

T- 12289 (2)

T- 12289 (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-12289 (2) .....  
Classification No. .... Edition No. ... 2 .....  
Field Edited Map

## LOCALITY

State North Carolina .....  
General Locality Cape Fear<sup>NC</sup> to Murrells Inlet, SC .....  
Locality Holden Beach .....

1969 TO 1973

## 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.		TYPE OF SURVEY		SURVEY <del>XXX</del> T-12289(2)	
DESCRIPTIVE REPORT - DATA RECORD				<input type="checkbox"/> ORIGINAL		MAP EDITION NO. (2)	
				<input checked="" type="checkbox"/> RESURVEY		MAP CLASS Final	
				<input type="checkbox"/> REVISED		JOB PH. 7019	
PHOTOGRAMMETRIC OFFICE				LAST PRECEDING MAP EDITION			
Coastal Mapping Division (Norfolk)				TYPE OF SURVEY		JOB PH. 6217	
OFFICER-IN-CHARGE				<input checked="" type="checkbox"/> ORIGINAL-T-12289		MAP CLASS	
Jeffrey G. Carlen				<input type="checkbox"/> RESURVEY		SURVEY DATES:	
				<input type="checkbox"/> REVISED		19 62 TO 19 64	
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Aerotriangulation Jan. 15, 1971 Compilation Jan. 21, 1972 Office Supplement I Jan. 25, 1972				Aug. 26, 1970 Dec. 8, 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				4. GRID(S)			
Polyconic				STATE		ZONE	
				North Carolina			
5. SCALE 1:20,000				STATE		ZONE	
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY J. Perrow						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 PLANIMETRY BY H. Gann						Feb. 1972	
COMPILATION CHECKED BY L. Neterer						Feb. 1972	
INSTRUMENT: Wild B-8				NA			
SCALE: 1:20,000				NA			
4. MANUSCRIPT DELINEATION PLANIMETRY BY A.L. Shands						Mar. 1972	
METHOD: Graphic and Smooth ink drafting				L.O. Neterer, Jr.		Mar. 1972	
SCALE: 1:20,000				NA			
HYDRO SUPPORT DATA BY A.L. Shands						Feb. 1972	
CHECKED BY L.O. Neterer, Jr.						Mar. 1972	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY L.O. Neterer, Jr.						Mar. 1972	
6. APPLICATION OF FIELD EDIT DATA BY F. Margiotta						Feb. 1975	
CHECKED BY C.E. Blood						Mar. 1975	
7. COMPILATION SECTION REVIEW BY C. Blood						Mar. 1975	
8. FINAL REVIEW BY C.H. Bishop						Jan. 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. CATDR						MAY 1976	

T-12289(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	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		ZONE Eastern MERIDIAN 75th	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
69E(C)-3743 - 3748	12/4/69	10:07	1:20,000	1.0 ft. above MLW
** 70K(I)-5158 - 5164	4/3/70	11:30	1:20,000	+0.2 ft. of MLW
* 70E(C)-8731 & 8732	12/6/70	10:37	1:40,000	2.4 ft. above MLW
				Mean Range

REMARKS	Reference Station	Charleston, SC	5.2 ft.
	Subordinate Station	Tubbs Inlet, NC	4.5 ft.

## 2. SOURCE OF MEAN HIGH-WATER LINE:

- \* Office Interpretation of 1:40,000 scale color photography taken at 2.4 ft. above mean low water on 6 December, 1970, and field measurements taken in Feb. 1973 from points of known position on the map.

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

- \*\* Office interpretation of Tide controlled infrared photography taken at mean low water, on 3 April, 1970

## 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 No contemp. Survey	EAST T-12290 (2)	SOUTH No contemp. Survey	WEST T-12288 (2)
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REMARKS

T-12289(2)

## HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. K. Wilson	Nov. 1970
2. HORIZONTAL CONTROL	RECOVERED BY R. E. Kesselring	Nov. 1970
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY R. E. Kesselring	Nov. 1970
3. VERTICAL CONTROL	RECOVERED BY NA	
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY NA	
	LOCATED (Field Methods) BY NA	
	IDENTIFIED BY NA	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY NA	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

