

TP 00269

TP 00269

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-00269
Classification No. Edition No. 1
Field Edited Map

LOCALITY

State South Carolina and Georgia
General Locality Charleston to Savannah
Locality St. Helena Sound
.....

19 70 TO 19 74

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 ☒ ORIGINAL ☐ RESURVEY ☐ REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, Norfolk		SURVEY TP. <u>00269</u> MAP EDITION NO. <u>1</u> MAP CLASS Final (F.E.) JOB PH. <u>7101</u>	
OFFICER-IN-CHARGE Jeffrey G. Carlen, Cdr.		LAST PRECEDING MAP EDITION TYPE OF SURVEY ☐ ORIGINAL ☐ RESURVEY ☐ 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: ☒ 1927 NORTH AMERICAN		OTHER (Specify)	
2. VERTICAL: ☒ MEAN HIGH-WATER ☒ MEAN LOW-WATER ☐ MEAN LOWER LOW-WATER ☐ 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			
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:20,000 CHECKED BY		C. Blood L.O. Neterer, Jr. NA 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		A.L. Shands R.R. White NA NA NA NA	Jan., 1974 Jan., 1974
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		R.R. White	Jan., 1974
6. APPLICATION OF FIELD EDIT DATA BY		A.L. Shands	Apr., 1974
7. COMPILATION SECTION REVIEW BY		G.R. Vanderhaven	May, 1974
8. FINAL REVIEW BY		G.R. Vanderhaven	May, 1974
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		Billy H. Barnes	Oct., 1975
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		Billy H. Barnes	March, 1976
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		R.T. CATOR	JAN 1976

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00269
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

☐ PREDICTED TIDES (Hilton Head, SC)☐ REFERENCE STATION RECORDS☒ TIDE CONTROLLED PHOTOGRAPHY

(C) COLOR X

(P) PANCHROMATIC

(I) INFRARED X

ZONE

Eastern

☒ STANDARD

MERIDIAN

75th

☐ DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
* 71 E(I)-2379 - 2381	3/30/71	09:41	1:30,000	+ 0.2 ft. of MHW
* 71 E(I)-2371 - 2374	3/30/71	09:30	1:30,000	+ 0.2 ft. of MHW
* 71 E(I)-2284 - 2287	3/28/71	09:45	1:30,000	+ 0.2 ft. of MLW
* 71 E(I)-2302 - 2306	3/28/71	15:35	1:30,000	+ 0.2 ft. of MLW
70 L(C)-9838A - 9840A	11/4/70	11:51	1:40,000	7.1 ft. above MLW
70 L(C)-9850A & 9851A	11/4/70	12:43	1:40,000	6.4 ft. above MLW
70 L(C)-9938A & 9839A	11/5/70	10:29	1:40,000	6.0 ft. above MLW

REMARKS *Tide coordinated infrared photography.

2. SOURCE OF MEAN HIGH-WATER LINE:

coordinated
Tide/infrared photography. Planetable, sextant and traverse methods were used to supplement the photography by the field editor in locating the MHWL.

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

Tide coordinated infrared photography.

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

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

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
No Survey	TP-00270	TP-00273	No Survey

REMARKS

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J.K. Wilson	June, 1971
2. HORIZONTAL CONTROL	RECOVERED BY R.E. Kesselring	June, 1971
	ESTABLISHED BY NA	
	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 R. Kesselring	Oct., 1970
	LOCATED (Field Methods) BY R. Kesselring	"
	IDENTIFIED BY R. Kesselring	"
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION	BY NA
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

Pre-marked

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
70L(C)9938A	CHAN, 1933		
70L(C)9851A	HUNTING ISLAND LIGHTHOUSE, 1902		
70L(C)9840A	JEFF, 1933		

3. PHOTO NUMBERS (Clarification of details)

NA

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
70L(C)9851A	HUNTING ISLAND LIGHTHOUSE, 1902		

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

7 Form 152 (USC&GS)

1 Form 266

1 Form 269c

1-contact print 70L(c)9938A

TP-00269
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.D. Black, LT(jg) NOAA	Apr., 1974
2. HORIZONTAL CONTROL	RECOVERED BY R.D. Black, LT(jg) NOAA	Apr., 1974
	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 R.D. Black, R. Kesselring	Apr., 1974
	LOCATED (Field Methods) BY R.D. Black	Apr., 1974
	IDENTIFIED BY NA	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY BY ☒ NO INVESTIGATION	NA
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY R.D. Black	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY R.D. Black(MHWL survey)	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
71 E2302	PH. PT. 69-01 thru 05		
71 E2303	PH. PT. 69-01A thru 03A		
71 E2286	PH. PT. 69-04A, 05A, & 07		
71 E2279	PH. PT. 69-06		

