

TP-00702

TP-00702

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-7219
Map No. ....	TP-00702
Classification No. ....	Edition No. .... 1
Field Edited Map	
LOCALITY	
State .....	North Carolina
General Locality .....	Cape Fear to Cape Lookout
Locality .....	Carolina Beach
19 72 TO 19 74	
REGISTRY IN ARCHIVES	
DATE .....	

11539 A-2 Applied HM 6/19/80  
 11537 } A-3  
 11534 }

NOAA FORM 76-36A (3-72) <span style="float: right;">U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.</span>  <div style="text-align: center; font-weight: bold;">DESCRIPTIVE REPORT - DATA RECORD</div>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED  SURVEY TP. <u>00702</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final (F.E.)</u> JOB <u>RR CM-7219</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 <u>PH-</u> MAP CLASS <u></u> SURVEY DATES: 19 <u></u> TO 19 <u></u>	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Dec. 4, 1972      Aerotriangulation Apr. 4, 1973      Compilation Apr. 6, 1973      Amend. I		Sept. 15, 1972 Sept. 28, 1972    Amend. I Sept. 21, 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 <u>North Carolina</u> ZONE <u></u>	
5. SCALE  1:20,000		STATE <u></u> ZONE <u></u>	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY J.D. Schad		Mar., 1973	
METHOD: Stereoplanigraph LANDMARKS AND AIDS BY			
2. CONTROL AND BRIDGE POINTS PLOTTED BY D. Phillips		Mar., 1973	
METHOD: Calcomp. CHECKED BY			
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY Frank Margiotta		Apr., 1973	
COMPILATION CHECKED BY L.O. Neterer		Apr., 1973	
INSTRUMENT: Wild B-8		NA	
SCALE: 1:20,000		NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY L.B. Foltz		Apr., 1973	
CHECKED BY A.L. Shands		Apr., 1973	
METHOD: Wild B-8 and Graphic		NA	
Smooth drafting		NA	
SCALE: 1:20,000		NA	
HYDRO SUPPORT DATA BY		NA	
CHECKED BY		NA	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY A.L. Shands		Apr., 1973	
6. APPLICATION OF FIELD EDIT DATA BY J. Desch		Jan., 1975	
CHECKED BY R.R. White		Jan., 1975	
7. COMPILATION SECTION REVIEW BY R.R. White		Jan., 1975	
8. FINAL REVIEW BY C.H. Bishop		June, 1976	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY			
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY			
11. MAP REGISTERED - COASTAL SURVEY SECTION BY R.T. CATDR		AUG 1976	

NOAA FORM 76-36B  
(3-72)

TP-00702

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

## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "E", RC-10 "C"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE CHARLESTON		(C) COLOR <input checked="" type="checkbox"/> (P) PANCHROMATIC (I) INFRARED <input checked="" type="checkbox"/>		ZONE	
<input checked="" type="checkbox"/> PREDICTED TIDES Wilmington Beach				Eastern	
<input type="checkbox"/> REFERENCE STATION RECORDS				MERIDIAN	
<input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				75th	
				<input checked="" type="checkbox"/> STANDARD	
				<input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
* 72E(C)6730 - 6734	20 OCT 72	13:47	1:40,000	2.0 ft. above MLW	
* 72E(C)6862 - 6863	21 OCT 72	12:12	1:40,000	0.1 ft. below MLW	
** 73C(C)(I)4958 - 4959	18 OCT 73	13:47	1:60,000	+0.2 ft. of MHW	
** 73C(C)(I)6130 - 6131	11 NOV 73	13:56	1:60,000	+0.2 ft. of MLW	

## REMARKS

\*Bridge and compilation photos.

\*\*Tide coordinated photos at MHW and MLW, based on predicted tides.

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

The mean high water line was compiled from office interpretation of the 1972 color photography listed under 1. above and updated graphically by use of the 1973 tide coordinated infrared photographs taken at MHW when they became available.

## 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 No Contemporary Survey	EAST TP-00703	SOUTH TP-00704	WEST No Contemporary Survey
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REMARKS TP-00702 (Job CM-7219, 1:20,000 scale) covers the same area as Job CM-7218 Maps TP-00674 through TP-00677 (1:10,000 scale). Only the ocean shoreline was mapped on Job CM-7219, Cape Fear River shoreline only was mapped on Job CM-7218.

