

T- 12291 (2)

T- 12291 (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-12291 (2)

Classification No. Edition No. 2

Field Edited Map

LOCALITY

State North Carolina

General Locality ... Cape Fear, N. C. to

..... Murrells Inlet, S. C.

Locality Southport

 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 <input type="checkbox"/> ORIGINAL <input checked="" type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		SURVEY 76 T-12291(2) MAP EDITION NO. (2) MAP CLASS Final JOB PH. 7019	
DESCRIPTIVE REPORT - DATA RECORD				LAST PRECEDING MAP EDITION TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL T-12291 <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED			
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division (Norfolk)				JOB PH. 6217 MAP CLASS SURVEY DATES: 19 64 TO 19 65			
OFFICER-IN-CHARGE Jeffrey G. Carlen, CDR							
I. INSTRUCTIONS DATED							
1. OFFICE Aerotriangulation - Jan 15, 1971 Compilation Jan 21, 1972 Office Supplement I Jan 25, 1972				2. FIELD 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 Polyconic				4. GRID(S) STATE North Carolina ZONE			
5. SCALE 1:20,000				STATE ZONE			
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION METHOD: Stereoplanigraph LANDMARKS AND AIDS BY				J. Perrow		Sep 1971	
2. CONTROL AND BRIDGE POINTS METHOD: CORADAMAT PLOTTED BY				D. Phillips		Oct 1971	
3. STEREOSCOPIC INSTRUMENT COMPILATION PLANIMETRY BY				T. Bulfer		Feb 1972	
INSTRUMENT: Wild B-8 SCALE: 1:20,000 CHECKED BY				R. White		Feb 1972	
4. MANUSCRIPT DELINEATION Graphic & Smooth ink METHOD: drafting SCALE: 1:20,000 PLANIMETRY BY				T. Bulfer		Mar 1972	
CHECKED BY				A. Shands		Mar 1972	
CONTOURS BY				NA			
CHECKED BY				NA			
HYDRO SUPPORT DATA BY				T. Bulfer		Mar 1972	
CHECKED BY				A. Shands		Mar 1972	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				A. Shands		Mar 1972	
6. APPLICATION OF FIELD EDIT DATA BY				J. Byrd		Mar 1975	
CHECKED BY				F. Margiotta		Mar 1975	
7. COMPILATION SECTION REVIEW BY				F. Margiotta		Mar 1975	
8. FINAL REVIEW BY				C. Bishop		Jan 1976	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				C. Bishop		Mar 1976	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY							
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				R. CATDR		MAY 1976	

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-12291 (2)
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 E and K		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR X		ZONE	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(P) PANCHROMATIC (I) INFRARED X		Eastern	
				MERIDIAN	
				75	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
69 E(C) 3730 thru 3735	4 Dec 1969	09:48	1:20,000	0.8 ft. above MLW	
70 K(I) 5137 thru 5143	3 Apr 1970	11:08	1:20,000	±0.2 ft. of MLW	
70 E(C) 8722 thru 8725	6 Dec 1970	10:13	1:40,000	1.4 ft. above MLW	
*72 E(C) 6738	20 Oct 1972	13:50	1:40,000	2.0 ft. above MLW	
*73 C(CI) 6079	10 Nov. 1973	13:04	1:30,000	±0.2 ft. of MLW	
*73 C(CI) 4807	15 Oct 1973	11:57	1:30,000	±0.2 ft. of MHW	
*With Project CM-7218					

REMARKS

Reference Station: Charleston, SC
Subordinate Station Southport, NCMean Range
5.2 ft.
4.1 ft.

2. SOURCE OF MEAN HIGH-WATER LINE:

Office interpretation of photography of Dec 6, 1970 and measurements from photo identifiable points made by the field editor in Jan. 1973.

*Bald Head Island only:

Tide controlled photography of 15-Oct 1973.

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

Office interpretation of tide controlled infrared photography of 3 Apr 1970.

*Bald Head Island only:

Tide controlled photography of 10 Nov 1973.

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
No contem- orary survey					

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
No contem- orary survey	Proj. CM-7218 TP-00681 & TP-00683	No contem- orary survey	T-12290(2)

REMARKS

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-12291(2)
HISTORY OF FIELD OPERATIONSI. ☒ 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 1972
	ESTABLISHED BY R. E. Kesselring	Nov 1972
	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 AID 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

Premarked

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
70E(C)8723	POND, 1934 (triangulation)		
70 E(C)8724	FILL, 1970 (3-pt theod. fix)		

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AID TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

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

7. SUPPLEMENTAL MAPS AND PLANS

None

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

2 Form 76-53 Control Station Identification
1 Form 470 Abstract of Directions

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

T-12291(2)

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Tibbetts	Jan 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 J. Bulfer IDENTIFIED BY J. Bulfer	Jan 1973 Jan 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 J. Bulfer	Jan 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) 3732 and 3735

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

Data for objects located by field methods are listed under 8. below.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
69 E(C)3732	TANK (Steel) (Yaupon Beach Water Tank)		

