ORIGINAL

T-12295 (2)

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-7019 *Map No.* T-12295(2)

Classification No. *Edition No.* 2

Field Edited Map

LOCALITY

State North Carolina - South Carolina

General Locality Cape Fear to Murrells Inlet

Locality Little River, SC

1969 TO 1972

REGISTRY IN ARCHIVES

DATE

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

T-12295 (2)

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

SURVEY T-12295(2)

MAP EDITION NO. 2

MAP CLASS Final

JOB PH- 7019

PHOTOGRAMMETRIC OFFICE: Coastal Mapping Division (Norfolk)

OFFICER-IN-CHARGE: Jeffrey G. Carlen

LAST PRECEEDING MAP EDITION

TYPE OF SURVEY: ☒ ORIGINAL T-12295 ☐ RESURVEY ☐ REVISED

JOB PH- 6217

MAP CLASS

SURVEY DATES: 1964 TO 1965

I. INSTRUCTIONS DATED

1. OFFICE	2. FIELD
Aerotriangulation - Jan. 15, 1971	Apr. 26, 1970
Compilation - Jan. 21, 1972	Dec. 8, 1970
Office Supplement I - Jan. 25, 1972	

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 North; STATE North Carolina, ZONE

5. SCALE: 1:10,000

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION	BY	J. Perrow, Jr.	Sept. 1971
METHOD: Stereoplanigraph	LANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	D. Phillips	Oct., 1971
METHOD: Coradamat	CHECKED BY	D. Phillips	Oct., 1971
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	T.J. Bulfer	Feb., 1972
	CHECKED BY	A.L. Shands	Feb., 1972
INSTRUMENT: Wild B-8	CONTOURS BY	NA	
SCALE: 1:20,000	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	L.O. Neterer, Jr.	Feb., 1972
	CHECKED BY	A.L. Shands	Mar., 1972
	CONTOURS BY	NA	
METHOD: Wild B-8 and Graphic	CHECKED BY	NA	
	HYDRO SUPPORT DATA BY	L.O. Neterer, Jr.	Feb., 1972
SCALE: 1:10,000	CHECKED BY	A.L. Shands	Mar., 1972
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	A.L. Shands	Mar., 1972
6. APPLICATION OF FIELD EDIT DATA	BY	R.R. White	Sept. 1974
	CHECKED BY	Frank Margiotta	Sept. 1974
7. COMPILATION SECTION REVIEW	BY	A.L. Shands	Mar., 1972
8. FINAL REVIEW	BY	C.H. Bishop	Feb., 1976
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	C. H. Bishop	Mar. 1976
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY		
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	R. CATOR	MAY 1976

NOAA FORM 76-36A — SUPERSEDES FORM C&GS 181 SERIES

* U.S. G.P.O. 1972-769382/582 REG.#6

NOAA FORM 76-36B
(3-72)

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

T-12295 (2)

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild RC-8 E & K

TYPES OF PHOTOGRAPHY LEGEND
(C) COLOR x
(P) PANCHROMATIC
(I) INFRARED x

TIME REFERENCE
ZONE: Eastern — [x] STANDARD
MERIDIAN: 75th — [ ] DAYLIGHT

TIDE STAGE REFERENCE
[x] PREDICTED TIDES
[ ] REFERENCE STATION RECORDS
[x] TIDE CONTROLLED PHOTOGRAPHY

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
69E(C)3756 - 3759	4 DEC 1969	10:12	1:20,000	1.0 ft. above MLW
*70K(I)5412 - 5416	8 APR 1970	14:28	1:20,000	± 0.2 ft. of MLW
70E(C)8736 & 8737	6 DEC 1970	10:37	1:40,000	2.4 ft. above MLW

*Tide Controlled

REMARKS

		M.R.	M.T.L.
Reference Station	CHARLESTON, SC	5.2	2.6
Subordinate Station	TUBBS INLET, NC	4.5	2.2

2. SOURCE OF MEAN HIGH-WATER LINE:

Waties Island & Goat Island: Clarified on Photo 69 E 3757 by field editor Aug 1972

Mad Inlet & Sunset Beach: Ground survey methods in Aug. 1972

Marsh in Salt Boiler Cr.: Clarified on Photo 69 E 3757 by field editor in Aug. 1972

Remainder of MHWL: Office interpretation of photography of Dec. 6, 1970

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

Office interpretation of the April 8, 1970 1:20,000 scale infrared photographs; Centers not shown.

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 Contemp. Survey	T-12288 (2)	No Contemp. Survey	T-12294 (2)

REMARKS

NOAA FORM 76-36B
(3-72)

* U.S. G.P.O. 1972-769381/568 REG.#6

NOAA FORM 76-36C
(3-72)

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

T-12295 (2)

HISTORY OF FIELD OPERATIONS

1. [X] FIELD INSPECTION OPERATION [ ] FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		J. Wilson	Nov., 1970
2. HORIZONTAL CONTROL	RECOVERED BY	None	
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	None	
3. VERTICAL CONTROL	RECOVERED BY	NA	
	ESTABLISHED BY	NA	
	PRE-MARKED OR IDENTIFIED BY	NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (*Triangulation Stations*) BY	None	
	LOCATED (*Field Methods*) BY	None	
	IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [X] NO INVESTIGATION	BY	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED: None

2. VERTICAL CONTROL IDENTIFIED: NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (*Clarification of details*)

NA

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: [ ] REPORT [X] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [X] NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

None

★U. S. GOVERNMENT PRINTING OFFICE: 1973--758074/1057 REGION NO. 6

NOAA FORM 76-36C
(3-72)

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

T-12295 (2)

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		R. S. Tibbetts	Aug. 1972
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 ☐ COMPLETE ☒ SPECIFIC NAMES ONLY ☐ NO INVESTIGATION — BY	R. E. Kesselring	Aug. 1972
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	R. E. Kesselring	Aug. 1972
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED: NA

2. VERTICAL CONTROL IDENTIFIED: NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS *(Clarification of details)*
69 E(C) 3759 & 3757