3. PHOTO NUMBERS (Clarification of details)

71E 2303, 71E 2306, 71E 2287, 71E 2286, 71E 2284

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

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

7. SUPPLEMENTAL MAPS AND PLANS

Sketch titled "BAY POINT SKETCH"; 7 forms NOAA 76-53(G.S.I. cards)

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

6 copies of forms C&GS 526 (Recovery Notes); 1 list of positions of control stations; 3 forms C&GS 758; 6 forms C&GS 157; 5 forms NOAA 76-40; 9 forms C&GS 24A; 4 forms C&GS 470.

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	1/17/74 field edit
Field edit applied Compilation complete	4/ /74	Class I Manuscript Superseded	9/10/74	
Final Review	10/ /74		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
1	59174	5/22/74	Nonfloating Aids
1	59174	5/22/74	Landmarks for Charts
2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: <u>5/22/74</u>			
3. ☒ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: <u>5/22/74</u>			

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.

2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS. 76-40 SUBMITTED BY FIELD PARTIES.

3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)				
SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL	

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

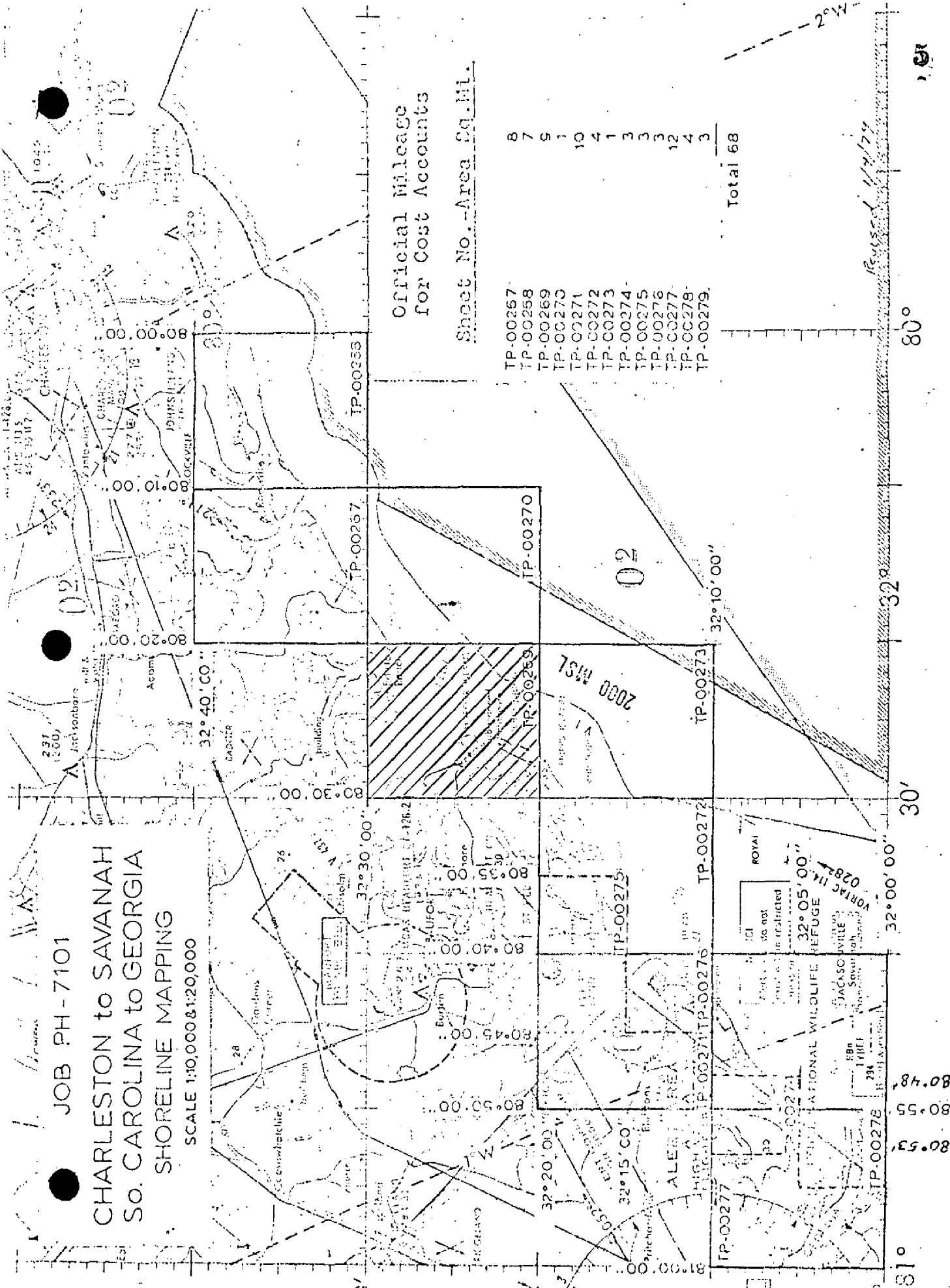
Total 68

80° 53'
80° 55'
80° 48'

30'

80°

Revised 11/4/77



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT TP-00269

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

The field work done prior to compilation consisted of pre-marking horizontal control that was required for bridging and the profiling of one foreshore area due east of Hunting Island Lighthouse.

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 photography for ordering ratios.

Compilation was done at the Atlantic Marine Center in December, 1973 and January 1974 using the Wild B-8 Plotter and the bridging photography to delineate inshore features and to drop shoreline pass points common to the tide co-ordinated infrared photography. This photography was then used to graphically delineate the mean high and mean low water lines. The foreshore profile was taken in an area subject to frequent change and did not compare well with the delineated shoreline. The profile was not used.

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 - 7101

21. Area Covered

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