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

2 Form 76-40 Nonfloating Aids or Landmarks for Charting (for landmarks only)

1 Field Edit Report

3 Field Edit Ozalids (2 paper, 1 film)

T-12291(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	Mar 1972	Class III Superseded	None	May 16, 1972
BALD HEAD Id. compiled from Photo 72E(C)6738, Proj. CM-7218	Apr 1973	Class III Superseded		
Field edit applied, compilation complete	Mar 1975	Class I Superseded	Apr 7, 1975	
Final Review	Jan 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
15		Apr 9, 1975	Non-floating Aids for Charting
3		Apr 9, 1975	Non-floating Aids to be Deleted
6		Apr 9, 1975	Landmarks for Charts
1		, 1976	Landmarks for Charts to be Deleted
10	Revision of forms submitted	, 1976	Non-floating Aids to be Charted
5	Apr 9, 1975		Landmarks for Charts to be Charted.

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: Apr 9, 19753. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS ⁷⁶⁻⁴⁰~~567~~ SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:

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

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

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL

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>
	<u>Experienced</u> Photogrammetrist	<u>Trainee</u>	
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>
	Experienced	Trainee	
	Photogrammetrist		
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

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

- 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.

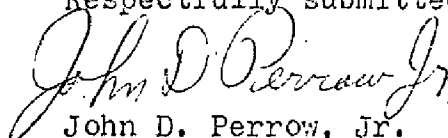
24. Supplemental Data

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:

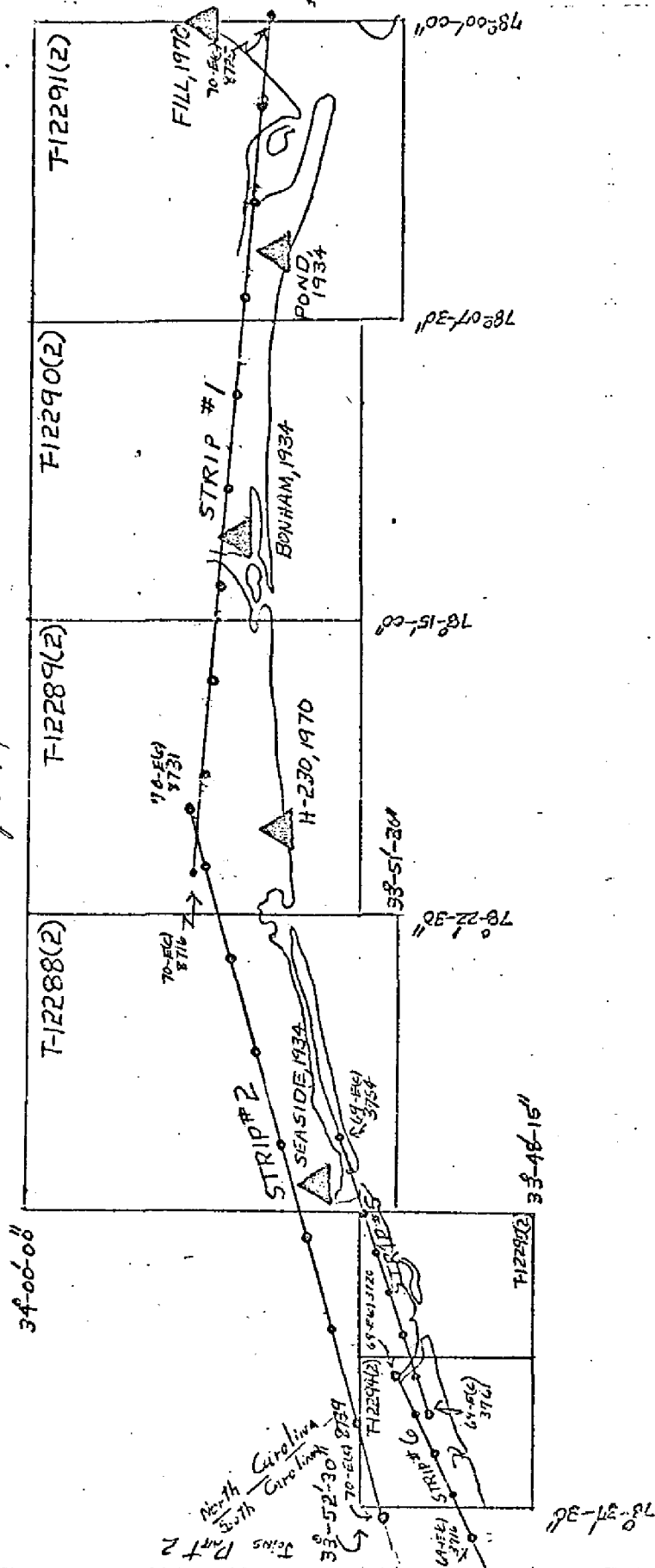

John D. Perrow, Jr.