NOAA FORM 76-36C  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEYTP-00702  
HISTORY OF FIELD OPERATIONS.I. ☒ FIELD INSPECTION OPERATION ☐ FIELD EDIT OPERATION.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.S. Tibbetts	Oct., 1972
2. HORIZONTAL CONTROL	RECOVERED BY R.E. Kesselring	Oct., 1972
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY R.E. Kesselring	Oct., 1972
3. VERTICAL CONTROL	RECOVERED BY NA	
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY NA	
	LOCATED (Field Methods) BY NA	
	IDENTIFIED BY NA	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
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
72E(C)6732	RUINS, 1917		

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

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

7. SUPPLEMENTAL MAPS AND PLANS

None

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

- 1 Form 152 Control Station Identification
- 1 Form MA 100 Tellurometer Observations

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

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## HISTORY OF FIELD OPERATIONS.

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	P.B. Walbolt	July, 1974
2. HORIZONTAL CONTROL	RECOVERED BY NA ESTABLISHED BY NA PRE-MARKED OR IDENTIFIED BY NA	
3. VERTICAL CONTROL	RECOVERED BY NA ESTABLISHED BY NA PRE-MARKED OR IDENTIFIED BY NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY P.B. Walbolt LOCATED (Field Methods) BY NA IDENTIFIED BY NA	July, 1974
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 P.B. Walbolt	July, 1974
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

73 C(CI)6129 and 6131

4. LANDMARKS AND AIDS TO NAVIGATION ~~RECORDED~~ Verified

Data for objects verified are listed under 8. below.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
	CAROLINA BEACH MUNICIPAL WATER TANK, 1962		

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

7. SUPPLEMENTAL MAPS AND PLANS

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

- 1 Field Edit Report
- 1 Field Edit Ozalid
- 1 Form 76-40 Landmarks for Charting

NOAA FORM 76-36D  
(3-72)

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

TP-00702

## 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	Apr., 1973	Class III Manuscript Superseded	None	4/30/73
Field edit applied Compilation complete	Jan., 1975	Class I Manuscript Superseded	6/3/75	
Final Review	June, 1976			

**II. LANDMARKS AND AIDS TO NAVIGATION****I. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH**

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1	None	3/17/75	Landmark to be Charted

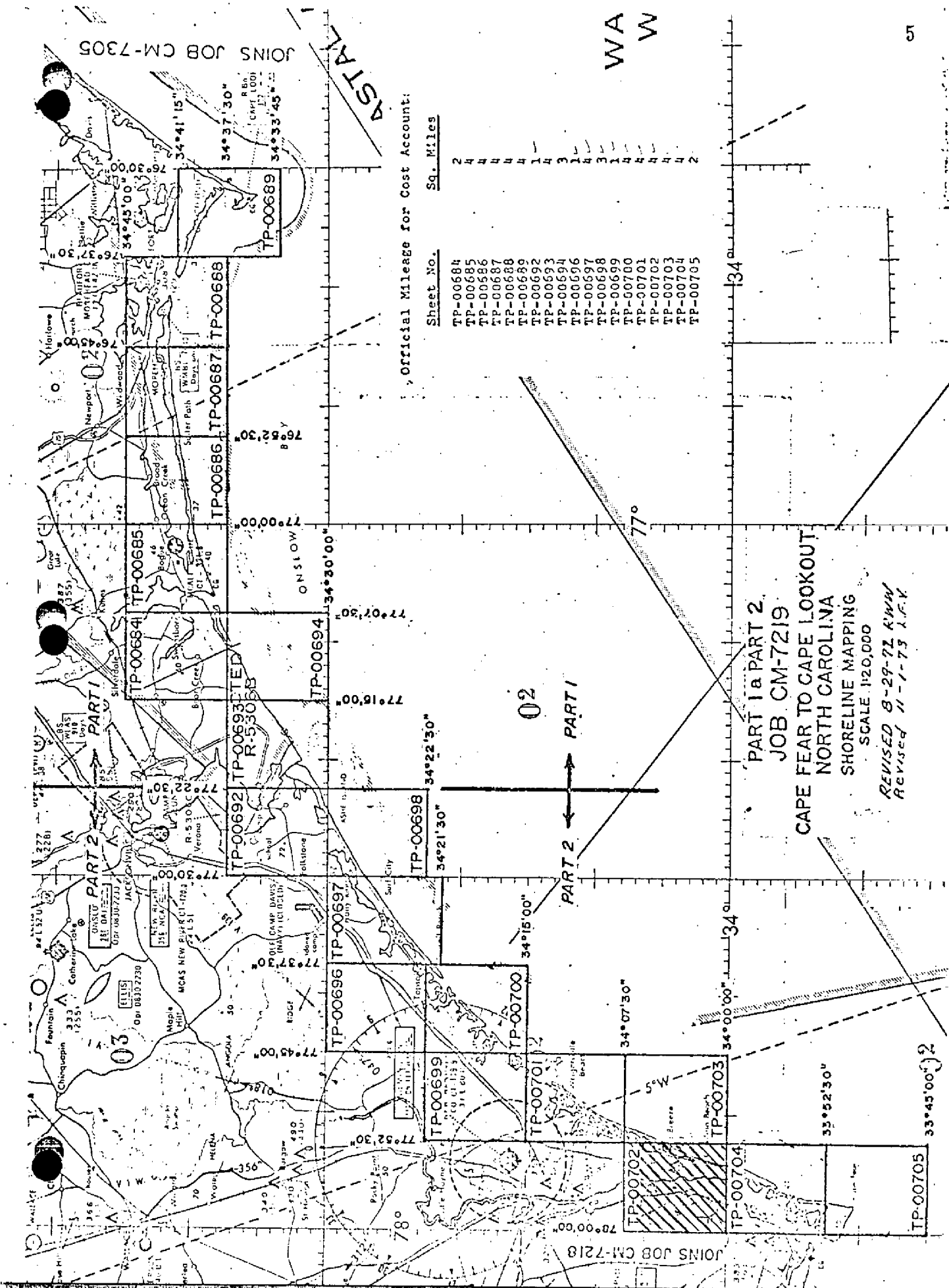
2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 3/17/75
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