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE

6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS
None

8. OTHER FIELD RECORDS *(Sketch books, etc.* **DO NOT** *list data submitted to the Geodesy Division)*
1 Field Edit Report, including
2 pages, Positions of Shoreline Topography
1 page, Accuracy Test
2 Field Edit Ozalids (1 paper, 1 Film)

*U.S. GOVERNMENT PRINTING OFFICE: 1974 - 768-078

NOAA FORM 76-36D
(3-72)

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

T-12295 (2)

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation Complete Pending Field Edit	Feb. 1972	Class III Manuscript Superseded	None	May 16, 1972
Field edit applied Compilation complete	Sept. 1974	Class I Manuscript	Apr. 7, 1975	
Final Review	Feb. 1976		2-27-76	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
			None

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

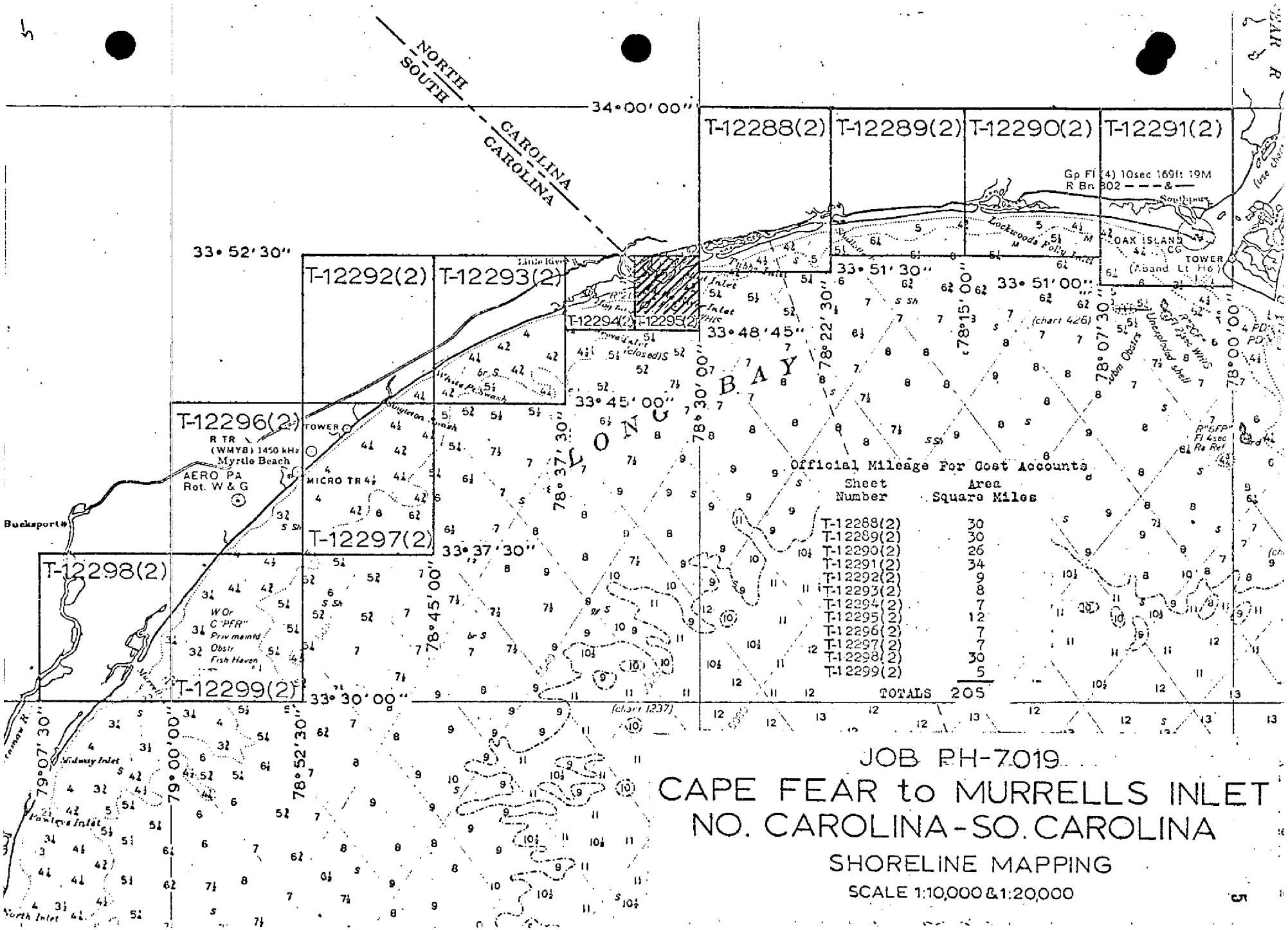
1. [X] BRIDGING PHOTOGRAPHS; [X] DUPLICATE BRIDGING REPORT; [X] COMPUTER READOUTS.
2. [X] CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. [X] SOURCE DATA *(except for Geographic Names Report)* AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS *(This section shall be completed each time a new map edition is registered)*

	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
SECOND EDITION	TP - _____ (2)	PH - _____	☐ 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

NOAA FORM 76-36D

★U. S. GOVERNMENT PRINTING OFFICE: 1973--778075/1077 REGION NO. 6



JOB PH-7019

CAPE FEAR to MURRELLS INLET
NO. CAROLINA - SO. CAROLINA

SHORELINE MAPPING

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

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS T-12288 (2) through T-12299 (2)

Project PH-7019 is one of several projects that comprise the Seaward Coastal Plains Expedition (SCOPE). It is a resurvey most of Project PH-6217 and consists of ten 1:20,000 scale and two 1:10,000 scale shoreline manuscripts. The project extends from Cape Fear, NC to Murrells Inlet, SC. Only the Atlantic Ocean shoreline and shoreline adjacent to inlets was mapped.

The only field work prior to compilation was the identification and premarking of horizontal control required for bridging.

Bridging was done in the Rockville Science Center in Sept., 1971, using the stereoplanigraph with 1:40,000 scale photography taken in December, 1970. The Bald Head Island area was bridged as part of Project CM-7219 in 1973, using 1:40,000 scale color photography taken in October, 1972.

Compilation was done at the Atlantic Marine Center in February and March, 1972.

