

TP-00670
0037

TP-00670

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. CM-7218 Map No. TP-00670
Classification No. Edition No. 1
Field Edited Map

LOCALITY

State North Carolina
General Locality Lower Cape Fear River
Locality Smith Creek

1974 TO 1975

REGISTRY IN ARCHIVES

DATE

DESCRIPTIVE REPORT - DATA RECORD

ORIGINAL

MAP EDITION NO. 1

RESURVEY

MAP CLASS Final(F.E.)

REVISED

JOB CM-7218

PHOTOGRAMMETRIC OFFICE

Coastal Mapping Division, Norfolk, VA

LAST PRECEDING MAP EDITION

OFFICER-IN-CHARGE

Jeffrey G. Carlen, Cdr.

TYPE OF SURVEY

JOB PH. _____

ORIGINAL

MAP CLASS _____

RESURVEY

SURVEY DATES:

REVISED

19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE

2. FIELD

Part I
Compilation - Feb. 27, 1973

Oct. 5, 1973

Part II
Aerotriangulation - Mar. 7, 1974

Compilation - July 15, 1974

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
North Carolina

ZONE

5. SCALE

1:10,000

STATE

ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS	NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic LANDMARKS AND AIDS BY	M. McGinley	None
2. CONTROL AND BRIDGE POINTS METHOD: Calcomp; PLOTTED BY CHECKED BY	R. Robertson R. Robertson	Jul. 1974 Jul. 1974
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:15,000 PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY	R.R. White L.O. Neterer NA NA	Oct. 1974 Oct. 1974
4. MANUSCRIPT DELINEATION METHOD: Smooth Ink Drafted SCALE: 1:10,000 PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY HYDRO SUPPORT DATA BY CHECKED BY	Charles Parker Frank Margiotta NA NA NA NA	Nov. 1974 Nov. 1974
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	F. Margiotta	Nov. 1974
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	J. Desch A.L. Shands	Apr. 1975 Apr. 1975
7. COMPILATION SECTION REVIEW BY	A.L. Shands	Apr. 1975
8. FINAL REVIEW BY	Billy H. Barnes	Mar. 1976
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	S. Blankenbaker	AUG. 1976
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	K.T. CATPK	SEP. 1976

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-10 "C"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE WILMINGTON, N.C.		(C) COLOR X	(P) PANCHROMATIC	ZONE Eastern	<input checked="" type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES	<input type="checkbox"/> REFERENCE STATION RECORDS	(I) INFRARED X		MERIDIAN 75th	<input type="checkbox"/> DAYLIGHT
<input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY					

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
* 73C(C)4535(I) - 4537(I)	12 OCT 73	09:10	1:30,000	4.3-ft. above-MLW
** 73C(C)4891(I) - 4893(I)	13 OCT 73	13:15	1:30,000	±0.2-ft.-of-MHW
				M.H.W. = 3.8 ft.

REMARKS
 * Bridge and Compilation photos
 ** Tide coordinated M.H.W. photos (centers on TP-00669) based on predicted tides

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from the above listed photographs.

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

The mean low water line was not compiled. "Tide controlled" photos did not cover this area.

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

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

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
No Survey	No Survey	CM-7219 TP-00699	TP-00669

REMARKS

HISTORY OF FIELD OPERATIONS

I. <input type="checkbox"/> FIELD INSPECTION OPERATION		<input checked="" type="checkbox"/> FIELD EDIT OPERATION	
OPERATION	NAME	DATE	
1. CHIEF OF FIELD PARTY	George W. Jamerson	Feb. 1975	
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		
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (<i>Triangulation Stations</i>) BY	George W. Jamerson	
	LOCATED (<i>Field Methods</i>) BY	George W. Jamerson	
	IDENTIFIED BY	George W. Jamerson	
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		2. VERTICAL CONTROL IDENTIFIED	
None		NA	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS (<i>Clarification of details</i>)			
74 (C)(C) 4893(I)			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED			
5 landmarks verified, one deleted			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS			
None			
8. OTHER FIELD RECORDS (<i>Sketch books, etc. DO NOT list data submitted to the Geodesy Division</i>)			
4 - Form 76-40 Non Floating aids and landmarks for charts			
1 - Form 76-36A 1-Film Ozalid - no notes			
1 - Form 76-36B			
1 - Form 76-36D			

TP-00670
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	Nov. 1974	Class III Manuscript	13 APR 75	22 NOV 74
Field edit applied Compilation complete	Apr. 1975	Class I Manuscript Superseded	9 MAY 75	
Final Review	Mar. 1976			

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		12 MAY 75	Aid for Charts
1		12 MAY 75	Landmark for Charts