Approved and Forwarded:

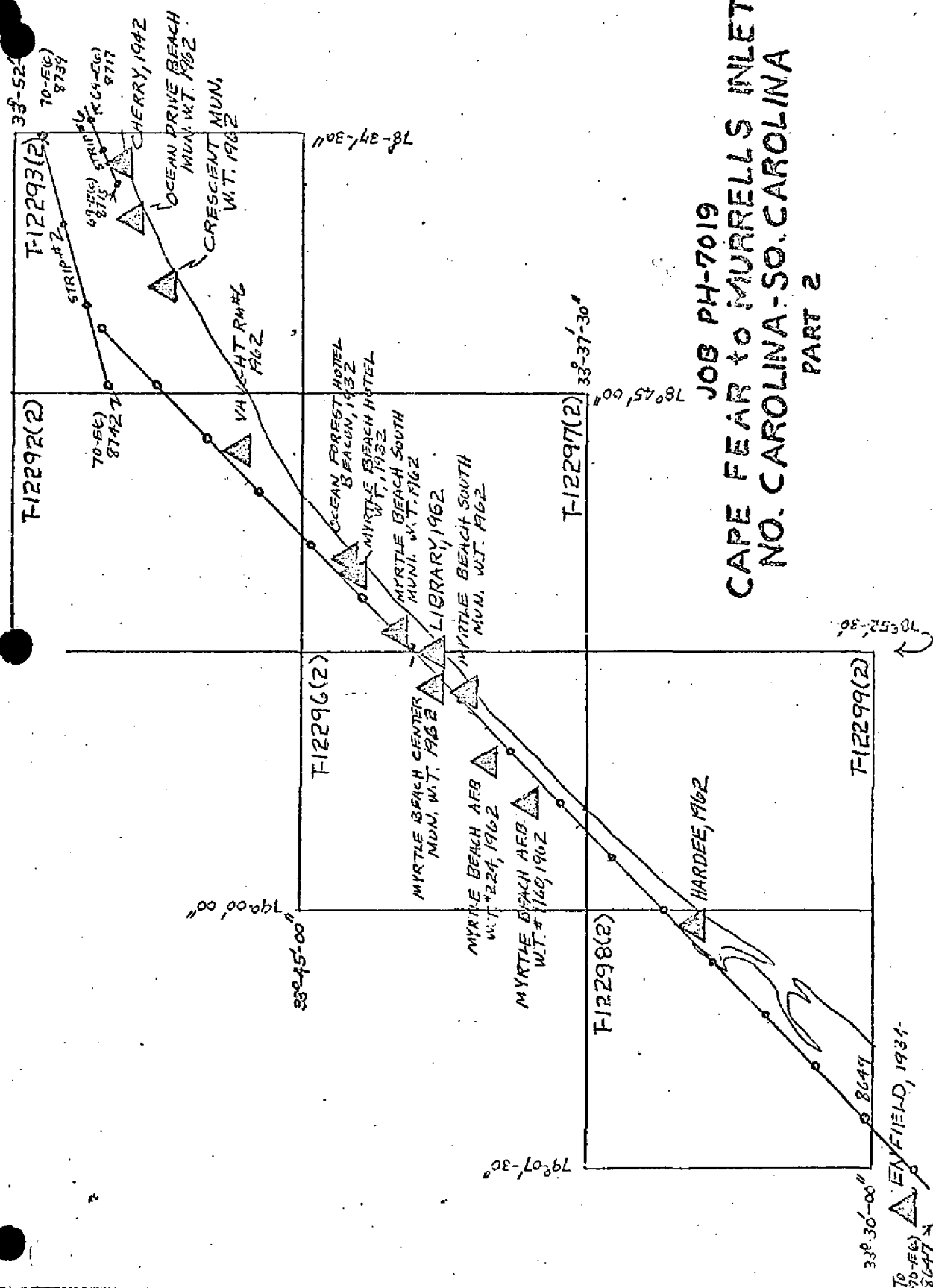

Henry P. Eichert, Chief
Aerotriangulation Section

JOB H-7019 CAPE FEAR & MURRELLS INLET NO. CAROLINA - SO. CAROLINA

PART 1
 Sept 71



Vols Part 1



DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODETTIC DATUM		ORIGINATING ACTIVITY		REMARKS
					COORDINATES IN FEET STATE ZONE	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	Coastal Mapping Div (Norfolk)		
T-12291(2)		PH-7019			N.A. 1927				
POND, 1934		G-1929 Pg. 217 Geodesy Comp Form 164			X=	φ 33° 54' 15.840"		488.0	(1360.6)
					Y=	λ 78° 05' 04.670"		120.0	(1421.5)
FILL, 1970		Office Comp.			X=	φ 33° 55' 28.86"		889.18	(959.45)
					Y=	λ 78° 00' 03.38"		86.8	(1454.4)
BALD HEAD LIGHTHOUSE, 1851		G-1886 Pg. 130			X=	φ 33° 52' 24.063"		741.4	(1107.2)
					Y=	λ 78° 00' 02.345"		60.2	(1481.8)
FORT CASWELL, BAPTIST ASSEMBLY CHURCH CAMP, WATER TANK, 1913		N.C. Vol. III, P. 2840			X=	φ 33° 53' 35.729"		1100.8	(747.8)
					Y=	λ 78° 01' 09.892"		254.2	(1287.5)
R (U.S.E.), 1923		G-1886 P. 130			X=	φ 33° 53' 31.715"		977.1	(871.5)
					Y=	λ 78° 02' 04.477"		115.0	(1426.7)
AL (U.S.E.), 1923		G-5445 Pg. 558			X=	φ 33° 54' 33.070"		1018.9	(829.7)
					Y=	λ 78° 00' 48.505"		1246.1	(295.3)
SOUTHPORT, N.C. WHITE SPIRE, 1932		G-1886 Pg. 130			X=	φ 33° 55' 10.032"		309.1	(1539.5)
					Y=	λ 78° 01' 11.263"		289.3	(1251.9)
OAK ISLAND LIGHTHOUSE, 1962		N.C. Vol III, P. 2831			X=	φ 33° 53' 33.53717"		1033.3	(815.3)
					Y=	λ 78° 02' 06.76573"		173.8	(1368.0)
SOUTHPORT MUNICIPAL WATER TANK, 1962		N.C. Vol. III, P. 2839			X=	φ 33° 55' 16.66209"		513.4	(1335.2)
					Y=	λ 78° 01' 12.91884"		331.8	(1209.5)
					X=	φ			
					Y=	λ			
COMPUTED BY A.C. Rauck & T. J. Bulfer				DATE Jan 1972	COMPUTATION CHECKED BY F. Margiotta			DATE Jan 1972	
LISTED BY				DATE	LISTING CHECKED BY H.T. Gann			DATE Mar 1972	
HAND PLOTTING BY				DATE	HAND PLOTTING CHECKED BY			DATE	

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODEIC DATUM		COORDINATES IN FEET STATE _____ ZONE _____	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE		ORIGINATING ACTIVITY	
					N.A. 1927			Coastal Mapping Div (Norfolk)		FORWARD	BACK
T-12291(2)		OAK ISLAND COAST GUARD RADIO BEACON MAST, 1962	N.C. Vol III, P.2838			X=	φ 33° 53'	λ 78° 02'	33.25713"	1024.7	(823.9)
		SOUTHPORT WILMINGTON - CAPE FEAR PILOTS ASSN TOWER, 1962	N.C. Vol III, P.2840			X=	φ	λ		1838.0	(10.6)
						X=	φ	λ			
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COMPILATION REPORT

T-12291(2)

31. DELINEATION

The Wild B-8 stereoplotter was used for compilation of all detail above the mean low water line. 1:40,000 scale diapositives were used; pass points were dropped common to 1:20,000 scale ratios which were processed for hydro support. The mean low water line was compiled graphically from tide controlled infrared photography.