Field edit was done as follows:

Map	Field Edit Performed by: Experienced Photogrammetrist	Trainee	Date
T-12288 (2)	x		Feb., 1975
T-12289 (2)		x	Feb., 1973
T-12290 (2)		x	Jan., 1973
T-12291 (2)		x	Jan., 1973
T-12292 (2)	x		June, 1974
T-12293 (2)	x		June, 1974

Map	Field Edit Performed by: Experienced Photogrammetrist	Trainee	Date
T-12294 (2)	x		Aug., 1972
T-12295 (2)	x		Aug., 1972
T-12296 (2)	x		May, 1974
T-12297 (2)	x		June, 1974
T-12298 (2)	x		May, 1974
T-12299 (2)	x		May, 1974

The original manuscripts were stabilene sheets. The 1:20,000 scale maps are $7\frac{1}{2}$ minutes in latitude by $7\frac{1}{2}$ minutes in longitude, except T-12288 (2) which is $8\frac{1}{2}$ minutes in latitude by $7\frac{1}{2}$ minutes in longitude, and T-12291 (2) which is 9 minutes in latitude by $7\frac{1}{2}$ minutes in longitude. The 1:10,000 scale maps, T-12294 (2), and T-12295 (2), are each 3 3/4 minutes in latitude by 3 3/4 minutes in longitude.

A cronaflex positive copy and a negative of each final reviewed map were forwarded for record and registry.

PHOTOGRAMMETRIC PLOT REPORT
Job PH-7019
Cape Fear to Murrells Inlet
North Carolina and South Carolina

Sept. 1971

21. Area Covered

This project covers the shoreline from Cape Fear, North Carolina, to just south of Murrells Inlet, South Carolina. Included are 12 T-sheets (T-12288(2) thru T-12299(2). All sheets are 1:20,000 scale with the exceptions of T-12294(2) and T-12295(2) which are 1:10,000 scale.

22. Method

Five strips of photography were bridged on the Zeiss Stereoplanigraph C-8 in order to obtain pass point positions and exact scale ratios (for Strips #5 thru #13) to be used during compilation. All bridging was performed using color positives rather than glass plates.

Strip #1 (70-E(C)-8716 thru 8725) was adjusted on four triangulation stations with tie points as checks. Strip #2 (70-E(C)-8731 thru 8742) was adjusted on four triangulation stations with companion points, ties with Strips #1 and #3, and one other station as checks. Strip #3 (70-E(C)-8647 thru 8664) was adjusted on nine triangulation points with companion points, ties with Strip #2, and three additional triangulation stations as checks. Strip #5 (69-E(C)-3754 thru 3761) and Strip #6 (69-E(C)-3715 thru 3720) were both adjusted to tie points from Strip #2. Both strips were adjusted on four tie points with additional ties between the two strips as checks. All tie points between strips were averaged. All adjustments were performed on the IBM 1620. All sheets were ruled and plotted on the Coradomat.

23. Adequacy of Control

Horizontal control complied with project instructions; however, it was not adequate in the area of junction of Strips 2 and 3. Vaught RM6, 1962, due to its placement, was visible, in stereo, only on Strip #3. Office identified control provided a substitute in this area.

Although all control held within National Map Accuracy the adjustments of these strips are very weak. No attempt should be made in the future to produce 1:10,000 scale sheets from

the material provided for the 1:20,000 scale sheets. The two short bridges (5 and 6), which were bridged on points from 1:40,000 scale photography, seem to be adequate for the 1:10,000 scale delineation but are only as good as the bridging for the 1:20,000 scale sheets.

All strips in this project were photogrammetrically weak due to the large water areas in the models.

24. Supplemental Data

Vertical control used for bridging only was obtained from local USGS quads.

25. Photography

Photography was adequate as to overlap and definition. Coverage was adequate with the exception of a small land area in the lower right hand edge of T-12291(2).

Respectfully submitted:

John D. Perrow, Jr.

Approved and Forwarded:

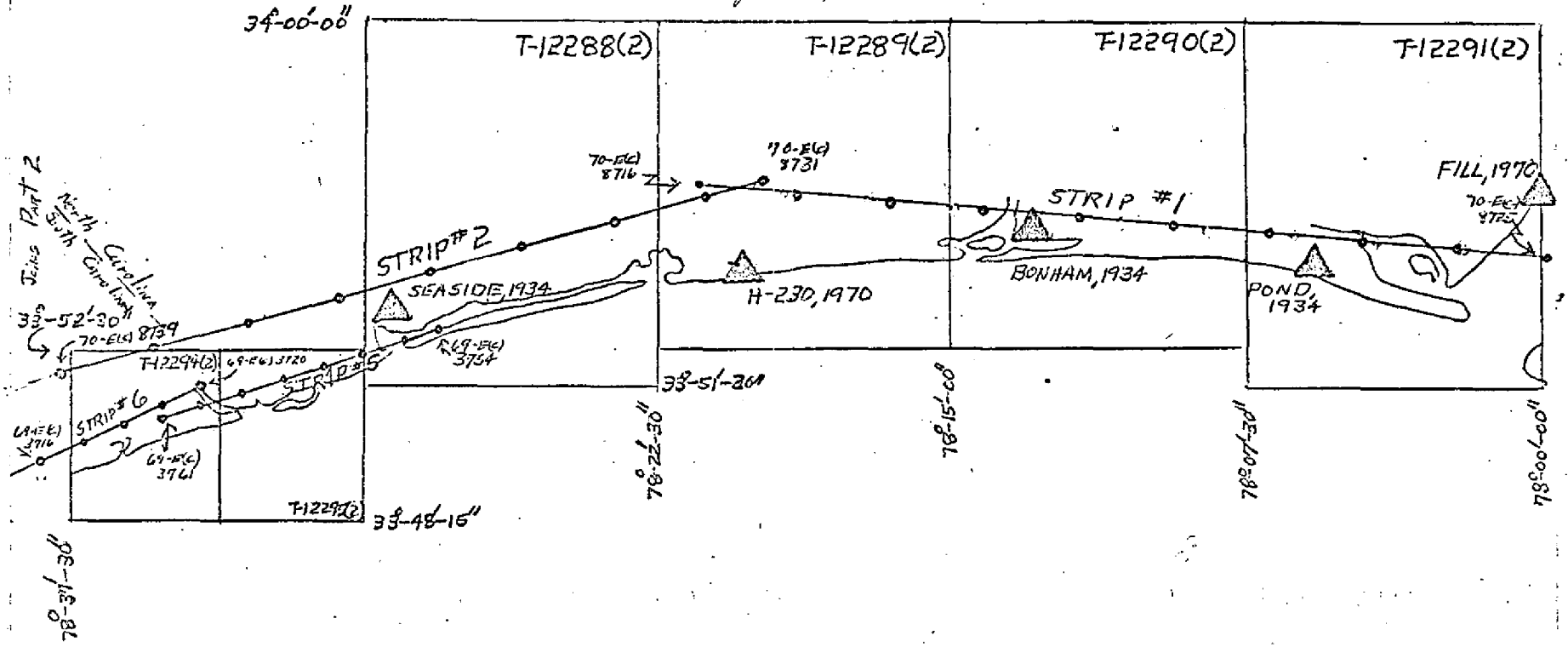
Henry P. Eichert, Chief
Aerotriangulation Section