2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: May 12, 1975
 3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

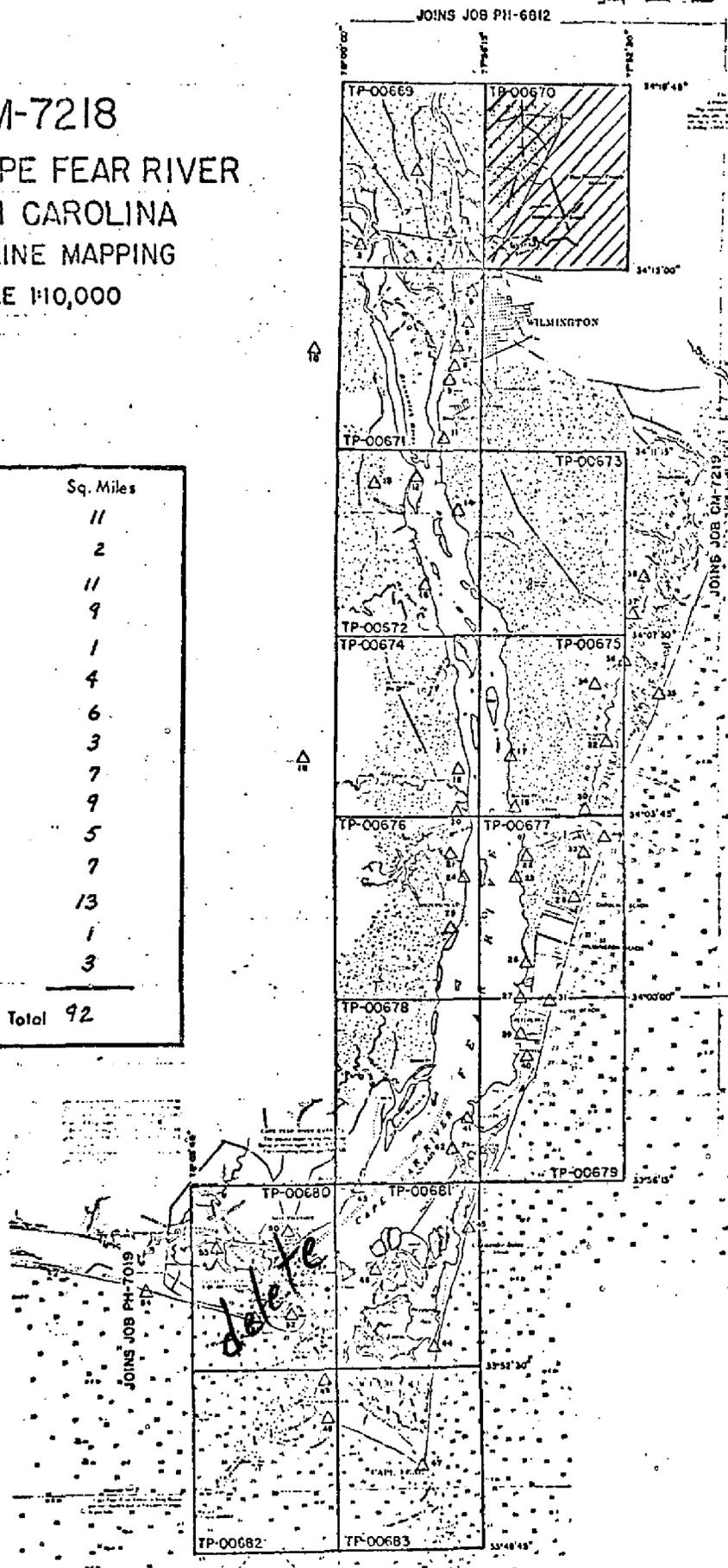
1. BRIDGING PHOTOGRAPHS; DUPLICATE BRIDGING REPORT; COMPUTER READOUTS.
 2. CONTROL STATION IDENTIFICATION CARDS; FORM NOS ⁷⁶⁻¹⁰ 567 SUBMITTED BY FIELD PARTIES.
 3. SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
 ACCOUNT FOR EXCEPTIONS: XEROX copies of Forms 76-36a, b, and d were for field editors reference only and were destroyed when returned to the office.
 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

CM-7218
 LOWER CAPE FEAR RIVER
 NORTH CAROLINA
 SHORELINE MAPPING
 SCALE 1:10,000

Sheet No.	Sq. Miles
TP-00 669	11
TP-00 670	2
TP-00 671	11
TP-00 672	9
TP-00 673	1
TP-00 674	4
TP-00 675	6
TP-00 676	3
TP-00 677	7
TP-00 678	9
TP-00 679	5
TP-00 680	7
TP-00 681	13
TP-00 682	1
TP-00 683	3
Total	92



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT TP-00670

This shoreline manuscript is one of fourteen 1:10,000 scale maps which comprise Project CM-7218, Lower Cape Fear River, North Carolina. This project is not part of, but it does adjoin, SCOPE, the Southern Coastal Plains Expedition.