Premark

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
NA	BOON 1932 (Not used)		

3. PHOTO NUMBERS (Clarification of details)

NA

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

NA

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. 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 Form 76-53 Control Station Identification

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

T-12289(2)

## HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. K. Wilson	Feb. 1971
2. HORIZONTAL CONTROL	RECOVERED BY NA ESTABLISHED BY R. S. Tibbetts PRE-MARKED OR IDENTIFIED BY R. S. Tibbetts	Feb. 1971 Feb. 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 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	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY NA	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER

STATION NAME

PHOTO NUMBER

STATION DESIGNATION

70E(C)8732

H-230, 1970

3. PHOTO NUMBERS (Clarification of details)

NA

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

NA

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 Form 76-53 Control Station Identification

T-12289 (2)  
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. S. Tibbetts	Feb. 1973
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 E. A. Whitney IDENTIFIED BY NA	Feb. 1973
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. A. Whitney	Feb. 1973
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
None		NA	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

## 3. PHOTO NUMBERS (Clarification of details)

69 E(C) 3747 (Photo Pt. for sextant fix)

## 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

None

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

2 Field Edit Ozalids (1 paper, 1 film)  
1 Field Edit Report

NOAA FORM 76-36D  
(3-72)

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

T-12289 (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	3/1/72	Class III Superseded	None	5/16/72
Field edit applied com- pilation complete	2/ /75	Class I Superseded	4/7/75	
Final Review	1/ /76		2-27-76	

**II. LANDMARKS AND AIDS TO NAVIGATION****I. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH**

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
8		4/9/75	Non-floating Aids to Navigation

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 4/9/75
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

**III. FEDERAL RECORDS CENTER DATA**

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.  
ACCOUNT FOR EXCEPTIONS:

No Form 76-40 submitted by field party.

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	





## 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:

<u>Map</u>	<u>Field Edit Performed by:</u>		<u>Date</u>
	Experienced	Trainee	
	Photogrammetrist		
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

<u>Map</u>	<u>Field Edit Performed by:</u>		<u>Date</u>
	<u>Experienced</u>	<u>Trainee</u>	
	<u>Photogrammetrist</u>		
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  $3\frac{3}{4}$  minutes in latitude by  $3\frac{3}{4}$  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

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

- 2 -

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.

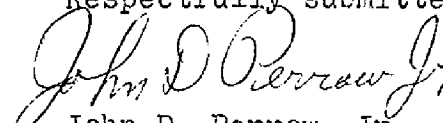
24. Supplemental Data

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.

