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
LOCALITY
State North Carolina
General Locality Beaufort Inlet
Locality Beaufort
•••••

1973 TO 19 74
REGISTRY IN ARCHIVES
DATE

☆ U,S. GOVERNMENT PRINTING OFFICE: 1974-762-901

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NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOS PHERIC ADMIN	TYPE OF SURVEY SURVEY	тр.00519
	D ORIGINAL MAPEDIT	ION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY MAP CLA	S Final
	REVISED JOB	7402
PHOTOGRAMMETRIC OFFICE	LAST PRECEEDING MAP ED	ITION
Coastal Mapping Division (Norfolk)	TYPE OF SURVEY JOB	PH
OFFICER-IN-CHARGE		SS
	RESURVEY SURVEY I	
Jeffrey G. Carlen, CDR - NOAA	1 13_10	19
I. INSTRUCTIONS DATED		
1. OFFICE	2. FIELD	
General Instructions - OFFICE-5/10/74	Photography (Special Ba and Topo.)	thymetry 10/23/73
Amendment No. 1 8/10/74	Field (Special Survey)	
	m2 - 7 2 m 22 t	0.40= 4=1
	Field Edit	8/21/74
II. DATUMS		
I. HORIZONTAL: T 1927 NORTH AMERICAN	OTHER (Specify)	
I 1927 NORTH AMERICAN	OTUED OF MAN	
MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL: MEAN LOW-WATER MEAN LOWER LOW-WATER MEAN SEA LEVEL	National Geodetic Vert	
3. MAP PROJECTION	4. GRID(S)	
	STATE ZONE	
Lambert Conformal	N.C. N.A	•
1:5,000	STATE	
III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
	D.O. Norman	5/74
METHOD: Block Adj. LANDMARKS AND AIDS BY	2 70 0 8 9	
	R. Robertson	5/74
Oalcomp	A.L. Shands	8/74
3. STEREOSCOPIC INSTRUMENT CONTOUTS PLANIMETRY BY COMPILATION CHECKED BY	J. Byrd & J. Hancock	8/74
INSTRUMENT: Wild B-8 Photobathymetrycontours BY	A.L. Shands	8/74
SCALE: 1:3,000 Pantographed tochecked BY	J. Byrd & J. Hancock	8/74
4. MANUSCRIPT DELINEATION 1:5,000 PLANIMETRY BY	J. Hancock	9/74
Photobathymetricontours by	B. Kurs	9/74
METHOD: Smooth Compilation	J. Hancock B. Kurs	9/74
Drafting HYDRO SUPPORT DATA BY	N.A.	7/14
SCALE: 1:5,000 CHECKED BY	N. A.	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	B. Kurs	9/74
6. APPLICATION OF FIELD EDIT DATA	J. Hancock	1/75
CHECKED BY	A.L. Shands	1/15
7. COMPILATION SECTION REVIEW BY 8. FINAL REVIEW BY	A.L. Shands	5/7/-
8. FINAL REVIEW BY 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	L. L. NOILC	1 3/ /6
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	E.L. Rolle	5/76
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	P. CATOR	15/10/



NOAA FORM 76-36B

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

TP-00519

COMPILATION SOURCES

Wild "RC-10"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFER	TIME REFERENCE		
TIDE STAGE REFERENCE PREDICTED TIDES REFERENCE STATION RECORDS TIDE CONTROLLED PHOTOGRAP	нү	(C) COLOR		Eastern MERIDIAN 75th	STANDARD DAYLIGHT		
NUMBER AND TYPE	DATE	12:19TIME	SCALE	STAGE OF TIDE			
73C(C)5842-5846 73C(C)5787-5793 5798-5800* 73C(C)5691-5695 73C(C)5695-5703 73C(C)5575-5580 73C(C)6366-6368 6377-6381	11/7/73 11/7/73 11/7/73 11/7/73 11/7/73 11/7/73 11/12/73 11/12/73	12:18-12:12 12:18-12:12 12:18-12:12 11:35-11:34 11:34-11:34 10:59-10:59 13:30-13:36 13:30-13:36	1:7,500 1:7,500 1:7,500 1:7,500 1:7,500 1:7,500	1:15 ft. above 0.80 ft. above 1:15 ft. above 0.85 ft. above 0.95 ft. above 0.81 ft. above 0.65 ft. above	e MLW * lowing al tidal		

photographs included in the bridge.

