

TP-00520

TP-00520

NOAA FORM 76-35	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Type of Survey ..Special.. Surveys.....	
Job No. ..CM-7402.....	Map No. TP-00520.....
Classification No. Final	Edition No.1.....
Field Edited Map	
LOCALITY	
StateNorth Carolina.....	
General LocalityBeaufort Inlet.....	
Locality ...Shackleford Point.....	
.....	
<hr/> 19 73 TO 1974 <hr/>	
REGISTRY IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72) <i>Page 1 of 2</i>		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>00520</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final</u> CM JOB <u>7402</u>	
DESCRIPTIVE REPORT - DATA RECORD PHOTOGRAMMETRIC OFFICE Coastal Mapping Division (Norfolk) OFFICER-IN-CHARGE Jeffrey G. Carlen, CDR-NOAA				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 - OFFICE - General Instructions <i>5/10/74</i> Amendment No. 1 <i>8/10/74</i>				2. FIELD Photography (Special Bathymetry and Topo.) <i>10/23/73</i> Field (Special Surveys) <i>10/30/73</i> Field Edit <i>8/21/74</i>			
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) Nat'l Geodetic Vertical Datum of 1929.			
3. MAP PROJECTION Lambert Conformal				4. GRID(S) STATE N. C. ZONE NA			
5. SCALE 1:5,000				STATE ZONE			
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION Analytic, Block BY				D.O. Norman		5/74	
METHOD: Adj. LANDMARKS AND AIDS BY				NA			
2. CONTROL AND BRIDGE POINTS PLOTTED BY				R. Robertson		5/74	
METHOD: Calcomp CHECKED BY				NA			
3. STEREOSCOPIC INSTRUMENT Contours & PLANIMETRY BY				A.L. Shands		7/74	
COMPILATION CHECKED BY				Vanhaven, Byrd, Hancock		7/74	
INSTRUMENT: B-8 Photobathymetry CONTOURS BY				A.L. Shands		7/74	
SCALE: 1:3000 Pantographed to CHECKED BY				Vanderhaven, Byrd, Hancock		7/74	
4. MANUSCRIPT DELINEATION 1:5000 Contours & PLANIMETRY BY				Hancock		7/74	
CHECKED BY				B. Kurs		8/74	
METHOD: Smooth Compilation Photobathymetry CONTOURS BY				J. Hancock		7/74	
Drafting CHECKED BY				B. Kurs		8/74	
SCALE: 1:5,000 HYDRO SUPPORT DATA BY				NA			
CHECKED BY				NA			
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				B. Kurs		8/74	
6. APPLICATION OF FIELD EDIT DATA BY				J.L. Hancock		10/74	
CHECKED BY				B. Kurs		10/74	
7. COMPILATION SECTION REVIEW BY				B. Kurs		10/74	
8. FINAL REVIEW BY				E.L. Rolle		5/76	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY							
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				E.L. Rolle		5/76	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				R. CATDR		5/74	

NOAA FORM 76-36A (3-72) <i>Page 2 of 2</i>		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>00520</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final</u> JOB PH. <u>CM-7402</u>	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, Rockville		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
OFFICER-IN-CHARGE Cdr. James Collins		JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
General Instructions-OFFICE 5/10/74 General Instructions-OFFICE- Amendment 1 8/10/74		Instructions-Photography 10/23/73 Instructions-Field-10/30/73 Instructions-Field Edit 8/21/74	
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) _____ National Geodetic Vertical Datum of 1929	
3. MAP PROJECTION Lambert Conformal		4. GRID(S) STATE North Carolina ZONE N.A.	
5. SCALE 1:5,000		STATE _____ ZONE _____	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION Analytic, Block METHOD: Adjustment LANDMARKS AND AIDS BY		D.O. Norman	5/74
		N.A.	
2. CONTROL AND BRIDGE POINTS METHOD: Calcomp PLOTTED BY		R. Robertson	5/74
		N.A.	
3. STEREOSCOPIC INSTRUMENT contours & PLANIMETRY BY COMPILATION CHECKED BY		G. Fromm	6/18/74
		P. Dempsey	6/18/74
INSTRUMENT: B-8 Photobathymetry CONTROLS BY SCALE: 1:3,000 CHECKED BY		G. Fromm	6/18/74
		P. Dempsey	6/19/74
4. MANUSCRIPT DELINEATION Contours & PLANIMETRY BY CHECKED BY		G. Fromm	6/26/74
		E.L. Rolle	6/26/74
METHOD: Photobathymetry CONTROLS BY Smooth compilation drafting CHECKED BY		G. Fromm	6/20/74
		E.L. Rolle	6/20/74
SCALE: 1:5,000 HYDRO SUPPORT DATA BY CHECKED BY		N.A.	
		N.A.	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		B. Kurs	8/74
6. APPLICATION OF FIELD EDIT DATA BY		J.L. Hancock	10/74
		B. Kurs	10/74
7. COMPILATION SECTION REVIEW BY		B. Kurs	10/74
8. FINAL REVIEW BY		E.L. Rolle	5/76
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY			
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		E.L. Rolle	5/76
11. MAP REGISTERED - COASTAL SURVEY SECTION BY			