Field work prior to compilation consisted of premarking horizontal control for bridging.

Analytic aerotriangulation was done in the Rockville Office in 1974 using the 1:30,000 scale color infrared bridging photography dated October 1973. Bridge points were dropped for ordering 1:10,000 scale ratios.

Compilation was done at the Atlantic Marine Center in October 1974 with the bridging photography. The Wild B-8 was used to compile inshore and cultural features and to drop alongshore pass points. These alongshore pass points were used to control the "high water" ratios from which the mean high water line was delineated graphically. The "high water" photos were flown based on predicted tides

Field edit was done in February 1975.

Final review was done at the Atlantic Marine Center in March 1976.

The original manuscript is a stabilene sheet 3 minutes 45 seconds in latitude by 3 minutes 45 seconds in longitude.

A stable base copy and a negative of the final reviewed manuscript were forwarded for record and registry.

PHOTOGRAMMETRIC PLOT REPORT
Job CM-7218
Lower Cape Fear River
North Carolina

21. Area Covered

This project covers the lower portion of the Cape Fear River, from just north of Wilmington, North Carolina, to the mouth of the river. Included are eleven T-sheets (TP-00669 thru TP-00679). All sheets are 1:10,000 scale.

22. Method

Two strips of color IR photography were bridged on the Wild STK 1 in order to obtain pass point positions and exact scale ratios to be used during compilation.

Strip 1 (west strip) was adjusted on five triangulation stations and one tie point from Strip 2 (east strip) with two additional triangulation stations as checks. Strip 2 was adjusted on five triangulation stations and one tie point from Strip 1 with three additional triangulation stations as checks. Twenty-three tie points also provided checks between the two strips. Both adjustments were performed on the IBM 6600. All sheets were ruled and plotted on the Coradomat.

1:10,000 scale ratios were ordered.

Horizontal Control held within National Map Accuracy.

24. Supplemental Data

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

25. Photography

Photography was adequate as to overlap, definition, and coverage.