2. SOURCE OF MEAN HIGH-WATER LINE: The elevation of the MFW line above NGVD in each tide zone was used to delineate it using the color photography listed above.

The source of the MHW line is the tide coordinated color photography

listed above under iteml.

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 using the color photography listed above.

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

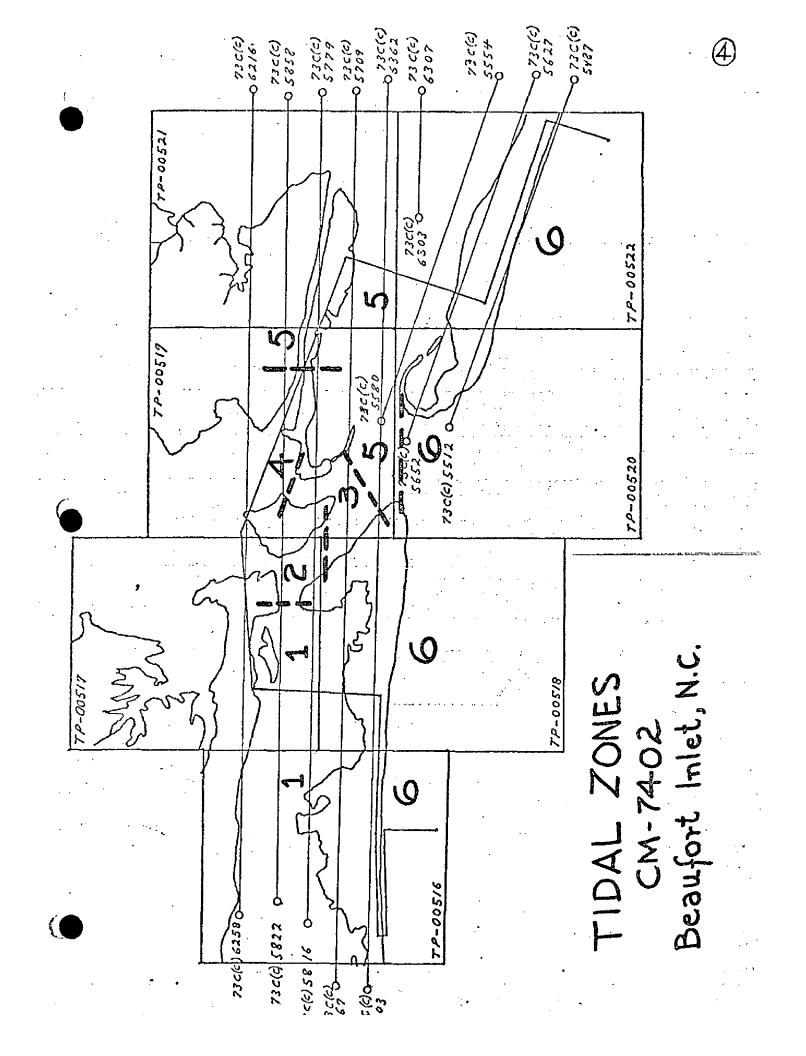
4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED
5. FINAL JUNCTION	IS EAS	ST.	SOUTH	w	EST TP-00517
NO SUPVEY		TP-00521	TP-00520		TP-00518

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

TP-00 519 TIDE INFORMATION

PHOTOGRÁPHY	TIDE STATIONS (In operation at time of photography)	CTAGE OF TIDE Feet	TIEAN RANGE Feet
	TIDE STATION TIDAL ZONE*		
73C(C)5575-5580	Beaufort Inlet 5 Channel Range	+0.81MLW	3.26
73C(C)5691-5695	Fort Macon 3 Coast Guard Dock	+0.85MLW	3.18
73C(C)569\$-5703	Beaufort Inlet 5 Channel Range	+0.95MLW	3.26
73C(C)5787-5793	Beaufort Inlet 5	+0.80MLW	3.26
73C(C)5790-5796	Channel Range Duke Marine Lab 4	+1.00MLW	3.00
73C(C)5796-5800	Port Terminal 2	+1.15MLW	3.10
73C(C)5842-5843	Port Terminal 2	+1.25MLW	3.10
73C(C)5843-5846	Duke Marina Lab 4	+1.15MLW	3.00
73C(C)6366-6368	Beaufort Inlet 5 Channel Range	+0.65MLW.	3.26
73C(C)6377-6381	Fort Macon 3 Coast Guard Dock	+0.65MLW	3.18
	*Refer to the following page for a Tidal Zone Diagram.		•
- ,			
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· .			