22. Method

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

23. Adequacy of Control

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

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

24. Supplemental Data

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

25. Photography

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

Submitted by,

Robert B. Kelly

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

CHARLESTON to SAVANNAH
SO. CAROLINA to GEORGIA
SHORELINE MAPPING

Official Mileage
for Cost Account

Sheet No.-Area 30

Total 68

Official Mileage
for Cost Account

Sheet No. -Area Sq

TP-00267	8
TP-00268	7
TP-00269	7
TP-00270	9
TP-00271	1
TP-00272	10
TP-00273	4
TP-00274	1
TP-00275	3
TP-00276	3
TP-00277	3
TP-00278	12
TP-00279	4
	3

Total: 68

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	PH-7101	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS
					STATE	ZONE	ϕ LATITUDE	λ LONGITUDE	
TP-00269	POINT, 1902		Vol. III Pg. 375		X=		ϕ 32° 28'	55.214"	
					Y=		λ 80° 20'	16.553"	
	OTTER, 1963		Vol. III Pg. 377		X=		ϕ 32° 28'	23.914"	
					Y=		λ 80° 23'	54.540"	
	BAR, 1933		G.P. 1669 Pg. 64		X=		ϕ 32° 24'	18.102"	
					Y=		λ 80° 26'	44.937"	
	HUNTING ISLAND LIGHTHOUSE, 1902		Vol. III Pg. 379		X=		ϕ 32° 22'	31.358"	
					Y=		λ 80° 26'	15.689"	
	CHAN, 1933		G.P. 1669 Pg. 65		X=		ϕ 32° 21'	45.050"	
					Y=		λ 80° 29'	09.979"	
	WEE, 1933		Vol. III Pg. 386		X=		ϕ 32° 20'	40.144"	
					Y=		λ 80° 28'	46.826"	
	WEE 2, 1963		Vol. III Pg. 388		X=		ϕ 32° 20'	39.772"	
					Y=		λ 80° 28'	46.511"	
	COMBAHEE BANK LIGHT, 1955		P.C. Pg. 112		X=	2,174,400.48 ft.	ϕ		
					Y=	231,198.96 ft.	λ		
	KRELL, 1963		P.C. pg. 381 Bridge form 164		X=	2,165,774.54 ft.	ϕ		
					Y=	185,670.67 ft.	λ		
					X=		ϕ		
					Y=		λ		
COMPUTED BY L.B. Foltz					DATE 11/12/73	COMPUTATION CHECKED BY F.R. Gustafson			DATE 11/12/73
LISTED BY					DATE	LISTING CHECKED BY			DATE
HAND PLOTTING BY					DATE	HAND PLOTTING CHECKED BY			DATE

COMPILATION REPORT

TP-00269

31. DELINEATION

Delineation of cultural features was by the Wild B-8 stereo-plotter using 1:40,000 scale color photography. Points were dropped common to the 1:30,000 scale infrared photography to serve as control for the graphic delineation of the mean high water line, the mean low water line and the marsh limits. The foreshore profile due east of Hunting Island Lighthouse was not used since it was taken in an area of frequent change.