**III. FEDERAL RECORDS CENTER DATA**

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS. <sup>76-49</sup> ~~85~~ SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.  
ACCOUNT FOR EXCEPTIONS:
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: \_\_\_\_\_

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

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



Official Mileage for Cost Account:

Sheet No.

Sq. Miles

TP-00684	2
TP-00685	4
TP-00686	4
TP-00687	4
TP-00688	4
TP-00689	4
TP-00690	1
TP-00691	1
TP-00692	3
TP-00693	3
TP-00694	1
TP-00695	4
TP-00696	3
TP-00697	1
TP-00698	4
TP-00699	4
TP-00700	4
TP-00701	4
TP-00702	4
TP-00703	4
TP-00704	4
TP-00705	2

WA  
W

## SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS TP-00692 and TP-00697 through TP-00705

Project CM-7219 is one of several projects that comprise the Southern Coastal Plains Expedition (SCOPE). It is a 1:20,000 scale shoreline mapping project which contains eighteen maps. Except for Map TP-00705, the maps referred to in this summary are not standard shoreline surveys because compilation was limited to the ocean shoreline only, per Instructions - OFFICE - Job CM-7219, Part II, Cape Fear to Cape Lookout, North Carolina, Shoreline Mapping, dated 4/4/73, Items 4.03 and 4.04. The entire area of TP-00705 was mapped; it was copied from a reduction of 1:10,000 scale Map TP-00683 (Job CM-7218) which covers the same area.

This summary is for Part II of the project. It covers the area between New River Inlet and Cape Fear.

Field work prior to compilation consisted of recovery and premarking horizontal control required for bridging and the obtaining of beach profiles. These profiles were not made within the time limit specified in instructions dated September 28, 1972 and were too widely spaced. Therefore, they were considered of no value and were not used as a source for mean high or mean low water lines.

Bridging was done in the Rockville Office in March 1973 using the Zeiss C-8 stereoplanigraph with 1:40,000 scale photography dated October 20, 1972. See Photogrammetric Plot Report following this summary.

Compilation was done at the Atlantic Marine Center in April and May 1973, using the 1972 bridging photography for compilation of interior details and initial compilation of the mean high water line. Later, at the time field edit was applied and the tide coordinated infrared photography (based on predicted tides) was available, the mean high water line was corrected where necessary, to agree with the photographs taken at MHW and the mean low water line was delineated graphically from the MLW photographs.