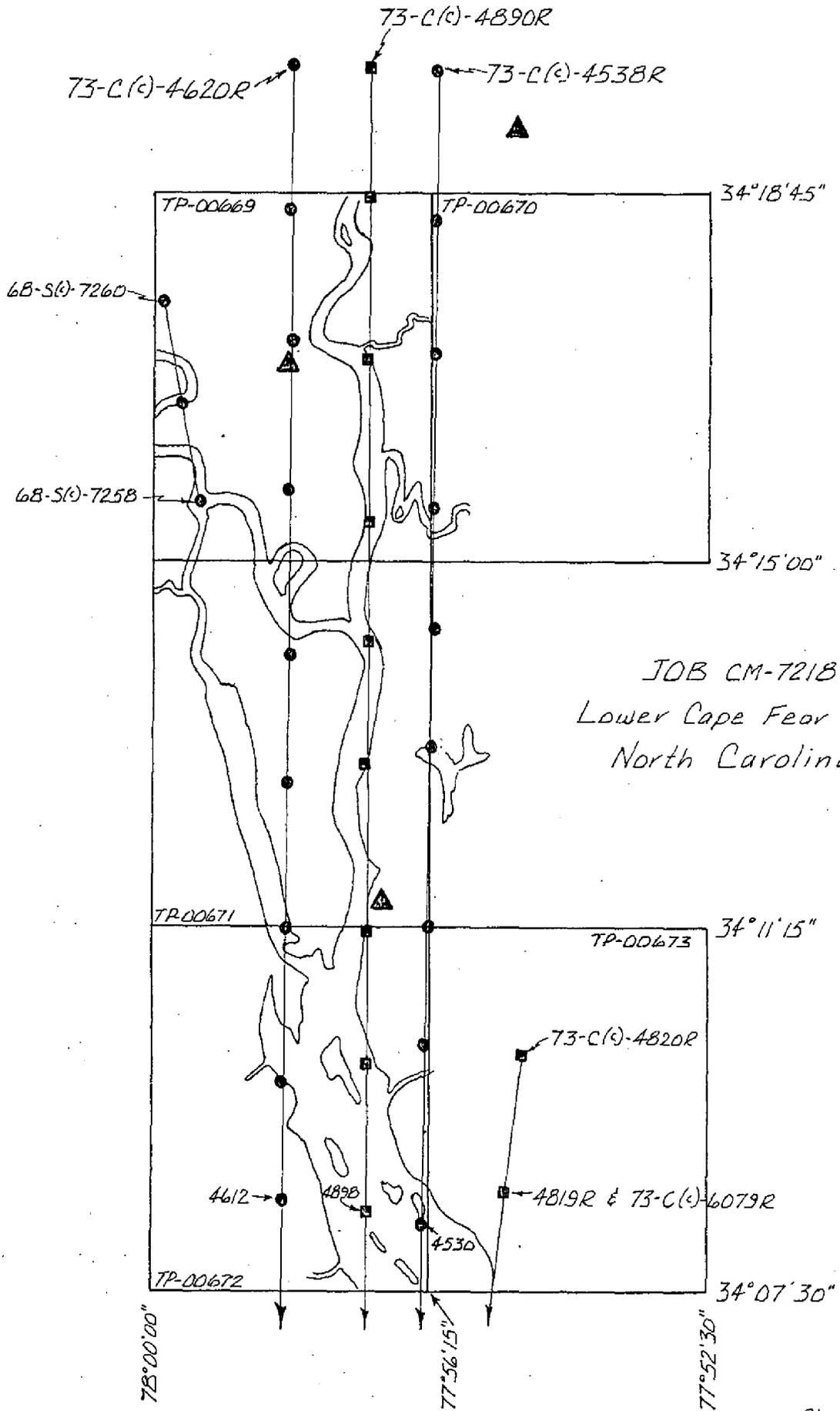
Submitted by,

Michael L. McGinley
Michael L. McGinley

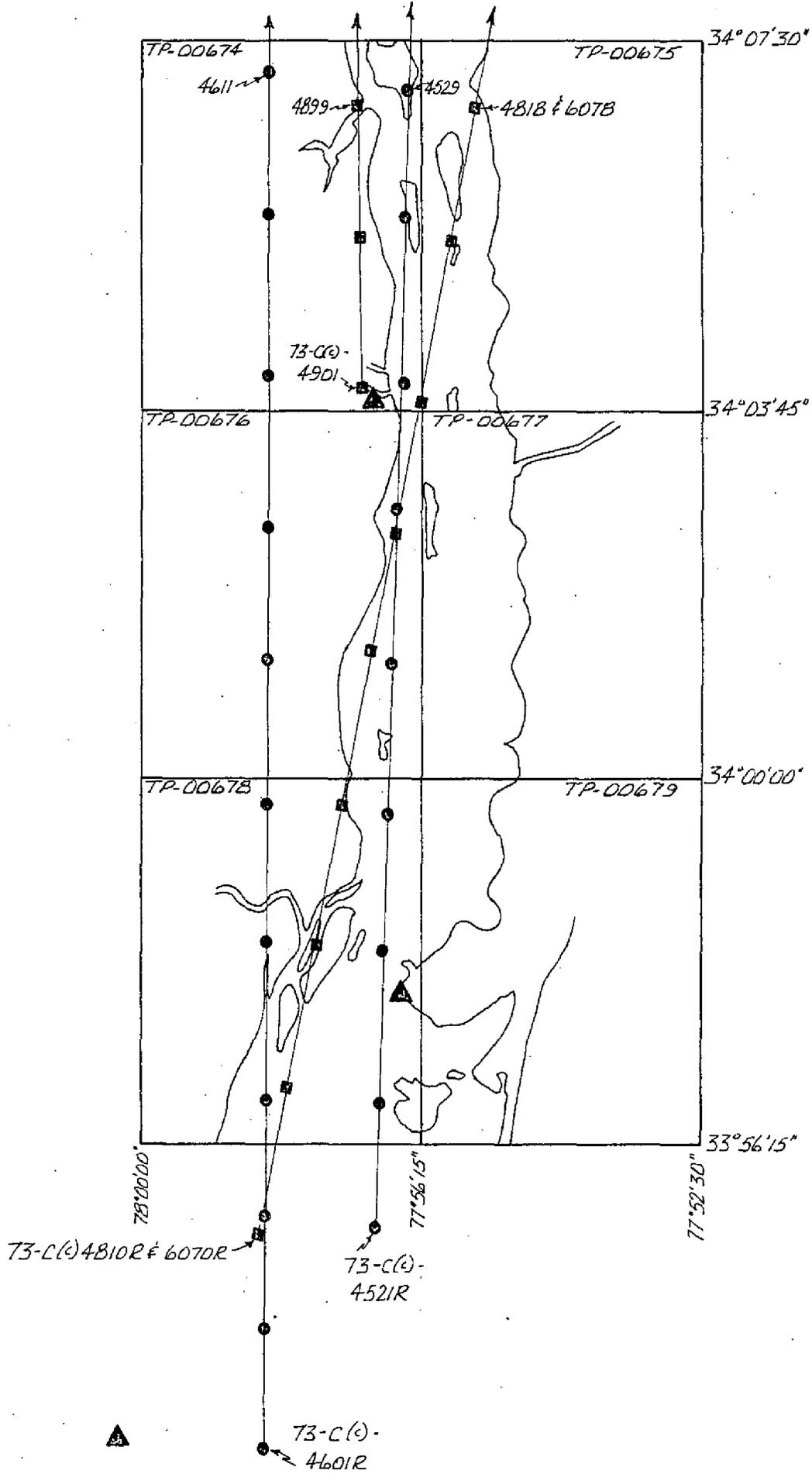
Approved by:

John D. Perrow, Jr.
John D. Perrow, Jr.

Chief, Aerotriangulation Section



JOB CM-7218
 Lower Cape Fear River
 North Carolina



Notes to Compiler

Photo-image points were located during bridging to be used if required, for controlling stereo models 68S(C)7258/59 and 7259/60. These photos cover the river in the western portion of sheet TP-00669.

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. TP-00670	JOB NO. CM-7218	STATION NAME AIRPORT (N.C.), 1942	SOURCE OF INFORMATION (Index) GP Vol. II Pg. 549	AEROTRI- ANGULATION POINT NUMBER	GEODETTIC DATUM N.A. 1927		ORIGINATING ACTIVITY		REMARKS Forward Back
					COORDINATES IN FEET STATE North ZONE North	GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE	ϕ	λ	
					X=	$34^{\circ} 16' 08.941''$			275.5 (1573.2)
					Y=	$77^{\circ} 54' 40.811''$			1044.0 (490.9)
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COMPILATION REPORT

TP-00670

31. DELINEATION

Delineation was by the Wild B-8 stereoplotter, using the 1:30,000 scale color infrared photography. Coverage of the "tide controlled" photography was not adequate to allow the graphic delineation of the mean high and mean low water lines as per the instructions. All details were compiled using the compilation photography.

32. CONTROL

See the attached Photogrammetric Plot Report, Not dated.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

Alongshore details were delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

There were no "tide coordinated" MLW photos covering this area.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

Copies of Form 76-40 for 1 non-floating aid to navigation and 4 landmarks were forwarded to the Rockville, MD office on May 9, 1975.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

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

40. HORIZONTAL AND VERTICAL ACCURACY

No statement

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with the following U.S. Geological Survey Quadrangle: Castle Hayne, NC, scale 1:24,000, dated 1970.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean Survey Chart: No. 11247(476) scale 1:40,000, 13th edition, dated April 20, 1974.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

Albert C. Rauck, Jr. For
Charles Parker, Carto. Aid
November 7, 1974

Approved:

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

ADDENDUM TO THE COMPILATION REPORT

TP-00670

FIELD EDIT

Field edit is brief and incomplete. Four (4) Landmarks were identified but the method of verification was not specified. No elevation or heights were submitted. One non-charted tank was recognized as a map feature only (tank had been listed on original 76-40 form sent from office to field - incorrect). It was removed from 76-40 form and appropriately labeled on manuscript one non-floating aid was verified, but field editor provided no record of the fact, or methods of verification, on 76-40 form. He states, "position verified", in field edit report only.

The deletion form for the Landmark radio tower at approx. $34^{\circ} 15.6'$, $77^{\circ} 56.2'$ was unnecessary, as tower location falls on adjoining sheet TP-00669.

2 Oct. 1975

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7218 (Lower Cape Fear River, N.C.)

