

TP - 00669

TP-00669

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-00669

Classification No. .... Edition No. .... 1

Field Edited Map

#### LOCALITY

State ... North Carolina

General Locality ... Lower Cape Fear River

Locality ... Ness Creek

19<sup>3</sup>7<sup>2</sup> TO 1975

#### REGISTRY IN ARCHIVES

DATE .....

NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP. <u>00669</u>  MAP EDITION NO. (1) MAP CLASS <u>Final (F.E.)</u> JOB <u>CM-7218</u>
<b>DESCRIPTIVE REPORT - DATA RECORD</b>			
PHOTOGRAMMETRIC OFFICE  Coastal Mapping Division (Norfolk)		LAST PRECEDING MAP EDITION	
OFFICER-IN-CHARGE  Jeffrey G. Carlen		TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__
<b>I. INSTRUCTIONS DATED</b>			
I. OFFICE		2. FIELD	
Part I Compilation Feb 27, 1973  Part II Aerotriangulation Mar 7, 1974 Compilation Jul 15, 1974		Oct 5, 1973	
<b>II. DATUMS</b>			
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify)	
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input 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)	
5. SCALE  1:10,000		STATE North Carolina	ZONE
<b>III. HISTORY OF OFFICE OPERATIONS</b>			
OPERATIONS	NAME	DATE	
1. AEROTRIANGULATION BY M. McGinley		None	
METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY			
2. CONTROL AND BRIDGE POINTS PLOTTED BY R. Robertson		Jul 1974	
METHOD: <u>Calcomp</u> CHECKED BY R. Robertson		Jul 1974	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY R. White		Oct 1974	
COMPILATION CHECKED BY L. O. Neterer		Oct 1974	
INSTRUMENT: <u>Wild B-8</u> CONTOURS BY NA			
SCALE: <u>1:15,000</u> CHECKED BY NA			
4. MANUSCRIPT DELINEATION PLANIMETRY BY I. K. Perkinson		Nov 1974	
CHECKED BY R. R. White		Nov 1974	
METHOD: <u>Smooth ink drafted</u> CONTOURS BY NA			
SCALE: <u>1:10,000</u> CHECKED BY NA			
HYDRO SUPPORT DATA BY NA			
CHECKED BY NA			
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY R. R. White		Nov 1974	
6. APPLICATION OF FIELD EDIT DATA BY I. K. Perkinson		Apr 1975	
CHECKED BY A.L. Shands		Apr 1975	
7. COMPILATION SECTION REVIEW BY A.L. Shands		Apr 1975	
8. FINAL REVIEW BY B.H. Barnes		Feb 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 R.T. CATDR		SEP 1976	

**1. COMPILATION PHOTOGRAPHY**

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

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
* 73C(C) 4617(I) thru 4619(I)	Oct 12, 1973	09:53	1:30,000	3.9 ft. above MLW
** 73C(C) 4891(I) thru 4893(I)	Oct 13, 1973	13:15	1:30,000	±0.2 ft. of MHW
* 73C(C) 4535(I) thru 4537(I)	Oct 12, 1973	09:10	1:30,000	4.3 ft. above MLW MHW = 3.8 ft.

REMARKS  
 \*Bridge and compilation photos.      \*\*Tide coordinated MHW photos based on predicted tides.

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

The mean high water line was compiled graphically from the above listed "tide controlled" photographs.

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

The mean low water line was not compiled. Contemporary "tide controlled" photos at Mean Low Water 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 No survey	EAST TP-00670	SOUTH TP-00671	WEST No survey
--------------------	------------------	-------------------	-------------------

REMARKS

HISTORY OF FIELD OPERATIONS

1.  FIELD INSPECTION OPERATION  FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.S. Tibbetts	Oct 1973
2. HORIZONTAL CONTROL	RECOVERED BY	R.D. Black
	ESTABLISHED BY	None
	PRE-MARKED OR IDENTIFIED BY	R.D. Black
3. VERTICAL CONTROL	RECOVERED BY	NA
	ESTABLISHED BY	NA
	PRE-MARKED OR IDENTIFIED BY	NA
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY	None
	LOCATED (Field Methods) BY	None
	IDENTIFIED BY	None
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION	
	<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 **NA**

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
730(C) 4618 (I)	NITREX (NCGS), 1968		

3. PHOTO NUMBERS (Clarification of details)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  
**None**

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES:  REPORT  NONE      6. BOUNDARY AND LIMITS:  REPORT  NONE

7. SUPPLEMENTAL MAPS AND PLANS  
**None**

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)  
**1-Form 152**

TP-00669  
**HISTORY OF FIELD OPERATIONS**

I.  FIELD INSPECTION OPERATION  FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	G.W. Jamerson	Feb 1975
2. HORIZONTAL CONTROL	RECOVERED BY G.W. Jamerson	Feb 1975
	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 (Triangulation Stations) BY G.W. Jamerson	Feb 1975
	LOCATED (Field Methods) BY G.W. Jamerson	Feb 1975
	IDENTIFIED BY G.W. Jamerson	Feb 1975
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	BY
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY G.W. Jamerson	Feb 1975
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