Photo coverage 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). This land area, BALD HEAD ISLAND, was later compiled from a reduction of TP-00682 which was compiled from tide coordinated photos taken in October and November 1973.

32. CONTROL

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

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage was delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The mean high water line, ^{mean} low-water line and foreshore area were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

Several islands and shoal areas were delineated from office interpretation of the photographs.

37. LANDMARKS AND AIDS

Forms 76-40 for 6 Landmarks for charting, 15 Non-floating aids to navigation, and 3 Non-floating aids to navigation to be deleted were sent to the Rockville Maryland 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 thru 45.

Not used.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with A.M.S. Quadrangle "Southport, North Carolina", scale 1:24,000, dated 1946, and also with T-12291, of which this sheet is a revision.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 1236, scale 1:80,000, 6th edition, dated February 17, 1969, and Chart 835 S.C., scale 1:40,000, 8th edition, dated January 23, 1971.

(a) ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

(b) ITEMS TO BE CARRIED FORWARD

None

Submitted:

Charles H. Bishop

for T. J. Bulfer
Cartographer
March 6, 1972

Approved:

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

ADDENDUM TO THE COMPILATION REPORT

T-12291(2)

FIELD EDIT

No Form 76-40 was submitted for Fixed Aids to Navigation. This form was made by the office compiler, using information from the Field Edit Report, dated January 31, 1973.

The height of TANK (Steel) was not obtained.

The Field Edit Report states that additional aids to navigation were located by sextant fix, but the method of verification of other aids was indefinite. The compiler assumed that the positions of other aids were verified by visual inspection.

All positions of Landmarks and Fixed Aids to Navigation located on this map are as of the date of Field Edit - January 1973, except Landmark STACK, which was located in March, 1975.

Charles H Bishop
Final Reviewer
2-19-76

At the request of the Processing Division, Verification Branch, AMC, shoreline north of latitude $33^{\circ} 51'$ and between longitude $78^{\circ} 02'$ & $78^{\circ} 04'$ was added in order that mean high water line in this area of Survey H-9481 would be complete.

Tide coordinated photographs 70 K(I) 5138 through 5140, 1:20,000 scale, were used to graphically compile this area after the rest of the map was reviewed. This section was not - and will not be - field edited. Classification is Class III.

