

TP-00672

ORIGINAL

TP-00672

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-00672

Classification No. Edition No. 1

Field Edited Map

LOCALITY

State North Carolina

General Locality Lower Cape Fear River

Locality Town Creek

19 ³74 TO 19 75

REGISTRY IN ARCHIVES

DATE

NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN. DESCRIPTIVE REPORT - DATA RECORD		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP. <u>00672</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final (F.E.)</u> JOB PH. <u>CM-7218</u>
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, Norfolk, VA OFFICER-IN-CHARGE Jeffrey G. Carlen, CDR		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Part I Compilation - Feb 27, 1973 Part II Aerotriangulation - Mar 7, 1974 Compilation - July 15, 1974		Oct 5, 1973	
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 1:10,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
	OPERATIONS	NAME	DATE
1. AEROTRIANGULATION	BY	M. McGinley	None
METHOD: Analytic	LANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	R. Robertson	Jul, 1974
METHOD: Calcomp.	CHECKED BY	R. Robertson	Jul, 1974
3. STEREOSCOPIIC INSTRUMENT	PLANIMETRY BY	R. White	Sep, 1974
COMPILATION	CHECKED BY	L. Neterer	Sep, 1974
INSTRUMENT: Wild B-8	CONTOURS BY	NA	
SCALE: 1:15,000	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	R. White	Oct, 1974
	CHECKED BY	L. Neterer	Nov, 1974
METHOD: Smooth ink drafted	CONTOURS BY	NA	
	CHECKED BY	NA	
SCALE: 1:10,000	HYDRO SUPPORT DATA BY	NA	
	CHECKED BY	NA	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	L. Neterer	Nov, 1974
6. APPLICATION OF FIELD EDIT DATA	BY	J. Desch	Apr, 1975
	CHECKED BY	A. Shands	Apr, 1975
7. COMPILATION SECTION REVIEW	BY	A. Shands	Apr, 1975
8. FINAL REVIEW	BY	B. Barnes	Apr, 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. CARPE	SEP 1976

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

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

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
* 73C(C) 4612(I)-4614(I)	Oct 12,73	09:53	1:30,000	3.9 ft. above MLW
** 73C(C) 4896(I)-4898(I)	Oct 13,73	13:15	1:30,000	+0.2 ft. of MHW
** 73C(C) 6067(I)	Nov 10,73	13:01	1:30,000	+0.2 ft. of MLW
* 73C(C) 4530(I)-4532(I)	Oct 12,73	09:10	1:30,000	4.3 ft. above MLW
				MHW = 3.8 ft.

REMARKS
* Bridge and compilation photos
** Tide coordinated MHW photos are 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 compiled graphically from the above listed tide controlled photography. The MLW photos did not cover the entire compilation area and the mean low water line delineation was limited to the area covered.

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
TP-00671	TP-00673	TP-00674	No survey

REMARKS

TP-00672
HISTORY OF FIELD OPERATIONS

1. FIELD INSPECTION OPERATION FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	G. 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 (Triangulation Stations) BY G. Jamerson	Feb, 1975
	LOCATED (Field Methods) BY G. Jamerson	Feb, 1975
	IDENTIFIED BY G. Jamerson	Feb, 1975
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY BY NA <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY G. Jamerson	Feb, 1975
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED NA	2. VERTICAL CONTROL IDENTIFIED NA
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PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details) Field edit
73C 4896; 73C 4897; 73C 4898

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
1 landmark verified; 16 aids verified; 3 aids located

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 notes

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)
8 - Form 76-40
1 - Form 76-36A
1 - Form 76-36b
1 - Form 76-36D

I. MANUSCRIPT COPIES				
COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	Oct, 1974	Class III manuscript	Apr 13, 1975	Nov 13, 1974
Field edit applied compilation complete	Apr, 1975	Class I manuscript superseded	May 9, 1975	
Final Review	Apr, 1976			

II. LANDMARKS AND AIDS TO NAVIGATION			
1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH			
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
16		May 12, 1975	Aids for Charts
1		May 12, 1975	Landmark for Charts
1		May 12, 1975	Landmark to be Deleted
7		May 12, 1975	Aids to be Deleted

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 ⁷⁶⁻⁴⁶ ~~562~~ SUBMITTED BY FIELD PARTIES.

