

TP-00675

TP-00675

NOAA FORM 76-35	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
<b>DESCRIPTIVE REPORT</b>	
Type of Survey <u>Shoreline</u>	
Job No. <u>CM-7218</u>	Map No. <u>TP-00675</u>
Classification No.	Edition No. <u>1</u>
Field Edited Map	
LOCALITY	
State <u>North Carolina</u>	
General Locality <u>Lower Cape Fear River</u>	
Locality <u>Doctor point</u>	
<hr/> 19 <sup>3</sup> <u>72</u> TO 1975 <hr/>	
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>00675</u>  MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final (F.E.)</u> JOB <u>CM-7218</u>
<b>DESCRIPTIVE REPORT - DATA RECORD</b>		PHOTOGRAMMETRIC OFFICE <b>Coastal Mapping Division, Norfolk, VA</b>	
OFFICER-IN-CHARGE <b>Jeffrey G. Carlen, CDR.</b>		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__	
<b>I. INSTRUCTIONS DATED</b>			
1. OFFICE		2. FIELD	
Part I Compilation Feb. 27, 1973		Oct., 1973	
Part II Aerotriangulation Mar. 7, 1974 Compilation July 15, 1974			
<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 checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify)	
3. MAP PROJECTION  <div style="text-align: center;">Polyconic</div>		4. GRID(S) STATE <u>North Carolina</u> ZONE _____	
5. SCALE  <div style="text-align: center;">1:10,000</div>		STATE _____ ZONE _____	
<b>III. HISTORY OF OFFICE OPERATIONS</b>			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY <u>M. McGinley</u> METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY _____			<u>None</u>
2. CONTROL AND BRIDGE POINTS PLOTTED BY <u>R. Robertson</u> METHOD: <u>Calcomp.</u> CHECKED BY <u>R. Robertson</u>			<u>Jul. 1974</u>
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY <u>R.R. White</u> COMPILATION CHECKED BY <u>L.O. Neterer</u> INSTRUMENT: <u>Wild B-8</u> CONTOURS BY <u>NA</u> SCALE: <u>1:15,000</u> CHECKED BY <u>NA</u>			<u>Sep. 1974</u>
4. MANUSCRIPT DELINEATION PLANIMETRY BY <u>J.R. Minton</u> CHECKED BY <u>L.O. Neterer</u> METHOD: <u>Smooth Ink Drafted</u> CONTOURS BY <u>NA</u> CHECKED BY <u>NA</u> SCALE: <u>1:10,000</u> HYDRO SUPPORT DATA BY <u>NA</u> CHECKED BY <u>NA</u>			<u>Oct. 1974</u>
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY <u>L.O. Neterer</u>			<u>Oct. 1974</u>
6. APPLICATION OF FIELD EDIT DATA BY <u>Charles Parker</u> CHECKED BY <u>A.L. Shands</u>			<u>Apr. 1975</u>
7. COMPILATION SECTION REVIEW BY <u>A.L. Shands</u>			<u>Apr. 1975</u>
8. FINAL REVIEW BY <u>Billy H. Barnes</u>			<u>Jun. 1976</u>
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY _____			
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY <u>S. BLANKENBAKER</u>			<u>SEPT. 76</u>
11. MAP REGISTERED - COASTAL SURVEY SECTION BY <u>R. T. CATR</u>			<u>SEP. 1976</u>

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 <input checked="" type="checkbox"/>	(P) PANCHROMATIC	ZONE Eastern	<input checked="" type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES (Campbell Island)		(I) INFRARED <input checked="" type="checkbox"/>		MERIDIAN 75th	<input type="checkbox"/> DAYLIGHT
<input type="checkbox"/> REFERENCE STATION RECORDS					
<input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY					
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
* 73C(C)4527(I) thru 4529(I)	12 OCT 73	09:10	1:30,000	4.3 ft. above MLW	
** 73C(C)4816(I) thru 4818(I)	15 OCT 73	12:00	1:30,000	+0.2 ft. of MHW	
** 73C(C)6068(I) thru 6070(I)	10 NOV 73	13:04	1:30,000	+0.2 ft. of MLW	
M.H.W. = 3.8 ft.					

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

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled graphically from office interpretation of the tide coordinated infrared photographs listed in 1 above.

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

The mean low water line was compiled graphically from office interpretation of the tide coordinated infrared photographs listed in 1 above.

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 TP-00673	EAST CM-7219 TP-00703	SOUTH TP-00677	WEST TP-00674
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REMARKS  
Junctions Are In Agreement.

