 Form NOAA 76-53 CSI Cards

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONTP-00273
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/ /74	Class III Manuscript Superseded	2/4/74	1/21/74 Field Edit
Field edit applied Compilation complete	5/10/74	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
	1175-74	9/9/74	Ldmk for Charts

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 9/9/74
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 ~~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-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

Revised 11/4/79

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SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT TP-00273

This 1:20,000 scale shoreline manuscript is one of nine 1:20,000 scale and four 1:10,000 scale manuscripts which comprise Project PH-7101, Charleston, SC to Savannah, GA. This is one of several projects which 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.

The field work done prior to compilation consisted of pre-marking horizontal control that was required for bridging and a foreshore profile at approximate longitude $80^{\circ} 29.9'$.

Bridging was done in the Rockville Office by analytical methods 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 tide coordinated photography for ordering ratios.

Compilation was done at the Atlantic Marine Center in December 1973 and January 1974 on the Wild B-8 Plotter using the bridging photography to delineate inshore features and to drop shoreline pass points common to the tide coordinated infrared photography. The foreshore profile was used to check the delineation of the MHW and MLW lines. The MHW line profile point fell within 10 meters of the delineated line. The MLW line compares very well. This profile was taken near an inlet and 23 days after photography so this comparison is reasonable.

Field edit was done in April 1974.

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

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

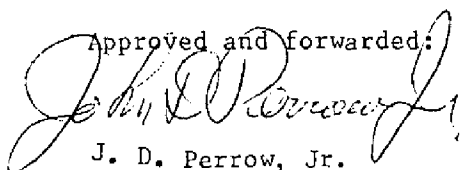
25. Photography

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

Submitted by,

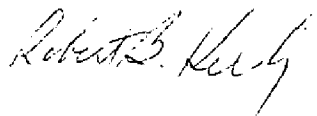
Robert B. Kelly

Approved and forwarded:



J. D. Perrow, Jr.

Chief, Aerotriangulation Section



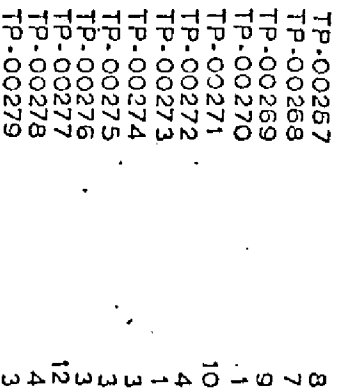
PH-7101
Charleston to Savannah

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

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



Official Mileage
for Cost Account

Sheet No.-Area Sq

Total 68

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	GEODEIC DATUM		ORIGINATING ACTIVITY	
					PH-7101	N.A. 1927	COORDINATES IN FEET STATE South ZONE South	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE
TP-00273		INLET 2, 1955	Vol. III Pg. 383				φ 32° 19' 39.978" ✓	
		SKULL, 1963	Vol. III Pg. 389				φ 32° 18' 23.630" ✓	
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COMPILATION REPORT

TP-00273

31. DELINEATION

The roads, piers and groins were delineated by instrument methods using the Wild B-8 stereoplotter with 1:40,000 scale color photography. All other details were compiled graphically using 1:30,000 scale infrared photographs ratioed to map scale and controlled by pass points positioned by the Wild B-8. The foreshore profile was used as a check on the graphic delineation of the MHW and MLW lines.

32. CONTROL

See the attached "Photogrammetric Plot Report", dated: December 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

The shoreline and all alongshore area details were delineated from office interpretation of the photographs. See item #31.

36. OFFSHORE DETAILS

All offshore details were compiled from office interpretation of the photographs.

37. LANDMARKS AND AIDS

Copies of Form 76-40 for 1 Landmark was forwarded to the Rockville, MD office on Sept. 5, 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

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with the following U.S. Geological Survey Quadrangle: FRIPPS INLET, SC, dated 1958, scale 1:24,000.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean Survey chart: #793, 6th edition, October 21, 1972, scale 1:40,000

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

CHARLES PARKER
Charles Parker, Carto. Aid, 1/16/74

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.)

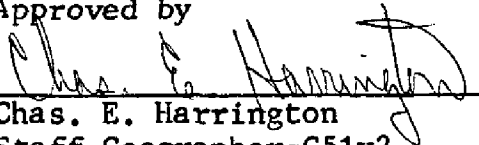
TP-00273

Atlantic Ocean

Fripp Inlet

Fripp 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-00273

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 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
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 A.L. Shands		SUPERVISOR <i>Albert C. Rauck, Jr.</i> A.C. Rauck, Jr.	
Reviewed: L.O. Neterer		5/6/74 6/26/74	
43. REMARKS Field edit applied from field edit ozalid and ratio prints 71E(I)2278, 2279 and 2284. Also a sketch of the S.L. changes was submitted of the S.W. S.L. of Fripps Inlet but was not used. The field editor has stated on the ozalid that this area is continuing to undergo change due to heavy construction. (Note Wreck at Fripps Inlet is on Field Edit Ozalid TP-00269)			

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.

(2)

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-00273

Fripps Island, South Carolina
PH-710151. 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 locations of the mean high water line (MHWL), groins, bulkheads, and rows of piles on the east shore of Fripps Island were determined by plane table and stadia, and by photo inspection. The MHWL on the south shore, east end, of Fripps Island was determined by taping from photogrammetric control points. The piles of rock boulders at the end of the groins at lat. $32^{\circ} 19.2'$; long. $80^{\circ} 27.9'$, were located by photo inspection.