Field edit was done in May and July 1974, except for the area covered by TP-00705, which was edited in August 1973.

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

The original manuscripts were stabilene sheets  $7\frac{1}{2}$  minutes in latitude by  $7\frac{1}{2}$  minutes in longitude.

A cronaflex positive copy and a negative of each final reviewed map were forwarded for record and registry.

Photogrammetric Plot Report

Job CM-7219

Cape Fear - Cape Lookout, North Carolina

Part II

March 21, 1973

21. Area Covered

The area covered in this report extends along the North Carolina shoreline from Cape Fear to the vicinity of New River Inlet. Included in this area are 11 T-sheets: TP-00692; TP-00696 thru TP-00705; all are at 1:20,000 scale.

22. Method

Two strips of 1:40,000 color photography were bridged on the Zeiss C-8 stereoplanigraph and adjusted by the IBM computer. The two strips were used to obtain pass point positions for the models and to determine the scale ratio for strips #4, #5, and #6.

Compilation points were positioned on strip #5 to set photos 72E(c) 6756 thru 6760.

Strip #1 (72E(c) 6722 thru 6739) was adjusted on four field identified triangulation stations with five office identified stations as checks.

Strip #2 (72E(c) 6706 thru 6720) was adjusted on five triangulation stations, three tie points and three triangulation stations were used as checks. All horizontal tie points were averaged. T-sheets were ruled on North Carolina plane coordinates and plotted on the Coradomat.

23. Adequacy of Control

Horizontal control complied with project instruction and held within the National Map Accuracy Standard.

24. Supplemental Data

All vertical control needed for adjustment was taken from USGS quadrangles and are approximate mean sea level. The vertical points obtained by bridging are not necessarily true values.

25. Photography

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

Respectfully submitted

*James E. Schad*  
James E. Schad

Approved by:

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

Chief, Aerotriangulation Section

Notes to Compiler  
 Job CM-7219  
 Cape Fear - Cape Lookout, North Carolina

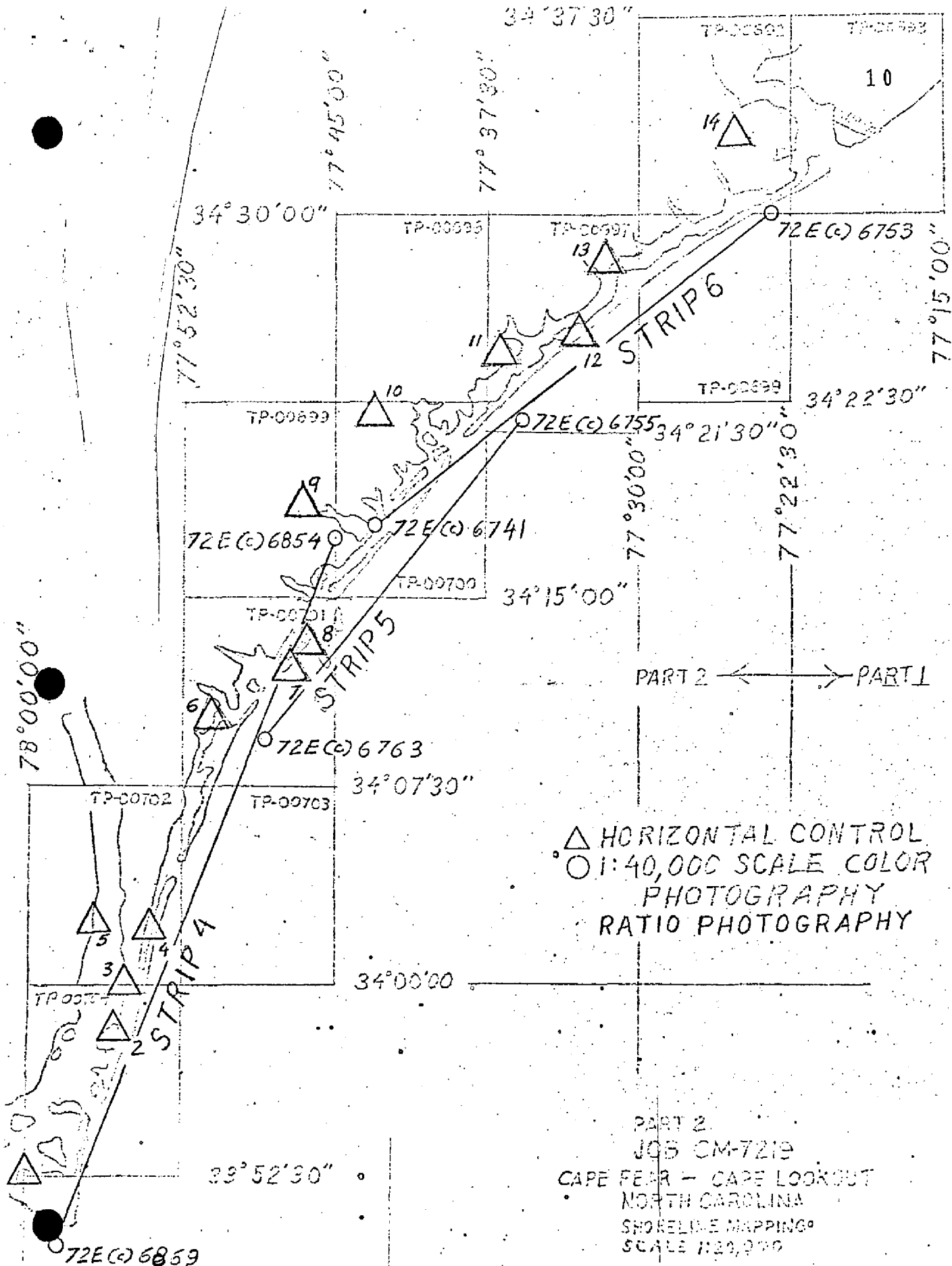
The shoreline area from the vicinity of Mason Inlet to New Topsoil Inlet (TP-00700) must be compiled from strip #5 (72E(c)6756 thru 6760) either by setting the models or by graphic methods. In order to control this area, "900" series points were determined from bridging strip #2.