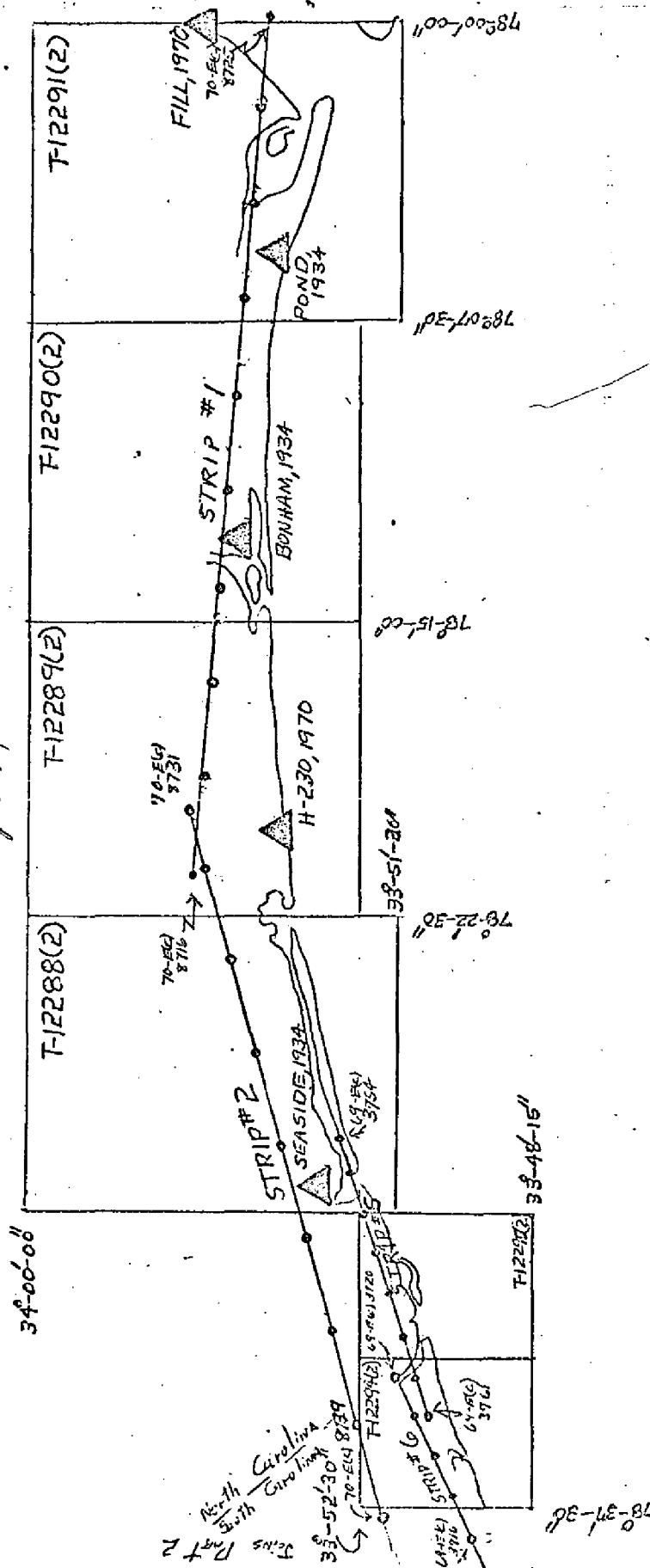
Approved and Forwarded:

  
Henry P. Eichert, Chief  
Aerotriangulation Section

6104-H-7019

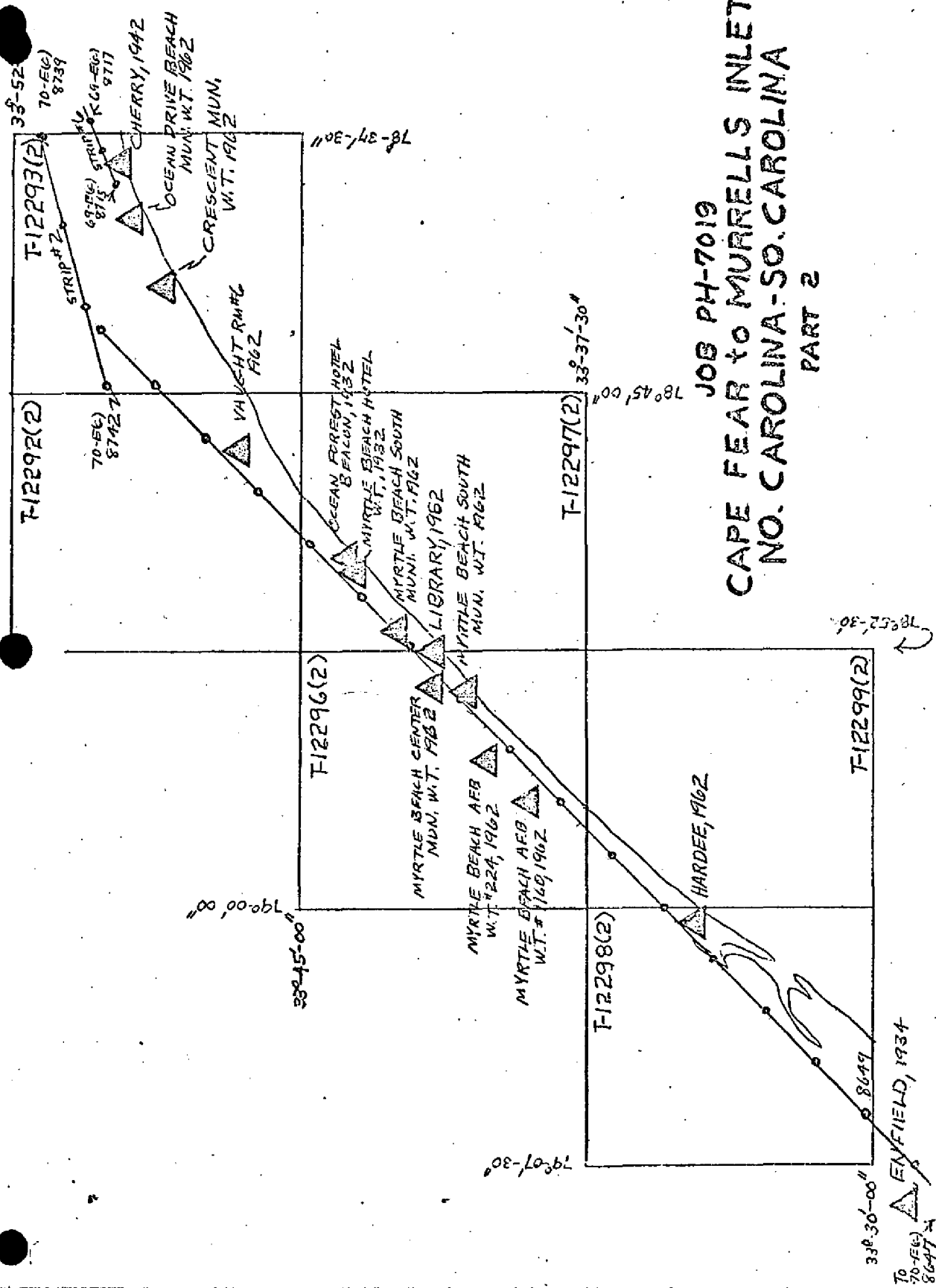
# PART I

Sept 71



WINS PAT 1

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



## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	GEODETTIC DATUM		GEOGRAPHIC POSITION		ORIGINATING ACTIVITY	
			SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET STATE ZONE	$\phi$ LATITUDE $\lambda$ LONGITUDE	Coastal Mapping Div. (Norfolk)	FORWARD REMARKS BACK
T-12289(2)	H-230, 1970	PH-7019	GEODESY COMP. Form 164 Conv. to G.F.S.		X=	$\phi$ 33° 54' 26.509"	816.7	(1031.9)
					Y=	$\lambda$ 78° 20' 16.988"	436.4	(1105.1)
CHADWICK, 1934			GEODETTIC POS. Pg. 218		X=	$\phi$ 33° 54' 23.390"	720.6	(1128.0)
					Y=	$\lambda$ 78° 22' 29.392"	755.1	( 786.5)
GRIF, 1962			QUAD 330781 STA 1006, Vol III, PG. 2823		X=	$\phi$ 33° 54' 39.741"	1224.4	( 624.2)
					Y=	$\lambda$ 78° 18' 10.334"	265.5	(1275.9)
BOONE, 1962			QUAD 330781 STA 1004, Vol III, PG 2821		X=	$\phi$ 33° 54' 21.216"	653.7	(1194.9)
					Y=	$\lambda$ 78° 21' 24.470"	628.7	( 912.8)
					X=	$\phi$		
					Y=	$\lambda$		
					X=	$\phi$		
					Y=	$\lambda$		
					X=	$\phi$		
					Y=	$\lambda$		
					X=	$\phi$		
					Y=	$\lambda$		
					X=	$\phi$		
					Y=	$\lambda$		
					X=	$\phi$		
					Y=	$\lambda$		
COMPUTED BY A. C. Rauck, Jr.				DATE Jan 10, 1972	COMPUTATION CHECKED BY DATE			
LISTED BY F. Margiotta				DATE Jan 11, 1972	LISTING CHECKED BY DATE			
HAND PLOTTING BY				DATE	HAND PLOTTING CHECKED BY DATE			



FORM CD-121 (9-22-59)  
(PRES. BY A.O. 206-101)

UNITED STATES GOVERNMENT

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

# Memorandum

TO : Chief, Photogrammetry Division  
Rockville, Maryland.

DATE: February 3, 1971

FROM : Chief, Photo Party #62

SUBJECT: Identification, Job PH-7019

In accordance with your instructions, Triangulation stations POND and BOON were investigated.

Station POND can be positively identified on the color prints. The pre-marking targets are visible and believed to be satisfactory.