3. PHOTO NUMBERS (Clarification of details) Field Edit  
73C 4892; 73C 4893

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  
2 landmarks verified; 2 aids verified; 3 aids located  
8 landmarks deleted

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES:  REPORT  NONE

6. BOUNDARY AND LIMITS:  REPORT  NONE

7. SUPPLEMENTAL MAPS AND PLANS  
1 Film ozalid with annotations

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)  
3 Form 76-40

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

## 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 Superseded	Apr 13, 1975	Nov 22, 1974
Field edit applied Compilation complete	Apr 1975	Class I Superseded	May 9, 1975	
Final Review	Feb 1976			

## II. LANDMARKS AND AIDS TO NAVIGATION

## 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
5		May 12, 1975	Aids for charts
1		May 12, 1975	Landmark for charts
4		May 12, 1975	Landmarks to be deleted

2.  REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: May 12, 19753.  REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

## III. FEDERAL RECORDS CENTER DATA

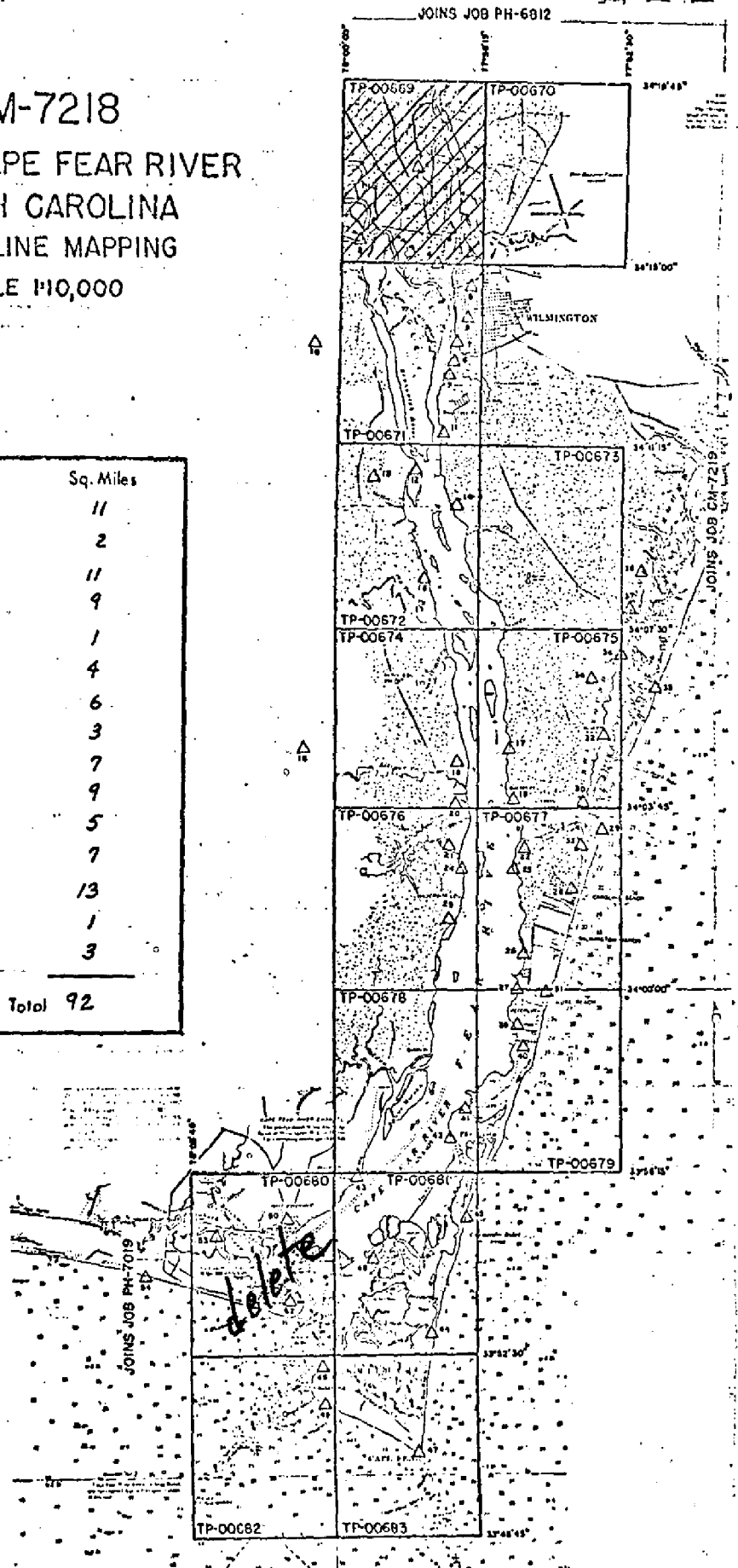
1.  BRIDGING PHOTOGRAPHS;  DUPLICATE BRIDGING REPORT;  COMPUTER READOUTS.  
 2.  CONTROL STATION IDENTIFICATION CARDS;  FORM NOS <sup>76-40</sup> ~~367~~ SUBMITTED BY FIELD PARTIES.  
 3.  SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.  
 ACCOUNT FOR EXCEPTIONS: 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  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	