Beach cross section points, which were field identified on black/white contact print, have been horizontally positioned from bridging strips #1 and #2 and are identified with "400" series numbers.

Strip # 1	Photo number	Field number
	25401	01-02 (68E 3232)
	25400	03-03 (68E 3232)
	26400	01-01 (68E 3419)
	31400	02-01 (68E 3428)
Strip #2	10400	00-01 (68E 3244)
	14400	97-01 (68E 3249)
	16400	97-02 (68E 3252)
	18400	98-02 (68E 3270)
	19400	98-01 (68E 3272)

*Rather, of strips 4, 5, and 6 were ordered.*  
*JOS*





JOB CM-7219

KEY TO HORIZONTAL CONTROL  
USE FOR BRIDGING.

1. BALD HEAD LIGHTHOUSE, 1851
2. FEDERAL POINT, 1913
3. KURE BEACH W.T., 1913
4. CAROLINA BEACH MUN. W.T., 1968
5. RUINS, 1917
6. MASON, 1918
7. WRIGHTSVILLE BEACH SOUTH MUN. W.T., 1962
8. WRIGHTSVILLE BEACH NORTH MUN. W.T., 1962
9. KIRKLAND, 1932
10. HAMPSTEAD 2, 1947
11. ATKINSON, 1914
12. SEARS LANDING, TANK 1943
13. BETHEA, 1932
14. GRANT, 1932

## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. TP-00702	JOB NO. CM-7219	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODETIC DATUM N.A. 1927		ORIGINATING ACTIVITY Coastal Mapping Section, AMC		REMARKS
				COORDINATES IN FEET STATE ZONE		GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE		
CAROLINA BEACH MUNICIPAL WATER TANK, 1962	Vol. III P. 2878			x=		φ 34 02 03.92375	120.9	(1727.8)
				y=		λ 77 53 47.86438	1227.9	(311.3)
CAROL, 1962	Vol. III P. 2853			x=		φ 34 03 10.46323	322.4	(1526.3)
				y=		λ 77 53 06.52717	167.4	(1371.4)
BEND, 1918	Vol. III P. 619			x=		φ 34 03 00.91788	28.3	(1820.4)
				y=		λ 77 53 47.94122	1229.6	(309.3)
RUINS, 1917	Bridge Form 164			x=	107,081.89'	φ	7,081.89'	(2,918.11')
				y=	2,320,047.18'	λ	47.18'	(9,952.82')
FREEMAN (NCGS), 1963	Vol. III P. 622			x=	115,537.55'	φ	5,537.55'	(4,462.45')
				y=	2,333,349.37'	λ	3,349.37'	(6,650.63')
				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.			9/29/73	COMPUTATION CHECKED BY L.B. Foltz			DATE	4/7/73
LISTED BY			DATE	LISTING CHECKED BY			DATE	
HAND PLOTTING BY			DATE	HAND PLOTTING CHECKED BY			DATE	

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

## COMPILATION REPORT

TP-00702

31. DELINEATION

This map was not delineated a standard shoreline survey. See Summary, page 6 of this Descriptive Report.