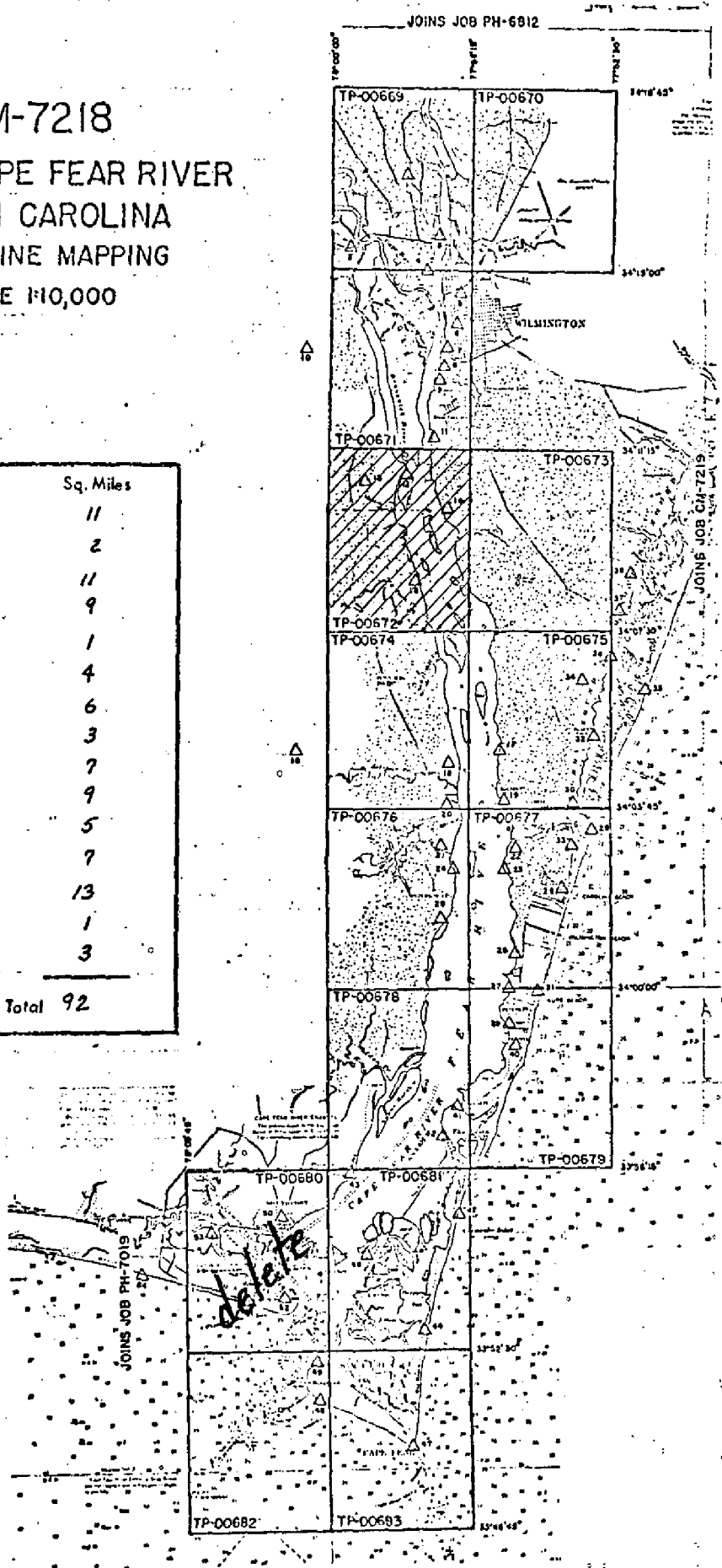
3. SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS: All data returned by field editor except Xerox copies of forms 76-36a, b, and d which were not needed and were destroyed.

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 110,000

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
Total 92	



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT TP-00672

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 and overlap some sections of 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 common to the October and November 1973 "tide controlled" photography for ordering 1:10,000 scale ratios.

Compilation was done at the Atlantic Marine Center in October and November, 1974 with the 1:30,000 scale bridging photography being used on the Wild B-8 to delineate inshore planimetry and to drop shoreline pass points common to the tide coordinated high and low water photography. The high and low water lines were then delineated graphically from this photography. The low water photography covered only the southeastern section of this map. The "tide coordinated" photography was based on predicted tides.

Field edit was done in February 1975.

Final review was done at the Atlantic Marine Center in April, 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.