TP-00675

HISTORY OF FIELD OPERATIONS

I.  FIELD INSPECTION OPERATION  FIELD EDIT OPERATION.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	George W. Jamerson	Feb. 1975
2. HORIZONTAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	NA NA NA	
3. VERTICAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	George W. Jamerson George W. Jamerson George W. Jamerson	Feb. 1975 Feb. 1975 Feb. 1975
4. LANDMARKS AND AIDS TO NAVIGATION RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	NA	
5. GEOGRAPHIC NAMES INVESTIGATION TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input type="checkbox"/> NO INVESTIGATION		
6. PHOTO INSPECTION CLARIFICATION OF DETAILS BY	George W. Jamerson	Feb. 1975
7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY	NA	

II. SOURCE DATA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details) **Field edit**

730 6068; 730 6069

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

2 landmarks verified; 8 fixed 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)

3 - form 76-40

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 Superseded	4/13/75	11/13/74
Compilation complete field edit applied	Apr. 1975	Class I Manuscript Superseded	5/9/75	
Final Review	Jul. 1976			

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
11		5/12/75	Aids for charts
2		5/12/75	Landmarks for charts
6		5/12/75	Aids to be Deleted

2.  REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 5/12/75  
 3.  REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

III. FEDERAL RECORDS CENTER DATA

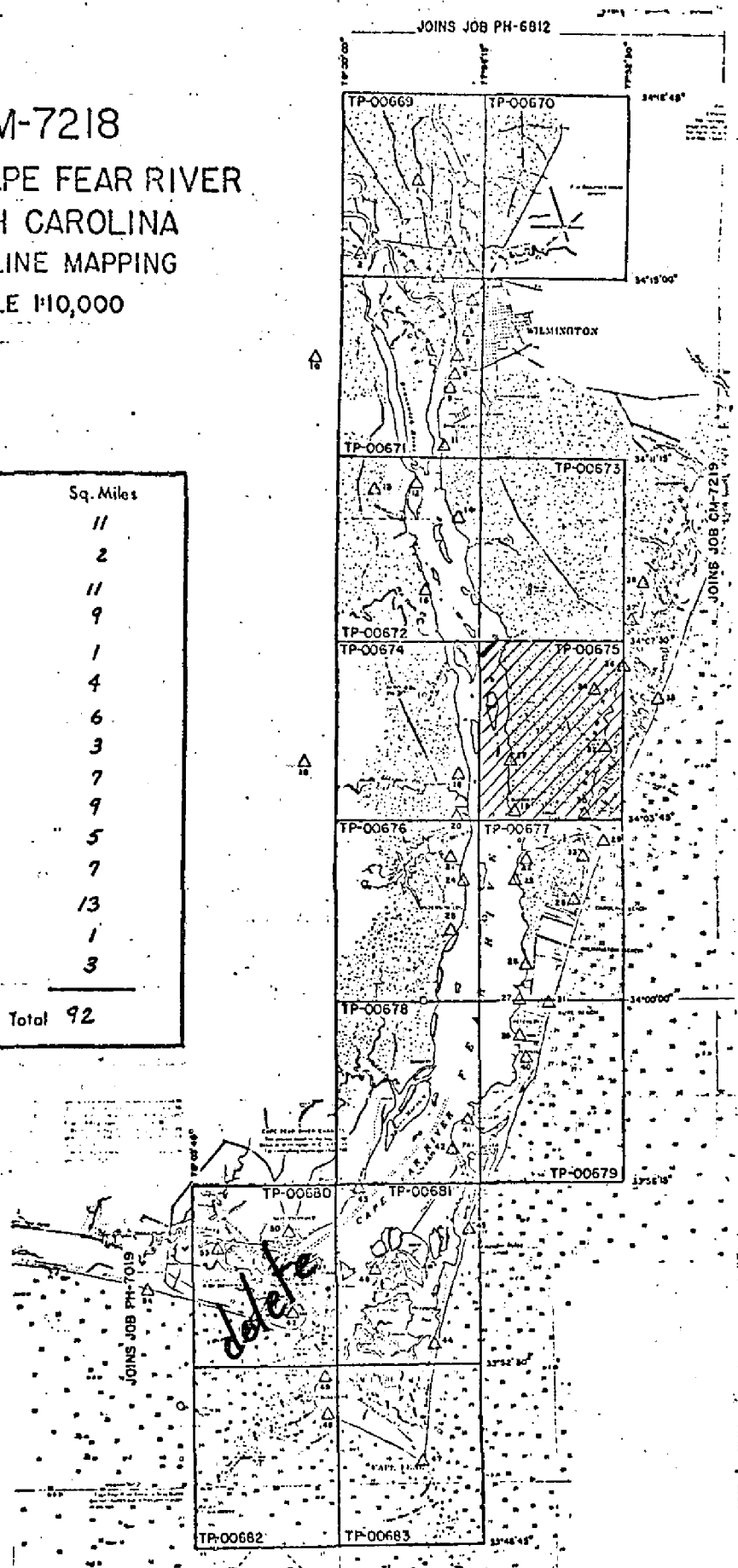
1.  BRIDGING PHOTOGRAPHS;  DUPLICATE BRIDGING REPORT;  COMPUTER READOUTS.  
 2.  CONTROL STATION IDENTIFICATION CARDS;  FORM NOS ~~35X~~ SUBMITTED BY FIELD PARTIES.  
 3.  SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.  
 ACCOUNT FOR EXCEPTIONS:  
 4.  DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: \_\_\_\_\_

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

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY  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-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-00675

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 1:30,000 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 "tide controlled" photos from which the mean high water line and mean low water lines were delineated graphically. These "tide controlled" photos were based on predicted tides rather than staff readings.