The landmark water tank was located by theodolite intersection in 1971 by Photo Party 62. This position was verified by Photo Party 61 by comparison with the photogrammetric position and by field inspection. The 1971 position is entered on the NOAA form 76-40 completed by Photo Party 61.

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.

The shoreline along the east shore of Fripps Island has changed noticeably since the 1971 photography from which this sheet was compiled. A special sketch titled "Fripps Island Sketch" has been drawn of this area, and is attached to this report. The shoreline in this area must be re-compiled according to the information included on the sketch, and on photographs 28MAR71E 2279 and 2284.

The MHWL at the east end of the south shore of Fripps Island is to be re-compiled according to photograph 28MAR71E 2279. This shoreline has eroded considerably since 1971.

The groins at lat. $32^{\circ} 19.2'$; long. $80^{\circ} 27.9'$ are evidently covered with sand. They are no longer apparent. However, the piles of rock at the end of the groins still remain, and should be compiled as noted on the field edit ozalid.

A line of landmark dunes exists along the shoreline west of

the landmark water tank as noted on the field edit ozalid, and should be compiled.

54. RECOMMENDATIONS

See section 56.

56. GEOGRAPHIC NAMES

No thorough geographic names investigation was conducted. However, a possible discrepancy exists in the name FRIPPS ISLAND. Local signs, printed literature and residents refer to it as FRIPP ISLAND, without the letter "S". It is recommended that future geographic names investigations straighten out this possible discrepancy.

57. LANDMARKS AND AIDS TO NAVIGATION

One landmark, a water tank, is recommended for charting. A NOAA form 76-40 has been completed for it.

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

NOAA FORM 76-40 (2-71) PRESCRIBED BY PHOTOGRAMMETRY INSTRUCTION NO. 64.		U.S. DEPARTMENT OF COMMERCE-NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	
LANDMARKS FOR CHARTS		ORIGINATING ACTIVITY	
ORIGINATING LOCATION		FIELD INSPECTION	
Coastal Mapping Division, Norfolk, Va		FIELD EDIT	
DATE		COMPILATION	
May 6, 1974		FINAL REVIEW	
		QUALITY CONTROL AND REVIEW	
		(See reverse for responsible personnel)	

[illegible]

REVIEW REPORT TP-00273

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 through 65 is included with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with T-12617, scale 1:20,000 dated June 1966. Significant differences are shown in blue on the comparison print. In the area compared, TP-00273 supersedes T-12617 for nautical chart construction purposes. T-12617 is the latest registered prior survey of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangle FRIPPS INLET, SC, scale 1:24,000, dated 1958. Significant differences are shown in brown on the comparison print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with H-9211 (WH-20-2-73). A wreck at latitude $32^{\circ} 19.1$ and longitude $80^{\circ} 24.2'$ was shown with a (3). It was observed to bare 6 feet at 0900 EST on 1 April 1974, by a photogrammetric field edit party. This reduced to (6). The photogrammetric field editor directed that the horizontal position be obtained from the hydrographer. This discrepancy could not be resolved in final review and 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 11517, 7th edition, dated August 1974, scale 1:40,000. There is a wreck shown on the chart at latitude $32^{\circ} 19.1'$ and longitude $80^{\circ} 24.2'$ shown with a height of 4 feet above low water. It was observed to bare 6 feet at 0900 EST on 1 April 1974 by a photogrammetric field edit party. This reduced to (6). Due to insufficient data, this discrepancy could not be resolved in final review but it was called to the attention of Marine Charts. This and other significant differences were 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

=2,180,000 Ft.

25' (JOINS TP-00269)

24'

X=2,190,000 Ft.

23'

TP-00273
1:20,000

COMPARISON PRINT

Blue = T-12617
Red = Chart 11517
Brown = USGS Quad
Purple = H-9211 (WH-20-2-73)

~~I~~(3)
~~TH~~

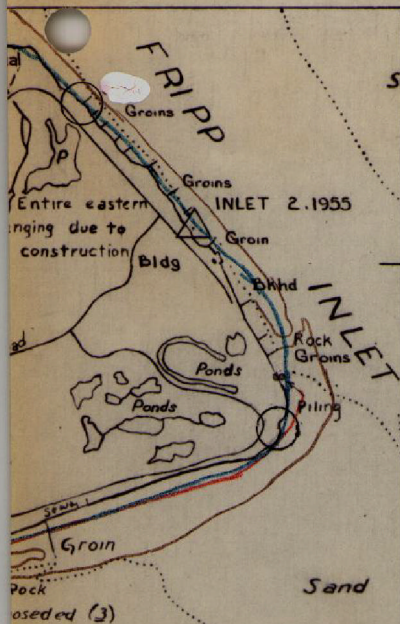
4 ft above LW

X=2,170,000 Ft.

27'

26'

TP-00273
1:20,000



Sand

(5)

Breakers

LWL

Sand

Breakers

Breakers

COMPARISON PRINT

Blue = T-12617
Red = Chart 11517
Brown = USGS Quad

Breakers

TP-00273
1:20,000

80°30'00"

X=2,160,000 Ft.
29'

28' 22

32°30'00"

COMPARISON PRINT
Blue = T-12617
Red = Chart 11517
Brown = USGS Quad

80,000 Ft.

F R I P P

I S L A N D

All roads on this island are private

19'

71 E 2364 R

TANK
ht=131(138)

Bldg
dunes

Bldg
Sand

SKULL, 1963

MHW
position from 4-22-71 profile
MLW position
from 4-22-71 profile

0,000 Ft.

18'