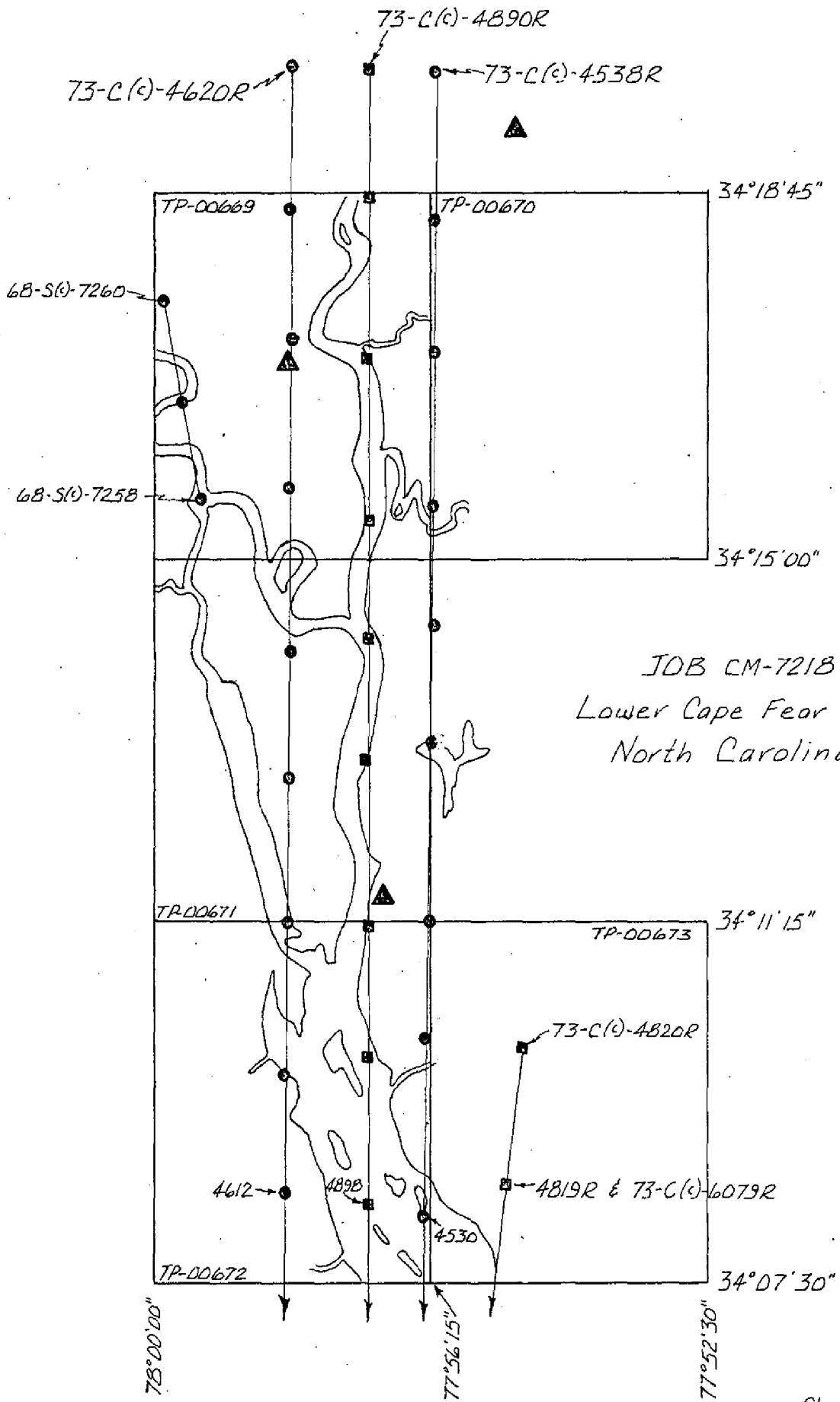
Submitted by,

Michael L. McGinley
Michael L. McGinley

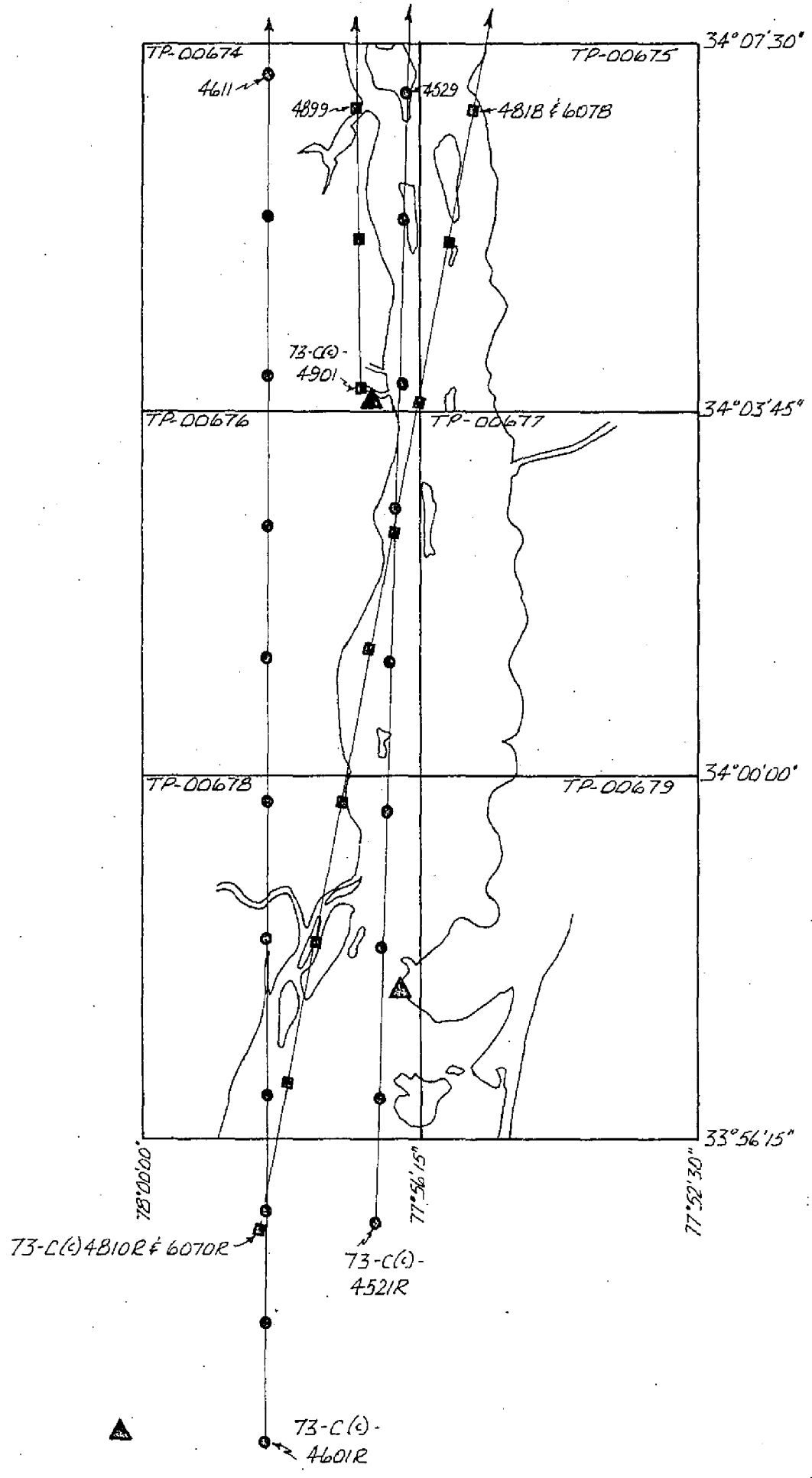
Approved by:

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.	JOB NO.	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	GEODETIC DATUM		GEOGRAPHIC POSITION		ORIGINATING ACTIVITY	
				COORDINATES IN FEET STATE _____ ZONE _____	N. A. 1927	ϕ LATITUDE λ LONGITUDE	Coastal Mapping Div-Norfolk	REMARKS FORWARD BACK	
TP-00672	CM-7218	G.P. Vol II Pg. 586		X=		ϕ 34° 09' 49.970"		1539.7	(309.0)
				Y=		λ 77° 56' 54.890"		1406.0	(130.9)
				X=					
				Y=					
				X=					
				Y=					
				X=					
				Y=					
				X=					
				Y=					
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				Y=					
				X=					
				Y=					
				X=					
				Y=					
				X=					
				Y=					
COMPUTED BY	A. C. Rauck, Jr.		DATE	COMPUTATION CHECKED BY				DATE	
LISTED BY	A. C. Rauck, Jr.		8/5/74	Frank P. Margiotta				8/5/74	
HAND PLOTTING BY	A. C. Rauck, Jr.		8/7/74	Frank P. Margiotta				8/5/74	
				HAND PLOTTING CHECKED BY					

COMPILATION REPORT
TP-00672

31. DELINEATION

Delineation was by the Wild B-8 stereoplotter for all details except the mean high and mean low water lines which were compiled graphically using "tide controlled" color infrared photographs ratioed to map scale. Coverage for the mean low water photography was limited to the southeastern part of the manuscript. The low waterline was delineated only in the area covered by the low water photos.