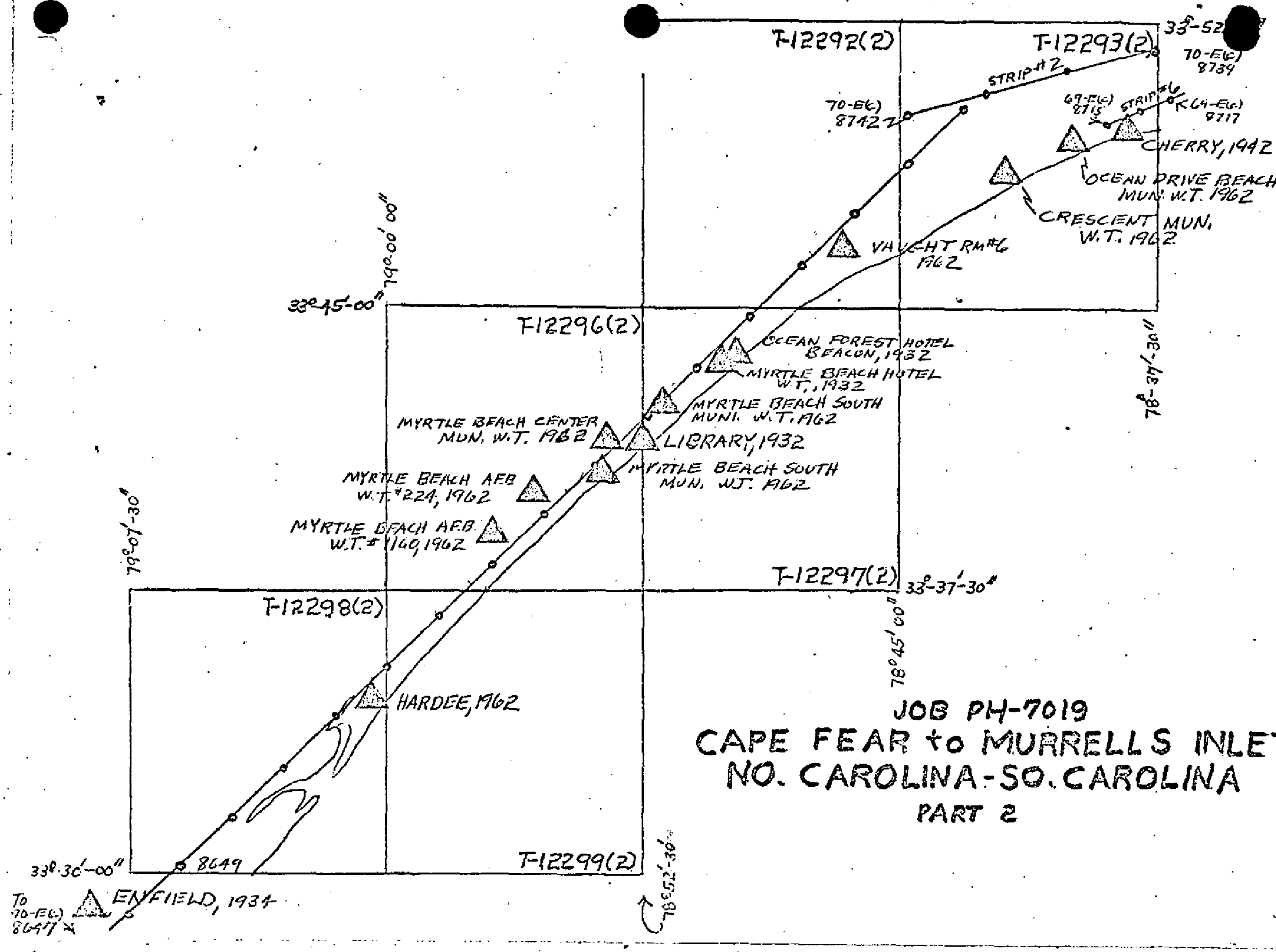
JOB H-7019

CAPE FEAR to MURRELLS INLET
NO. CAROLINA - SO. CAROLINA

PART 1

Sept 71





JOB PH-7019
CAPE FEAR to MURRELLS INLET
NO. CAROLINA-SO. CAROLINA
PART 2

NOAA FORM 76-41
(6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
T-12295 (2)	PH-7019	N.A. 1927	Coastal Mapping Div. (Norfolk)

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE South Carolina ZONE North	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
NONE			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	

COMPUTED BY	DATE	COMPUTATION CHECKED BY	DATE
LISTED BY	DATE	LISTING CHECKED BY	DATE
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

COMPILATION REPORT

T-12295 (2)

31. DELINEATION

All detail above the mean low water line was compiled from 1:40,000 scale color diapositives of photography dated Dec. 8, 1970, using the Wild B-8 stereoplotter. The mean low water line was compiled graphically from 1:20,000 scale tide controlled photography dated Apr. 8, 1970. Pass points were dropped in the B-8 models common to the infrared and the 1:20,000 scale color ratios dated Dec. 4, 1969. The latter were processed for hydro support. It had been intended that they also be used as compilation photography. However, no satisfactory horizontal scale solution could be attained. See Item #32.