TP-00520
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild "RC-8" and "RC-10"		TYPES OF PHOTOGRAPHY LEGEND (C) <u>COLOR</u> (P) PANCHROMATIC (I) <u>INFRARED Color</u>		TIME REFERENCE ZONE Eastern MERIDIAN 75th		<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY						
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE		
73C(C)5505 - 5509	11/7/74 ²⁸ 73	10:34-10:34	1:7,500	+0.50* ft. above MLW		
73C(C)5647 - 5652	11/7/74 ²⁸ 73	11:21-11:21	1:7,500	0.91* ft. above MLW		
73C(C)6377 - 6381	11/12/73	13:30-13:36 ²⁸	1:7,500	+0.65* above MLW (inlet) -0.10* (ocean)		
73E(I)2201R - 2203R	11/12/73	13:04-13:10	1:4,300	+0.10* MLW (ocean)		
73E(I)1283R - 1288R	11/7/73	10:34-10:34 ²⁸	1:4,300	+0.50* MLW (ocean)		
* Refer to the following page for additional tidal information						
REMARKS						

2. SOURCE OF MEAN HIGH-WATER LINE:

~~The elevation of the MHW line above NGVD in each tide zone was used in the B-8 to delineate it using the color photography listed above.~~

The source of the MHW line is the tide coordinated color photography listed above under item 1.

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

~~The elevation of the MLW line below NGVD in each tide zone was used to delineate it from the color photography listed above, supplemented where needed by black and white ratios of the infrared photography.~~

The source of the MLW line is the tide coordinated color photography and black and white ratios of the color infrared photography listed above under item 1.

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

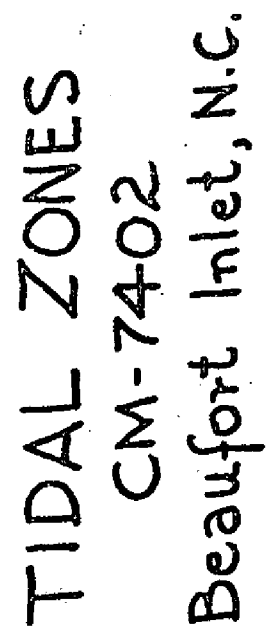
NORTH	EAST	SOUTH	WEST
TP-00519	TP-00522	No survey	TP-00518

REMARKS As this is a special job, no attempt was made to junction with other NOS jobs in the area.

TP-00520
TIDE INFORMATION

④

PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)		STAGE OF TIDE Feet	MEAN RANGE Feet
	TIDE STATION	TIDAL ZONE*		
73C(C)5505-5509	Atlantic Beach	6	+0.50MLW	3.76
73C(C)5647-5652	Beaufort Inlet Channel Range	5	+0.91MLW	3.26
73C(C)6377-6381	Fort Macon Coast Guard Dock	3	+0.65MLW	3.18
73C(C)6377	Beaufort Inlet Channel Range	5	+0.65MLW	3.26
73C(C)6377-6381	Atlantic Beach	6	-0.10MLW	3.76
73E(I)1283R-1288R	Atlantic Beach	6	+0.50MLW	3.76
73E(I)2201R-2203R	Atlantic Beach	6	+0.10MLW	3.76
*Refer to the following page for a Tidal Zone Diagram.				



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

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.S. Tibbetts	Sept. 74 Oct. 73
2. HORIZONTAL CONTROL	RECOVERED BY R.D. Black ESTABLISHED BY " " " PRE-MARKED OR IDENTIFIED BY " " "	Oct. 1973 " " " "
3. VERTICAL CONTROL	RECOVERED BY L. H. Davis ESTABLISHED BY R. D. Black PRE-MARKED OR IDENTIFIED BY " " "	Sept. 1974 Oct. 1973 " "
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY N.A. LOCATED (Field Methods) BY N.A. IDENTIFIED BY N.A.	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input checked="" type="checkbox"/> SPECIFIC NAMES ONLY <input type="checkbox"/> NO INVESTIGATION	R.E. Kesselring Oct. 1974
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY N.A.	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED Pre-mark
Jetty 19732. VERTICAL CONTROL IDENTIFIED Pre-mark
Panel A-103

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details) Field edit

730(C)5651; 730(C)6379

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

N.A.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

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

7. SUPPLEMENTAL MAPS AND PLANS

Sketch "A"; Film ozalid with ~~elevations plotted~~ Fort Macon CG Base Reservation Limits

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

2 - Form 76-53 Control Station Identification for bench marks.

C&GS-152

TP-00520

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	Aug. 1974	Class III Manuscript		Aug. 1974
Field Edit Applied	Oct. 1974	Class I		Nov. 1974

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
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 567 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:
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	

Bathymetry

Sq. Mi.