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 and mean low water lines were delineated from the "tide coordinated" photographs. The "tide coordinated" MLW photos did not cover the entire area.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

Appropriate copies of Form 76-40 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: Wilmington, NC, scale 1:24,000 dated 1970.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean Survey chart 11537 (426) scale 1:40,000, 13th edition, dated April 20, 1974.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

ITEMS TO BE CARRIED FORWARD

Submitted by:

Richard R. White
Richard R. White
Cartographic Technician
October 8, 1974

Approved:

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

ADDENDUM TO THE COMPILATION REPORT

TP-00672

FIELD EDIT

Field edit adequate - all questions asked were answered. Sketchbook position #27 (pile) could not be found on either the film or field edit paper ozalid, nor could any position description by the field editor be located. Position was plotted by compiler from 3-point fix data provided by field editor (third station labeled only "rear range", so position of pile may be incorrect, third station position was made to coincide with Stackhouse Range Rear Daybeacon position, but this was only an assumption on compiler's part).

Field editor noted on field edit paper ozalid, "See 73C(C)(1) 4898", at position $34^{\circ} 08' 40''$, $77^{\circ} 57' 20''$. No markings or notes could be found in this area on photo, nor were any obstructions, etc. visible. No additions were made to the manuscript in this vicinity.

Light at $34^{\circ} 09' 10''$, $77^{\circ} 57' 30''$ originally compiled, but not named. Field editor verified position, but did not submit 76-40 form; light is not charted and does not appear in 1975 Light List. Compiler added Light to 76-40 form.

Field editor submitted recovery card for station (Fourth Eastern Jetty Range Rear Light, Bn. 9, 1917), stating "station destroyed - light razed, but verified position of station on his 76-40 form. Compiler added station to deletion form and removed it from manuscript.

Joanne Desch
April 9, 1975

2 Oct. 1975

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP-00672

Barnards Creek

Brunswick River

Campbell Island

Cape Fear River

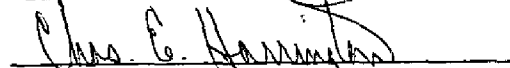
Eagle Island

Little Mallory Creek

Mallory Creek

Town Creek

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-10363 TP-00672			
1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
LON	LON	LON	LON
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	
LON	NA	NA	
8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
NA	XX	LON	LON
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
LON	LON	LON	LON
16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
LON	LON	LON	LON
PHYSICAL FEATURES			
20. WATER FEATURES	21. NATURAL GROUND COVER		22. PLANETABLE CONTOURS
LON	NA		NA
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
NA	NA	NA	LON
CULTURAL FEATURES			
27. ROADS	28. BUILDINGS	29. RAILROADS	30. OTHER CULTURAL FEATURES
LON	LON	XX	XX
BOUNDARIES			
31. BOUNDARY LINES		32. PUBLIC LAND LINES	
NA		NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES		34. JUNCTIONS	35. LEGIBILITY OF THE MANUSCRIPT
LON		LON	LON
36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
LON	LON	XX	LON
40. REVIEWER		SUPERVISOR, REVIEW SECTION OR UNIT	
Lowell O. Neterer, Jr. Nov 1, 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		SUPERVISOR	
J. Desch Apr 8, 1975		Albert C. Rauck, Jr.	
Reviewer: A. L. Shands Apr 22, 1975			
43. REMARKS			
Field edit applied from film & field edit ozalids, sketchbook & photos 730(C) (1) 4896 - 4898.			

FIELD EDIT REPORT
 JOB CM 7218
 LOWER CAPE FEAR RIVER
 MAPS TP-00672 and TP-00673

52. Adequacy of Compilation

Compilation was adequate. The MHWL was accepted as compiled per instructions received from the Chief, Coastal Mapping Division, dated May 28, 1974. The field work on these maps, except for the landmarks and two daybeacons, was done by Lt. George W. Jamerson. No attempt at "second guessing" the field editor was made by the writer of this report.

A pipeline crossing on TP-00672 at latitude $34^{\circ} 10'.7$, longitude $77^{\circ} 57'.5$ was overlooked during compilation. Attention was drawn to it on the field edit ozalid with cross-reference to the proper photograph.

Several submerged jetties were questioned on both maps. One of those questioned, at latitude $34^{\circ} 08'.4$, longitude $77^{\circ} 57'.2$, could not be found. It may still be extant, but too deeply submerged for visual location. See the current hydrography for verification or deletion of this object. The remaining jetties were indicated on the field edit ozalid and accurately delineated on the film ozalid of the manuscript.

Near Big Island Upper Range Rear Light on TP-00673 three piling were not mapped that are visible on photo 730 0068. They were indicated on the field edit ozalid and cross-referenced to the photograph. The "locate piles" question just to the west of the above light was dealt with on the film ozalid.

An overhead cable crossing is under construction at latitude $34^{\circ} 08'.8$, longitude $77^{\circ} 57'.0$ on TP-00672. Only the concrete piling for two of the towers were extant at the time of the field edit. These were located with sextant fixes, given position numbers, listed in a sketch book and plotted on the film ozalid of the manuscript. It will be noted that the film ozalids of both these maps make reference to position numbers. These numbers refer to sextant fixes and are to be found in the sketch book mentioned above. The three digit numbers on the right hand side of the page in the sketch book refer to the map number on which the object and/or objects are located. The three digit numbers on the left hand side of the ^{page} are the station numbers which are shown on the enclosed list of positions. This list of positions is to be used for all the maps in this project.

54. Recommendations

There are no recommendations.

56. Landmarks and Non-Floating Aids for Navigation

There is only one landmark on these maps. It was correctly compiled, verified by the field editor and entered on the Form 76-40 furnished the field editor by the compiling activity.

There are nineteen fixed aids to navigation on these maps. Sixteen of them were correctly compiled and entered as "position verified" on form 76-40. Of the remaining three, one was located by sextant fix and is listed as position # 21 in the sketch book above. The other two were located by angle and distance from a photo point. These two were indicated on Form 76-53, entered on Form 76-40 and indicated on the field edit ozalid.