32. CONTROL

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

The photography was not of sufficient scale or quality to allow for the identification and positioning of any of the four daybeacons and one light charted in St. Helena Sound. Neither would it allow for the complete delineation of all of the shoals in the vicinity.

37. LANDMARKS AND AIDS

Copies of Form 76-40 for 6 non-floating aids to navigation and 2 landmarks were forwarded to the Rockville, MD office on May 20, 1974.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

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

40. HORIZONTAL AND VERTICAL ACCURACY

No statement required.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with the following U.S. Geological Survey Quadrangles: EDISTO BEACH, SC, dated 1956; FRIPPS BEACH, SC, dated 1958 and ST. HELENA SOUND, SC, dated 1956; all at a scale of 1:24,000

47. COMPARISON WITH NAUTICAL CHARTS

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

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

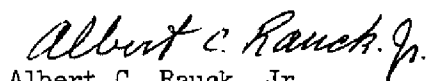
Submitted by:



A.L. Shands

Cartographer, January 11, 1974

Approved:



Albert C. Rauck, Jr.

Chief, Coastal Mapping Section, AMC

ADDENDUM TO THE COMPILATION REPORT

TP-00269

FIELD EDIT

Field edit was complete, all questions were answered satisfactorily.

19 August 1975

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP-00269

Atlantic Ocean

Otter Islands

Bay Point

Pine Island

Big Bay Creek

St. Helena Sound

Edisto Beach

South Edisto River

Edisto Island

Egg Bank

Fish Creek

Fripp Inlet

Fripp Island

Harbor Island

Harbor River

Hunting Island

Hunting Island Beach

Johnson Creek

Otter Creek

Approved by

Chas. E. Harrington
Staff Geographer-C51x2

NOAA FORM 75-74
(2-74)U.S. DEPARTMENT OF COMMERCE
NOAA
NATIONAL OCEAN SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

TP-00269

1. PROJECTION AND GRIDS RRW	2. TITLE RRW	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY RRW	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA		7. PHOTO HYDRO STATIONS
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT RRW	11. DETAIL POINTS
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE RRW	13. LOW-WATER LINE RRW	14. ROCKS, SHOALS, ETC.	15. BRIDGES RRW
16. AIDS TO NAVIGATION RRW	17. LANDMARKS RRW	18. OTHER ALONGSHORE PHYSICAL FEATURES RRW	19. OTHER ALONGSHORE CULTURAL FEATURES
PHYSICAL FEATURES			
20. WATER FEATURES RRW	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 RRW	28. BUILDINGS RRW	29. RAILROADS	30. OTHER CULTURAL FEATURES
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES RRW	34. JUNCTIONS RRW		35. LEGIBILITY OF THE MANUSCRIPT RRW
36. DISCREPANCY OVERLAY RRW	37. DESCRIPTIVE REPORT RRW	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS RRW
40. REVIEWER Richard R. White		SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauck, Jr. 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 Albert C. Rauck, Jr. A.C. Rauck, Jr.	
Reviewed by: G.R. Vanderhaven Apr. 10, 1974			
43. REMARKS Field edit applied from field edit ozalid and film copy of TP-00269 and 71 E(C)-2303, 71 E(C)-2306, 71 E(C)-2287 & 2286, 71 E(C)-2284, 71 E(C)-2302, 71 E(C)-2279.			

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.

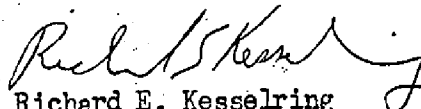
The procedure, in establishing the TBM's used to control the individual sections, was to take a level reading on a recoverable object for use as a TBM, record it as a foresight, and then send the rodman into the water where the rod was used as a combination tide staff/level rod. After observing the water 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.