CIB
4-20-76

29 Sept. 1975

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

T-12291 (2)

Atlantic Ocean

Molasses Creek

Bald Head

Oak Island

Bald Head Island

Smokehouse Creek

Battery Island

Southport

Cape Fear River

Yaupon Beach (community)

Cape Fear River Entrance

Caswell Basin

Caswell Beach

Doshers Creek

Dutchman Creek

Elizabeth Creek

Fort Caswell

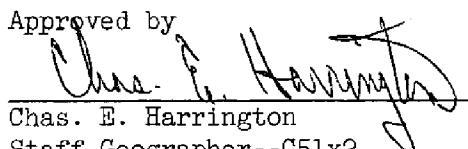
Intracoastal Waterway

Long Bay

Long Beach

Long Beach (community)

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-12291 (2)			
1. PROJECTION AND GRIDS ALS	2. TITLE ALS	3. MANUSCRIPT NUMBERS ALS	4. MANUSCRIPT SIZE ALS
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY	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 XX	10. PHOTOGRAMMETRIC PLOT REPORT ALS	11. DETAIL POINTS ALS
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE ALS	13. LOW-WATER LINE ALS	14. ROCKS, SHOALS, ETC. ALS	15. BRIDGES ALS
16. AIDS TO NAVIGATION ALS	17. LANDMARKS ALS	18. OTHER ALONGSHORE PHYSICAL FEATURES ALS	19. OTHER ALONGSHORE CULTURAL FEATURES ALS
PHYSICAL FEATURES			
20. WATER FEATURES ALS	21. NATURAL GROUND COVER ALS		22. PLANETABLE CONTOURS NA
23. STEREOSCOPIC INSTRUMENT CONTOURS NA	24. CONTOURS IN GENERAL NA	25. SPOT ELEVATIONS NA	26. OTHER PHYSICAL FEATURES XX
CULTURAL FEATURES			
27. ROADS ALS	28. BUILDINGS ALS	29. RAILROADS XX	30. OTHER CULTURAL FEATURES XX
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES ALS	34. JUNCTIONS ALS		35. LEGIBILITY OF THE MANUSCRIPT ALS
36. DISCREPANCY OVERLAY ALS	37. DESCRIPTIVE REPORT ALS	38. FIELD INSPECTION PHOTOGRAPHS XX	39. FORMS ALS
40. REVIEWER <i>A.L. Shands</i> Compilation: A.L. Shands 3/28/72		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.			
COMPILER <i>G. Byrd</i> G. Byrd Mar 1975 F. Margiotta Mar 1975		SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
43. REMARKS <i>Field Edit</i> FIELD EDIT APPLIED FROM: 2 paper ozalids, 1 film ozalid, 2 76-40 for Landmarks, Photos - 69E(c) 3732 & 69E(c) 3735			

FIELD EDIT REPORT
Job PH-7019
Cape Fear River Entrance
North Carolina
Map TP-12291(2)

Field edit was applied to this map in January, 1973.

51. METHODS

Methods used to locate and verify salient features were resection, intersection, planetable, sextant fix, and taping. Deletions, additions, and corrections to the manuscript have been noted on the field edit ozalid, the field edit film ozalid, and photographs 69E-3732 and 69E-3735. Detail points are circled in violet ink. Ozalid notations have been made in violet pencil and the field notations on the film ozalid are orange.

52. ADEQUACY OF COMPILATION

The compilation appears to be good. After the application of field edit corrections, compilation will be adequate.

53. MAP ACCURACY

No accuracy test was made 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. No discrepancies were found on this map.

56. SHORELINE AND ALONGSHORE FEATURES

Distances were measured to the mean high water line from photo identifiable points, all referenced on the field edit ozalid. The shoreline in exposed areas is almost exclusively fast.

57. OFFSHORE FEATURES

Offshore hydrography was completed in 1970. The wrecks at Lockwood Folly Inlet have been found and located by the hydrographic party in 1969-70.

An underground pipeline has recently been constructed at Oak Island. It has been located by theodolite cuts and delineated on the field edit film ozalid. A railroad trestle has been built over the pipeline for construction purposes; it is now being removed. The pipeline will serve as a discharge for the Southport Atomic Power Plant. It reaches a minimum depth of $2\frac{1}{2}$ feet below the sand and is buried 10 feet at the MHWL. Particulars are noted on the field edit ozalid.

58. LANDMARKS AND AIDS

Numerous fixed aids to navigation have been located by sextant fix. These fixes have been plotted on the field edit film ozalid and appropriate data has been submitted.

Oak Island Light 2 has apparently been moved since compilation. It has been relocated by sextant fix.

Form 76 - 40, Recommending the addition of a new water tank at Yaupon Beach, has been submitted to the Atlantic Marine Center. Forms 152 were completed such that its location could be delineated in the office.

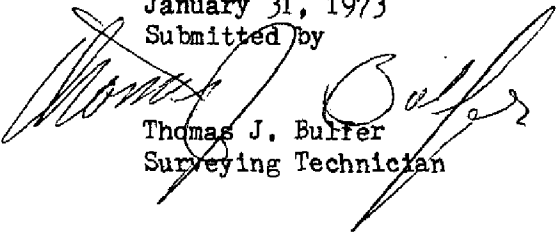
Some floating buoys were incorrectly labeled piles. These corrections, as well as others noted on the ozalid, will yield an adequate representation of the navigational aids and landmarks within this map limit.