57. Rocks, Reefs, and Shoals

There are no rocks or reefs, as defined, within the limits of these maps, although the submerged jetties mentioned in side heading 52 above make a fairly close approximation of reefs and are just as wicked to the unwary small boat operator. There are numerous shoals and shallow areas throughout the limits of both of these maps. See the current hydrography for deliniation of these areas.

58. Photography

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

59. Disposition of Data

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

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

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 LANDMARKS FOR CHARTS				ORIGINATING ACTIVITY <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 (If field party, ship or office) Coastal Mapping Div. AMC-Norfolk, VA		STATE North Carolina		LOCALITY Lower Cape Fear River		DATE April, 1975	
TO BE CHARTED <input checked="" type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED <input type="checkbox"/> The following objects HAVE <input checked="" type="checkbox"/> been inspected from seaward to determine their value as landmarks. OPR PROJECT NO.		HAVE <input checked="" type="checkbox"/> <input type="checkbox"/> JOB NUMBER CM-7218		DATUM N.A. 1927		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED	
CHARTING NAME RADIO TOWER		DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses) ht. = 355(358) ft.		POSITION LATITUDE ° / ' / '' D.M. Meters // D.P. Meters //		OFFICE 730(c)(I) 4897 10/13/73		FIELD V-Vis. 3/75	
				34 10 15.09 77 56 57.12 1463 1463		426 1235			

70 charts
5/9/75

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: Coast Guard Mapping Div.
STATE: North Carolina
LOCALITY: Lower Cape Fear River
DATE: April, 1975

OPR PROJECT NO.: 437
JOB NUMBER: CM-7218
SURVEY NUMBER: TP-00672

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

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION				D.P. Meters	OFFICE	FIELD	CHARTS AFFECTED
		LATITUDE		LONGITUDE					
		°	'	°	'				
DAY BEACON	Stackhouse Range Front Daybeacon	34	10	77	57	6.98	73C(c)(I) 4897 10/13/73	P-6-L 3/19/75	426 1235
DAY BEACON	Stackhouse Range Rear Daybeacon	34	10	77	57	5.04	73C(c)(I) 4897 10/13/73	P-6-L 3/19/75	426 1235
DAY BEACON	Stackhouse Daybeacon 1	34	10	77	57	20.18	73C(c)(I) 4897 10/13/73	F-4-8-L 1/75	426 1235
DAY BEACON	Stackhouse Daybeacon 2	34	10	77	57	20.89	73C(c)(I) 4897 10/13/73	F-4-8-L 1/75	426 1235
DAY BEACON	Stackhouse Daybeacon 6	34	10	77	57	15.19	73C(c)(I) 4897 10/13/73	F-4-8-L 1/75	426 1235
DAY BEACON	Stackhouse Daybeacon 7	34	10	77	57	10.11	73C(c)(I) 4897 10/13/73	F-4-8-L 1/75	426 1235
	Daybeacon 167	34	09	77	57	0.91		F-4-8-L 1/75	426 1235
	Daybeacon 170	34	09	77	57	0.28			

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)

Checked by field editor,
not in 1975 Light List.

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
LANDMARKS FOR CHARTS

<input type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE REVISED <input checked="" type="checkbox"/> TO BE DELETED	REPORTING UNIT <i>(Field Party, Ship or Office)</i> Coastal Mapping Div. AMC-Norfolk, VA	STATE North Carolina	LOCALITY Lower Cape Fear River	DATE April, 1975	ORIGINATING ACTIVITY <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 <i>(See reverse for responsible personnel)</i>
OPR PROJECT NO. 437	JOB NUMBER CM-7218	SURVEY NUMBER TP-00672	DATUM N.A. 1927		
CHARTING NAME TANK	DESCRIPTION <i>(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)</i> Tank no Longer extant	POSITION LATITUDE ° / ' " D.M. Meters 34 09.6	LONGITUDE ° / ' " D.P. Meters 77 58.6	METHOD AND DATE OF LOCATION <i>(See instructions on reverse side)</i> OFFICE FIELD position not verified ~ 3/75	CHARTS AFFECTED ~426 ~1235

To charts
5/9/75

NOAA FORM 76-40
(9-74)

Replaces C&GS Form 567.

NON-FLOATING AIDS

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

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

LOCALITY
Lower Cape Fear River

DATE
April, 1975

STATE
North Carolina

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

OFFICE

FIELD

CHARTS AFFECTED

DATUM
N.A. 1927

POSITION

LATITUDE

LONGITUDE

D.M. Meters

D.P. Meters

CHARTING NAME

DESCRIPTION
(Record reason for deletion of landmark or aid to navigation.
Show triangulation station names, where applicable, in parentheses)

REASON FOR DELETION

CHARTING NAME	REASON FOR DELETION	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	LATITUDE		LONGITUDE		D.P. Meters	CHARTS AFFECTED
			° / ' "	° / ' "	° / ' "	° / ' "		
LIGHT		Upper Brunswick Range Front Light	34 11	07.17	77 57	20.85	73C(c)(I) 4896	V-Vis. 1/75 426 1235
LIGHT		Fourth Eastern Jetty Range Rear Light	34 09	43.78	77 57	34.71	73C(c)(I) 4897	V-Vis. 1/75 426 1235
LIGHT		Lower Brunswick Range Front Light	34 09	46.70	77 57	45.41	73C(c)(I) 4897	V-Vis. 1/75 426 1235
LIGHT		Fourth Eastern Jetty Range Front Light	34 10	0.77	77 57	33.34	73C(c)(I) 4897	V-Vis. 1/75 426 1235
LIGHT		Lower Brunswick Range Rear Light	34 09	58.22	77 57	52.43	73C(c)(I) 4897	V-Vis. 2/75 426 1235
LIGHT		Cape Fear River Channel Light 49	34 08	21.74	77 56	56.83	73C(c)(I) 4898	V-Vis. 2/75 426 1235
LIGHT		Cape Fear River Channel Light 46	34 08	09.18	77 56	27.05	73C(c)(I) 4898	V-Vis. 2/75 426 1235
LIGHT		Cape Fear River Channel Light 45	34 08	04.87	77 56	35.01	73C(c)(I) 4898	V-Vis. 2/75 426 1235
LIGHT		Cape Fear River Channel Light 43 A	34 07	38.62	77 56	15.57	73C(c)(I) 4898	V-Vis. 2/75 426 1235
LIGHT		(Verified by field editor, but not charted nor included in 1975 Light List)	34-09	06.62	77-57	31.31	73C(c)(I) 4898	V-Vis. 2/75 426 1235

