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

DESCRIPTIVE REPORT

Type of Survey Special.Sur	veys
Job No CM-7501	_{Мар No.} ТР-00886
Classification No. Final	Edition NoJ
Field Edited Map	

LOCALITY

	AL	Paula 1 1 ma	
C 4 _ 4 _	NOLTU	Carolina	
state .			

General Locality ...Oregon inlet

Locality Duck Island

19 74 TO 19 75

REGISTRY IN ARCHIVES

DATE

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

OAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE -72) NATIONAL OCEANIC AND ATMOS PHERIC ADMIN.	TYPE OF SURVEY	SURVEY TP. 00886
-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	D ORIGINAL	MAP EDITION NO. (
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DESCRIPTIVE REPORT - DATA RECORD	RË\$URVEY	MAP CLASS Final CM JOB <u>5501</u>
	REVISÉD	јов <u>— 7501</u>
HOTOGRAMMETRIC OFFICE Coastal Mapping Division	LAST PRECEED	NG MAP EDITION
Rockville, Maryland	TYPE OF SURVEY	JOB PH
FFICER-IN-CHARGE		MAP CLASS
	RESURVEY	SURVEY DATES:
Commander James Collins		······
1. OFFICE		FIELD
General Instructions-OFFICE- 1/23/75	Instructions-FIEL Instructions-Phot	
	Instructions-Fiel	
. DATUMS		
. DRIVINS	OTHER (Specify)	
]. HORIZONTAL:		
X MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL:	National Geodeti	c Vertical Datum
MEAN LOWER LOW-WATER	of 1929	
MAP PROJECTION		GRID(S)
Lambert Conformal	STATE	ZONE
	North Carolina	N.A.
SCALE	STATE	ZONE
1:5,000		<u> </u>
II. HISTORY OF OFFICE OPERATIONS		
OPERATIONS		
AFROTRIANGILATION ANALYTIC BLOCK	I. Raborn	DATE 3/75
	I. Raborn	<u>DATE</u> 3/75
METHOD: Adjustment LANDMARKS AND AIDS BY	I. Raborn N.A.	
METHOD: Adjustment LANDMARKS AND AIDS BY . CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY	I. Raborn N.A. D. Phillips N.A.	3/75
METHOD: Adjustment LANDMARKS AND AIDS BY . CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY . STEREOSCOPIC INSTRUMENT CONTOURS & PLANIMETRY BY	I. Raborn N.A. D. Phillips N.A. G. Vanderhaven	3/75 3/75 5/75
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U.S. G.P.O. 1972-769382/582 REG.#6

NOAA FORM 76-368

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

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TP-00886

COMPILATION SOURCES

N -00000	· · · · ·						<u> </u>	
1. COMPILATION PHO								
	RC-10 3		TYPES	OF PHOT	OGRAPHY		TIME REFERE	NCE
Wild RC-8 6'	' focal l	ength		LEGEND			I IME REFERE	INCE
TIDE STAGE REFERE	NCE		(c) co⊔	~ ~	/	ZONE		
PREDICTED TIDES	;		I		-	Easte	ern	X STANDARD
REFERENCE STAT	ION RECORD	s		CHROMAT		MERIDIA	. <u>.</u> N	
X TIDE CONTROLLE	D PHOTOGRA	РНҮ	(I) INF	RARED B	6W	75th		DAYLIGHT
NUMBER AND	TYPE	DATE	TIME		SCALE		STAGE OF T	
74C(C)1390,92		10/31/74	1423-14		:10,000		<u> </u>	
74C(C)1422,24,2	26	10/31/74	1444-14		:10,000	Refer	to follow	ing nage
74C(C)1460,62,6		10/31/74	1501-15	-	:10,000	nerer	0 101104	ing page
74C(C)1691,93,9		11/1/74	1442-14		:10,000	for t	idal infor	mation
74C(C)1722,24,2		11/1/74	1459-15	-	:10,000			
	20							
74E(1)7625-27	,	10/31/74	1423-14		:5,800			
74E(1)7653-7650	>	10/31/74	1444-14	-	:5,800			
74E(1)7689-92		10/31/74	1501-15		:5,800			
74E(1)7825-27		11/1/74	1442-14		:5,800			
74E(1)7853-55		11/1/74	1459-15	1 00	:5,800			
REMARKS					•••			
2. SOURCE OF MEAN								
The source of	the MHW 1	ine is the t	ide-coor	dinated	l çolor p	photograp	ohy listed	above
under item l.					``			
4							-	
•								
3. SOURCE OF MEAN								
The source of							ony and ra	ttoea
prints of the	B&W infra	red photogra	phy list	ed abov	e under	item I.		
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4. CONTEMPORARY	HYDROGRAP	HIC SURVEYS (List	only those su	rveys that	are sources f	or photogram	nețric survey îni	formation.)
SURVEY NUMBER	DATE(S)	SURVEY CO	PY USED	SURVEY	NUMBER	DATE(S)	SURVEN	COPY USED
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5. FINAL JUNCTION: NORTH NO CONTE		EAST		SOUTH		Ţ	WEST NO CO	ontem-
porary Survey		TP-00887		TP-00	888	1	porary Sur	
REMARKS AS th	15 15:2 4		no attem	1				
NOS jobs in th		special job;	no accom	PC 103		janetio		
100 3005 111 11								
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NOAA FORM 76-36B (3-72) NOAA FORM 76-36B(1) (7-75)