8

Sheet No.
TP-00516
TP-00517
TP-00518
TP-00519
TP-00520
TP-00521
TP-00522

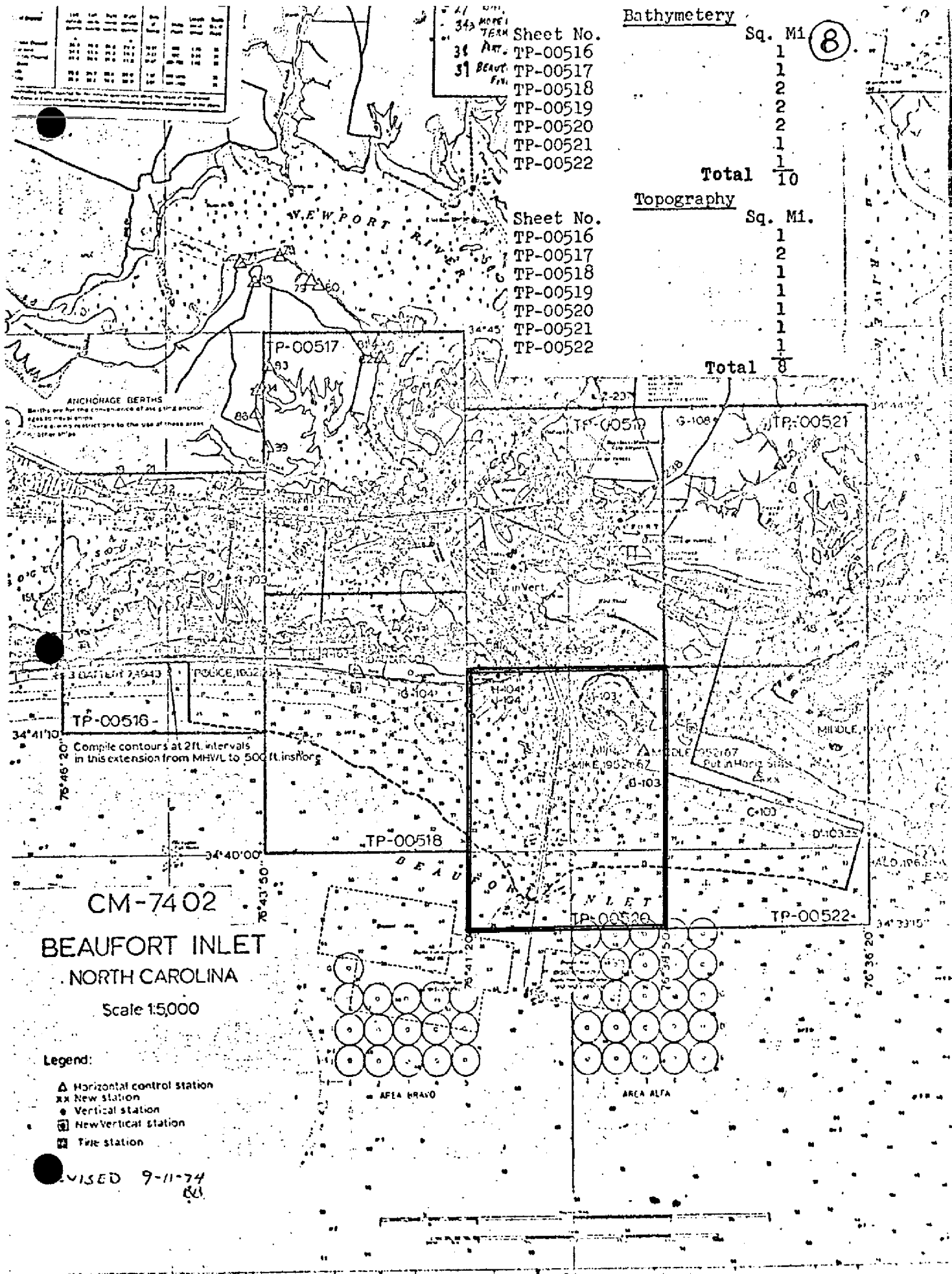
Total 10

Topography

Sq. Mi.

Sheet No.
TP-00516
TP-00517
TP-00518
TP-00519
TP-00520
TP-00521
TP-00522

Total 8



CM-7402

BEAUFORT INLET
NORTH CAROLINA

Scale 1:5000

Legend:

- △ Horizontal control station
- xx New station
- Vertical station
- New Vertical station
- Tide station

REVISED 9-11-74
80

SUMMARY
TP-00516 thru TP-00522

Under a cooperative agreement with the Corps of Engineers, Wilmington District, which became effective August 1973, these seven maps (TP-00516 thru 522) were compiled at 1:5,000 scale in the area of Beaufort Inlet, North Carolina.

The purpose of this special survey is to provide data for the Corps of Engineers on siltration rates in the entrance channel and harbor complex, possible impacts of entrance channel deepening on adjacent beaches, possible changes effected by dredging on the tidal prism and the circulation pattern, to update and establish tidal datums, and to update nautical charts in the area.

Field operations, which began in October 1973, generally consisted of aerial photography, establishment of tidal datums, pre-marking of horizontal and vertical control, and field edit.

Aerotriangulation and compilation tide-coordinated photography was furnished at 1:7,500 scale from natural color film taken with the Wild RC-10 super-wide-angle camera. Supplemental black-and-white infrared tide-coordinated photography at 1:4,300 scale, taken concurrently in an independent mode using color infrared film in the RC-8 camera, was also furnished.

Nine strips of the 1:7,500 scale photography were bridged by analytic aerotriangulation methods and adjusted to ground with the block adjustment program. Fourteen horizontal control stations, fifteen vertical control stations, and fifteen vertical points from the tide-coordinated infrared photography were weighted in the block adjustment. This provided horizontal and vertical control for compilation.