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

Sheet No.	Sq. Miles
TP-00669	11
TP-00670	2
TP-00671	11
TP-00672	9
TP-00673	1
TP-00674	4
TP-00675	6
TP-00676	3
TP-00677	7
TP-00678	9
TP-00679	5
TP-00680	7
TP-00681	13
TP-00682	1
TP-00683	3
<hr/>	
Total	92



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT TP-00669

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 February 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

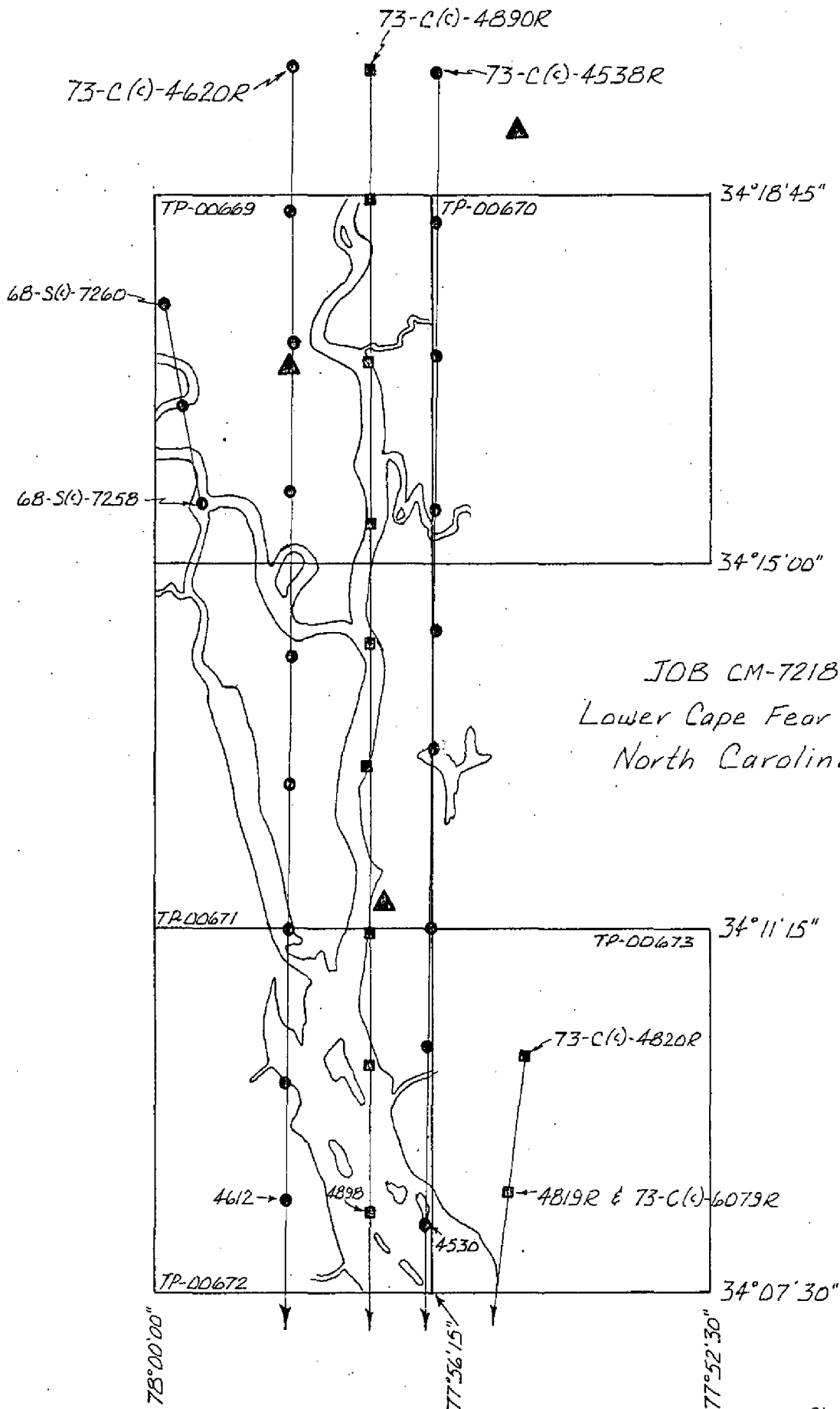
Vertical control, for bridging only, was obtained from local USGS quads.