(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-00269

St. Helena Sound, South Carolina
PH-7101

51. METHODS

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

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

Four daybeacons, the water tank, and COMBAHEE BANK LIGHT were located by theodolite cuts. One daybeacon at Lat. $32^{\circ}29.8'$ Long. $80^{\circ}21.0'$ was located by sextant. The position of two piles at Lat. $32^{\circ}22.5'$ Long. $80^{\circ}26.0'$ is to be computed by the photogrammetry office from theodolite cut information attached to this report. The wreck (Lat. $32^{\circ}20'$ Long. $80^{\circ}27'$) and the mean high water line on Egg Bank were located by sextant. The mean high water line (MHWL) surveys on Hunting Island and Edisto Beach were done by both plane table and stadia and theodolite and stadia.

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 landmark water tank (Lat. $32^{\circ}22.8'$ Long. $80^{\circ}26.6'$) has been plotted incorrectly. This tank has been re-plotted on the film ozalid from the position computed by this party.

The MHWL at Bay Point on Edisto Beach (Lat. $32^{\circ}28.8'$ Long. $80^{\circ}20.1'$) has changed dramatically since the 1971 photography from which this sheet was compiled. A new MHWL was determined by this party. A special sketch of this area has been drawn and is attached to this report.

A new MHWL was determined along most of the east shore of Hunting Island. This shoreline is rapidly eroding. The MHWL on Egg Bank (Lat. $32^{\circ}25.8'$ Long. $80^{\circ}26.0'$) was not compiled, and has been delineated on the film ozalid. Pelican Bank (Lat. $32^{\circ}27'$ Long. $80^{\circ}25'$) was not compiled, and has been delineated on photo 71E3206. A small inlet has been formed since photography, (Lat. $32^{\circ}23'$ Long. $80^{\circ}26'$) and its position is shown on photo 71E2286.

54. RECOMMENDATIONS

None.

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

Six aids to navigation were located by field methods and are recommended for charting. They were Combahee Bank Light, Pelican Bank Daybeacon A4, Egg Bank Daybeacons A6, A8, and A10 and South Edisto River Daybeacon 2. All are maintained by the U.S. Coast Guard.

Two landmarks, Hunting Island Lighthouse (abandoned) and Hunting Island Water Tank, are recommended for charting. The lighthouse is a triangulation station.

Forms 76-40 have been completed for all of the above and are attached to this report.

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

RDB/mfs

Report

U.S. DEPARTMENT OF COMMERCE-NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION									
NONFLOATING AIDS FOR CHARTS									
ORIGINATING ACTIVITY		DATE		METHOD AND DATE OF LOCATION		CHARTS AFFECTED			
☐ FIELD INSPECTION ☐ FIELD EDIT ☒ COMPILATION ☐ FINAL REVIEW ☐ QUALITY CONTROL AND REVIEW (See reverse for responsible personnel)		30 Apr., 74		(See instructions on reverse of this form)					
JOB NUMBER		SURVEY NUMBER		DATUM		POSITION		LONGITUDE	
PH-7101		T-IP-00269		N.A. 1927					
STATE: South Carolina		DESCRIPTION		LATITUDE		LONGITUDE		D.P. METERS	
CHARTING NAME				0 /		0 /		D.P. METERS	
LIGHT	(Combahee Bank Light, 1955)	32 28	03.12880	26	04.35	113.7			
DAY-BEACON	Pelican Bank Daybeacon A4	32 26	49.04	80 25	51.63	1349			
DAY-BEACON	Egg Bank Daybeacon A6	32 25	59.85	80 26	39.68	1037			
DAY-BEACON	Egg Bank Daybeacon A8	32 25	24.17	80 26	24.97	653			
DAY-BEACON	Egg Bank Daybeacon A10	32 24	59.05	80 26	17.77	464			
DAY-BEACON	South Edisto River Daybeacon 2	32 29	48.11	80 21	2.83	74			

REVIEW REPORT TP-00269

SHORELINE

October 1975

61. GENERAL STATEMENT:

See Summary which is page six of this Descriptive Report.

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with T-12613 and T-12614, scale 1:20,000, dated April 1966 and T-12617, scale 1:20,000, dated June 1966. Significant differences are shown in blue on the comparison print. In the area compared, TP-00269 supersedes T-12613, T-12614 and T-12617 for nautical chart construction purposes. T-12613, T-12614 and T-12617 are the latest registered prior surveys of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangles FRIPPS INLET, SC, scale 1:24,000, dated 1958, ST. HELENA SOUND, SC, scale 1:24,000, dated 1956, and EDISTO BEACH, SC, scale 1:24,000, dated 1956. Significant differences are shown in brown on the comparison print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEY:

A comparison was made with H-9364 (PE20-1-73) and H-9211 (WH20-2-73) both at a 1:20,000 scale. There were no significant differences noted.