There was no field inspection prior to compilation. Photograph coverage and quality was good.

32. CONTROL

See Photogrammetric Plot Report dated September, 1971. An attempt was made to set models on Strip 5; however, the operators could not attain a satisfactory horizontal solution. Some of the bridge points missed by 2.0 mm. The 1:40,000 scale bridge Strip 2 was used to compile this manuscript.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are not applicable.

Drainage was mapped from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

See Par. #31.

36. OFFSHORE DETAILS:

None

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

See Form 76-36b, Item #5.

40. HORIZONTAL AND VERTICAL ACCURACY

No Statement

41. - 45. Not Used.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with A.M.S. Quadrangle LITTLE RIVER, SC, NC, 1:24,000 scale, dated 1943 and with Shoreline Manuscript T-12295 dated 1966. Many differences caused by man made and natural changes were noted, particularly at the Inlet areas.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 1237, scale 1:80,000, dated September 16, 1968, 6th edition, and with Chart 835-SC, scale 1:40,000, 8th edition dated January 23, 1971.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted:

Lowell O. Neterer, Jr.
Cartographic Technician
Feb. 29, 1972

Approved:

Albert C. Rauck, Jr.
Chief, Coastal Mapping Section, AMC

ADDENDUM TO THE COMPILATION REPORT

T-12295 (2)

FIELD EDIT:

Field edit was satisfactory. All questions were answered.

No difficulties were experienced in application of field edit to the manuscript.

29 Sept. 1975

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7019 (Cape Fear to Murrells Inlet, N.C.)

T-12295 (2)

Atlantic Ocean

Bird Island

Bonaparte Creek

Clayton Creek

Dead Backwater

East River

East River Island

Goat Island

Little River

Little River Inlet

Long Bay

Mad Inlet

Salt Boiler Creek

Sunset Beach

Waties Island

Approved by

Chas. E. Harrington

Chas. E. Harrington
Staff Geographer--C51x2

NOAA FORM 75-74 (2-74)

U.S. DEPARTMENT OF COMMERCE
NOAA
NATIONAL OCEAN SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T-12295 (2)

1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
A.L.S.	A.L.S.	A.L.S.	A.L.S.

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY *(Topographic stations)*	7. PHOTO HYDRO STATIONS
None	X X	X X

8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
X X	X X	A.L.S.	A.L.S.

ALONGSHORE AREAS *(Nautical Chart Data)*

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
A.L.S.	A.L.S.	A.L.S.	A.L.S.

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
X X	X X	A.L.S.	A.L.S.

PHYSICAL FEATURES

20. WATER FEATURES	21. NATURAL GROUND COVER	22. PLANETABLE CONTOURS
A.L.S.	A.L.S.	NA

23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
NA	NA	NA	X X

CULTURAL FEATURES

27. ROADS	28. BUILDINGS	29. RAILROADS	30. OTHER CULTURAL FEATURES
A.L.S.	A.L.S.	X X	X X

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
NA	NA

MISCELLANEOUS

33. GEOGRAPHIC NAMES	34. JUNCTIONS	35. LEGIBILITY OF THE MANUSCRIPT
A.L.S.	A.L.S.	A.L.S.

36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
A.L.S.	A.L.S.	X X	A.L.S.

40. REVIEWER	SUPERVISOR, REVIEW SECTION OR UNIT
Compilation: A.L. Shands 3/6/72 A.L. Shands	Albert C. Rauck Jr. Albert C. Rauck, Jr.

41. REMARKS *(See attached sheet)*

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

COMPILER	SUPERVISOR
R.R. White 9/5/74 R R White	Albert C. Rauck Jr Albert C. Rauck, Jr.
Rev. by: F. Margiotta 9/11/74 F. Margiotta	

43. REMARKS

Field edit applied from: Field edit ozalid and photos 69E(C)3757 and 69E(C)3759 and T-12294 (2) film ozalid.

FIELD EDIT REPORT
CAPE FEAR, N.C. TO MURRELLS INLET, S.C.
JOB PH-7019
MAP T-12295 (2)

52. Adequacy of Compilation

Compilation was adequate. The entire ocean shoreline from the eastern limits of the map to Mad Inlet has accreted from 50 to 150 feet. This is due to an existing inlet being filled and another inlet being cut through further to the east. The entire area between was then hydraulicly filled and the accretion noted must be due to the overflow. The new shoreline was topoed by ground survey methods and indicated, approximately, on the field edit ozalid. Plane coordinate positions of the shoreline are included with this report.

In Salt Boiler Creek the entire western shoreline has eroded from 50 to 500 feet, this too was topoed in and the shoreline indicated on the field edit ozalid. The horizontal positions of this shoreline are included with this report. In the area at lat 33° 51' 50", long 78° 31' 45" an extensive area of apparent shoreline was deleted, this area covers two feet or more at MHW and has some "grass in water". "Sunset Beach Bridge" has been burnt and only the pilings remain. Several other shoreline and marsh limit changes were noted and indicated on the field edit ozalid with proper cross-references to the appropriate photographs.

There is one fairly major shoreline change near the eastern end of Goat Island and the inlet near the eastern end of Bird Island is now closed. There are "oysters in the foreshore" on the southerly shore of Goat Island.

Several extant, but not delineated roads, were indicated in the Sunset Beach area of the manuscript. They were indicated on the field edit ozalid and cross-referenced to the appropriate photograph.

53. Map Accuracy

A short accuracy test was requested due to bridging control being taken from the pass points of 1:40,000 scale color photography. This accuracy test was run using street intersections as the only well-defined points available. No comparison was found to exceed standards of National Map Accuracy. See the attached list for these comparisons.

54. Recommendations

None.

55. Examination of Proof Copy

Geographic Names

No investigation of geographic names was made other than the one indicating the placement of the name "Dead Backwater." This name should be extended to the limits indicated on the field edit ozalid.

56. Landmarks and Non-Floating Aids for Navigation

There are no landmarks or fixed aids to navigation within the compiled limits of this map.