25. Photography

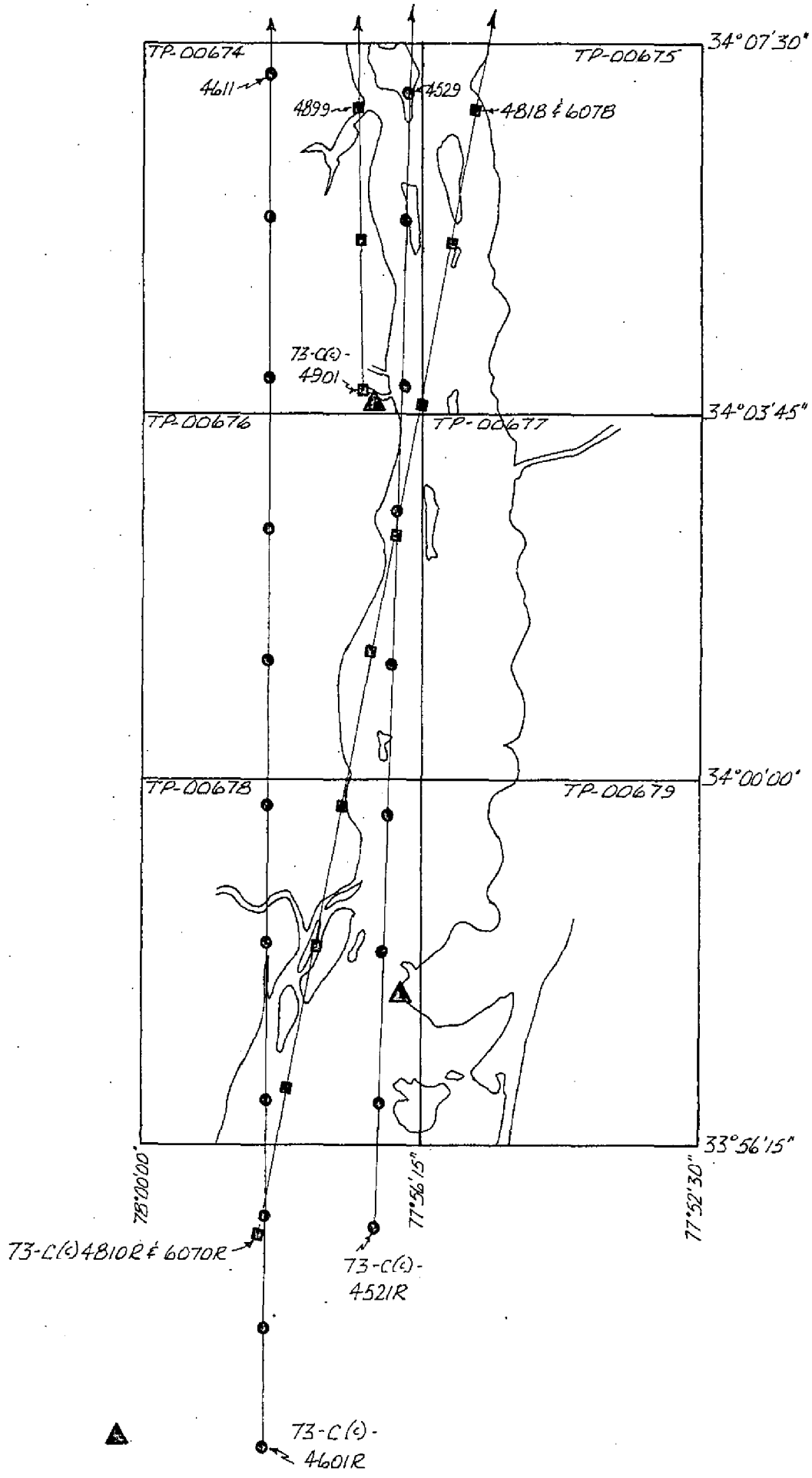
Photography was adequate as to overlap, definition, and coverage.

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.	STATION NAME	JOB NO.	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	GEODETIC DATUM		ORIGINATING ACTIVITY		REMARKS
					COORDINATES IN FEET STATE _____ ZONE _____	N.A. 1927	φ LATITUDE λ LONGITUDE	Coastal Mapping Div (Norfolk)	
TP-00669		CM-7218							
	DRU, 1918		G.P. Vol. I Pg. 161		x=	φ 34° 16' 45.833" /		1412.2	(436.5) ✓
					y=	λ 77° 57' 58.018" /		1484.0	(50.7) ✓
	NAVASSA, VIRGINIA-CAROLINA CHEMICAL CO. TANK, 1942		G.P. Vol II Pg. 552 /		x=	φ 34° 15' 33.481" /		1031.6	(817.1) ✓
					y=	λ 77° 59' 27.078" /		692.8	(842.3) ✓
	NITREX (NCGS), 1968		Vol III Pg. 3237		x=	φ 34° 16' 43.41909" /		1337.8	(510.9) ✓
			3407731114 Vol III		y=	λ 77° 57' 39.73233" /		1016.3	(518.4) ✓
	GRACE (NCGS), 1968		Pg. 3236		x=	φ 34° 16' 09.91824" /		305.6	(1543.1) ✓
					y=	λ 77° 57' 26.56791" /		679.7	(855.3) ✓
					x=	φ			
					y=	λ			
					x=	φ			
					y=	λ			
					x=	φ			
					y=	λ			
					x=	φ			
					y=	λ			
					x=	φ			
					y=	λ			
COMPUTED BY									
	A.C. Rauck, Jr.			DATE				COMPUTATION CHECKED BY	DATE
LISTED BY				Aug 5, 1974					
	F. Margiotta			DATE				LISTING CHECKED BY	DATE
HAND PLOTTING BY				Aug 6, 1974					
				DATE				HAND PLOTTING CHECKED BY	DATE

## COMPILATION REPORT

TP-00669

31. DELINEATION

Delineation was by the Wild B-8 stereoplotter, for all details except the mean high water line which was compiled graphically using 1:30,000 scale "tide controlled" photography ratioed to map scale. No mean low water line was compiled (See 76-36b).