65. COMPARISON WITH NAUTICAL CHARTS

The area covered by this map is within the limits of NOS Chart 11517, 7th edition, scale 1:40,000, dated Aug. 24, 1974. Significant differences are shown in red on the comparison print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Reviewed by:

Billy H. Barnes

Billy H. Barnes

Approved for forwarding:

Joseph W. Vonasek

Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

TP-00269
1:20,000 22

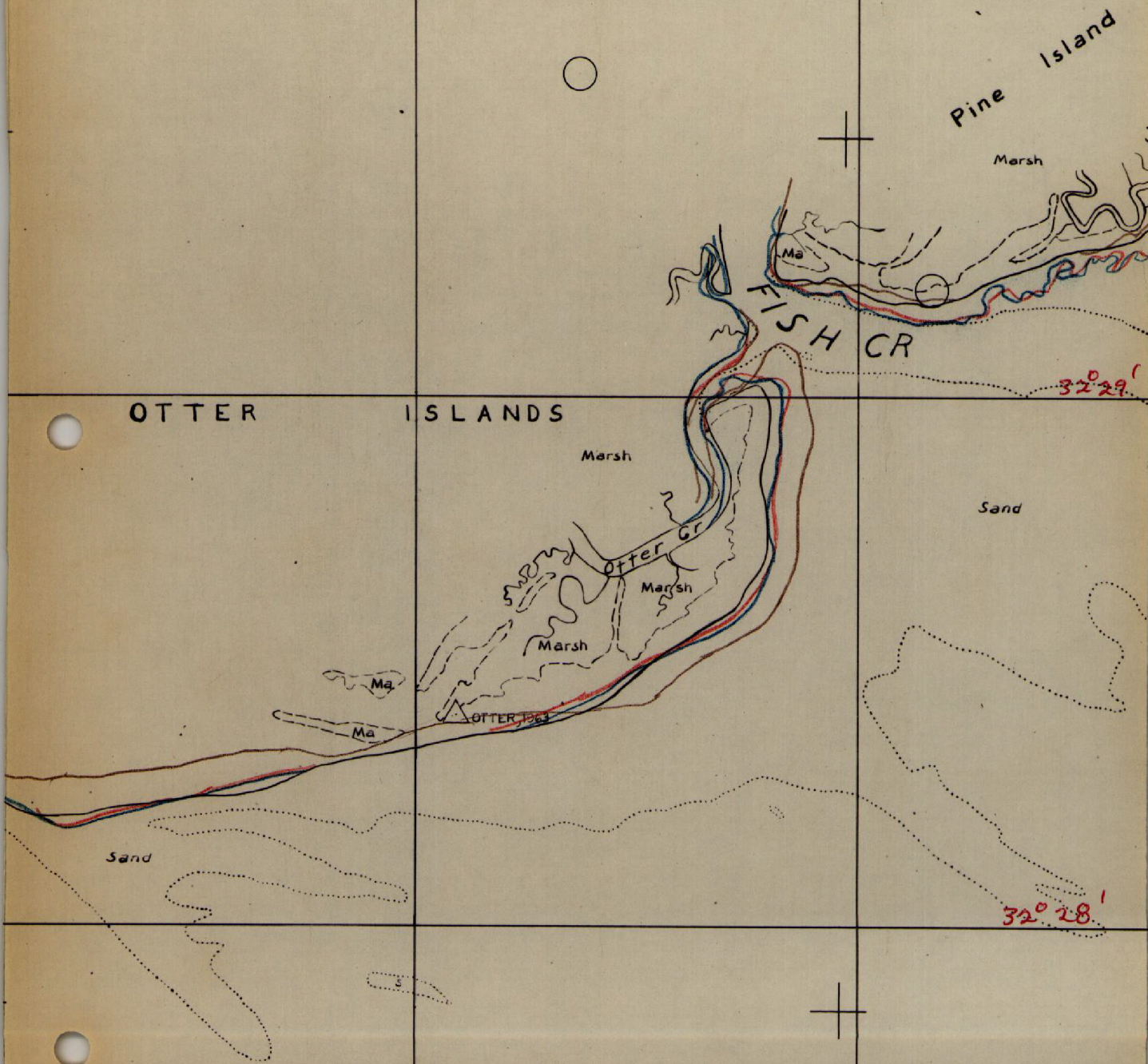
2,180,000 Ft.