ESSA FORM 76-36c (2-70)

ESSA FORM 76-36C

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

HISTORY OF FIELD OPERATIONS

I. TIELD INSPECTION OPERATION	FIELD EDIT OPERATION	
OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.S. Tibbetts	Oct. 1973 Sept. 1974
RECOVERED		Oct. 1973
2. HORIZONTAL CONTROL ESTABLISHED		11 11
PRE-MARKED OR IDENTIFIED RECOVERED	BY	Sept. 1974
3. VERTICAL CONTROL ESTABLISHED		11 11:
PRE-MARKED OR IDENTIFIED		Oct. 1973
RECOVERED (Triangulation Stations)		
4. LANDMARKS AND LOCATED (Field Methods)	N.A.	
AIDS TO NAVIGATION IDENTIFIED TYPE OF INVESTIGATION	BY	
COMPLETE		
GORAPHIC NAMES INVESTIGATION SPECIFIC NAMES ONLY	BY	
NO INVESTIGATION		
5. PHOTO INSPECTION CLARIFICATION OF DETAILS	BY N.A.	
7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED		
I. SOURCE DATA	The second secon	
. HORIZONTAL CONTROL IDENTIFIED Pre-mark	2. VERTICAL CONTROL IDENTIFIED	Pre-mark
Two	One	
PHOTO NUMBER STATION NAME	PHOTO NUMBER STATION E	ESIGNATION
23.0(a)5289: 73.0(a)5791: 73.0(a)5797: 73.0	(a)5848;73c(a)5850;73c(a)6379 (a)5793	; 73c(c)5787;
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED N. A.		
PHOTO NUMBER OBJECT NAME	PHOTO NUMBER OBJEC	CT NAME
PHOTO NUMBER OBJECT NAME		
5. GEOGRAPHIC NAMES: REPORT NONE	6. BOUNDARY AND LIMITS: RE	PORT NONE
7. SUPPLEMENTAL MAPS AND PLANS None. Sketch (Fort Macon Coast G		
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data	submitted to the Geodesy Division)	
4 - Form 76=53, Control Station Id		
ESCA FORM 78.28C		USCOMM-DC 46200-P



NOAA FORM 76-36D

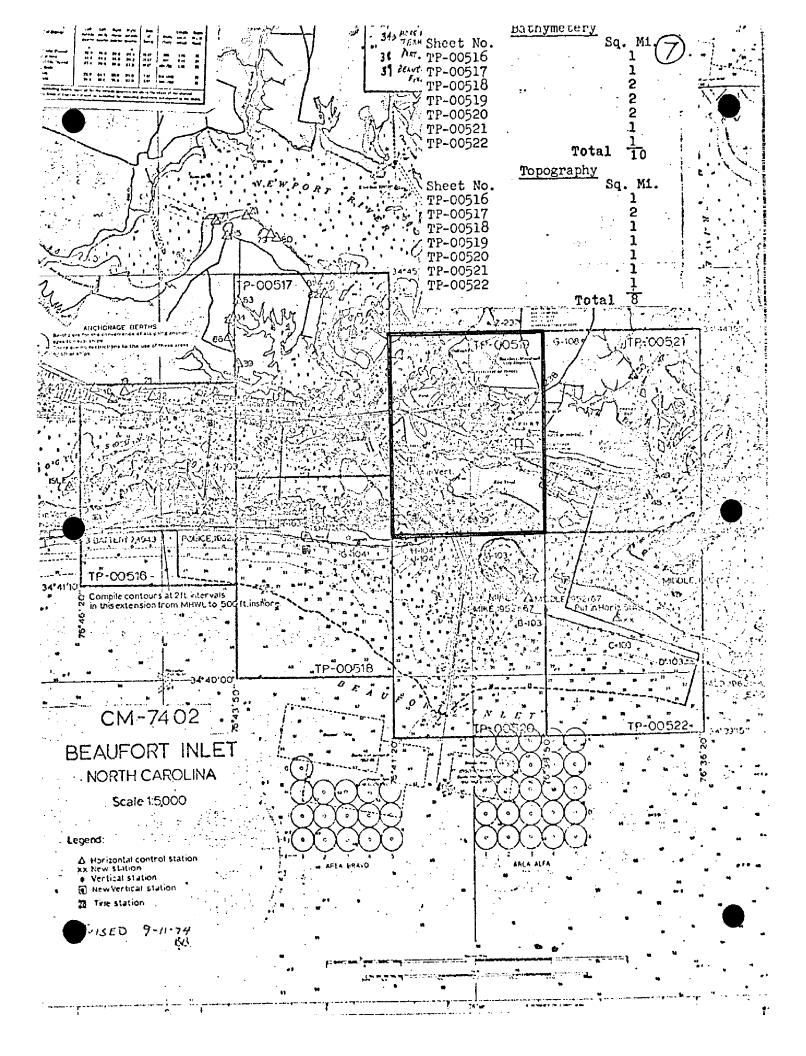
(3-72)