TP-00670

Burnt Mill Creek

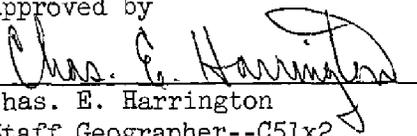
Ness Creek

Seaboard Coast Line RR

Smith Island

Wilmington

Approved by


Chas. E. Harrington
Staff Geographer--C51x2

NOAA FORM 75-74 (2-74)		U.S. DEPARTMENT OF COMMERCE NOAA NATIONAL OCEAN SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW			
TP-00670			
1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
LON	LON	FM	FM
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
FM	NA		NA
8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
NA	FM	FM	FM
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
FM	FM	FM	FM
16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
FM	FM	FM	FM
PHYSICAL FEATURES			
20. WATER FEATURES	21. NATURAL GROUND COVER		22. PLANETABLE CONTOURS
	NA		NA
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
NA	NA	NA	
CULTURAL FEATURES			
27. ROADS	28. BUILDINGS	29. RAILROADS	30. OTHER CULTURAL FEATURES
FM	FM	FM	FM
BOUNDARIES			
31. BOUNDARY LINES		32. PUBLIC LAND LINES	
NA		NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES		34. JUNCTIONS	35. LEGIBILITY OF THE MANUSCRIPT
FM		FM	FM
36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
FM	FM	FM	FM
40. REVIEWER		SUPERVISOR, REVIEW SECTION OR UNIT	
F. Margiotta <i>F. Margiotta</i> Nov. 1974		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 J. Desch Apr. 3, 1975		SUPERVISOR	
Reviewer: A.L. Shands Apr., 1975		Albert C. Rauck, Jr.	
43. REMARKS			
Field edit applied from field edit ozalid & photo 73C(C)(I)4893			

FIELD EDIT REPORT
 JOB CM 7218
 LOWER CAPE FEAR RIVER
 MAPS TP-00669 and TP-00670

52. Adequacy of Compilation

Compilation was adequate. The MHWL was accepted as compiled according to instructions received from the Chief, Coastal Mapping Division, dated May 28, 1974. The field work on these maps was performed by Lt. George W. Jamerson. No "second guessing" was done by the writer of this report. No significant changes or deviations in the shoreline were noted on either of these maps. An overhead cable crossing, on sheet TP-00669, was overlooked at Latitude $34^{\circ} 17'.9$, longitude $77^{\circ} 57'.2$; as was another one at latitude $34^{\circ} 15'.5$, longitude $77^{\circ} 55'.3$ on sheet TP-00670. These were indicated on the field edit ozalid and cross-referenced to the appropriate photograph. Several cable and pipeline crossings were also overlooked on TP-00669. These were indicated on the field edit ozalid and referenced to the proper photograph, if applicable. A "bldg" near the southwest corner of TP-00670 was not verified or delineated by the field editor as it was evidently not thought important enough to map. There is no "radio tower" at latitude $34^{\circ} 15'.5$, longitude $77^{\circ} 56'.3$ on sheet TP-00670. There is no bridge extant on this sheet, as questioned, either.

Several piling, dolphins and "fowl" areas were overlooked on TP-00669. The piling and dolphins were indicated on the field edit ozalid and cross-referenced to photos 73C 4892 and 73C 4893. The "fowl" areas were indicated on the field ozalid and cross-referenced to the film ozalid of the manuscript, where they were accurately delineated. The film ozalid is included with this report. A landmark building at latitude $34^{\circ} 15'.2$, longitude $77^{\circ} 56'.9$, has burned since photography. It should be deleted from the manuscript and its area labeled "ruins".

54. Recommendations

There are no recommendations.

56. Landmarks and Non-Floating Aids for Navigation

There are five compiled landmarks on map TP-00670. One of them, a "tank", at latitude $34^{\circ} 15'.3$, longitude $77^{\circ} 55'.7$ was deleted as its inclusion on the map was not felt necessary. A charted "radio tower" at latitude $34^{\circ} 15'.5$, longitude $77^{\circ} 56'.2$ was also deleted as it is no longer extant. Both were entered on Form 76-40 which is included with this report. The remaining landmarks were entered as "position verified" on the Form 76-40's initiated by compilation and furnished the field editor. These, also, are included with this report.

There is one fixed aid for navigation on map TP-00670.

" It is New Hanover, County Aero Beacon. It was entered as, position verified, on the Form 76-40 furnished the field editor by the compiling activity and is included with this report.

Ten landmarks were compiled on map TP-00669. Five of them were water tanks which have long since been razed. Another one, Navassa, Armour Fertilizer Works Tank, 1942 is due to be razed within the next few months. These landmarks, along with a radio tower and a stack, which were evidently felt to be extraneous, were deleted on Form 76-40 which is included with this report. The two remaining landmarks were entered on the Form 76-40 furnished the field editor by the compiling activity as "position verified".

There are five fixed aids for navigation within the compiled limits of map TP-00669. Three of them were compiled. However, Daybeacon 10 has been rebuilt since photography and was relocated by the field editor as were Daybeacons 2 and 4. They were plotted on the film ozalid of the manuscript and entered on Form 76-40. The two remaining aids were entered as "position verified" on the Form 76-40 initiated by compilations and furnished the field editor. Both are included with this report.

57. Rocks, Reefs, and Shoals

There are no rocks or reefs, as defined within the compiled limits of this map. Numerous shoals exist, but as hydrography was run nearly concurrent with the field edit no effort was made to delineate them. See the current hydrography for any shoals or shallow areas.