Compilation photography was the 1:7,500 scale photography and the supplemental infrared photography. The Wild B-8, using the 1:7,500 scale photography was used to compile planimetry, topography, and photobathymetry. The topography consists of 2-foot interval contours and spot elevations referred to the National Geodetic Vertical Datum of 1929. The photobathymetry consists of discrete soundings and 2-foot interval depth curves referred to the Mean Low Water Datum established by NOS.

All line work is smooth compilation drafting.

One plastic copy and ten ozalid copies of each map was furnished to:

Department of the Army
Wilmington District, Corps of Engineers
P.O. Box 1890
Wilmington, North Carolina 28401
ATTN: Mr. R.P. Masterson, Jr.

A Chart Maintenance Print for each map was submitted to the Marine Chart Division.

The following items are registered in the Bureau Archives:

1. A plastic copy of each map (1:5,000 scale).
2. A Descriptive Report for each map.

Negatives for each map are filed in the Reproduction Division.

All field data are filed in the National Archives.

FIELD INSPECTION

TP-00520

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project. [^]
and vertical

Photogrammetric Plot Report
Beaufort Inlet, North Carolina
CM-7402
May 1974

21. Area Covered.

This report pertains to seven sheets in the vicinity of Beaufort Inlet, North Carolina. The sheets are TP-00516 thru TP-00522.

22. Method.

Nine strips (see sketch) of 1:7,500 scale color photography were bridged by analytic aerotriangulation methods and adjusted to ground with the block adjustment program. Points were established for determining ratios of 1:4,300 scale infrared support photography. Sufficient points were plotted by the Coradomat for setting models for compilation. These points were plotted in the North Carolina State Plane Coordinate System.

23. Adequacy of Control.

The control was adequate. Fourteen horizontal control stations were weighted in the block adjustment. The largest residual in the fit to horizontal control was .4 foot.

Fifteen vertical control targets were weighted. The largest residual in the fit to these targets was one-half foot. In addition to these targeted points, thirty-nine vertical control points were established from the tide-related infrared photography. Fifteen of these points were weighted in the block adjustment. The largest residual in the fit to control of all thirty-nine points was 1.28 feet. This point was in the critical area as were three other points with residuals greater than 1 foot. The average residual of non-weighted vertical points in the critical area was .54 foot.

24. Supplemental Data. - None was used.

25. Photography.

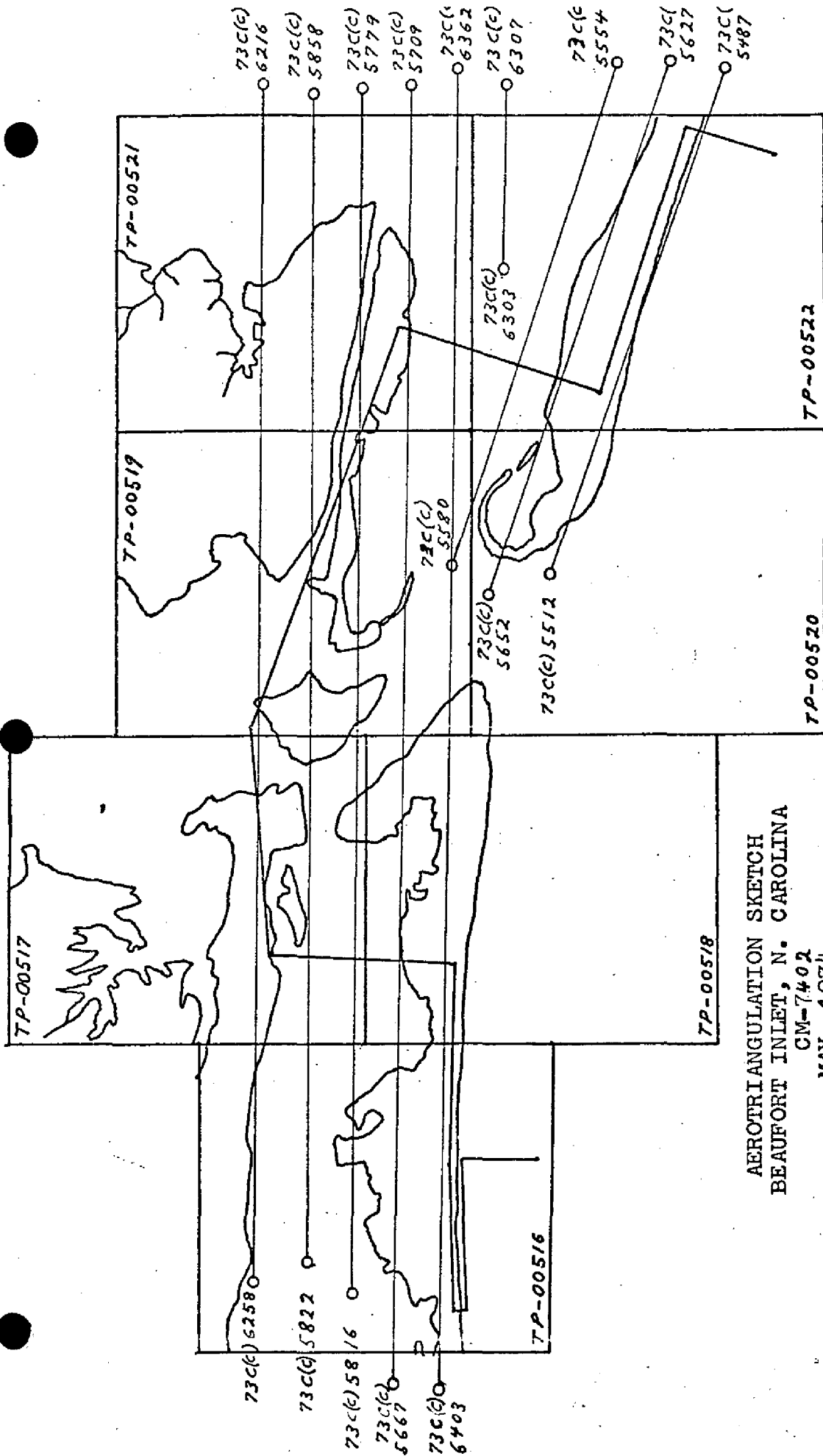
There was a noticeable scale difference on the edge of adjacent photographs. This produced some error in measurement that could not be compensated for.