57. Rocks, Reefs, and Shoals

There are no rocks or reefs, as defined, within the limits of this map. There is a large shoal in Mad Inlet, but it is subject to such frequent changes that its limits, as compiled, are adequate.

58. Photography

Photography consisted of 1:10,000 ratio color photographs and was excellent.

59. Disposition of Data

The field edit ozalid, field prints containing field edit information and all pertinent field edit data were forwarded to the Director, Atlantic Marine Center.

Richard E. Kesselring
Surveying Technician
Photo Party 62

ACCURACY TEST
SHEET T-12295 (2)
CAPE FEAR, N.C. TO MURRELLS INLET, S.C.
JOB PH-7019

	POINT		X		Y
11	END OF VESTA PIER	SCALED	2,149,810.00		42,424.00
		COMPUTED	2,149,820.64		42,415.78
			10.64	E = 13.44	8.22
2	Int. of Main St. & 1st St.	SCALED	2,149,564.00		43,528.00
		COMPUTED	2,149,562.86		43,538.79
			1.14	E = 10.85	10.79
3	Int. of Main St & 2ed St.	SCALED	2,150,032.00		43,656.00
		COMPUTED	2,150,027.43		43,655.75
			4.57	E = 4.58	0.25
4	Int. of Main St. & 3ed St.	SCALED	2,150,227.00		43,704.00
		COMPUTED	2,150,232.09		43,707.23
			5.09	E= 6.03	3.23
5	Int. of Main St. & 4th St.	SCALED	2,150,435.00		43,762.00
		COMPUTED	2,150,437.70		43,759.04
			2.70	E = 4.01	2.96
6	Int. of Main St & 6th St.	SCALED	2,150,845.00		43,860.00
		COMPUTED	2,150,843.12		43,861.11
			1.88	E = 2.18	1.11
7	Int. of Main St. & 7th St.	SCALED	2,151,048.00		43,910.00
		COMPUTED	2,151,050.19		43,913.24
			2.19	E = 3.91	3.24
8	Int. of Main St. & 8th St.	SCALED	2,151,654.00		44,062.00
		COMPUTED	2,151,656.87		44,065.98
			.69	E = 9.98	3.98
9	Int. of Main St. & 9th St.	SCALED	2,151,454.00		44,008.00
		COMPUTED	2,151,454.64		44,015.07
			.64	E = 7.10	7.07
10	Int. of Main St. & 10th St.	SCALED	2,151,654.00		44,062.00
		COMPUTED	2,151,656.87		44,065.98
			2.87	E = 4.91	3.98

SHORELINE TOPOGRAPHY T-12295(2)
SHORELINE MAPPING
CAPE FEAR to MURRELS INLET
JOB PH-7019

STATION	X	Y
MH-01	2,153,561.13	44,009.63
MH-02	2,154,115.56	44,210.92
MH-03	2,152,756.04	43,691.87
MH-04	2,152,168.50	43,473.65
MH-05	2,152,~~172.82~~ 1,586.17	43,~~524.48~~ 257.02
MH-06	2,150,936.78	43,070.15
MH-07	2,149,738.78	42,769.12
MH-08	2,149,192.02	42,663.81
MH-09	2,148,551.52	42,434.96
MH-10	2,147,283.09	41,832.24
MH-11	2,146,218.20	41,183.61
MH-12	2,145,159.78	40,991.45
MH-14	2,144,513.04	41,211.51

SHORELINE TOPOGRAPHY T-12295(2)
SHORELINE MAPPING
CAPE FEAR TO MURRELLS INLET
JOB PH-7019

STATION	X	Y
SL-01	2,144,528.18	42,166.07
SL-02	2,144,300.21	42,008.25
SL-03	2,143,976.94	41,765.90
SL-04	2,143,808.59	41,583.48
SL-05	2,143,711.54	41,267.50
SL-06	2,143,887.64	41,001.03
SL-07	2,144,062.31	40,828.82

REVIEW REPORT T-12295 (2)

SHORELINE

February 9, 1976

61. GENERAL STATEMENT:

This map is a resurvey of T-12295. See Summary, which is page 6 of this Descriptive Report.

The entire shoreline on this map and the channels and shoals at the inlets are subject to frequent change.

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with Survey T-12295, 1:10,000 scale, dated 1965. Significant differences are shown in blue on the comparison print.

In the area compared, T-12295 (2) supersedes T-12295 for nautical chart construction purposes. T-12295 is the latest registered prior survey of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with AMS Quadrangle LITTLE RIVER, SC, NC, 1:24,000 scale, dated 1947. Significant differences are shown in brown on the comparison print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with a verified copy of the smooth sheet for Survey H-9195 (WH-10-1-71). Shoreline on H-9195 was penciled; it was from a copy of the Class III Manuscript for T-12295 (2) and not final. Therefore, there are discrepancies where field edit changes were made. Significant differences are shown on the comparison print in purple.

Soundings disproved the mean low water line from long. 78° 31.9' to the west edge of the manuscript. All of the mean low water line west of this longitude was removed.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 11534, 1:40,000 scale, 12th edition, dated March, 1975. Significant differences are shown on the comparison print in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with Project Instructions and meets the requirements for Bureau Standards and the National Standards of Map Accuracy.

Submitted:

Charles H. Bishop

Charles H. Bishop
Cartographer
February 9, 1976

Approved for forwarding:

Albert C. Rauck Jr.