To charts
5/9/75

NOAA FORM 76-40 (8-74)		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION		ORIGINATING ACTIVITY		
NONFLOATING AIDS		FOR CHARTS		<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)		
REPLACES C&GS FORM 567.		LOCALITY		DATE		
<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 April, 1975		
REPORTING UNIT Coastal Mapping Div. AMC-Norfolk, VA		SURVEY NUMBER TP-00672		DATUM N.A. 1927		
OPR PROJECT NO. 437		JOB NUMBER CM-7218		DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)		
HAVE <input checked="" type="checkbox"/> BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS. HAVE <input type="checkbox"/> NOT		POSITION		METHOD AND DATE OF LOCATION (See instructions on reverse side)		
CHARTING NAME	DESCRIPTION	LATITUDE ° / ' / " D.M. Meters	LONGITUDE ° / ' / " D.P. Meters	OFFICE	FIELD	CHARTS AFFECTED
DAY-BEACON	Stackhouse Daybeacon 3	34 10.4	77 57.3		destroyed 3/75 2/75	426 1235
DAY-BEACON	Stackhouse Daybeacon 4	34 10.4	77 57.3		destroyed 3/75 2/75	426 1235
DAY-BEACON	Stackhouse Daybeacon 5	34 10.3	77 57.3		destroyed 3/75 2/75	426 1235
LIGHT	(Fourth Eastern Jetty Range Front Light Bn. 8, 1917)	34 10	77 57		triangulation destroyed 3/75 2/75	426 1235
LIGHT	(Upper Brunswick Range Front Light Bn. 5, 1917)	34 11	77 57		triangulation destroyed 3/75 2/75	426 1235
LIGHT	(Lower Brunswick Range Front Light Bn. 7, 1917)	34 09	77 57		triangulation destroyed 3/75 2/75	426 1235
LIGHT	(Fourth Eastern Jetty Range Rear Light, Bn. 9, 1917)	34 09	77 57		triangulation destroyed 3/75 2/75	426 1235
						23

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		OFFICE ACTIVITY REPRESENTATIVE	
		<input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'			
<i>Consult Photogrammetric Instructions No. 64.</i>			
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		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	
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 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75		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 III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75	
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.		**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.	

Replaces C&GS Form 567.

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!)

REPORTING UNIT: Coastal Mapping Div, AMC
 STATE: North Carolina
 LOCALITY: Lower Cape Fear River
 DATE: 6/23/76

OPR PROJECT NO. [] JOB NUMBER: CM-7218
 SURVEY NUMBER: TP-00672
 DATUM: N.A. 1927
 POSITION: LATITUDE: 34 08 LONGITUDE: 77 56
 (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)

CHARTING NAME	DESCRIPTION	LATITUDE		LONGITUDE		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED
		D.M. Meters	' / "	D.M. Meters	' / "	OFFICE	FIELD	
TOWER* (EAST)	Transmission tower (Under construction at time of field edit)	34 08	08	77 56	56	F-4-6-L		11537
TOWER* (WEST)	Transmission tower (Under construction at time of field edit)	34 08	08	77 57	57	F-4-6-L		11537

*These towers were added as landmarks by the Final Review activity. They were repositioned by the photo field party during field edit.

TYPE OF ACTION	RESPONSIBLE PERSONNEL	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	G. Jamerson	FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	Billy H. Barnes	<input checked="" type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' <i>(Consult Photogrammetric Instructions No. 64.)</i>		
OFFICE 1. 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	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	
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 5 - Field Identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75 *FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	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 III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 **PHOTOGAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.	

REVIEW REPORT TP-00672

SHORELINE

April, 1976

61. GENERAL STATEMENT:

See Summary, which is page six (6) 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 and T-5192, scale 1:20,000, drawn from photographs taken in 1933. Each of the non-floating aids which were located in 1917 have been torn down and moved to new locations. There are several bluffs shown for landmark value on these prior surveys. The bluffs are no longer distinguishable as landmark features and were not shown on the new map. An area south of the mouth of Brunswick River on the west bank of the Cape Fear River has been built eastward by depositing dredging spoil so that the width of the Cape Fear River has been decreased by one-half. Many small spoil banks in the middle of the Cape Fear were shown on the prior surveys. These small spoil banks have increased in size so that they are now major islands in the river. These and other significant differences are shown in blue on the comparison print. In the areas compared, TP-00672 supersedes T-5191 and T-5192 for nautical chart construction purposes. T-5191 and T-5192 are the latest registered prior surveys of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangle WILMINGTON, N.C., dated 1970, scale 1:24,000. Several non-floating aids were shown in their 1917 positions and were so marked on the comparison print. The quadrangle was an orthophoto mosaic and the shoreline could not be readily discerned. These and other significant differences are shown in brown on the comparison print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with the Preliminary Boat Sheets H-9500, (AHP-10-1-75), scale 1:10,000, dated 1975, and H-9502 (AHP-10-3-75), scale 1:10,000, dated 1975. There were no piles, etc. plotted on the boatsheets other than the ones shown on the Class III manuscript except for the remains of a light at $34^{\circ} 08'$ latitude, $77^{\circ} 56.7'$ longitude. These light remains were not dealt with by photogrammetry and should be accepted from hydrography. Lights 43A, 45 and 49 were displaced slightly from the photogrammetric position. The photogrammetric position is correct. These differences are shown in purple on the comparison print.