Submitted by,

Don O. Norman
Don O. Norman

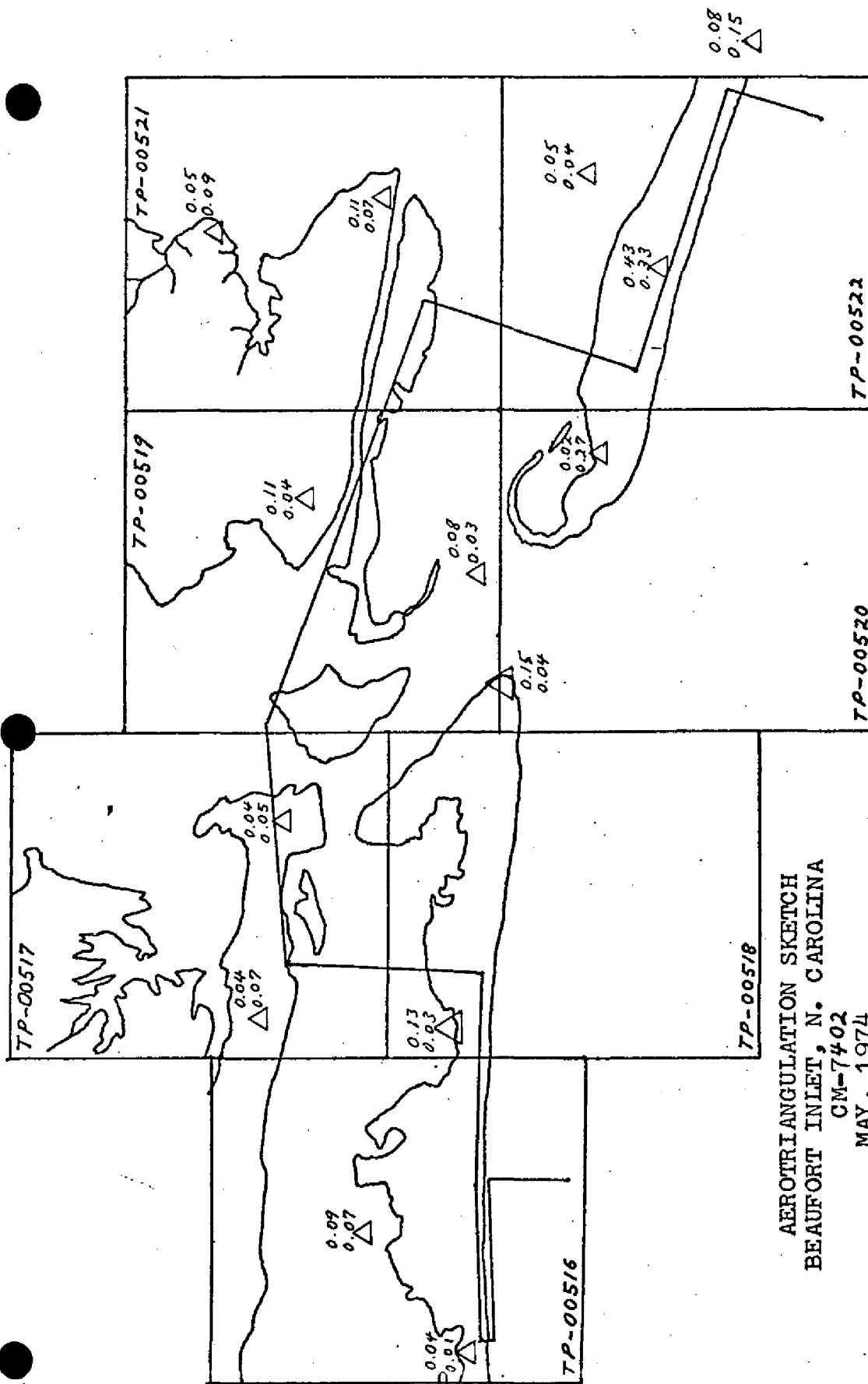
Approved by:

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



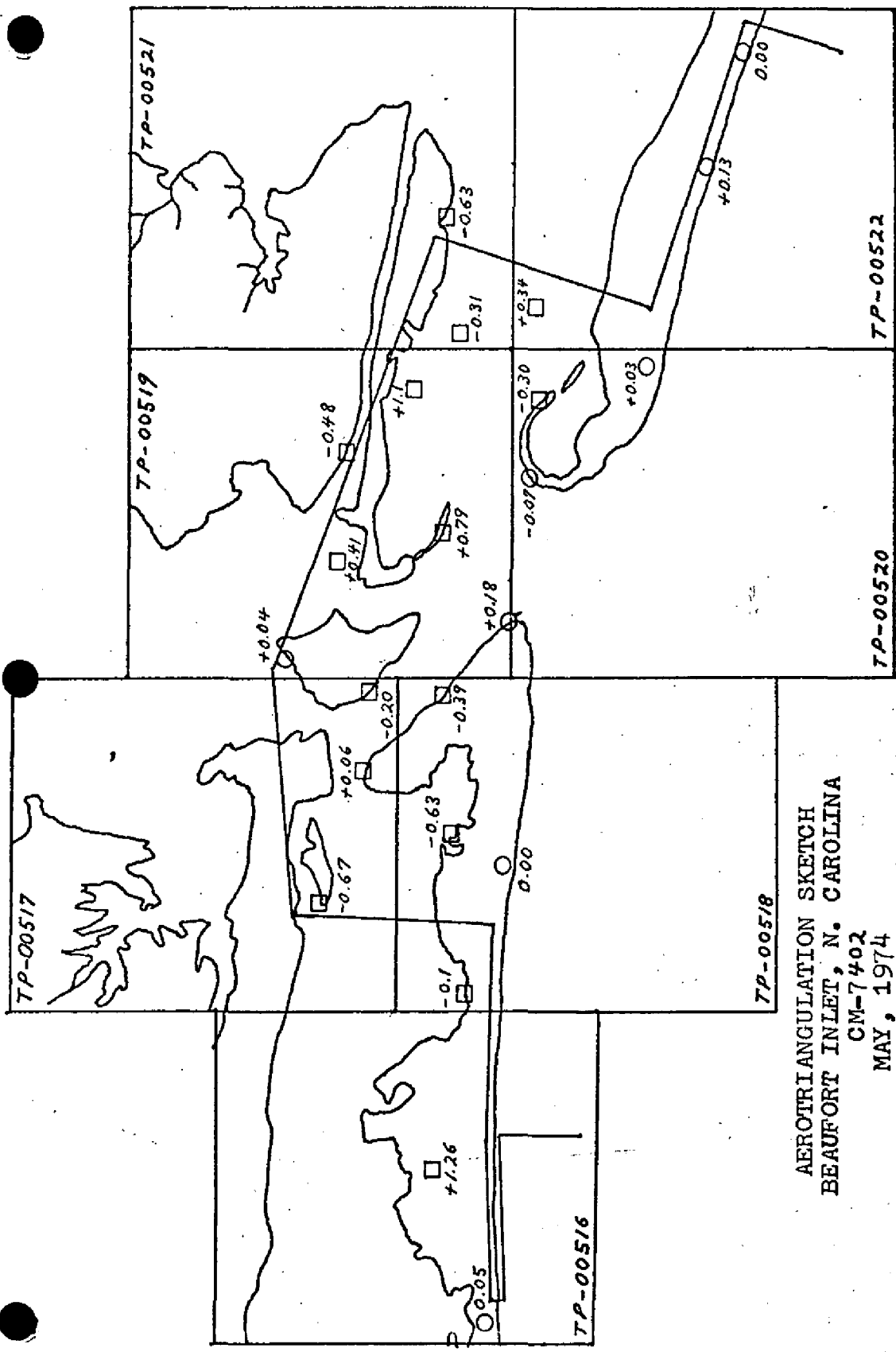
AEROTRIANGULATION SKETCH
BEAUFORT INLET, N. CAROLINA
CM-7402
MAY, 1974

Bridging Photography



AEROTRIANGULATION SKETCH
 BEAUFORT INLET, N. CAROLINA
 CM-7402
 MAY, 1974

△ Horizontal Control



AEROTRIANGULATION SKETCH
BEAUFORT INLET, N. CAROLINA
CM-7402
MAY, 1974

Vertical Control
○ targets, weighted in block
□ points from infrared photography

DESCRIPTIVE REPORT CONTROL RECORD

MAP T-TP-00520 PROJECT NO. CM-7402

SCALE OF MAP 1:5,000

SCALE FACTOR

[illegible]

Compilation Report
TP-00520

31. Delineation

The map was compiled on the Wild B-8 stereoplotter using the 1:7,500 scale color photography. Black-and-white ratio photos, taken concurrently on color infrared film, were used to supplement compilation of the mean low water line.

32. Control

Refer to the Photogrammetric Plot Report bound with this Descriptive Report. The identification, density, and placement of horizontal and vertical control was adequate.

33. Supplemental Data - None

34. Contours and Drainage

Inconsistent color tone qualities of the photography impeded compilation of the contours. Areas of questionable contour accuracy were referred to the field editor for verification.

In areas where the mean range of tide is greater than the contour interval, the 2-foot contour is delineated below the mean high water line. In areas where the 2-foot contour line and the mean high water line are nearly coincident, both lines are combined and delineated with the mean high water line symbol.

There was no significant drainage to be compiled on this map.

35. Shoreline and Alongshore Detail

There was no preliminary field inspection of the shoreline.