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.

The mean high water line was delineated from the "tide coordinated" photographs.

There were no contemporary mean low water "tide coordinated" photos covering this area.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

Copies of Form 76-40 for five non-floating aids to navigation, four landmarks for deletion and one landmark for charting were forwarded to the Rockville, Maryland 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(426) 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:



Irene K. Perkinson  
Cartographic Technician  
November 18, 1974

Approved:



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

## ADDENDUM TO THE COMPILATION REPORT

TP-00669

FIELD EDIT

Field edit was adequate, however, field editor failed to complete information on Form 76-40 by not acquiring heights of landmarks.

In locating Daybeacon No. 4, the field editor apparently wrote down the wrong figures on his check angle.



2 Oct. 1975

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

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

TP-00669

Brunswick River

Cape Fear River\

Cartwheel Branch

Eagle Island

Navassa Island

Ness Creek

Northeast Cape Fear River

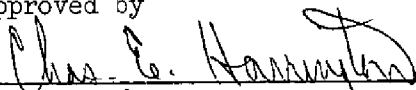
Seaboard Coast Line RR

Smith Creek

Toomers Creek

Wilmington

Approved by

  
Chas. E. Harrington  
Staff Geographer--C51x2

NOAA FORM 75-74  
(2-74)TP-00669  
PHOTOGRAMMETRIC OFFICE REVIEW  
T-10363U.S. DEPARTMENT OF COMMERCE  
NOAA  
NATIONAL OCEAN SURVEY

1. PROJECTION AND GRIDS RRW	2. TITLE RRW	3. MANUSCRIPT NUMBERS ALS	4. MANUSCRIPT SIZE ALS
<b>CONTROL STATIONS</b>			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY RRW	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA		7. PHOTO HYDRO STATIONS NA
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT RRW	11. DETAIL POINTS LON
<b>ALONGSHORE AREAS (Nautical Chart Data)</b>			
12. SHORELINE RRW	13. LOW-WATER LINE XX	14. ROCKS, SHOALS, ETC. XX	15. BRIDGES RRW
16. AIDS TO NAVIGATION RRW	17. LANDMARKS RRW	18. OTHER ALONGSHORE PHYSICAL FEATURES RRW	19. OTHER ALONGSHORE CULTURAL FEATURES ALS
<b>PHYSICAL FEATURES</b>			
20. WATER FEATURES RRW		21. NATURAL GROUND COVER NA	22. PLANETABLE CONTOURS NA
23. STEREOSCOPIC INSTRUMENT CONTOURS NA	24. CONTOURS IN GENERAL NA	25. SPOT ELEVATIONS NA	26. OTHER PHYSICAL FEATURES XX
<b>CULTURAL FEATURES</b>			
27. ROADS RRW	28. BUILDINGS RRW	29. RAILROADS RRW	30. OTHER CULTURAL FEATURES XX
<b>BOUNDARIES</b>			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
<b>MISCELLANEOUS</b>			
33. GEOGRAPHIC NAMES RRW		34. JUNCTIONS RRW	35. LEGIBILITY OF THE MANUSCRIPT RRW
36. DISCREPANCY OVERLAY RRW	37. DESCRIPTIVE REPORT RRW	38. FIELD INSPECTION PHOTOGRAPHS XX	39. FORMS ACR
40. REVIEWER <i>Richard R. White</i> Richard R. White		SUPERVISOR, REVIEW SECTION OR UNIT 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 Irene Perkinson Apr 1975		SUPERVISOR	
Reviewed by: A.L. Shands Apr 1975		Albert C. Rauck, Jr.	
43. REMARKS Field edit was done from: Photos 73C (C) 4892 (I) & 73C (C) 4893 (I) Field edit ozalid and film ozalid of TP-00669 Field Sketch Book of Theodolite points			

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 "blg" 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 "foul" 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 "foul" 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 compilation 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

NOAA FORM 76-40  
(8-74)

Replaces C&GS Form 567.

**NONFLOATING AIDS OR LANDMARKS FOR CHARTS**

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

**ORIGINATING ACTIVITY**

- HYDROGRAPHIC PARTY
  - GEODETIC PARTY
  - PHOTO FIELD PARTY
  - COMPILATION ACTIVITY
  - FINAL REVIEWER
  - QUALITY CONTROL & REVIEW GRP.
  - COAST PILOT BRANCH
- (See reverse for responsible personnel)

REPORTING UNIT  
(Field Party, Ship or Office)  
Coastal Mapping Div.  
AMC, Norfolk, VA