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

TP-00519

RECORD OF SURVEY USE

	00317			<u> </u>			
I. MANUSCR	RIPT COPIES						
	COM	PILATION STAGE	<u> </u>			DATE MANUSCRI	PT FORWARDED
	ATA COMPILED	DATE		REMARKS		MARINE CHARTS	HYDRO SUPPORT
	ation complete g field edit	Aug.1974	Class	III manus	cri	ot	
revisio	edit applied & ons made due to tical datum	Jan.1975	Class	I manuscr	ipt		Jan.1975
	ſ						
II. LANDMA	RKS AND AIDS TO NAVIGAT	ION	<u> </u>	· · · · · · · · · · · · · · · · · · ·			
	RTS TO MARINE CHART DIV		DATA BRANC			· -	
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED		· · · · ·	REMA	LRK5	
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						, <u> </u>	
		•					No. of the last of
	JEGORT TO MARINE CHART	DUILLON GOAST				·	
_	REPORT TO MARINE CHART REPORT TO AERONAUTICAL						
	AL RECORDS CENTER DATA		KEROMAGII	ONE BATA GEOTI	0.11.1.	TE TOTAL DEBT	
1. [X] 2. [X]	BRIDGING PHOTOGRAPHS; CONTROL STATION IDENTIF SOURCE DATA (except for Ge ACCOUNT FOR EXCEPTIONS	DUPLICATE	T FORM	NOS 567 SUBMITT	TED BY	FIELD PARTIES.	·
	_		_	,			
4	DATA TO FEDERAL RECOR	DS CENTER, DAT	E FORWARDE	U:			_
IV. SURVE	Y EDITIONS (This section she SURVEY NUMBER	JOB NUMBE		map edition is reg		TYPE OF SURVEY	
SECOND	TP	(2) PH			REV	VISED RES	SURVEY
EDITION	DATE OF PHOTOGRAPHY			□		MAP CLASS	FINAL
	SURVEY NUMBER	JOB NUMBE	R		$\overline{}$	TYPE OF SURVEY	i
THIRD		(3) PH			L.J REV	•	URVEY
EDITION	DATE OF PHOTOGRAPHY			_n.	<u>□</u> ,	. —	- IFINAL
	SURVEY NUMBER	JOB NUMBE	R	-		YPE OF SURVEY	
FOURTH	` 	(4) PH			LIREV		URVEY
EDITION	DATE OF PHOTOGRAPHY	DATE OF FI	BLD EDIT	Пπ.	\Box _m	MAP CLASS	DEINAL



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-00519

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.



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.