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

TIDE - COORDINATED PHOTOGRAPHY

CATION AND PHOTOGRAPHY		IDE STATIONS a st time of photography	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	MEAN RANGE
	TIDE STATION	TIDAL ZONE*	Feet	<u>Feet</u>
4c(c)1390,92	Oregon Inlet	Bridge 14	+0.14 MLW	0.8
4C(C)1422,24,26	lu u	u 14	+0.20 MLW	0.8
4C(C)1462,64	11 11	51 14	+0.27MLW	0.8
4E 7625R-7627R	11 11	יי 14	+0.14 MLW	0.8
4E 7653R-7656R	11 11	14	+0.20 MLW	0.8
4E 7691R-7692R		·· 14	+0.27 MLW	0.8
4C(C)1390,1392	Roanoke Soun		+0.25 MLW	0.4
4C(C)1422,24,26	II / II		+0.22 MLW	0.4
4C(C)1460,62,64		" 3	+0.20 MLW	0.4
4C(C)1691,93,96			+0.37 MLW	0.4
4C(C)1722,24, 72 26	1	" 3	+0.35 MLW	0.4
4E7625R-7627R		··· 3	+0.25 MLW	0.4
4E7653-56R		··· 3 ·· 3	+0.22 MLW	0.4
4E7689R-7692R			+0.20 MLW	0.4
4E7825R-7827R		··· 3	+0.37 MLW +0.35 MLW	0.4
4E7853R-7855R		3	+0.35 MLW	0.4
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*Refer to the following page for a Tidal Zone Diagram



NOAA FORM 76-36C

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

(5)