LOCALITY  
Lower Cape Fear River

STATE  
North Carolina

DATE  
Jan 1976

OPR PROJECT NO. 437

JOB NUMBER CM-7218

SURVEY NUMBER TP-00669

DATUM N.A. 1927

POSITION

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

CHARTS  
AFFECTED

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)	LATITUDE		LONGITUDE		OFFICE	FIELD	CHARTS AFFECTED
		° / ' "	D. M. Meters	° / ' "	D. P. Meters			
DAY BEACON	Northeast Cape Fear River Daybeacon 2	34 15	42.55 1311	77 56	53.34 1365		F-2-6-L Feb 1975	426 835SC 1235
DAY BEACON	Northeast Cape Fear River Daybeacon 4	34 15	53.20 1639	77 57	00.59 15		F-4-8-L Feb 1975	426 835SC 1235
DAY BEACON	Northeast Cape Fear River Daybeacon 6	34 15	58.87 1814	77 57	03.13 80		F-4-8-L Feb 1975	426 835SC 1235
DAY BEACON	Northeast Cape Fear River Daybeacon 8	34 16	18.95 584	77 57	03.35 86		F-4-8-L Feb 1975	426 835SC 1235
DAY BEACON	Northeast Cape Fear River Daybeacon 10	34 16	20.76 640	77 56	59.77 1529		F-4-8-L Feb 1975	426 835SC 1235

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	George W. Jamerson Irene K. Perkinson
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>	
OFFICE IDENTIFIED AND LOCATED OBJECTS	FIELD (Cont'd)
<p><b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b> 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><b>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.</b> EXAMPLE: P-8-V 8-12-75 74L(C)2982</p>
<p><b>FIELD</b></p> <p><b>I. NEW POSITION DETERMINED OR VERIFIED</b> Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection 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><b>II. TRIANGULATION STATION RECOVERED</b> 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><b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b> 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>

orig. to charts  
5/19/75

NOAA FORM 76-40  
(8-74)

Replaces CGGS Form 567.

TO BE CHARTED  
 TO BE REVISED  
 TO BE DELETED

REPORTING UNIT  
(If field party, ship or office)  
Coastal Mapping Div.  
AMC - Norfolk, Va.

STATE  
North Carolina

LOCALITY  
Lower Cape Fear River

DATE  
Apr. 1975

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

LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY

- HYDROGRAPHIC PARTY
  - GEODETIC PARTY
  - PHOTO FIELD PARTY
  - COMPILATION ACTIVITY
  - FINAL REVIEWER
  - QUALITY CONTROL & REVIEW GRP.
  - COAST PILOT BRANCH
- (See reverse for responsible personnel)

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

DATUM  
N.A. 1927

SURVEY NUMBER  
TP-00669

JOB NUMBER  
CM-7218

OPR PROJECT NO.  
437

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION				METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED
		LATITUDE		LONGITUDE		OFFICE	FIELD	
		° /	′ /	° /	′ /			
TANK	(Wilmington Terminal Warehouse Co., Tank, 1942) -- Tank destroyed.	34-15	19.96 615.0	77-56	48.84 1249.6	Destroyed Feb. 1975	Destroyed Feb. 1975	426 835SC 1235
TANK	(Wilmington Water Tank, 1932) -- Tank destroyed.	34-16	01.680 51.8	77-57	13.066 334.3	Destroyed Feb. 1975	Destroyed Feb. 1975	" " "
STACK	Not of landmark value.	34-15	41.5 1278	77-56	20.6 528	Not required Feb. 1975	Not required Feb. 1975	" " "
R. TOWER	This is not a tower, but a stack.	34-15	32.0 987	77-56	15.5 397	Delete Feb. 1975	Delete Feb. 1975	" " "

900115

*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							
<del>NON-CARTING OBJECTS</del> LANDMARKS FOR CHARTS				REPORTING UNIT (if field party, ship or office) Coastal Mapping Div. AMC - Norfolk, Va.		STATE North Carolina		LOCALITY Lower Cape Fear River		DATE Apr. 1975	
TO BE CHARTED <input checked="" type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED		The following objects HAVE <input checked="" type="checkbox"/> HAVE NOT <input type="checkbox"/> been inspected from seaward to determine their value as landmarks.		JOB NUMBER CM-7218		SURVEY NUMBER TP-00669		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			OFFICE	FIELD	CHARTS AFFECTED				
		LATITUDE D.M. Meters	LONGITUDE D.P. Meters								
R. TOWER	(No height given)	<input checked="" type="checkbox"/> 34-15	<input checked="" type="checkbox"/> 77-56	<input checked="" type="checkbox"/> 21.0	730(C)(I)4892 Oct. 13, 1973	V-Vis Feb. 1975	426 835SC 1235				

*Oct. 1975*



## REVIEW REPORT TP-00669

## SHORELINE

February 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 paragraphs 62 through 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. Significant differences are noted in blue on the comparison print. In the area compared, TP-00669 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. Differences are shown in brown on the comparison print.

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. There was an obvious position discrepancy on Daybeacons 4 through 10. The positions shown on TP-00669 are correct. This and other differences are shown in purple on the comparison print.

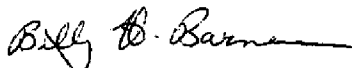
65. COMPARISON WITH NAUTICAL CHARTS:

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:



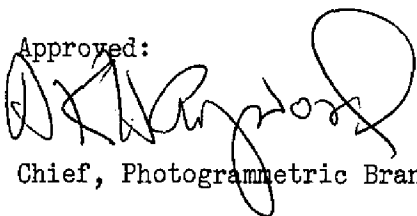
Billy H. Barnes  
Cartographer  
February, 1976

Approved for forwarding:



Joseph W. Vonasek  
Chief, Photogrammetric Branch, AMC

Approved:



Chief, Photogrammetric Branch JB



Chief, Coastal Mapping Div.