58. Photography

Photography consisted of 1:10,000 ratio office prepared prints of color infrared photographs. The photography was good.

59. Disposition of Data

The field edit ozalids, the film ozalids, the color photography and all pertinent field edit data were forwarded to the Director, Atlantic Marine Center for proper dissemination.

Richard E. Kesselring
Richard E. Kesselring
Surveying Technician
Photo Party 62

orig. to charts
5/9/75

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				ORIGINATING ACTIVITY	
LANDMARKS FOR CHARTS		LOCALITY		DATE	METHODOLOGY		
<input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED		STATE North Carolina		Lower Cape Fear River.	Apr. 1975		<input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> COMPILATION ACTIVITY - <input type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH (See reverse for responsible personnel)
REPORTING UNIT Coastal Mapping Div., ANC- Norfolk, Va.		SURVEY NUMBER TP-00670.		DATUM N.A. 1927		METHOD AND DATE OF LOCATION (See instructions on reverse side)	
CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION		LONGITUDE	OFFICE	FIELD	CHARTS AFFECTED
		LATITUDE	LONGITUDE				
		D.M. Meters	D.P. Meters				
TANK *		34-15 ✓ 32.58 ✓ 1004 ✓	77-56 ✓ 10.71 ✓ 274 ✓	04.65 ✓	730(C)(I)4893 Oct. 13, 1973	V-Vis. Feb. 1975	426
TANK *		34-15 ✓ 34.99 ✓ 1078 ✓	77-56 ✓ 04.65 ✓ 119 ✓	00:20 ✓	" "	" "	426
R. TOWER *		34-15 ✓ 45.66 ✓ 1407 ✓	77-56 ✓ 00:20 ✓ 15 ✓	43.58 ✓	" "	" "	426
TANK *		34-15 ✓ 47.87 ✓ 1475 ✓	77-55 ✓ 1115 ✓		" "	" "	426
	* Field editor gave no descriptions, nor heights for these landmarks.						

TYPE OF ACTION	RESPONSIBLE PERSONNEL NAME	ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD		<input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED		FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	Billy H. Barnes INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' <i>(Consult Photogrammetric Instructions No. 64.)</i>	<input checked="" type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
<p>OFFICE I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75</p> <p>FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection</p> <p>P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant</p> <p>A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75</p> <p>*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.</p>	<p>FIELD (Cont'd) B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982</p> <p>II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75</p> <p>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75</p> <p>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</p>	

REVIEW REPORT TP-00670

SHORELINE

March 1976

61. GENERAL STATEMENT:

See Summary which is page six of this Descriptive Report.

The term "tide coordinated" is used loosely with this project. Photography was flown at mean high water and mean low water based on predicted tides - not based on staff readings, as is generally thought of when "tide coordinated" is used. The word "predicted" is used in the remarks column on Form 76-15, Photographic Flight Report, for the 1973 photography, which is referred to in the project instructions as being tide coordinated.

A comparison print showing differences noted in paragraph 65 is included with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with T-5191, scale 1:10,000, drawn from photographs taken in 1933. No significant differences were noted. In the area compared, TP-00670 supersedes T-5191 for nautical chart construction purposes. T-5191 is the latest registered prior survey of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangle CASTLE HAYNE, N.C., dated 1970, scale 1:24,000. No differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with the Preliminary Boat Sheet of H-9500 (AHP-10-1-75), scale 1:10,000, dated 1975. No significant differences were noted.

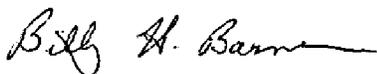
65. COMPARISON WITH NAUTICAL CHARTS:

The area covered by this map is within the limits of NOAA Chart 11537 (426), scale 1:40,000, 14th edition, dated March 8, 1975. Significant differences are shown in red on the comparison print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with Project Instructions (See Form 76-36b and Section 61 of this report), meets the requirements for Bureau Standards and National Standards of Map Accuracy.