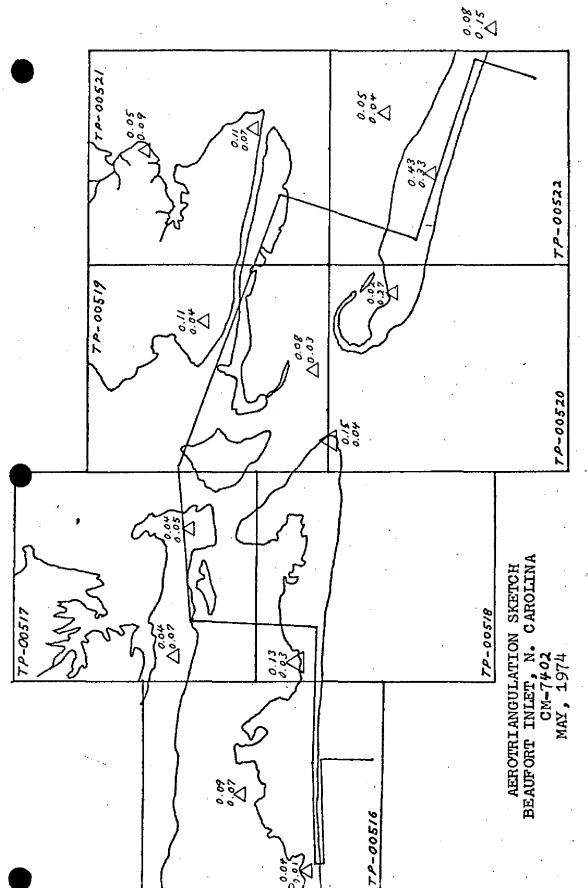
Submitted by,

Don O. Norman

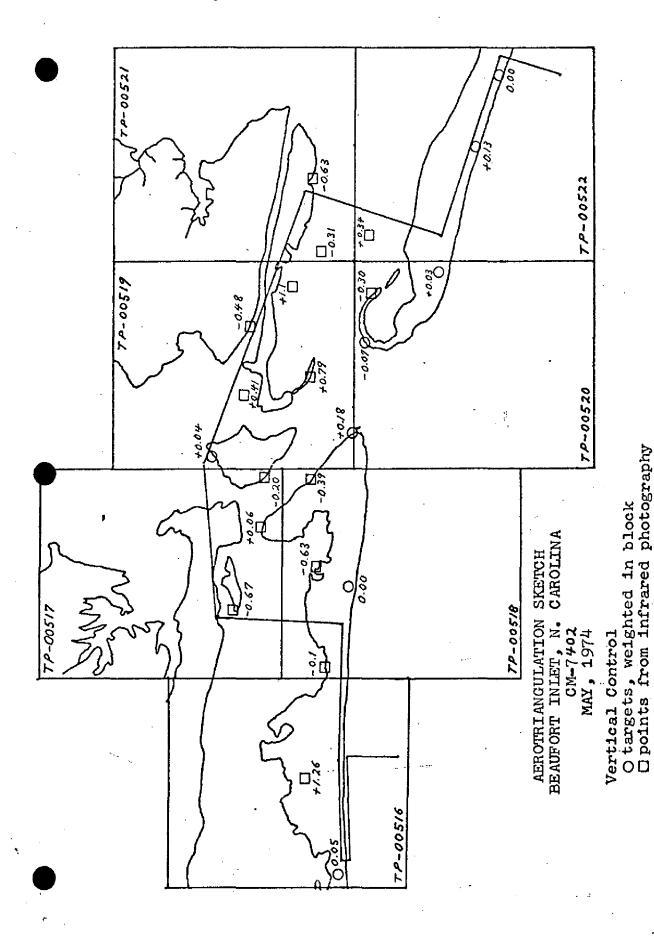
Approved by:

John D. Perrow, Jr.

Bridging Photography



△ Horizontal Control



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

A C& GS- 164) NOAA FORM 76-41 (2-71) USCOMM DC 34168-D71 (FORMERLY

DESCRIPTIVE REPORT CONTROL RECORD

SCALE OF MAP 1:5,000 PROJECT NO. CM-7402 MAP T- TP- 00519

SCALE FACTOR

			200	
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	X LATHTUDE-OR-Y COORDINATE Y LONGHTUDE OR-X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 FL. = 3048006 meter) FORWARD
BEAUFORT MUNICIPAL	N.C. Vol. III	N.A.,1927	R, 701, 951.09	
BEAUPORT INLET CHANNEL RANGE		=	2,701,501.14	
BEAUFORT COURT HOUSE	日 707 J.N	=	2, 702, 201.74	
1010 A 1013	ا ام	=	361,140.61	
E 1943	目 10/ J.Z.	<u></u>	2, 637, 592, 16	
THE CONTRACTOR OF THE CONTRACT	Page 2958			
WMRL TOUGH 1962 Bas 3042	Pa 0'6 30 \$2	=	7,695,183.60	
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4 4 4	to any comment			•
* Stations not snown	1			
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		•		
COMPUTED BY	OATE		CHECKED BY	DATE
er en	•		M. McGinley	February 2, 1974

Compilation Report TP-00519

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 graphically 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.

The mean high water line and the 2 foot contour vary in elevation by 0.3 of a foot or less and are nearly coincident in some areas. Where coincidence occurs, both lines are combined and delineated with the mean high water line symbol.