COMPARISON PRINT

Blue= T-5191  
Red= Chart 11537(426)  
Purple= H-9500(AHP-10-1-75)  
Brown = USGS

TP-00669

1:10,000 24

Marsh

17'

Ovhd cab

Marsh

Ma

Y=195,00

Marsh

Pipeline Area

77° 56' 30"

Marsh

34°

16' 30"

TANK

dolphin Piling

Pile

Dols

Piling

Foul

Piling

dolphin

Piling

Foul

Piling

d

Piling

Piling

Conc Platform

Foul

dolphin

Marsh

Marsh

Pond

Marsh

Piling

Y=190,000

34°

16'

Bulkhead

Bulkhead

Piling

Foul

Piling

Floating Dry Dock

Piling

Foul

Piling

Foul

Marsh

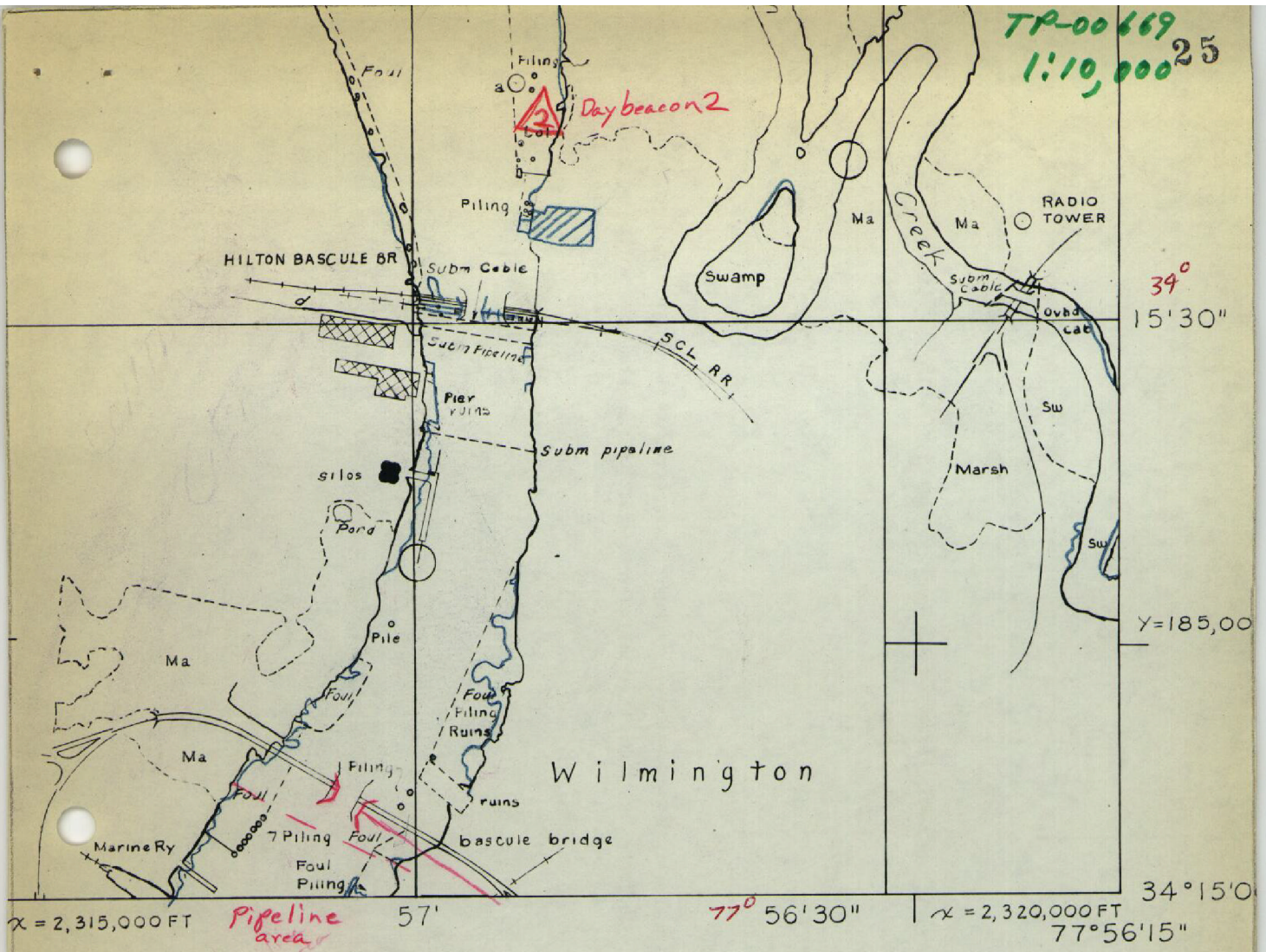
Ma

Marsh

Ma

SMT

TP-00669  
1:10,000<sup>25</sup>



$X = 2,315,000$  FT      $77^{\circ} 56' 30''$       $X = 2,320,000$  FT  
 57'      $77^{\circ} 56' 15''$

Control station of third-order or higher accuracy  
 Control station of less than third-order accuracy  
 Shows the outer limits of vegetation visible above water.  
 Shows the approximate mean high water.  
 Derived from aerial photographs