65. COMPARISON WITH NAUTICAL CHARTS:

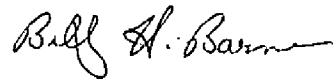
The area covered by this map is within the limits of NOAA Chart 11537 (426), scale 1:40,000, 14th edition, dated March 8, 1975. A comparison was made by enlarging the 1:40,000 scale chart to 1:10,000 scale. Cartographically, the chart is very inaccurate in its position of piles and submerged jetties. The chart should be corrected to the details as shown on the TP sheet.

STACKHOUSE DAYBEACONS 3, 4, and 5 as shown on the chart were not extant at the time of field edit. These and other significant differences are shown in red on the comparison print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

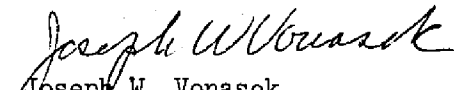
This map complies with Project Instructions (See Form 76-36b and Section 61 of this report), meets the requirements for Bureau Standards, and National Standards of Map Accuracy.

Reviewed by:

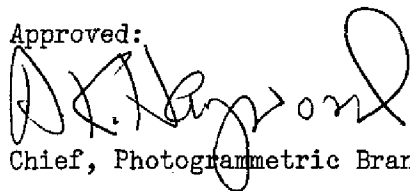



Billy H. Barnes
Cartographer

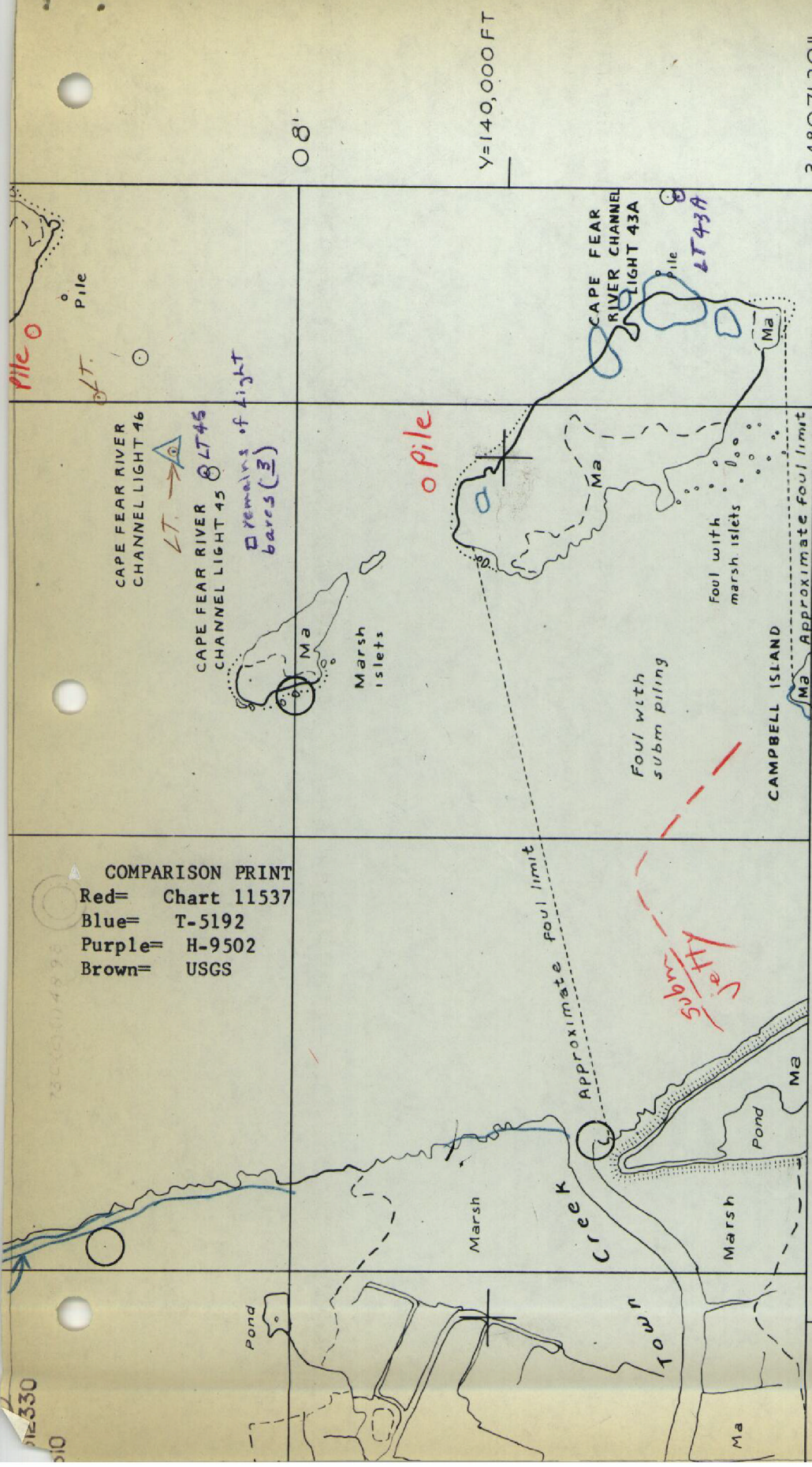
Approved for forwarding:


Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:


Chief, Photogrammetric Branch
Chief, Coastal Mapping Division

TP-00672
SCALE 1:10,000



COMPARISON PRINT
 Red= Chart 11537
 Blue= T-5192
 Purple= H-9502
 Brown= USGS

315,000 FT | 57'30" | 56'30" | 34°07'30"
 2,320,000 FT | 77°56'15"

NATIONAL OCEAN SURVEY
 SHORELINE MANUSCRIPT
 TP-00672
 NORTH CAROLINA
 LOWER CAPE FEAR RIVER
 TOWN 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

- △ Recoverable horizontal control station of third-order or higher accuracy
- Recoverable horizontal control station of less than third-order accuracy
- Approximate mean low water line

The light shoreline defines the outer limits of vegetation visible above approximate mean high water.
 The heavy shoreline defines the approximate mean high water.