All significant drainage was compiled.

35. Shoreline and Alongshore Details

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.

Delineation of photobathymetry in some areas was impeded by water turbidity and suspended silt.

37. Landmarks and Aids

19

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 CM-7219, which is a part of project SCOPE.

- 38. Control for Future Surveys None
- Junctions

Refer to form 76-36B, 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 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:

9. L. Stord

A.L. Shands

Cartographer, Sept. 4, 1974

Approved by:

Joseph W. Vonasek Chief, Special Projects Section

Approved;

Victor E. Serena

Chief, Photogrammetric Branch, AMC



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.



JOB CM 7402 BEAUFORT INLET, N.C... MAP: TP-00519

52. Adequacy of Compilation.

Compilation was generally adequate. The "marsh" areas at the easterly limits of the map are actually "grass in water or foreshore". The shoreline in this area is fast with "grass in foreshore". This discrepancy was dealt with on the field edit ozalid as were several oyster bars in the vicinity.

A similar discrepancy also occurs along the south bank of Taylor Creek near the center of the map. Here, again, the shoreline is fast with areas of grass in foreshore. The inshore edge of the "grass" areas closely approximate the mean high water line in this area. Grass areas were indicated on the field edit ozalid, as was the MHWL, and appropriate cross-references were made.

The MHWL on the north bank of Bird Shoal is actually behind an extensive area of "mud in foreshore" not im front of it as compiled. The "mud" shows as a dark brown almost black area and the MHWL falls on the inshore edge of this tone. The "mud in foreshore" and the MHWL were indicated on the field edit ozalid and cross-referenced to the appropriate photographs. Just to the west of the "mud in foreshore" the MHWL in this area takes a significant deviation from the line compiled. A single measurement was taken from a photo-identificable point to the MHWL and the "approximate" MHWL inked in on the photographs from this point. This was done due to lack of time and personnel to accurately place the true MHWL and on instructions received from the Chief, Photo Field Survey Branch, AMC.

One the southwesterly bank of Bird Shoal, on the island called Bulkhead Shoal, a large area of "mud in the foreshore" was erroniously compiled as "marsh". The MHWL falls on the inshore edge of the mud as detailed in the discussion on the north bank of Bird Shoal above.

There are some areas of "oysters" in the vicinity also. "Mud and/or oyster" areas were indicated on the field edit ozalid, as was the MHWL, and cross-referenced made to the proper photographs. Once again, the MHWL to the west of the "mud in foreshore" area takes a significant deviation from the line compiled. The MHWL in this area closely approximates the two foot contour as compiled. A single measurement was taken from a photo-identifiable point to the MHWL and the MHWL approximately entered on the photographs from this point. The approximate MHWL was indicated on the field edit ozalid.

From longitude 76° 40. 15" eastward, the entire south shoreline of Bird Shoal is not as compiled. It is not known whether this shoreline was compiled from infrared photography or from the color photography supplied the field editor, but not line, as compiled, is visible on the color photography. The true MHWL falls somewhere on the white sandy area of the photographs. As no photo-identifiable points were available in this area and time did not permit a ground survey, permission was obtained from the Chief, Photo-Field Survey Branch, AMC, to ink am approximate MHWL on the photographs. This was done and attention drawn to it on the field ozalid.

Three vertical control points were requested for this map, two of them on the northern bank of Bird Shoal and the other on Bulkhead Shoal. All three of them, erroniously labeled Town Marsh 1, 2, 2.3, were located horizontally from photographs, indexed on form 76-53 and indicated on the field edit ozalid and



the appropriate photograph.

A check on the two and four foot contours was requested in the southwestern corner of the map. Permission to ignore this question, due to difficulty of terrain, was obtained from Mr. Royley of the Rockville Office on October 1, 1974. For a discussion of this terrain see the field edit report for Map TP-00520.

Verification of the marsh limits in the area mentioned in the preceeding paragraph was also requested. The "marsh limit" compiled is actually a line of relatively short marsh grass that junctions with taller lighter marsh grass. The "true" "marsh limit" is just at the edge of the tree line and just slightly before the two foot contour. The marsh limit was indicated on the field edit ozalid and cross-referenced to the appropriate photograph.