Oct. 1973  
 None  
 Feb. 1975  
 April 1975  
 Feb. 1976

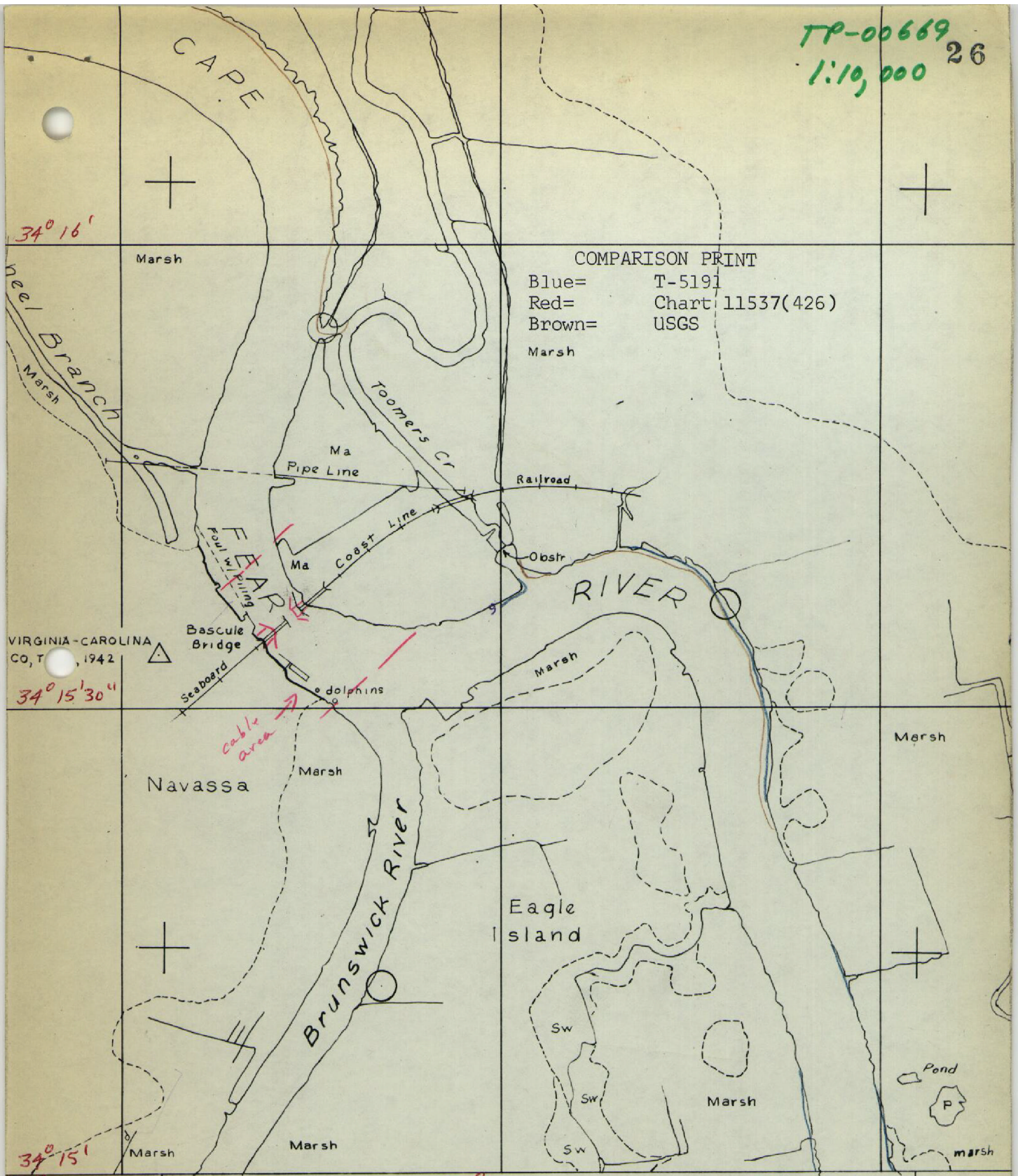
**COMPARISON PRINT**  
 Blue = T-5191  
 Red = Chart 11537(426)  
 P

NATIONAL OCEAN SURVEY  
 SHORELINE MANUSCRIPT  
 TP-00669  
 NORTH CAROLINA  
 LOWER CAPE FEAR RIVER  
 NESS CREEK

SCALE 1:10,000  
 (1 inch = 833.33 ft.)  
 CONTROL DATA  
 Polyconic projection: 1927 North American Datum  
 5,000 foot grid based on North Carolina plane coordinate system  
 Datum plane: Mean High Water

8225

TP-00669  
1:10,000 26

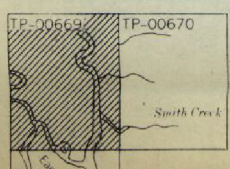


COMPARISON PRINT

Blue= T-5191  
Red= Chart 11537(426)  
Brown= USGS  
Marsh

VIRGINIA-CAROLINA  
CO, T, 1942

77°59'30"    x = 2,305,000 FT    77°59'    77°58'30"    x = 2,310,000 FT



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