TP-00886 HISTORY OF FIELD OPERATIONS

 1.	X FIELD INSPE	CTION OPER	TION		DEDIT O	PERATION			
		ÓPF	RATION		I			T	DATE
					R.S.	Tibbe		· •	10774
1.	CHIEF OF FIELD	PARTY			L.F.	Beugn	et		7/75
F				RECOVERED BY		Tibbe			10/74
2	HORIZONTAL CO			ESTABLISHED BY		Tibbe			10/74
1				R IDENTIFIED BY		Tibbe			10/74
\vdash				RECOVERED BY		Tibbe			10/74
	VERTICAL CONT	[BOI		ESTABLISHED BY		Tibbe			10/ 7 4
1.	FERITORE CON			R IDENTIFIED BY		Tibbe			10/74
\vdash						Tibbe			
				lation Stations) BY		Beugn			10/74
4.	LANDMARKS AN AIDS TO NAVIGA		LOCATED	(Field Methods) BY		Deugn	#L		7/75
-				IDENTIFIED BY	NA	,			
			TYPE OF INV						
5.	GEOGRAPHIC NA		X COMPLE	TË BY		_			
	INVESTIGATION		SPECIFIC	NAMES ONLY	$ L_{\bullet}F_{\bullet} $	Beugn	et		7/75
			NO INVE	STIGATION					
6.	PHOTO INSPECT	NON	CLARIFICATIO	N OF DETAILS BY	NA				
7.	BOUNDARIES AN	D LIMITS	SURVEYED C	R IDENTIFIED BY	NA				
_	SOURCE DATA	s:-							
1.	HORIZONTAL CO				2. VER	TICAL CO	NTROL IDEN	ITIFIED	
	All stati	ons pre-	marked		All	statio	ns pre-	marked	
L P	HOTO NUMBER		STATION NAM			NUMBER		ATION DESIG	NATION
3.	PHOTO NUMBER	S (Clarificatio	n of details)						
		c)-1693	,						
4.	LANDMARKS AN	D AIDS TO NA	VIGATION IDENT	IFIED					
	Locate	ed at th	e time of t	field edit.					
P	HOTO NUMBER		OBJĘCT NAM	<u>۲</u>	рното	NUMBER		OBJECT N	AME
5.	GEOGRAPHIC N	AMES: [REPORT	NONE	6. BOU	INDARY AN	D LIMITS:	REPOR	
7.	SUPPLEMENTAL								ليدي
		None							
8.				NOT list data submit	ted to the	Geodesy L	ivision)		
	6 CSI c	ards N	OAA FORM	76-53					
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NOAA FORM 76-36D (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ٦.

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TP-00886

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RECORD	0F	SURVEY	USE

	cc	MPILATION STAGE	S			DATE M/	NUSCRIP	T FORWARDED
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Compil	lation Complete							
	ng field edit	7/3/75	Class III	Manuscri	nt			7/3/75
		113/13		Hanaserr				
Field	Edit Applied	7/22/75	Class I Ma	anuscript				
	¥ I							
					Í			
I. LANDMA	RKS AND AIDS TO NAVIG	ATION			······		ľ	
1. REPO	RTS TO MARINE CHART D	IVISION, NAUTICAL	DATA BRANCH					
NUMBER	CHARTLETTER	DATE			REMAR			
NUMBER	NUMBER ASSIGNED	FORWARDED				<u></u>		
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	EPORT TO MARINE CHAR				-			
	EPORT TO AERONAUTICA		, AERONAUTICAL	DATA SECTI	ION. DA	TE FORW	ARDED:	
III. FEVER/	AL RECORDS CENTER DA							
				рт. ГХІсо		BEARON	T 0	I.
2. X C	BRIDGING PHOTOGRAPHS CONTROL STATION IDENT	IFICATION CARDS		16-44-05 SHERNIT	TED BY		ARTIFS	
	SOURCE DATA (except for (
A	ACCOUNT FOR EXCEPTIO	NS:			,		• • • •	
4 🛄 ¤	DATA TO FEDERAL RECO	RDS CENTER. DAT	E FORWARDED:					
IV. SURVEY	Y EDITIONS (This section			edition is reg				
	SURVEY NUMBER							
SECOND	TP -							URVEY
	DATE OF PHOTOGRAP			D				
EDITION	SURVEY NUMBER	JOB NUMBE	R			YPE OF S		
EDITION			ļ					URVEY
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THIRD	TP -	(3) PH				MAP CL	ASS.	
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THIRD		(3) PH HY DATE OF F1 JOB NUMBE	ELO EDIT	 11.		_	□ v.	FINAL
THIRD EDITION,	DATE OF PHOTOGRAP	JOB NUMBE	ELO EDIT	<u> </u>		TPE OF S	□ v.	
THIRD	DATE OF PHOTOGRAP	DATE OF F	ELD EDIT	<u>_</u> 11.		TPE OF S	URVEY DRESC	

NOAA FORM 76-36D



SUMMARY TP-00886 thru TP-00891

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Under a cooperative agreement with the Corps of Engineers, Wilmington District, which became effective in October,1974, these six maps (TP-00886 thru TP-00891) were compiled at 1:5,000 scale in the area of Oregon 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, 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 covering the area.

Field operations, which began in October 1974, 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 1:10,000 scale from natural color film taken with the Wild RC-10 super-wide-angle camera. Supplemental black-and-white infrared tide-coordinated photography at 1:5,800 scale, taken concurrently in an independent mode using infrared film in the RC-8 camera, was also furnished.