Field edit was done in February 1975.

Final review was done at the Atlantic Marine Center in July 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,

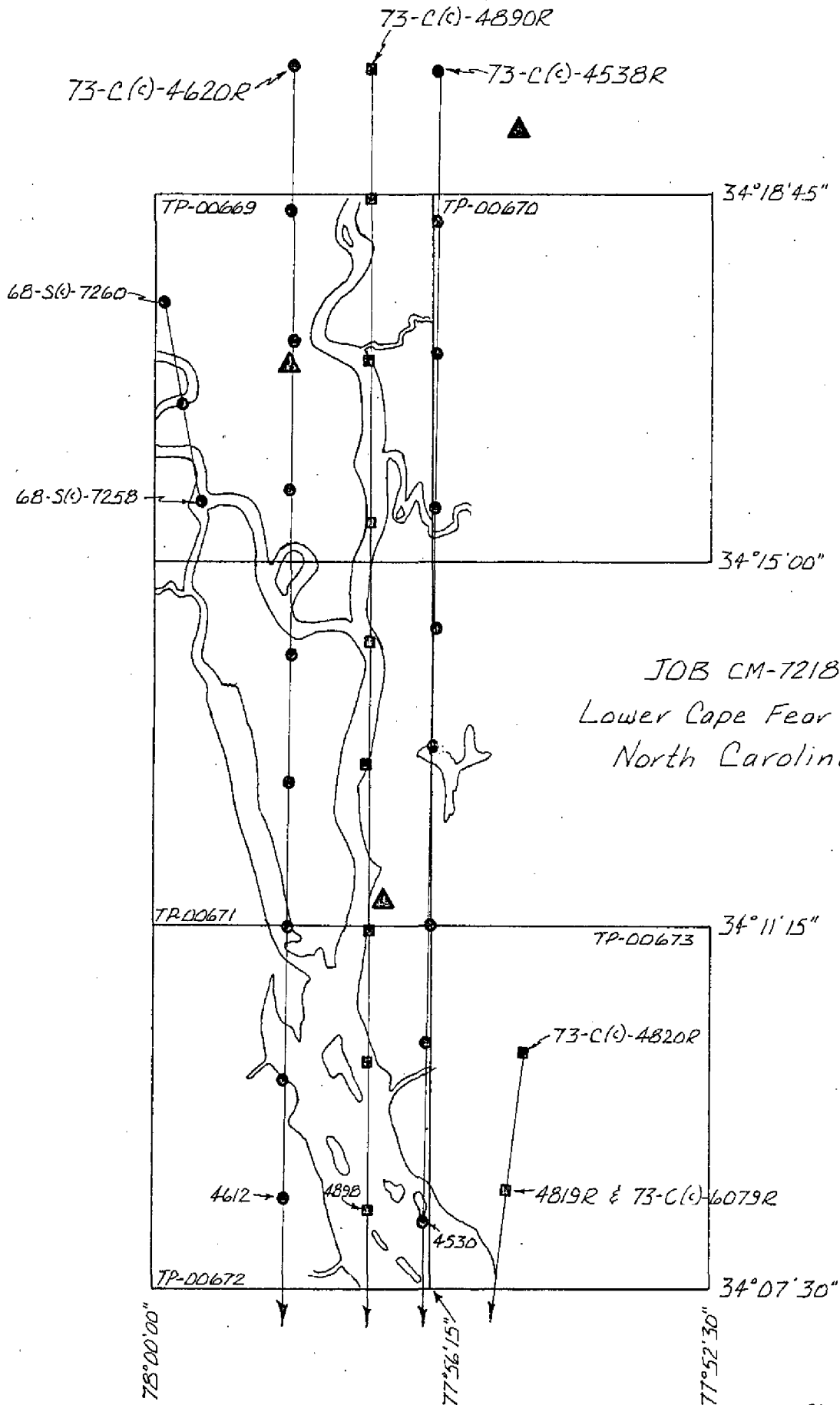
*Michael L. McGinley*  
Michael L. McGinley

Approved by:

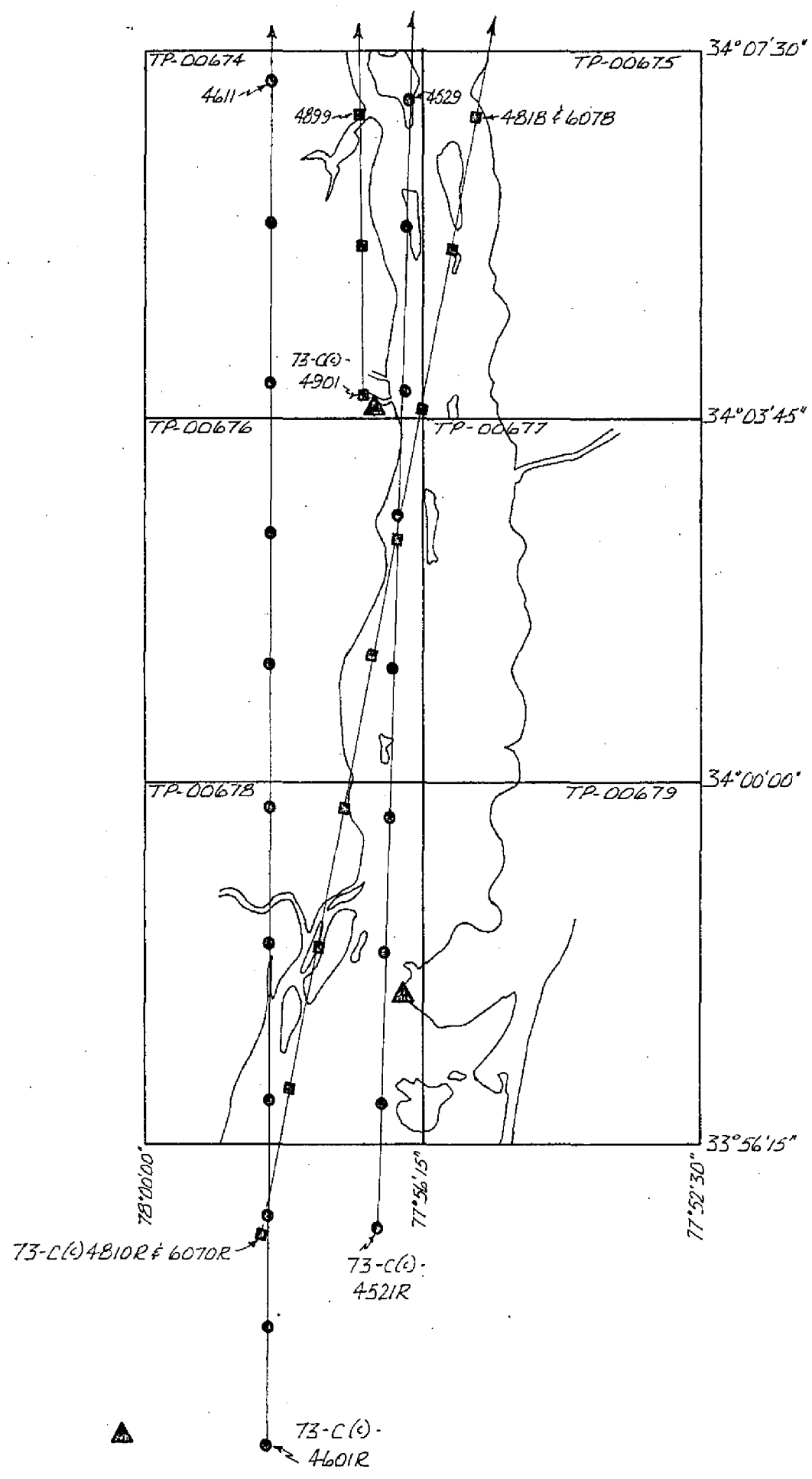
*John D. Perrow, Jr.*

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.		GEODETTIC DATUM		ORIGINATING ACTIVITY		REMARKS	
TP-00675		CM-7218		N.A. 1927				Forward Back	
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS		
			STATE	ZONE	φ	λ			
A(USE), 1917	G.P. Vol. III P. 530		X=	North Carolina	φ 34 04	11.439	352.4	(1496.3)	
			Y=		λ 77 55	31.151	798.8	(739.7)	
			X=		φ				
			Y=		λ				
			X=		φ				
			Y=		λ				
			X=		φ				
			Y=		λ				
			X=		φ				
			Y=		λ				
			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 8/5/74	COMPUTATION CHECKED BY Frank Margiotta				DATE 8/7/74		
LISTED BY		DATE	LISTING CHECKED BY				DATE		
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY				DATE		

## COMPILATION REPORT

TP-00675

31. DELINEATION

Delineation was by the Wild B-8 stereoplotter, using 1:30,000 scale color infrared photography. The mean high and mean low water lines were compiled graphically from "tide controlled" photography using control established from the B-8 models.

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 low water lines were delineated from the "tide coordinated" photographs.