59. GENERAL STATEMENT

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

January 31, 1973

Submitted by


Thomas J. Bulfer
Surveying Technician

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

NONFLOATING AIDS

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

REPORTING UNIT (Field Party, Ship or Office)		STATE	LOCALITY	DATE	ORIGINATING ACTIVITY		
TO BE CHARTED	TO BE REVISED	TO BE DELETED	AMC, Norfolk, VA	North Carolina	Cape Fear to Murrells Inlet	Jan 1976	
The following objects HAVE <input checked="" type="checkbox"/> HAVE NOT <input type="checkbox"/> been inspected from seaward to determine their value as landmarks.			DATE				
OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM				
436	PH-7019	T-12291(2)	N.A. 1927				
CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	LATITUDE		LONGITUDE		METHOD AND DATE OF LOCATION (See instructions on reverse side)	CHARTS AFFECTED
		° / ' " D.M. Meters	° / ' " D.P. Meters				
LIGHT	OAK ISLAND LIGHT (OAK ISLAND LIGHTHOUSE, 1962)	33-53	33.537 1033.3	78-02	06.766 173.8	69E(C)3735 Dec 4, 1969	1236 11534 11537
DAYBEACON	OAK ISLAND CHANNEL DAYBEACON 1	33-54	02.11 65	78-01	13.97 859	Jan 31, 1973 F-4-8-L	1236 11534 11537
DAYBEACON	OAK ISLAND CHANNEL DAYBEACON 4	33-54	01.75 54	78-01	19.77 508	Jan 31, 1973 F-4-8-L	1236 11534 11537
DAYBEACON	OAK ISLAND CHANNEL DAYBEACON 5	33-54	00.00 000	78-01	24.79 637	Jan 31, 1973 F-4-8-L	1236 11534 11537
DAYBEACON	OAK ISLAND CHANNEL DAYBEACON 6	33-53	58.49 1802	78-01	34.83 895	Jan 31, 1973 F-4-8-L	1236 11534 11537
DAYBEACON	OAK ISLAND CHANNEL DAYBEACON 7	33-53	57.12 1760	78-01	39.31 1010	Jan 31, 1973 F-4-8-L	1236 11534 11537
LIGHT	OAK ISLAND CHANNEL LIGHT 8	33-53	56.22 1732	78-01	46.47 1194	69E(C)3735 Dec 4, 1969	1236 11534 11537
LIGHT	OAK ISLAND CHANNEL LIGHT 2	33-54	03.25 100	78-01	14.36 869	Jan 31, 1973 F-4-8-L	1236 11534 11537
DAYBEACON	CAPE FEAR-LITTLE RIVER DAYBEACON 3	33-54	54.04 1665	78-01	29.19 750	Jan 31, 1973 F-4-8-L	1236 11534 11537
DAYBEACON	CAPE FEAR-LITTLE RIVER DAYBEACON 5	33-54	55.37 1706	78-01	40.72 1046	Jan 31, 1973 F-4-8-L	1236 11534 11537

ORIGINATING ACTIVITY	DATE	TIME	LOCATION	STATUS	REMARKS

U.S. DEPARTMENT OF COMMERCE
AND ATMOSPHERIC ADMINISTRATION

DATE Mar. 1975

The following objects HAVE ☒ HAVE NOT ☐ been inspected from seaward to determine their value as landmarks.

METHOD AND DATE OF LOCATION
(See instructions on reverse side)

METHOD AND DATE OF LOCATION
(See instructions on reverse side)

Record reason for deletion of landmark or aid to navigation.

33-55.0	78-01.9
---------	---------

33-54.0	78-01.2
---------	---------

33-55.0	78-01.8
---------	---------

REVIEW REPORT T-12291(2)
SHORELINE

January 28, 1976

61. GENERAL STATEMENT:

This survey is a resurvey of T-12291. See Summary, which is Page 6 of this Descriptive Report and Addendum to Compilation Report.

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with T-12291, 1:20,000 scale, dated 1965. Significant differences are shown on the comparison print in blue.

In the area compared, T-12291 (2) supersedes T-12291 for nautical chart construction purposes. T-12291 is the latest registered prior survey of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with AMS Quadrangle SOUTHPORT, NORTH CAROLINA, 1:24,000 scale, dated 1946; and with U.S.G.S. Quadrangle CAPE FEAR, N.C., 1:24,000 scale, dated 1970. Significant differences are shown in brown on the comparison print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with a copy of the verified smooth sheets for Surveys H-9115 (WH 20-1-70) and H-9359 (AHP 10-7-73); and a copy of the Preliminary Sounding Overlay for H-9489 (AHP 10-7-74). Significant differences are shown in purple on the comparison print.

Wrecks located by the hydrographer are not visible on the mapping photographs and were not located on T-12291 (2) by the field editor.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparisons were made with Small Craft Chart 11534, 1:40,000 scale, 12th edition, dated March 1975; and with Chart 11537, 1:40,000

scale, 14th edition, dated March 1975. None of the charted wrecks are visible on the photographs. There are small discrepancies in positions of charted aids in Oak Island Channel. Daybeacons in the Intracoastal Waterway at Southport have obviously been changed since T-12291 (2) was mapped. Significant differences are shown in red on the comparison print.