Reviewed by:



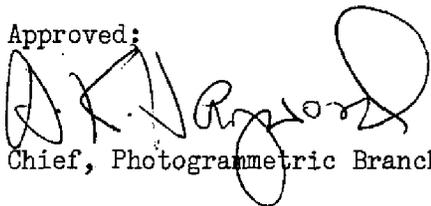
Billy H. Barnes
Cartographer
March, 1976

Approved for forwarding:

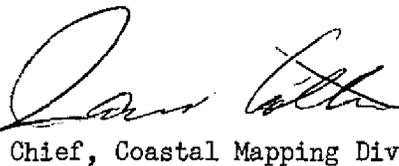


Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

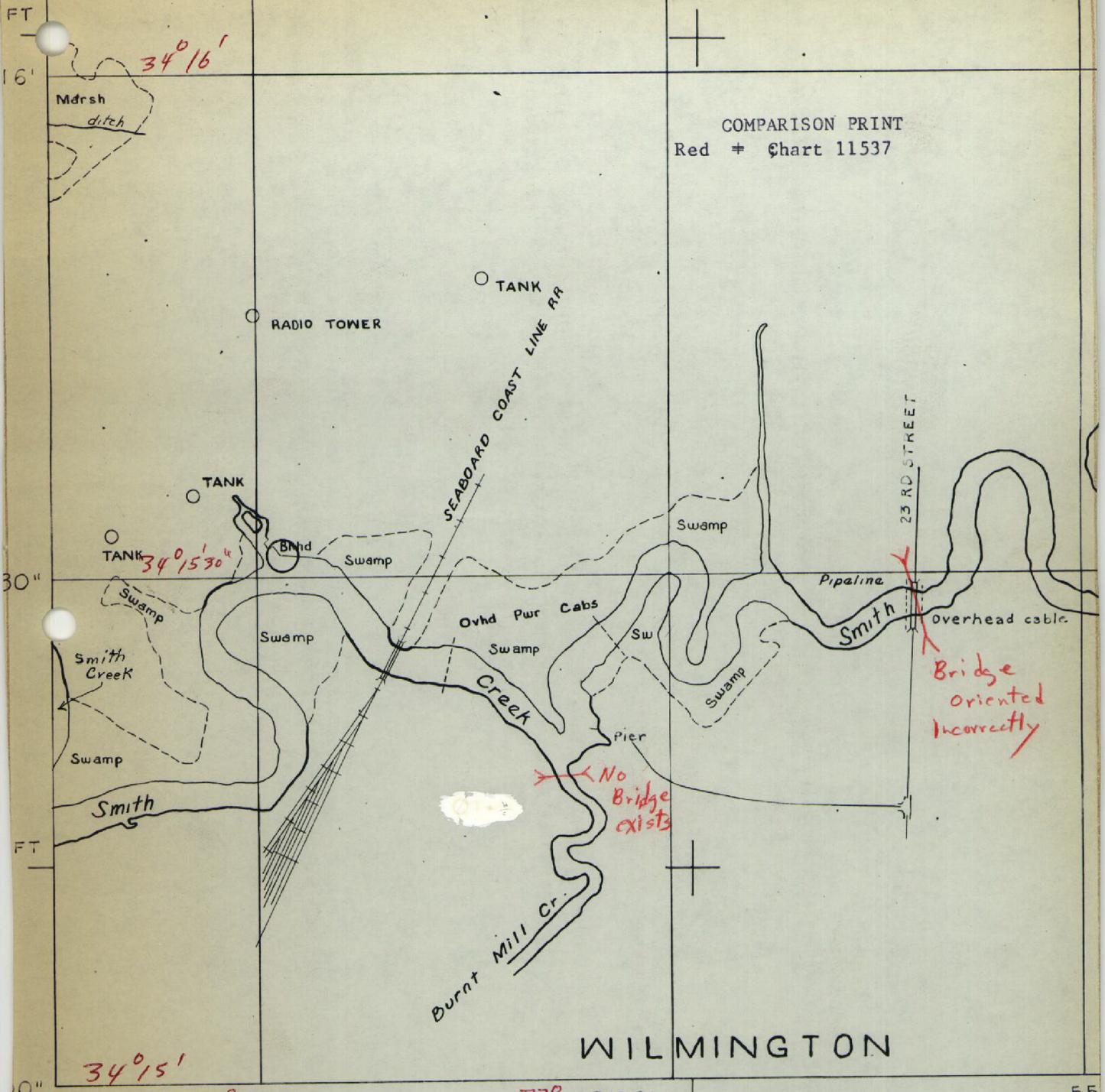


Chief, Photogrammetric Branch



Chief, Coastal Mapping Div.

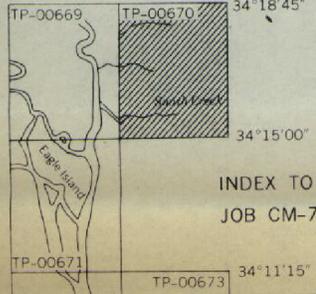
TP-00670 23
1:10,000



COMPARISON PRINT
Red + Chart 11537

WILMINGTON

7°56'15" 34°15' 77°55'30" 1:2,325,000 FT 55



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