Station BOON can not be seen on the color prints. Substitute points for BOON were not readily available, therefore a traverse station (H-230, 1970) set by Mr. Tibbetts in spring of 1970 was used. This traverse station's position was of third-order accuracy and computed by the SHIP WHITING with their PDP8 digital computer. The position of H-230 is as follows:

X 2,200,885.46  
Y 57,944.14

*Joseph K. Wilson*  
Joseph K. Wilson  
Chief Photo Party #62

H-226 = X 2,203,647.84

Y 58,393.77

## COMPILATION REPORT

TP-12289(2)

31. DELINEATION

All detail above the mean low water line was compiled from 1:40,000 scale color photography dated December 6, 1970 using the Wild B-8 stereoplotter. The mean low water line was compiled graphically from 1:20,000 scale tide controlled infrared ratios taken April 3, 1970 at mean low water. Common points were dropped to both the infrared and the 1:20,000 scale color ratios which were processed for hydro support. These are dated December 4, 1969.

Both the quality and coverage of all photography was good. There was no field inspection prior to compilation.

32. CONTROL

See "Photogrammetric Plot Report," dated September, 1971.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

See item #31 for delineation of drainage.

35. SHORELINE AND ALONGSHORE DETAILS

See Item #31. It is felt that the shoreline and alongshore area details as shown on the manuscript are accurate for the date of the photography used (6 Dec., 70). However, it should be noted here that the area is in a constant state of change from the forces of man and nature. See Item #46.

36. OFFSHORE DETAILS

See Item #31.

37. LANDMARKS AND AIDS

Forms 76-40 for 0 Landmarks for charting, 8 Non-floating aids to navigation, 0 Landmarks for deletion and 0 Non-floating aids to navigation to be deleted were sent to the Rockville, MD Office on April 7, 1975.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

See Form 76-36b, Item #5.

40. HORIZONTAL AND VERTICAL ACCURACY

No Statement

41. through 45., not used.

46. COMPARISON WITH EXISTING MAPS

Comparisons were made with U.S.G.S. Quadrangle HOLDEN BEACH, NC scale 1:24,000, dated 1943, and with a copy of Shoreline Manuscript T-12289 which this sheet is a revision of.

Numerous changes, both man made and natural, were noted in the shoreline and alongshore cultural features.

47. COMPARISON WITH NAUTICAL CHARTS

Comparisons were made with Charts 835-SC, scale 1:40,000, 8th edition, dated January 23, 1971 and Chart 1236, scale 1:80,000, 6th edition, dated February 17, 1969.

See Item 46 for differences noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

Submitted by:

A.L. Shands, Cartographer, 3/1/72

Approved by:

*Albert C. Rauck, Jr.*  
Albert C. Rauck, Jr.

Chief, Coastal Mapping Section, AMC

ADDENDUM TO THE COMPILATION REPORT

T-12289(2)

FIELD EDIT

Some of the field edit measurements to the mean high water line were from traverse points which were not identified on the photographs. Positions for these points were not furnished. Therefore, these measurements were of no use to the compiler. Other measurements from identifiable points and other points of known position enabled the compiler to revise the mean high water line to correctness as of the date of field edit.

The field editor did not submit a Form 76-40 for the fixed aids that were located on this map. This form originated in the Compilation Office at the time field<sup>edit</sup> was applied.

*Charles H. Bishop*  
*Final Review*  
*Jan. 1976*

29 Sept. 1975

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

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

T-12289 (2)

Atlantic Ocean

Colonial Beach

Holden Beach

Holden Beach (community)