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 28, 1976

Approved for forwarding:

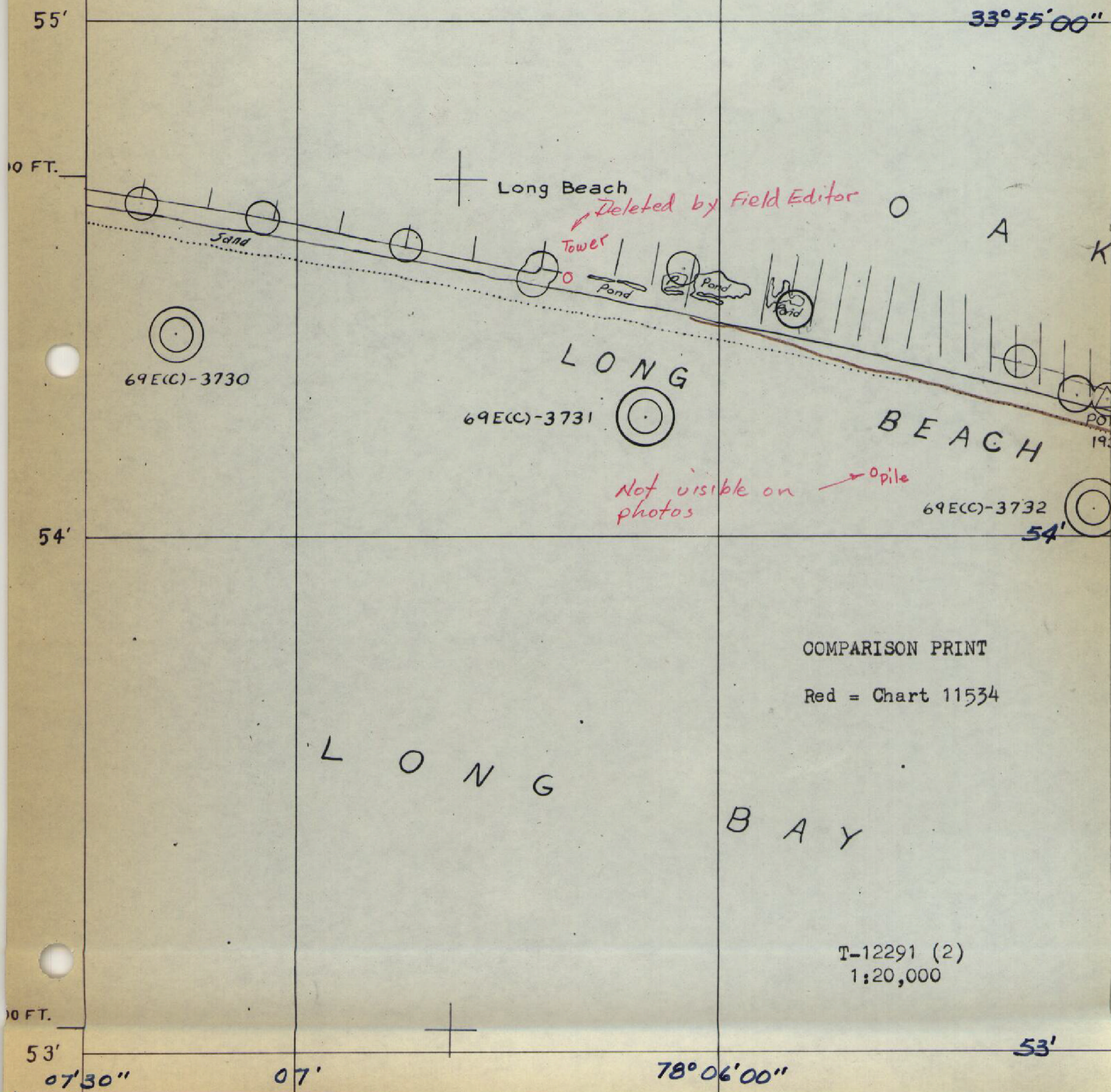
Joseph W. Vonasek

Joseph W. Vonasek
Acting Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

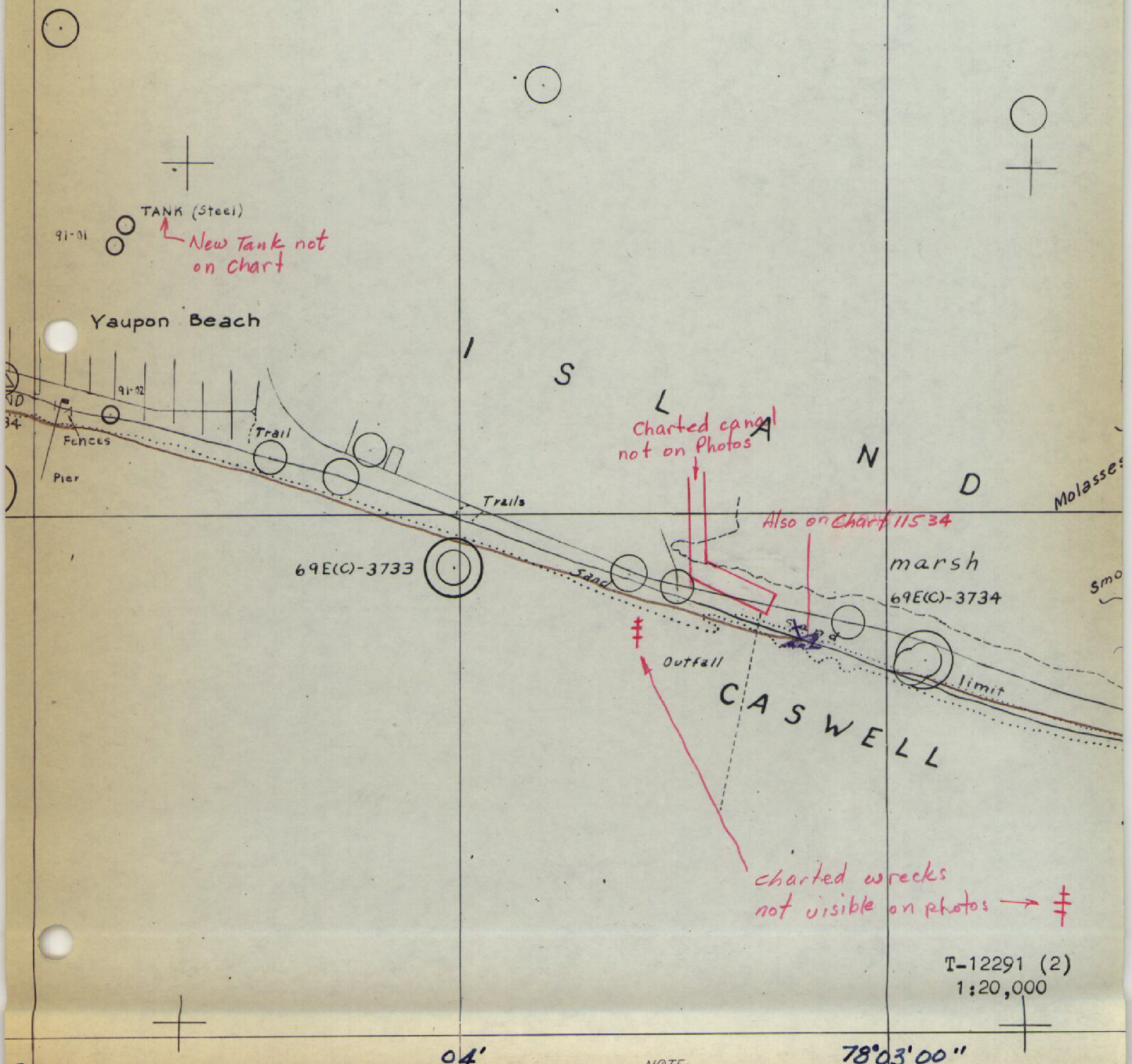


5. SOUTHPORT WILMINGTON CAPE FEAR PILOTS ASSN TOWER, 1962
6. SOUTHPORT MUNICIPAL WATER TANK, 1962
7. OAK ISLAND COAST GUARD RADIO BEACON MAST 1962

29

COMPARISON PRINT

Red = Chart 11534
Brown = AMS Quad
Purple = H-9115



NOTE:

30

Nothing visible on
photos at this position

SOUTHPORT

△ 6.

△ 2.

FILL, 1970

SOUTHPORT CHANNEL
RANGE REAR LIGHT

Pile INTRACOASTAL

WATERWAY

SOUTHPORT
LIGHT 1

marsh

marsh

Elizabeth
River

marsh islets

OAK ISLAND
CHANNEL
LIGHT 2

not charted

Ke house
Creek

marsh

marsh

69E(C)-3735

FORT CASWELL

BEACH

BATTERY
ISLAND

AL (USE) 1923

SMITH ISLAND RANGE
REAR LIGHT

SMITH ISLAND RANGE
FRONT LIGHT

COMPARISON PRINT