The mean high water line and the mean low water line were compiled on the B-8 stereoplotter using contour compilation methods. Control data for this compilation was furnished by field methods and the photogrammetric plot.

Shoal areas were delineated from office interpretation of the photography and referred to the field editor.

36. Offshore Details and Photobathymetry

All discrete underwater depths (soundings), 2 foot interval underwater contours (depth curves), and all other pertinent offshore details were compiled on the B-8 stereoplotter. Areas of questionable compilation accuracy were referred to the field editor and/or the hydrographic party for verification.

Suspended silt and surf limited photobathymetry along the ocean side of Bogue Banks, Shackleford Banks, and Beaufort Inlet.

37. Landmarks and Aids

All landmarks and nonfloating aids, identifiable on the photography, were delineated and labeled with descriptive names only, i.e., light, beacon, marker, etc.

Forms 76-40 were not prepared. All positions of landmarks and nonfloating aids will be forwarded to the Marine Chart Division with Job 7219, which is a part of project SCOPE.

38. Control for Future Surveys - None

39. Junctions

Refer to Form 76-368, item #5, submitted with this Descriptive Report.

40. Horizontal and Vertical Accuracy

This map complies with National Map Accuracy Standards.

41. thru 45. Inapplicable

46. Comparison with Existing Maps

A comparison has been made with USGS quadrangle of Beaufort, NC, scale 1:24,000, edition of 1949, photorevised in 1971.

47. Comparison with Nautical Charts

A comparison has been made with the following nautical charts:

Chart 420, scale 1:40,000, 42nd edition, Feb. 16, 1974

Chart 423, scale 1:12,500, 14th edition, Dec. 8, 1973

Items to Be Applied to Nautical Charts Immediately - None

Items to be Carried Forward - None

Submitted by,

G. L. Fromm

G. L. Fromm

Approved and forwarded:

E. L. Rolle

E.L. Rolle

Quality Control Group

TP-00520

49. NOTES FOR THE HYDROGRAPHER

An ozalid copy of this map was furnished to the hydrographic party and labeled "Discrepancy Print for the Hydrographer". All notes for the Hydrographer were applied to this print.

FIELD EDIT REPORT
 JOB CM 7402
 BEAUFORT INLET, N.C.
 MAP TP-00520

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 map was well compiled and no significant shoreline changes were noted during field edit.

A large marsh area in the northwest corner of the map was not compiled. This marsh area is composed of very dense saw grass and is taller and lighter in color than the shorter marsh which it surrounds. The marsh limits were inked on photo 73C(C)6379 and attention drawn to them on the field edit ozalid.

The front range markers for the Morehead City Channel Dredging Ranges were overlooked by the compiler. They were circled on the proper photograph and indicated, with cross-reference, on the field edit ozalid.

No evidence of any submerged cables, as questioned, was discovered on the map. It does not appear likely that submerged cables would be placed across a dredged channel, but if any are extant they are not indicated by signs or other above water indications.

Bench mark A-103 is not in the area indicated by the question on the field edit ozalid. This area contains the vertical pre-mark titled "panel A-103". The actual bench mark is near the Morehead City Channel Range Rear Light. The bench mark's position was pricked on photo 73C(C)5651 and entered on form 76-53 which is included with this report.

The "rectangular feature", at latitude $34^{\circ} 41.2'$, longitude $76^{\circ} 39.1'$, is a four-foot high, four-inch mesh fence, well constructed, and enclosing a six foot growth of very dense saw grass. It is suspected that this feature is an experiment by the marine research section of a university, possibly Duke which has a marine lab in Beaufort. There doesn't appear to be any other likely explanation as it is not suitable for a duck blind and has no openings in it for use as a "catch pen" for wild hogs and/or other animals.

The limits of the Fort Macon Coast Guard Reservation were obtained from the engineering officer at Fort Macon Coast Guard. The boundary is two feet outside of a chain link fence which surrounds the reservation, except for the northwesterly line which is a prolongation of the tangent of the existing fence. The fence is plainly visible on photo 73C(C)6379. A sketch was made of the boundary and distances and bearings were indicated on it. The sketch is included with this report. Approximate limits were inked on photo 73C(C)6379 and on the field edit ozalid.

The field editor was requested to check the two and four foot contours near the northwesterly corner of the map. This area is covered by very dense almost impenetrable brush. As the area in question is in a state park, clearing lines through the brush was clearly not an acceptable method of obtaining the required information. An attempt was made with the plane table to gather the required data. Two rodmen, armed with light aluminum ladders, stadia boards and machetes were sent into the brush, using the ladders to crawl over the dense parts and worming and crawling their way through the rest. After eight and a half hours of this exasperation, a total of 13 rod shots were obtained. Due

to high trees and other interference the elevations could not be spaced properly to allow contouring the area. Mr. Rowley of the Rockville office was contacted and the problem explained. Mr. Rowley gave verbal instructions that this question be overlooked. These instructions were followed. The data already obtained was indexed on the film ozalid and is included with this report.

54. Recommendations

There are no recommendations.

56. Landmarks and Non-Floating Aids for Navigation

There was no requirement for landmarks and aids for this project. The Morehead City Channel Dredging Range markers were discussed under side heading 52 above.