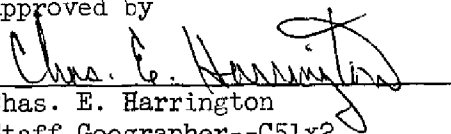
Intracoastal Waterway

Long Bay

Boone Channel

Boone Landing

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			
T-12289 (2)			
1. PROJECTION AND GRIDS LON	2. TITLE LON	3. MANUSCRIPT NUMBERS XX	4. MANUSCRIPT SIZE LON
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY XX	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX		7. PHOTO HYDRO STATIONS XX
8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT LON	11. DETAIL POINTS LON
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE LON	13. LOW-WATER LINE LON	14. ROCKS, SHOALS, ETC. XX	15. BRIDGES XX
16. AIDS TO NAVIGATION LON	17. LANDMARKS XX	18. OTHER ALONGSHORE PHYSICAL FEATURES LON	19. OTHER ALONGSHORE CULTURAL FEATURES LON
PHYSICAL FEATURES			
20. WATER FEATURES XX	21. NATURAL GROUND COVER XX		22. PLANETABLE CONTOURS NA
23. STEREOSCOPIC INSTRUMENT CONTOURS NA	24. CONTOURS IN GENERAL NA	25. SPOT ELEVATIONS NA	26. OTHER PHYSICAL FEATURES LON
CULTURAL FEATURES			
27. ROADS LON	28. BUILDINGS LON	29. RAILROADS XX	30. OTHER CULTURAL FEATURES LON
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES LON	34. JUNCTIONS LON		35. LEGIBILITY OF THE MANUSCRIPT LON
36. DISCREPANCY OVERLAY LON	37. DESCRIPTIVE REPORT LON	38. FIELD INSPECTION PHOTOGRAPHS XX	39. FORMS LON
40. REVIEWER Compilation: L. O. Neterer, March, 1972 <i>Lowell O. Neterer</i>		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> 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.			
COMPILED BY <i>F. Magliotta</i> Feb. 1975 <i>C. Blood</i> Mar 1975		SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
43. REMARKS Field edit applied from: 1 film overlay, 1 paper ozalid, and photo 69E(c) 3747.			

FIELD EDIT REPORT  
JOB- PH-7019  
Holden Beach  
North Carolina  
Map T-12289 (2)

Field Edit applied in February, 1973

51. METHODS

Standard ground methods were employed to locate and verify prominent features. All deletions and corrections are referenced on the field edit ozalid, and all additions are noted on the field edit ozalid and referenced to the film ozalid.

52. ADEQUACY OF COMPILATION

Compilation was adequate. After field edit applications, compilation will be complete.

53. MAP ACCURACY

No accuracy test was initiated on this map.

54. RECOMMENDATIONS

None

55. GEOGRAPHIC NAMES

A complete Geographic Names Investigation was made of this map in January, 1964. That special report covered an area from Winyah Bay, South Carolina to Cape Fear, North Carolina (project PH-21059). The name Boone Channel, according to persons at the Holden Beach Realty, still applies to the area in question (see field edit ozalid); therefore, the name is still of landmark value and should remain.

56. SHORELINE AND ALONGSHORE FEATURES

Intermittent distance measurements were made from photo-identifiable points, as well as previous traverse stations (see 1970 hydro survey), and are referenced on the field edit ozalid for any changes in the littoral zone. The shoreline in exposed areas is almost exclusively fast.

57. OFFSHORE FEATURES

Offshore hydrography was completed in 1970. No offshore features were otherwise noted.

(2)

58. LANDMARKS AND AIDS

Several fixed aids to navigation (daybeacons) were located by sextant fixes to known traverse positions along Holden Beach. Those aids, already plotted by photogrammetric methods, were also checked and verified to be in true position.

59. GENERAL STATEMENT

There was no National Ocean Survey Ship operating in the area at the time of field edit operations.

February 26, 1973  
Submitted by,

*Richard A. Whitney*

Richard A. Whitney  
Surveying Tech.





## REVIEW REPORT T-12289(2)

## SHORELINE

January 16, 1976

61. GENERAL STATEMENT:

This survey is a resurvey of Survey T-12289. See Summary, which is page 6 of this Descriptive Report.

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-12289, 1:20,000 scale, compiled in 1965. No significant shoreline change was noted. Positions of aids to navigation are not the same. Differences are shown in blue on the comparison print.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with USGS Quadrangle HOLDEN BEACH, NC, 1:24,000 scale, dated 1943. Land development has occurred between the beach and the Intracoastal Waterway. Shoreline differences in the vicinity of Holden Beach is shown in brown on the comparison print.