Blue = T-12291
Red = Charts 11534 & 11537
Brown = AMS Quad

T-12291 (2)
1:20,000

53'
y=50,000
78°00'00"

33°
55'

y=60,00

54'

01'

02'

3

CAPE FEAR RIVER ENTRANCE

Charted piling
not visible
on photos

BALD HEAD
LIGHTHOUSE 1851
ht = 102 (114)

Walkway

pile

COMPARISON PRINT

Blue = T-12291
Red = Chart 11534
Purple = H-9359

ISLAND

BALD HEAD

under construction

BALD HEAD

BALD HEAD
1962

52'

y = 40,000 FT.

‡ Charted wreck
not visible
on photos;
not on H-9359

33° 51' 00"

78° 00' 00"

01'

x = 2,300,000 FT

"SECOND EDITION"
NATIONAL OCEAN SURVEY
SHORELINE MANUSCRIPT

T-12291 (2)

NORTH CAROLINA

CAPE FEAR TO MURRELLS INLET

SOUTHPORT

SCALE 1:20,000

(1 inch = 1666.67 ft)

CONTROL DATA

Polyconic projection: 1927 North American Datum
10,000 foot grid based on North Carolina plane coordinate system
Datum Plane: Mean High Water

T-12291(2)

higher accuracy
order accuracy

visible above

water.
photographs