X=2,190,000 Ft.

80° 24'

80° 23'

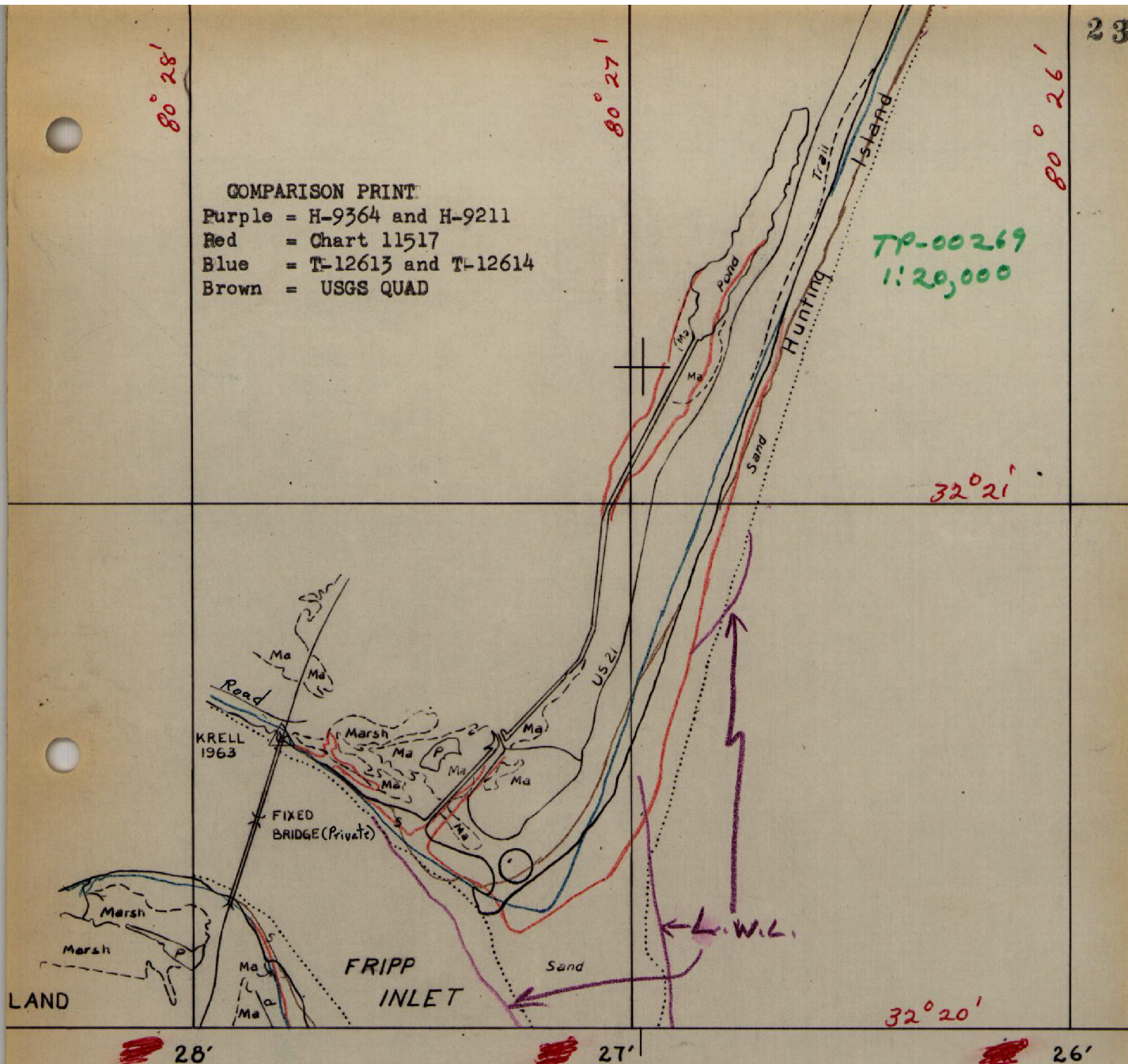
COMPARISON PRINT
Red = Chart 11517
Blue = T-12613 and T-12614
Brown = USGS QUAD



COMPARISON PRINT

Purple = H-9364 and H-9211
Red = Chart 11517
Blue = T-12613 and T-12614
Brown = USGS QUAD

TP-00269
1:20,000



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

366601

938310

561100

TP-00269
1:20,000

838330

24.