36. OFFSHORE DETAILS

Offshore details were compiled from office interpretation of the photographs.

37. LANDMARKS AND AIDS

Preliminary Forms 76-40, Nonfloating Aids or Landmarks for Charts were prepared by the Compilation Office and forwarded to the Field Editor and/or the Hydrographer for verification, location, or deletion.

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: CAROLINA BEACH, N.C., scale 1:24,000, dated 1970.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean Survey chart: No. 11437(426), scale 1:40,000, 12th ed., dated April 20, 1974.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

*James R. Minton*  
J.R. Minton  
Carto. Tech., Oct. 18, 1974

Approved:

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

ADDENDUM TO THE COMPILATION REPORT

TP-00675

FIELD EDIT

The field editor failed to execute the necessary forms 76-40. Among the aids to navigation on this manuscript, are 5 Beacons which were triangulation stations established in 1917.

During compilation it was obvious that all 5 had been moved from their Geographic position. This fact was called to the attention of the editor, with instructions to delete and verify the new positions. These new photogrammetric positions were verified by the editor, but he neglected to submit the necessary forms deleting the old positions.

2 Oct. 1975

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

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

TP-00675

Cape Fear River

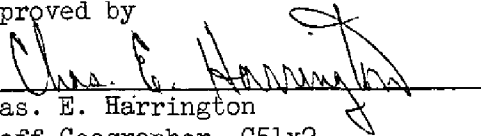
Doctor Point

Keg Island

Lords Creek

Mott Creek

Approved by

  
Chas. E. Harrington  
Staff Geographer--C51x2



FORM C&GS-1002 (9-68)		U.S. DEPARTMENT OF COMMERCE ESSA COAST AND GEODETIC SURVEY	
<b>PHOTOGRAMMETRIC OFFICE REVIEW</b> T-00675			
1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
LON, JR.	LON, JR.	LON, JR.	LON, JR.
<b>CONTROL STATIONS</b>			
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, JR.	NA		NA
8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
NA	X X	LON, JR. Not dated	Used for Hydro Support
<b>ALONGSHORE AREAS (Nautical Chart Data)</b>			
12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
LON, JR.	LON, JR.	LON, JR.	X X
16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
LON, JR.	LON, JR.	LON, JR.	X X
<b>PHYSICAL FEATURES</b>			
20. WATER FEATURES		21. NATURAL GROUND COVER	22. PLANETABLE CONTOURS
LON, JR.		NA	NA
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
NA	NA	NA	
<b>CULTURAL FEATURES</b>			
27. ROADS	28. BUILDINGS	29. RAILROADS	30. OTHER CULTURAL FEATURES
LON, JR.	LON, JR.	X X	X X
<b>BOUNDARIES</b>			
31. BOUNDARY LINES		32. PUBLIC LAND LINES	
NA		NA	
<b>MISCELLANEOUS</b>			
33. GEOGRAPHIC NAMES		34. JUNCTIONS	35. LEGIBILITY OF THE MANUSCRIPT
LON, JR.		LON, JR.	LON, JR.
36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
LON, JR.	LON, JR.	X X	LON, JR.
40. REVIEWER		SUPERVISOR, REVIEW SECTION OR UNIT	
Lowell O. Neterer, Jr. 10/23/74		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	
Charles Parker 4/1975		Albert C. Rauck, Jr.	
Reviewed: A.L. Shands 4/1975			
43. REMARKS			
Field edit was applied to manuscript from the field edit ozalids, photos 73C(C)6068 & 6069(I), also from Forms 76-40 for ldmks & aids (see field edit report).			

FIELD EDIT REPORT  
JOB CM 7218  
LOWER CAPE FEAR RIVER  
MAPS TP-00674 and TP-00675

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 were done by Lt. George W. Jamerson. The writer of this report made no attempt to "second guess" The field editor.

Very little was omitted during the compilation of these two sheets. A few piling were omitted in the vicinity of Kendall Wharf, East Gable, 1917 which were visible on photograph 73C 6071. Also six piling around Upper Midnight Channel North Range Rear Light were not compiled. These piling were also visible on the aforementioned photograph. They were indicated on the field edit ozalid with appropriate cross-references.

Several piling were located by sextant fix and indicated on the field edit ozalid with cross-references to the film ozalid. These fixes are listed in a sketch book. For a discussion of these fixes see the field edit report for maps TP-00672 and TP-00673.

There are several "foul" areas to the west of Campbell Island. See the current hydrography for the numerous submerged piling in these areas.

54. Recommendations

IT would be a time saving idea not to plot the triangulated positions of lights and daybeacons when they are obviously different from the compiled location.