The limits for the Fort Macon Coast Guard Reservation were obtained from the engineering office at Fort Macon Coast Guard. The true boundry falls two feet outside of a fence which is clearly evident on the color photographs. Approximate limits were entered on the field edit ozalid and on the color photographs. True distances and bearings were indicated on a sketch, Sketch "A", which is included with this report.

54. Recommendations

There are no recommendations.

55. Examination of Proof Copy

Geographic Names

A geographic names investigation was requested for one specific name "Tombstone Point". The question regarded placement of the name rather than verification. However, as no one could be found who was familiar with the name, let alone its placement, the name is most likely obsolete. If the name is retained it should probably be applied to the southeasterly side of Fishing Creek.

56. Landmarks and Non-Floating Aids for Navigation

There was no requirement for landmarks or non-floating aids for this project.

57. Rocks, Reefs, and Shoals

There are no reefs, as defined, within the limits of this map. There are two or three unimportant rocks in the foreshore near the southwesterly corner of the map. They were delineated correctly. Heights and times of observations were indicated on the field edit ozalid. One group of "rocks" in the same area are concrete mooring anchors for floating aids to navigation. Whether they have been stockpiled in this area or abandoned is not known. Heights and times of observations were given for these also.

The only shoal worthy of mention is the huge one that occupies the entire center of the map, Bird Shoal. It was accurately delineated, excepted as noted under side heading 52 above.

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

NOAA	FORM	75-74

U.S. DEPARTMENT OF COMMERCE NOAA NATIONAL OCEAN SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

		TF	≥ 00519	(23)
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
B. Kurs	BK		ВК	BK
CONTROL STATIONS				
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF ACCURACY	6. RECOVERA OF LESS TH (Topographi	BLE HORIZONTAL STATIONS IAN THIRD-ORDER ACCURACY c stations)	7. PHOTO HYDRO STATIONS
BK			NA	NA
8. BENCH MARKS	9. PLOTTING OF	F SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
BK	BK		BK	NA
ALONGSHORE AREAS (Nautical	(Chart Data)			
12. SHORELINE	13. LOW-WATER	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
MA BK	BK		BK	NA
16. AIDS TO NAVIGATION	17. LANDMARK	S	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
NA	BK		BK	BK
PHYSICAL FEATURES				
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS
BK			IN BK	NA
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
BK	BK	NA	BK	BK
CULTURAL FEATURES				
27. ROADS	28. BUILDINGS		29. RAILROADS	-30. OTHER CULTURAL FEATURES
BK	BK		BK	BK
BOUNDARIES				
31. BOUNDARY LINES NA NA NA				
MISCELLANEOUS				
33. GEOGRAPHIC NAMES		34. JUNCTION	S	35. LEGIBILITY OF THE MANUSCRIPT
BK			BK	BK
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
BK	BF		NA	BK
40. REVIEWER			SUPERVISOR, REVIEW SECTION	N OR UNIT
Dernard Kurs Bernard Kurs			J. W. Vonasek	
41. REMARKS (See attached she	eet)		V	
FIELD COMPLETION ADDITIO	NS AND CORRECT	TIONS TO THE	MANUSCRIPT	
42. Additions and correction script is now complete ex			tion survey have been applied t	o the manuscript. The manu-
COMPILER Jerry L. I	Han cock		SUPERVISOR	Morenek
Reviewer A. L. Shar	nds quela	School	Joseph W.	Worksek Vonasek
43. REMARKS			0	

Review Report Photogrammetric Bathymetry and Topographic Map TP-00519 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. <u>Comparison with Maps of Other Agencies</u>

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.

D 1/1

E. L. Rolle

Approved and forwarded:

Hief, Photogrammetric Branch

Chief, Coastal Mapping Division

3 June 1975

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP-00519

Beaufort

Beaufort and Morehead (RR)

Beaufort Inlet

Beaufort-Morehead City Airport

Bird Shoal

Bulkhead Channel

Buldhead Shoal

Fort Macon

Fort Macon State Park

Fort Macon Creek

Gallant Channel

Gallant Point

Horse Island

Morehead City Channel

Newport Marshes

Newport RiverPin (

Phillips Island

Pivera Island

Approved

C. E. Harrington

Staff Geographer-C51x2

Radio Island

The Causeway

Tombstone Point

Town Marsh



National Archives Data

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

Photography:

73C(C)5787, 5789, 5791, 5793, and 5797 73C(C)5842,5844,5846, 5848, and 5850 73C(C)6379