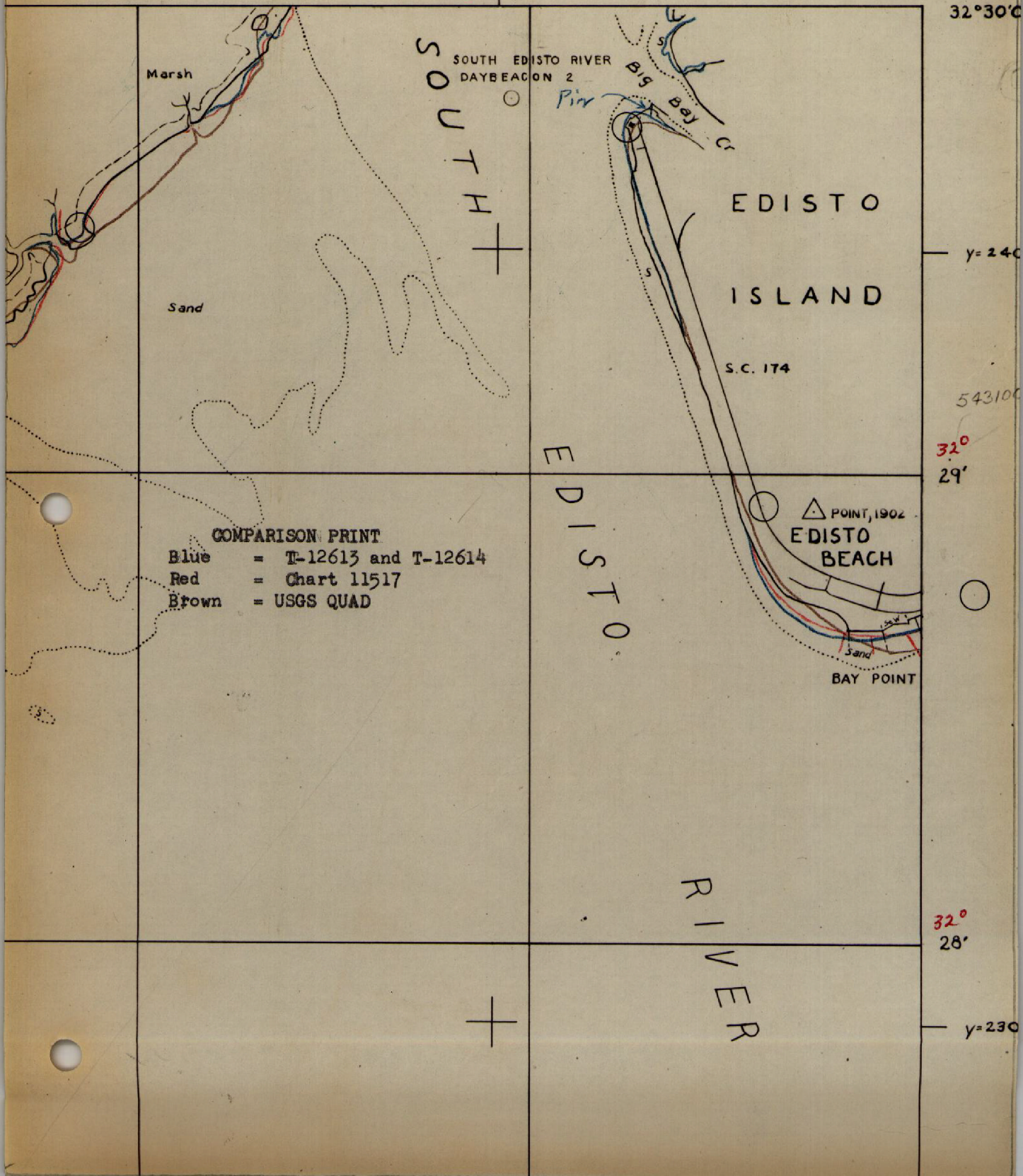
X=2,200,000 Ft.

80° 22'

80° 21'

80°20'00"

32°30'0"



TP-00269
1:20,000

25