Delineation was by the Wild B-8 stereoplotter, using the 1:40,000 scale color photography taken on October 20, 1972 (Bridging photography). Only the outer coast was mapped, per Instructions - OFFICE - dated April 4, 1973, Par. 4.03.

32. CONTROL

See Photogrammetric Plot Report, dated March 21, 1973.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

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

35. SHORELINE AND ALONGSHORE DETAILS

The mean high water line and alongshore details were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

None

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 Form 76-36b, Item #5, of the Descriptive Report.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement

46. COMPARISON WITH EXISTING MAPS

A comparison was made with the following Army Map Service  
Quadrangle: WILMINGTON, NORTH CAROLINA, scale 1:62,500, dated 1948.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following National Ocean Survey  
Charts: 833-SC, March 11, 1972, 9th edition, scale 1:40,000;  
1235, 9th edition, May 1, 1971, scale 1:80,000 and 426, 11th edition,  
dated June 3, 1972, scale 1:40,000.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

*Albert C. Rauck, Jr. For*  
L.B. Foltz  
Carto. Aid, April 18, 1973

Approved:

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

ADDENDUM TO THE COMPILATION REPORT

TP-00702

FIELD EDIT

Field edit of this map is complete.

At the time of field edit application, the mean high water line compiled from the 1972 color photographs was verified by comparison with the tide coordinated\* high water photography listed on Form 76-36b 1, and corrected if necessary. The mean low water line was delineated graphically; using the tide coordinated\* low water photography listed on Form 76-36b 1.

\*Based on predicted tides.

*Charles H. Bishop*

Charles H. Bishop  
Final Reviewer

*2 June 1976*

16 Oct. 1975

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

CM-7219 (Cape Fear to Cape Lookout, N.C.)

TF-00702

Atlantic Ocean

Carolina Beach

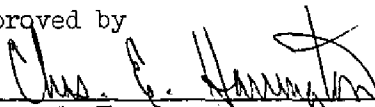
Carolina Beach Inlet

Kure Beach

Onslow Bay

Wilmington Beach

Approved by

  
Chas. E. Harrington  
Staff Geographer--C51x2

NOAA FORM 75-74 (7-75)		U.S. DEPARTMENT OF COMMERCE NOAA NATIONAL OCEAN SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW			
TP - 00702			
1. PROJECTION AND GRIDS A.L.S.	2. TITLE A.L.S.	3. MANUSCRIPT NUMBERS A.L.S.	4. MANUSCRIPT SIZE A.L.S.
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY A.L.S.	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) X X		7. PHOTO HYDRO STATIONS X X
8. BENCH MARKS X X	9. PLOTTING OF SEXTANT FIXES X X	10. PHOTOGRAMMETRIC PLOT REPORT A.L.S.	11. DETAIL POINTS A.L.S.
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE A.L.S.	13. LOW-WATER LINE X X	14. ROCKS, SHOALS, ETC. X X	15. BRIDGES X X
16. AIDS TO NAVIGATION X X	17. LANDMARKS A.L.S.	18. OTHER ALONGSHORE PHYSICAL FEATURES A.L.S.	19. OTHER ALONGSHORE CULTURAL FEATURES A.L.S.
PHYSICAL FEATURES			
20. WATER FEATURES A.L.S.	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 X X
CULTURAL FEATURES			
27. ROADS A.L.S.	28. BUILDINGS A.L.S.	29. RAILROADS X X	30. OTHER CULTURAL FEATURES X X
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES A.L.S.	34. JUNCTIONS A.L.S.		35. LEGIBILITY OF THE MANUSCRIPT A.L.S.
36. DISCREPANCY OVERLAY A.L.S.	37. DESCRIPTIVE REPORT A.L.S.	38. FIELD INSPECTION PHOTOGRAPHS X X	39. FORMS A.L.S.
40. REVIEWER <i>Arnold L. Shands</i> Arnold L. Shands		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
41. REMARKS (See attached sheet)			
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT			
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.			
COMPILER <i>Joanne Desch</i> Joanne Desch <i>Richard R. White</i>		SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
43. REMARKS Field edit applied from: Field edit ozalid and field photographs 730(C)6129(I) and 730(C)6131(I)			