56. Landmarks and Non-Floating Aids to Navigation

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

There are twelve fixed aids within the limits of these two maps. Nine of them were correctly compiled and were entered on the form 76-40 furnished by the compiling activity as "position verified". The three remaining aids, all daybeacons, were located by sextant fix, were plotted on the film of the manuscript and indicated on the field edit ozalid with appropriate cross-references. The sextant fixes are listed in the sketch book mentioned under side heading 52 above. The daybeacons were entered on the Form 76-40 mentioned above as "F.4.c".

ORTON COVE UPPER RANGE REAR LIGHT BN 17,1917 is no longer extant. The platform remains and should be charted as just that. The light was deleted on form 76-40 which is

included with this report.

57. Rocks, Reefs, and Shoals:

There are no rocks or reefs, as defined on these two maps. Numerous shoals and shallow areas exist, but no effort was made to delineate them due to the nearly concurrent hydrography being performed. For shoals and shallow areas see the current hydrography.

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

70 charts  
5/19/75

NOAA FORM 76-40  
(8-74)

Replaces C&GS Form 567.

NONFLOATING AIDS

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

STATE

LOCALITY  
Lower Cape Fear River

DATE

April, 1975

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)

The following objects HAVE  BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.

OPR PROJECT NO. 437

JOB NUMBER

CM-7218

DATUM

N.A. 1927

SURVEY NUMBER

TP-00675

CHARTING NAME

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

DATUM

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

CHARTS AFFECTED

LATITUDE

LONGITUDE

FIELD

OFFICE

CHARTS AFFECTED

34 04

45.848

77 55

36.118

73C(c)6069 (I)

Destroyed 2/75

426

34 04

12.168

77 55

53.924

73C(c)6069 (I)

Submitted by field editor

426

34 05

11.970

77 55

50.150

73C(c)6069 (I)

Submitted by field editor

426

34 05

44.583

77 55

1285.7

73C(c)6069 (I)

Submitted by field editor

1235

34 06

1373.6

77 55

41.473

73C(c)6069 (I)

Submitted by field editor

426

34 07

54.398

77 55

1063.1

73C(c)6069 (I)

Submitted by field editor

1235

34 07

1676.1

77 55

43.145

73C(c)6069 (I)

Submitted by field editor

426

34 07

22.011

77 55

1105.7

73C(c)6069 (I)

Submitted by field editor

1235

34 07

678.2

77 55

01.148

73C(c)6069 (I)

Submitted by field editor

426

34 07

29.4

77 55

29.4

73C(c)6069 (I)

Submitted by field editor

1235

To charts  
5/8/75

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				ORIGINATING ACTIVITY	
<input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED		REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Div., North AMG-Norfolk, VA		LOCALITY Lower Cape Fear River		<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)	
The following objects HAVE <input checked="" type="checkbox"/> HAVE NOT <input type="checkbox"/> been inspected from seaward to determine their value as landmarks.		DATE April, 1975		METHOD AND DATE OF LOCATION (See instructions on reverse side)			
OPR PROJECT NO. 437		SURVEY NUMBER TP-00675		DATUM N.A. 1927		CHARTS AFFECTED	
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				
LIGHT	Cape Fear River Channel Light 43 ✓	34 07	77 56	730(c)6068 (I)	V-Vis. 2/75	426 1235	
LIGHT	Big Island Lower Range Front Light ✓	34 07	77 56	730(c)6068 (I)	V-Vis. 2/75	426 1235	
LIGHT	Big Island Lower Range Rear Light ✓	34 06	77 55	730(c)6069 (I)	V-Vis. 2/75	426 1235	
LIGHT	Lower Liliput Range Rear Light ✓	34 05	77 55	730(c)6069 (I)	V-Vis. 2/75	426 1235	
LIGHT	Lower Liliput Range Front Light ✓	34 05	77 55	730(c)6069 (I)	V-Vis. 2/75	426 1235	
LIGHT	Cape Fear River Channel Light 37 ✓	34 04	77 56	730(c)6069 (I)	V-Vis. 2/75	426 1235	
LIGHT	Upper Liliput Range Front Light	34 04	77 55	730(c)6069 (I)	V-Vis. 2/75	426 1235	
						20	

To charts  
5/19/75

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**

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., North Carolina  
 State: North Carolina  
 Locality: Lower Cape Fear River  
 Date: April, 1975

OPR PROJECT NO. 437  
 JOB NUMBER CM-7218  
 SURVEY NUMBER TP-00675  
 DATUM N.A. 1927

DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)  
 Wilmington Short Cut Daybeacon 12  
 Wilmington Short Cut Daybeacon 9  
 Wilmington Short Cut Daybeacon 7  
 Wilmington Short Cut Light 10

CHARTING NAME	LATITUDE D.M. Meters	LONGITUDE D.P. Meters	POSITION		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED
			D.M. Meters	D.P. Meters	OFFICE	FIELD	
DAY BEACON	34 04	77 55	31.51 971	52.41 1344	F-4-8-L 2/75	426 1235	
DAY BEACON	34 04	77 55	02.95 91	44.80 1149	F-4-8-L 2/75	426 1235	
DAY BEACON	34 03	77 55	46.73 1440	44.41 1139	F-4-8-L 2/75	426 1235	
LIGHT 10	34 04	77 55	17.01 524	40.01 1026	V-Vis. 2/75	426 1235	