57. Rocks, Reefs, and Shoals

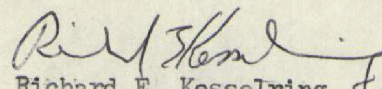
There are no rocks or reefs or shoals as defined, within the compiled limits of this map.

58. Photography

Photography consisted of 1:5000 color ratio prints and was very good. The photography was not prepared for office use.

59. Disposition of Data

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


Richard E. Kesselring
Surveying Technician
Photo Party 62

PHOTOGRAMMETRIC OFFICE REVIEW

T P-00520

1. PROJECTION AND GRIDS BK	2. TITLE BK	3. MANUSCRIPT NUMBERS BK	4. MANUSCRIPT SIZE BK
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY BK	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA	7. PHOTO HYDRO STATIONS NA	
8. BENCH MARKS BK	9. PLOTTING OF SEXTANT FIXES NA	10. PHOTOGRAMMETRIC PLOT REPORT NA BK	11. DETAIL POINTS NA
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE BK	13. LOW-WATER LINE BK	14. ROCKS, SHOALS, ETC. BK	15. BRIDGES NA
16. AIDS TO NAVIGATION NA	17. LANDMARKS NA	18. OTHER ALONGSHORE PHYSICAL FEATURES BK	19. OTHER ALONGSHORE CULTURAL FEATURES BK
PHYSICAL FEATURES			
20. WATER FEATURES BK	21. NATURAL GROUND COVER NA BK	22. PLANETABLE CONTOURS NA	
23. STEREOSCOPIC INSTRUMENT CONTOURS BK	24. CONTOURS IN GENERAL BK	25. SPOT ELEVATIONS BK	26. OTHER PHYSICAL FEATURES BK
CULTURAL FEATURES			
27. ROADS BK	28. BUILDINGS BK	29. RAILROADS NA	30. OTHER CULTURAL FEATURES NA
BOUNDARIES			
31. BOUNDARY LINES NA	32. PUBLIC LAND LINES NA		
MISCELLANEOUS			
33. GEOGRAPHIC NAMES BK	34. JUNCTIONS BK	35. LEGIBILITY OF THE MANUSCRIPT BK	
36. DISCREPANCY OVERLAY BK	37. DESCRIPTIVE REPORT BK	38. FIELD INSPECTION PHOTOGRAPHS NA	39. FORMS BK
40. REVIEWER Bernard Kurs Bernard Kurs		SUPERVISOR, REVIEW SECTION OR UNIT J. W. Vonasek J. W. Vonasek	
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.			
COMPILED Jerry L. Hancock Jerry L. Hancock		SUPERVISOR Joseph W. Vonasek Joseph W. Vonasek	
43. REMARKS			

Review Report
Photogrammetric Bathymetry
and Topographic Map TP-00520
May 1976

61. General Statement

The map was reviewed in its Class I (field edit applied) stage by the Quality Control Group. The Descriptive Report contains all of the pertinent information which may be required by users of this map.

62. Comparison with Registered Topographic Surveys - None

63. Comparison with Maps of Other Agencies

Refer to Compilation Report, Item #46.

64. Comparison with Contemporary Hydrographic Surveys

Photobathymetry is a component part of the map. A copy of the map was furnished the hydrographic party to provide support for a standard hydrographic survey. The hydrographic survey was accomplished in all areas not covered by photobathymetry. Sounding lines were run to evaluate the photobathymetry and to resolve questions noted by the compilation office.

The Officer-in-Charge, Atlantic Hydrographic Party, had the final authority and responsibility for resolving discrepancies, if any, between hydrographic and photogrammetric data. All accepted photobathymetry was transferred to the smooth sheets and identified as such by the hydrographer.

A comment is carried on the map as follows: Depths on this map may not be final. Refer to contemporary hydrographic surveys of the area for combined photobathymetry and hydrography.

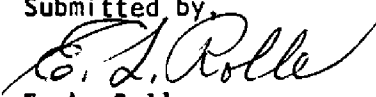
65. Comparison with Nautical Charts

Refer to Compilation Report, Item #47.

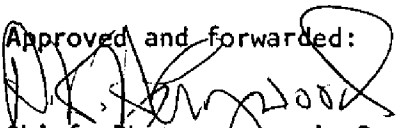
66. Adequacy of Results and Future Surveys

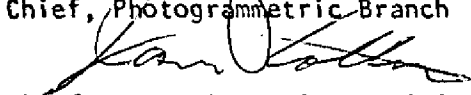
This map meets the National Standards of Map Accuracy and complies with Compilation Instructions and Bureau requirements.

Submitted by,


E. L. Rolle

Approved and forwarded:


Chief, Photogrammetric Branch


Chief, Coastal Mapping Division

3 June 1975

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7402 (Beaufort Inlet, N. C.)

TP-00520

Beaufort Inlet

Bogue Banks

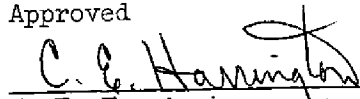
Fort Macon

Onslow Bay

Shackleford Banks

Shackleford Point

Approved



C. E. Harrington

Staff Geographer-C51x2

TP-00520
National Archives Data

- 1 Discrepancy Print for the Field Editor
- 2 Form C&GS-152
- 1 Sketch (Coast Guard reservation limits)

Photography:

73C(C)5651
73C(C)6379