Albert C. Rauck, Jr.
Acting Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

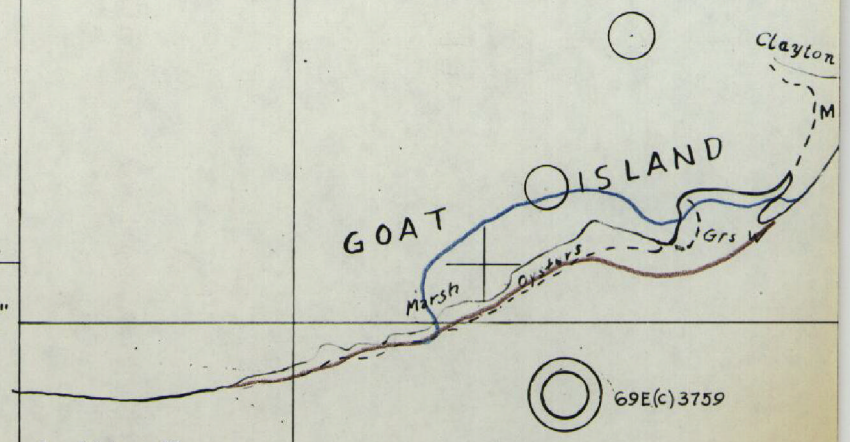
78°33'45"

33'30"

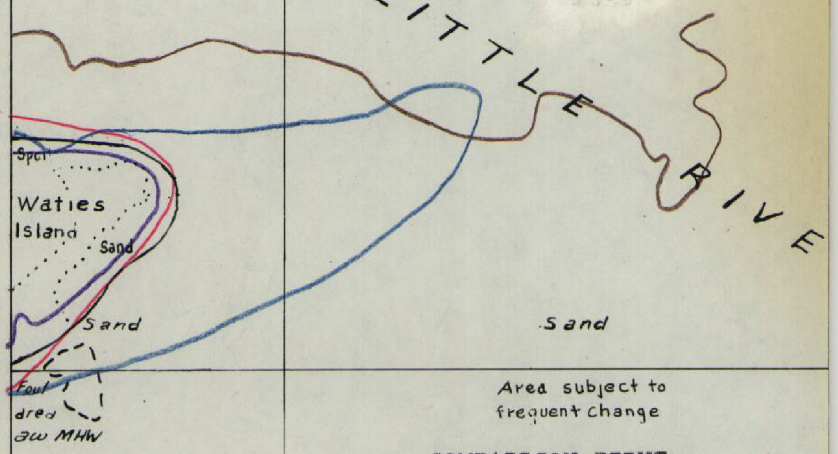
33° 52'

Y= 40,000 ft. N.C.

51'30"



Y= 320,000 ft. S.C.



33° 51'

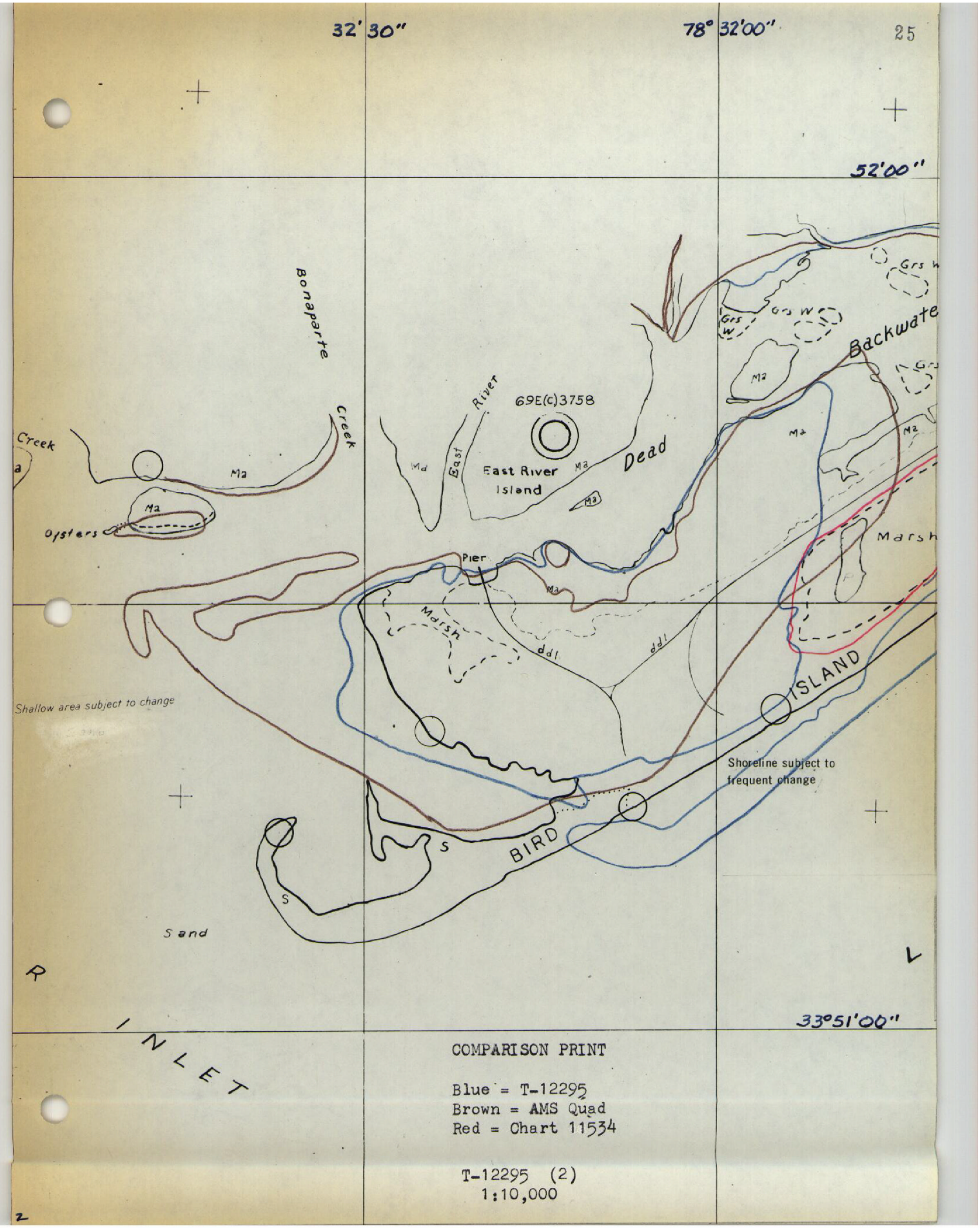
Area subject to frequent change

COMPARISON PRINT

Blue = T-12295
Brown = AMS Quad
Red = Chart 11534
Purple = H-9195

Y= 35,000 ft. N.C.