## REVIEW REPORT TP-00675

## SHORELINE

July 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-5192 and T-5194, scale 1:20,000, drawn from photographs taken in 1933. Significant differences are noted in blue on the comparison print. The most noticeable is the formation of several new islands north and south of Keg Island. These were formed by spoil from dredging. In the areas compared, TP-00675 supersedes T-5192 and T-5194 for nautical chart construction purposes. T-5192 and T-5194 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 CAROLINA BEACH, N.C., scale 1:24,000, dated 1970. Differences are shown in brown on the comparison print.



64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with the Preliminary Boat Sheet H-9502 (AHP-10-3-75), scale 1:10,000, dated 1975. A piling shown at latitude  $34^{\circ} 05.0'$  longitude  $77^{\circ} 55.5'$  could not be seen on the photographs and was not dealt with by the field editor so it was not added to the TP sheet. A pier in ruins at latitude  $34^{\circ} 04.2'$  longitude  $77^{\circ} 55.5'$  is apparently mispositioned on the boat sheet. It was compiled from 1973 photography in its present position on the TP sheet. Its position on the TP sheet fits the description given for a triangulation station A (USE) 1917 which states that the pier is approximately 25 meters south of the station. 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. There are two piers in ruins shown on the chart. One is at Doctor Point and was added to the TP sheet in Final Review. It was visible on the photograph. The other pier in ruins was shown at latitude  $34^{\circ} 03.8'$  longitude  $77^{\circ} 55.4'$ . This pier was not shown on the preliminary boat sheet, and was not dealt with by the field editor. There was not enough detail visible on the 1973 photography to delineate the pier in ruins but there is enough evidence visible to warrant showing it on the chart in the position previously published. This and other significant differences are shown in red on the comparison print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

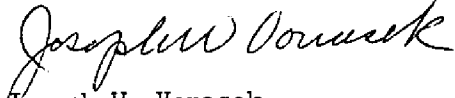
This map complies with Project Instructions (See Form 76-36b Section 61 of this report), meets the requirements for Bureau Standards, and National Standards of Map Accuracy.

Reviewed by:

*Billy H. Barnes*

Billy H. Barnes  
Cartographer

Approved for forwarding:

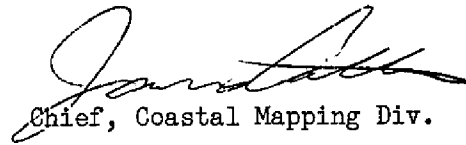


Joseph W. Vonasek  
Chief, Photogrammetric Branch, AMC

Approved:



Chief, Photogrammetric Branch, AMC



Chief, Coastal Mapping Div.

TP-00675 26  
Scale 1:10,000

Piling 34-05-00

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

COMPARISON PRINT

Red= Chart 11537  
Blue= T-5194 & T-5192  
Purple= H-9502 (AHP-10-3-75)  
Brown= USGS QUAD

CAPE FEAR RIVER  
CHANNEL LIGHT 37

WILMINGTON SHORT CUT  
DAYBEACON 12

RANGE Piling

Piling Marker

WILMINGTON SHORT CUT  
DAYBEACON 9

WILMINGTON SHORT CUT  
LIGHT 10

Pier ruins  
Pier in ruins  
Pier ruins

Doctor Point

(ACUSE)  
1917

Mal road

34-04-00"

This island is not  
on T-sheet

WILMINGTON SHORT CUT  
DAYBEACON 7

34-03-45

77-55-30

Pier ruins

77-55-00

LORAN TOWER  
ht. = 644 ft.

LORAN TOWER  
ht. = 644 ft.

5' X = 2,325,000 FT | 55' 30" | 55' X = 2,330,000

345'

TP-00675  
Scale 1:10,000

77° 55'

34° 06' 30"

77° 56' 15"

77° 56'

Piling Marker

Piling Marker

34° 06'

F  
E  
A  
R

34° 05' 30"