In the area compared, T-12289 (2) supersedes T-12289 for nautical chart construction purposes. T-12289 is the latest registered prior survey of the area.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with a copy of the verified smooth sheet for H-9096 (WH-20-3-70). No significant shoreline difference was noted. A wreck south of the community of Holden Beach is shown on the comparison print in purple. It is not visible on the mapping photography and is not mapped on T-12289 (2).

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 11534, 1:40,000 scale, 12th edition, dated March 1975. No significant difference in shoreline was noted. Two charted wrecks not visible on the mapping photography are shown on the comparison print - one in purple and one in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted by:

*Charles H. Bishop*

Charles H. Bishop  
Cartographer  
January 16, 1976

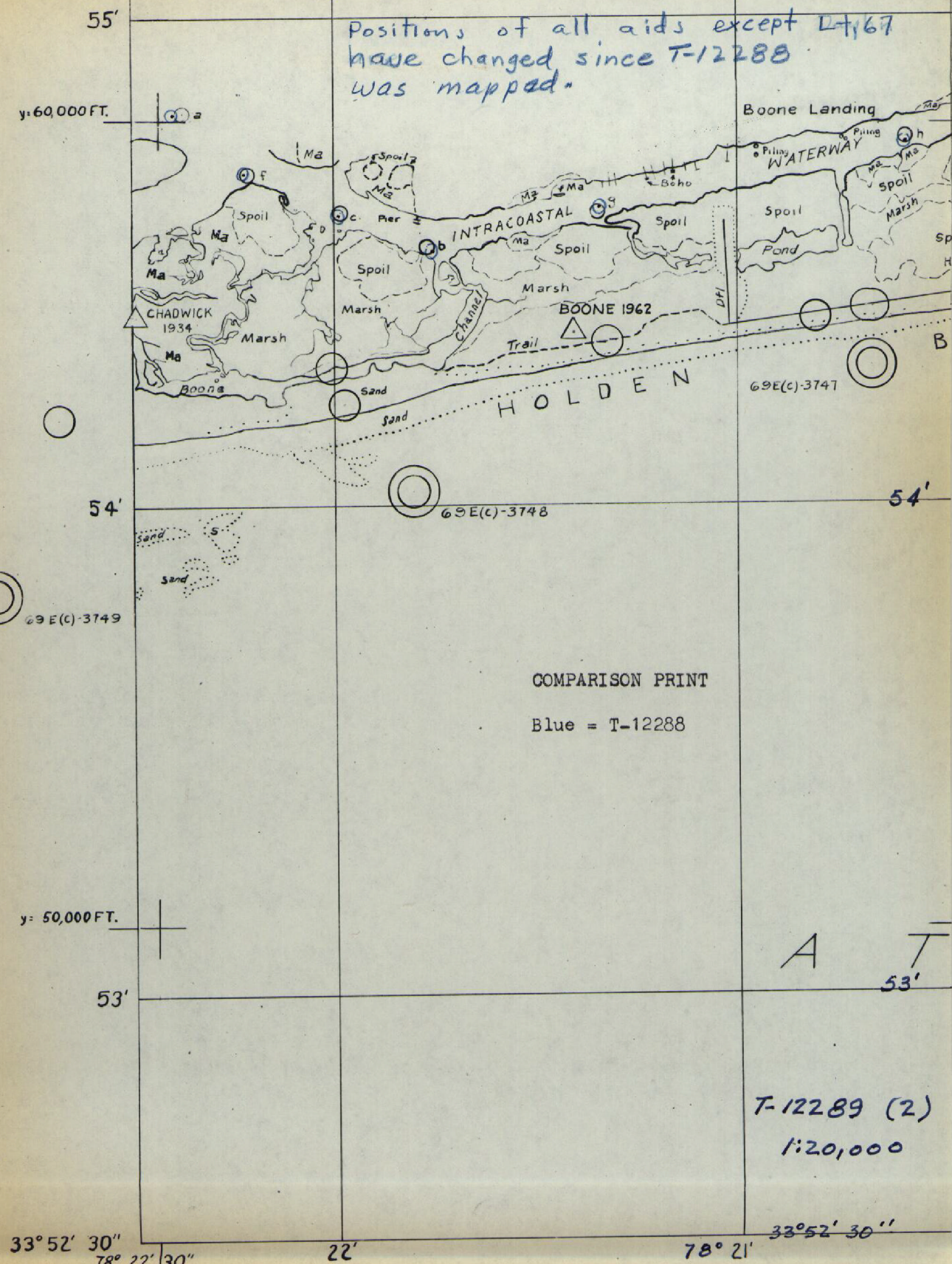
Approved for forwarding:

*Joseph W. Vonasek*  
Joseph W. Vonasek  
Acting Chief, Photogrammetric Branch, AMC

Approved:

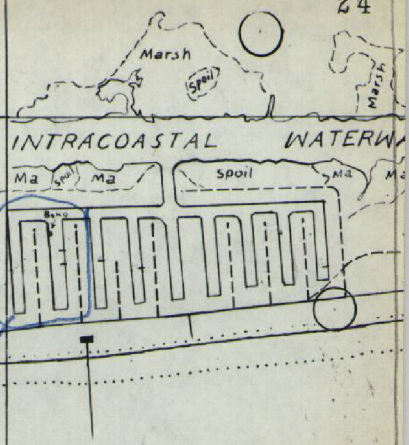
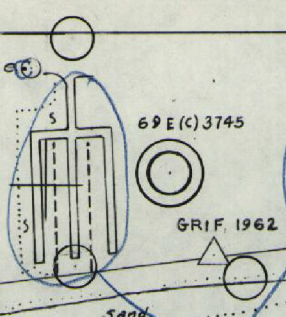
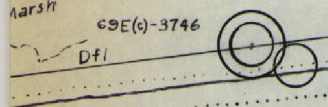
Chief, Photogrammetric Branch

Chief, Coastal Mapping Division





Colonial  
beach  
marsh



B — A — Y — 54'

L O N G

NOTE:  
"The photogrammetric location and delineation of features offshore from the mean high-water line on this survey may not be complete or final. The contemporary reviewed hydrographic survey of the area where available, should be consulted for the final delineation."

N T / C + O C E 53'

COMPARISON PRINT  
Blue = T-12288

T-12289 (2)  
1:20,000

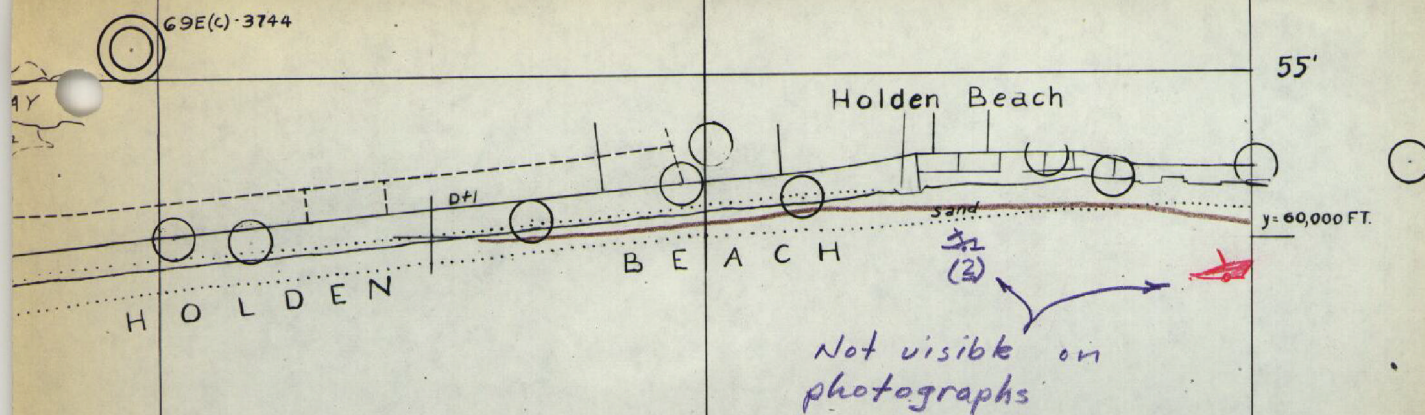
19'

Scale 2,210,000 FT.

78° 18'

33° 52' 30"





## COMPARISON PRINT

Brown = U.S.G.S.  
 Red = Chart 11534  
 Purple = H-9096

T-12289 (2)

1:20,000