T-12295 (2)
1:10,000



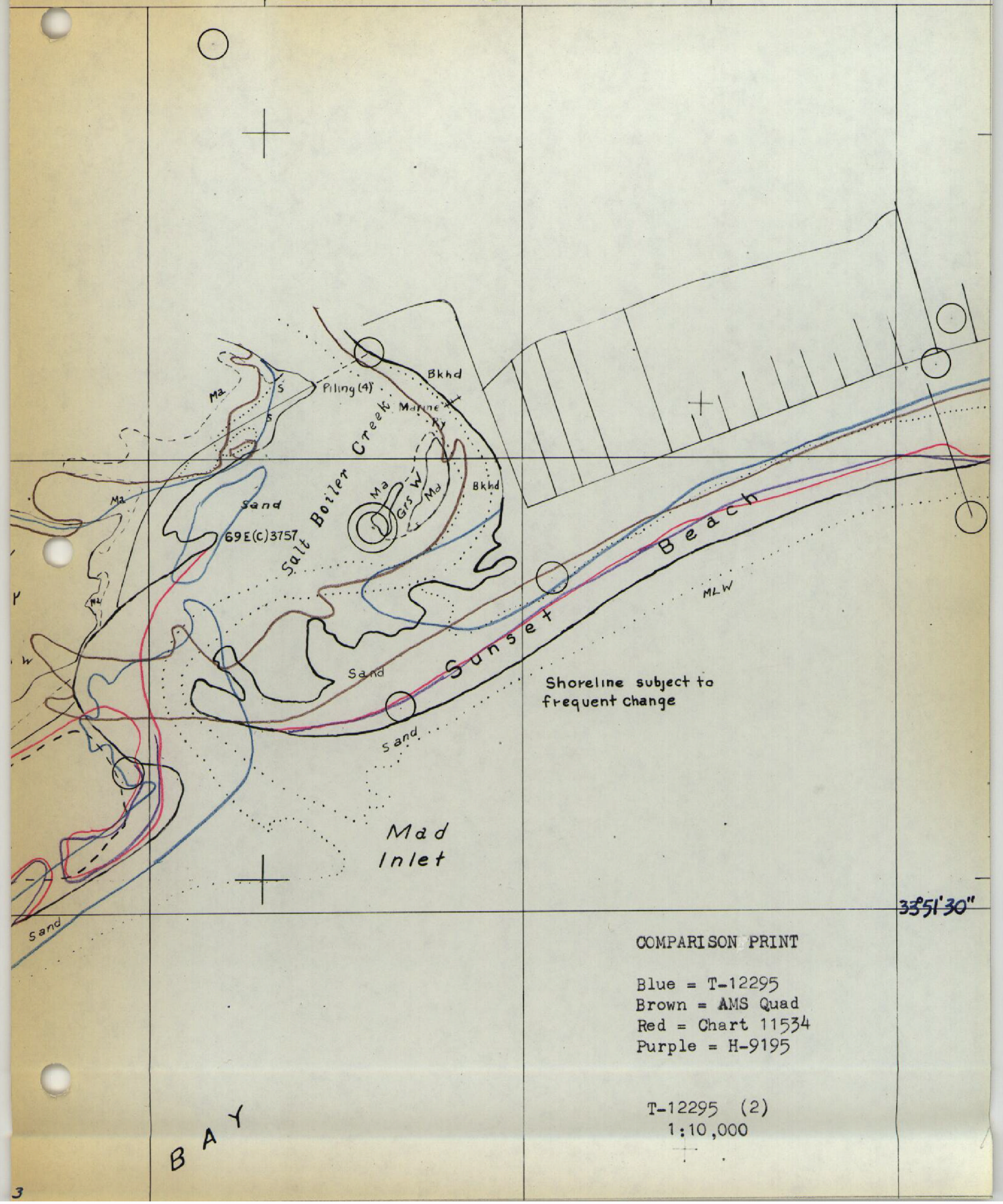
COMPARISON PRINT

Blue = T-12295
Brown = AMS Quad
Red = Chart 11534

T-12295 (2)
1:10,000

2

31'30" | X=2,145,000 ft. N.C. 78°31' X=2,755,000 ft. S.C. | 30'30"



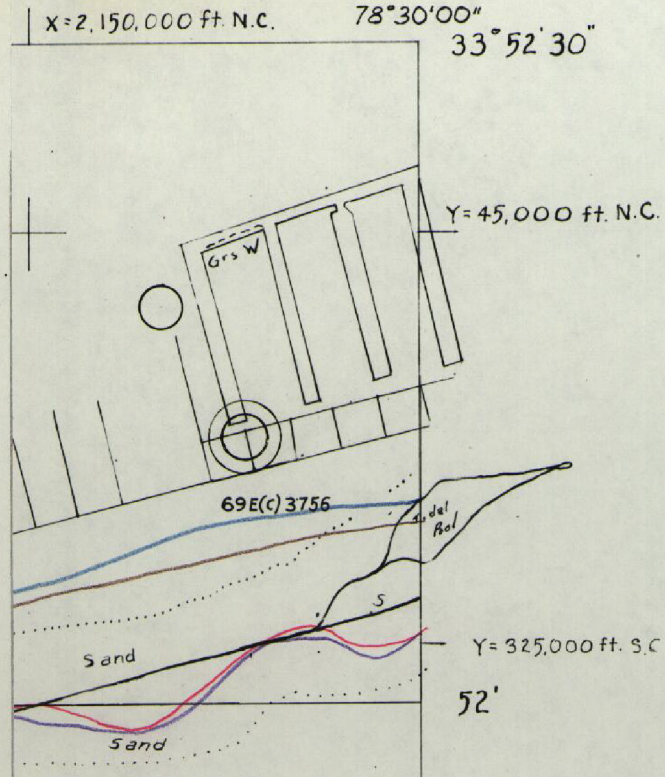
33°51'30"

COMPARISON PRINT

Blue = T-12295
Brown = AMS Quad
Red = Chart 11534
Purple = H-9195

T-12295 (2)
1:10,000

3



COMPARISON PRINT

Blue = T-12295
Brown = AMS Quad
Red - Chart 11534
Purple = H-9195

Y=40,000 ft. N.C.

51'30"

T-12295 (2)
1:10,000