Marsh Islands

Key Island

Marsh

Marsh Islets

LOWER LILIPUT RANGE REAR LIGHT

Piling

New Island

LOWER LILIPUT RANGE FRONT LIGHT

Piling

Marsh

Marsh

Ma

Ma

Ma

Ma

Marsh

Ma

Marsh

Marsh

Marsh

Marsh

RIVER

ROAD

Pier

Marsh

Creek

Marsh

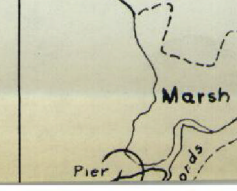
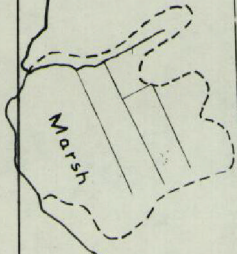
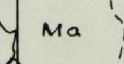
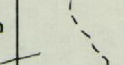
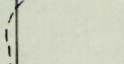
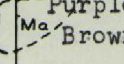
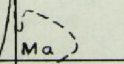
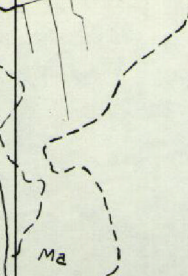
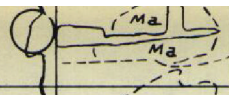
Marsh

Marsh

Marsh

Marsh

Marsh



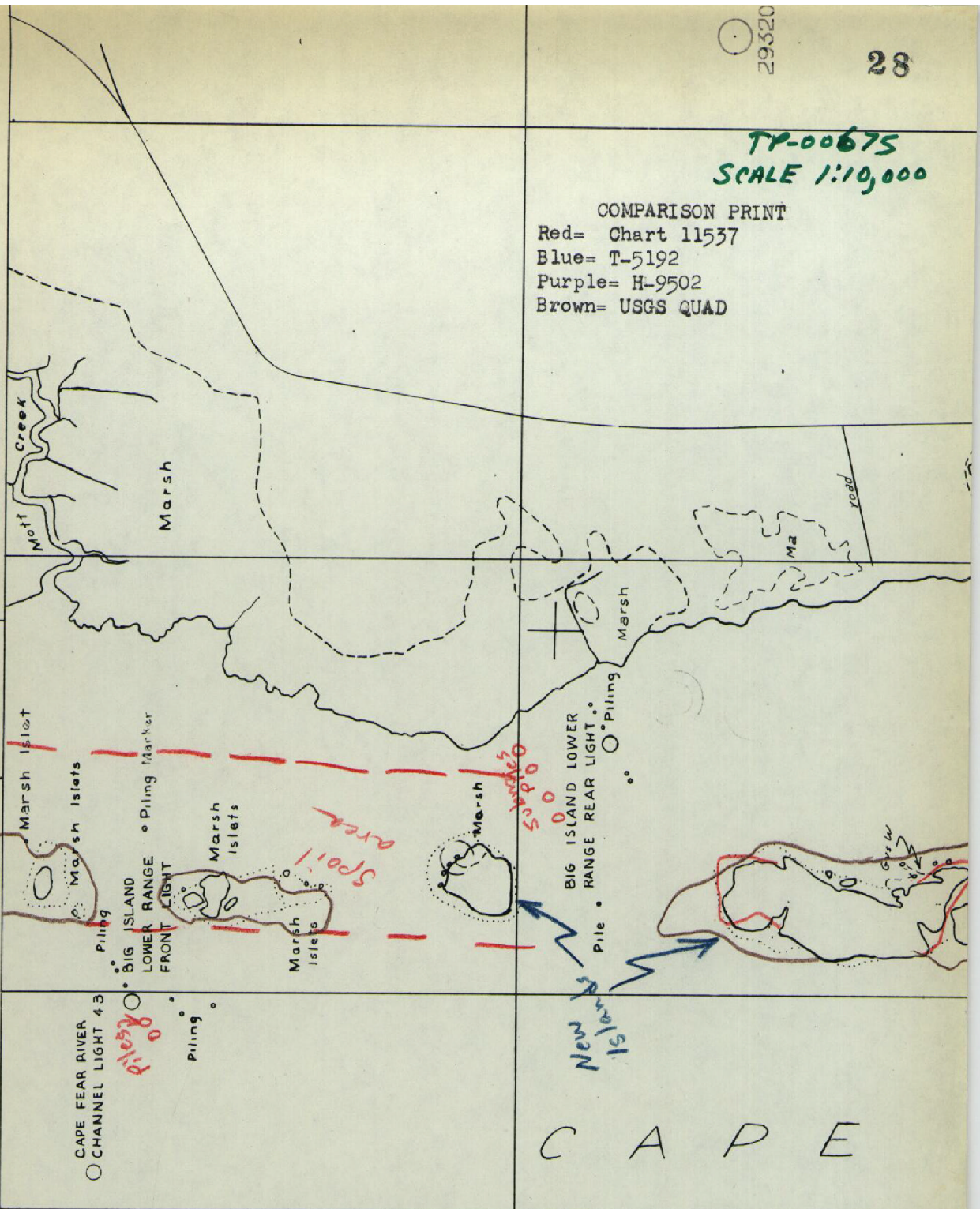
0675

77°56'15" 34°07'30"

56'

X = 2,325,000 FT | 55' 30"

55'



C A P E

Y = 135,000 FT

07'

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

TP-00675  
 SCALE 1:10,000

29320

28

611520

330