FIELD EDIT FOR SHEET TP-00702  
CAROLINA BEACH; Job CM-7219, part 2

51. METHODS

This manuscript was inspected by truck, by walking the beach, and by boat. As per Paragraph 2 of Letter C344 dated 28 May 1974, it was determined that no extensive changes have occurred.

52. ACCURACY OF COMPILATION

The accuracy is good.

54. RECOMMENDATIONS

One Nautical Landmark should be charted; NOAA Form 76-40 is submitted. One obstruction is shown. A pier in ruins is verified. New Riprap is shown.

*Philip B. Walbolt*

Philip B. Walbolt  
Chief, Photo Party 63

[illegible]

## REVIEW REPORT TP-00702

## SHORELINE

June 2, 1976

61. GENERAL STATEMENT:

See Summary, which is page 6 of this Descriptive Report.

A comparison print showing differences noted in Par. 63 and 65 is bound with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

There are no registered topographic surveys of the area later than 1933. No comparison was made.

In the area that was mapped, TP-00702 supersedes previous registered topographic surveys for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with Army Map Service Quadrangle WILMINGTON, NORTH CAROLINA, 1:62,500 scale, AMS 3, 1948. Significant shoreline differences are shown in brown on the comparison print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No contemporary hydrographic surveys were available for comparison.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 11534, 1:40,000 scale, 12th edition, dated March 1975. Significant differences are shown on the comparison print in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with Instructions - OFFICE - Job CM-7219,

Part II, Cape Fear to Cape Lookout, North Carolina, Shoreline Mapping, and meets requirements for Bureau Standards and National Standards of Map Accuracy.

Submitted:

*Charles H. Bishop*

Charles H. Bishop  
Cartographer  
June 2, 1976

Approved for forwarding:

*Joseph W. Vonasek*

Joseph W. Vonasek  
Chief, Photogrammetric Branch, AMC

Approved: *S. H. Blankinship*

*Mr. A. H. Heywood*

Chief, Photogrammetric Branch

*Walter D. ...*

Chief, Coastal Mapping Division

54'

53'

77°52'30" 22

34°  
05'

Sand  
Inlet  
Sand  
Carolina Beach

y=120,000 F

Notes:

1. Numerous charted groins are not visible on the mapping photographs and were not visible to the field editor at low water.
2. Charted wrecks not visible on the photographs. Investigation was referred to the hydrographer.

△ FREEMAN (NCGS), 1963

Groin  
Bldg on Pier  
Riprap

CAROL, 1962

72 F (c) 6862

△ BEND, 1916

03'

y=110,000 FT

COMPARISON PRINT

Red = Chart 11534  
Brown = AMS Quad

TP-00702  
1:20,000

CAROLINA BEACH MUNICIPAL  
WATER TANK, 1962

ht 150(160)ft

CAROLINA BEACH

US 421

Pier

ON SLOW

## 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."

72 E(C) 6733

Pier

72 E(C) 6863

y = 100,000 F

Wilmington  
Beach

Existence of pier in ruin was verified by field editor, but no location given. Not visible on photographs, not mapped on TP-00702.

Charted groins not mapped are not visible on the photographs and were not visible to the field editor at low water.

ATLANTIC  
OCEAN

CAROLINA BEACH

Cement and steel  
obstruction (3)

Groins

Kure Beach

## COMPARISON PRINT

Red = Chart 11534

Brown = AMS Quad

1:2,330,000 FT

54'

53'

x = 2,340,000 FT

77° 52' 30"

34° 00' 00"

of third-order or higher accuracy

er line

ate mean high water.

from aerial photographs

Oct. Nov. 1973

NATIONAL OCEAN SURVEY  
SHORELINE MANUSCRIPT

TP-00702

NORTH CAROLINA

CAPE FEAR TO CAPE LOOKOUT

CAROLINA BEACH

SCALE 1:20,000