Compiled by photogrammetric methods, from aerial photographs
 Date of Photography Oct. 1973 Nov. 1973
 Date of Field Inspection None
 Date of Field Edit Jan. - March 1975
 Date of Final Compilation April 1975
 Date of Final Review April 1976

17-00672
1:10,000

Bluff

RIVER ROAD

Marsh

Foul with Ma

30

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

Platform PA

34° 09'

Tower under construction

Jetty (1)

Ma

34° 08' 30"

CAPE FEAR RIVER CHANNEL LIGHT 49

LT. 49

COMPARISON PRINT
Red = Chart 11537
Blue = T-5192
Brown = USGS
Purple = H-9502

145° 44'

Jetty

Jetty (2)

Piling

LIMITS OF LOW WATER PHOTOGRAPHY

RIVER

Tower under construction

Foul with

Piling (2)

FEAR LIGHT

Marsh

Marsh islets

Ma

77° 57' 30"

Bluff

Piling

Piling

Piling

Piling

Marsh islets

Marsh

Ma

Piling (2)

Road

Bluff

TP-00672
SCALE 1:10,000

31

Barnards Creek

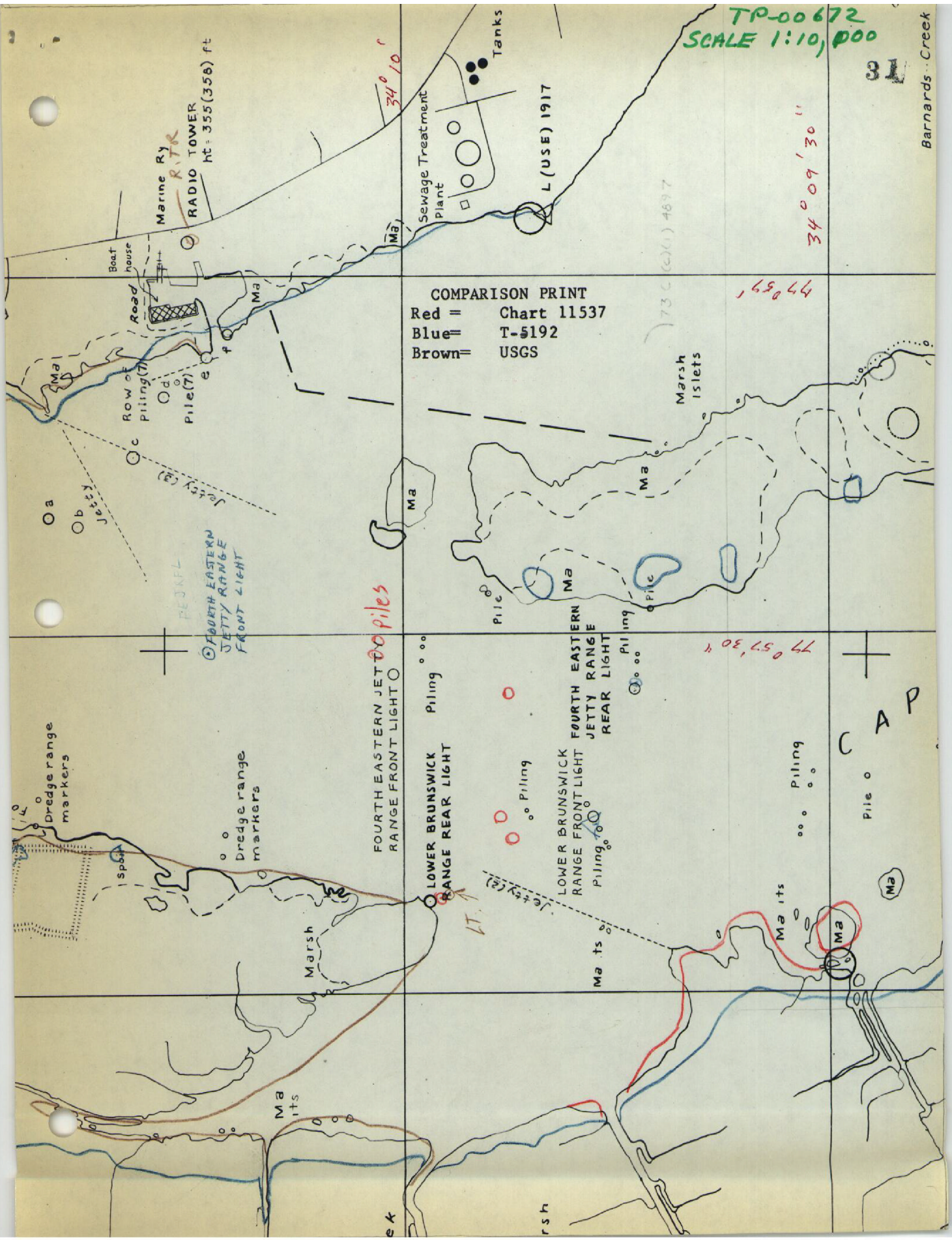
COMPARISON PRINT
Red = Chart 11537
Blue = T-5192
Brown = USGS

piles

47° 09' 30"

79° 05' 30"

CAP



TP-00672
SCALE 1:10,000

32

34° 10' 30"

34° 11'

X = 2, 32

79° 57'

79° 57' 30"

X = 2, 315, 000 FT

OINS TP-0067.1 58'

COMPARISON PRINT
Red= Chart 11537
Blue= T-5191
Brown= USGS

32100

032101

032111

032110

- NON-FLOATING AIDS TO NAVIGATION
- a STACKHOUSE DAYBEACON 1
 - b STACKHOUSE DAYBEACON 2
 - c STACKHOUSE DAYBEACON 6
 - d STACKHOUSE DAYBEACON 7
 - e STACKHOUSE RANGE FRONT
 - f STACKHOUSE RANGE REAR D