Six strips of the 1:10,000 scale color photography were bridged by analytic aerotriangulation methods and adjusted to ground with the block adjustment. Thirteen horizontal control stations, and twentyfour vertical control stations were weighted in the block adjustment. This provided horizontal and vertical control for compilation.

Compilation photography was the 1:10,000 scale color photography and the supplemental infrared photography. The Wild B-8, using the 1:10,000 scale photography, was used to compile planimetry, topography, and photobathymetry. The topography consists of 2-foot interval contours and spot elevations referred to the Mean Low Water Datum established by NOS. 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 of each map, ten ozalid copies of each map, and one set of color printons covering the project were forwarded to:



Department of the Army Wilmington District, Corps of Engineers P.O. Box 1890 Wilmington, NC 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 OFERATIONS REPORT SPECIAL SURVEYS ORECON INLET, N. C. JOB CM-7501

Operations commenced on October 16, 1974. A total of 25 pre-marks, 15 horizontal and 10 vertical, were placed in position by October 26, 1974. Horizontal panel no. 3 and, vertical panel no. 16 were combined into one station due to their proximity. One extra horizontal control panel, included in the above total, was placed near Hill, 1974 which is an auxillary station used in locating some of the other control stations. Photography commenced on October 31, 1974 and was completed November 1, 1974. A total of eight lines were flown with two of them being reflown on the 1st. No high water photography was taken.

Ten of the paneled control stations were in water. These panels were placed in position by jetting down, with a small gasoline powered pump, four two by fours 12 feet in length to a depth of stability. The two by fours were then braced diagonally from the center with one by fours and laterally with fourteen gauge galvanized wire. The panels were then fastened to the top of the resulting structure. All control was paneled with the same configuration of panels. No distinctions were made between vertical control panels and horizontal control panels, i.e., both have 1.6 foot equilateral triangles for center panels and rectangular wing panels.

Nine of the horizontal control stations were located by three point theodolite fixes with check angles. Three were located by traverse, four by angle and distance, one by solar azimuth and distance, and one station was marked direct. The vertical control stations in the water were located with sextant fixes which are included on the back of their respective Control Station Identification Cards. Traverses and three point fixes were entered in Form 76452 Observation of Horizontal Directions which is enclosed with this report.

Information regarding angles and distances, solars and stations marked direct are included on the respective Control Station Identification card of the station involved.

A total of fifteen miles of levels was run to establish elevations on the National Geodetic Vertical Datum of 1929 on seven horizontal control panels and one vertical control panel. These are panel nos. 1, 2, 3 and 16 combined, 9, 10, 11, 12 and 21. Elevations of panel mos. 13, 14 and 15 were effected by transferring the water level from the Davis Slough Tide Staff. Elevations are given in feet above staff zero as no NGVD elevation was available for the staff. Water level transfers were made to panel nos. 7, 22 and 23 from Davis Slough Tide Staff and Old House Slough Tide Staff. Once again elevations were given in feet above staff zero as no NGVD elevations were available for the staffs. Panel nos. 17 and 19 had elevations transferred from the Oregon Inlet Marina Tide Staff and the Duck Island Tide Staff. The statement regarding elevations of previous panels also applies to these panels. The elevations for panel nos. 24 and 25 was transferred by water level from No Name Tide Staff. Fanel no. 18 was transferred from the Duck Island Tide Staff as were the water level stakes for panel nos.4 and 5. Two water level stakes were used for panel no. 5 as an island was directly between the panel and the tide staff involved. The water level between the two stakes checked almost flat.

Panel nos, 8 and 20 were leveled directly from the Main Channel Tide Staff by differential levels. Elevations were given in feet above staff zero as no NGVD elevation for the staff was available.

The extra panel near Hill 1974 and panel no. 6 were leveled directly from Old House Slough Tide Staff by differential levels. Once again elevations were fiven above staff zero as no NGVD elevation for the staff was available.

Water tranfers of elevations to panel nos. 7, 13, 14, 15, 18, 19, 22, 23 and 24 were made by using a level rod as a portable tide staff. The rod was held in the water against the center panel and wiggled around until settlement in the sandy bottom ceased. The top of the panel on the rod was then read and observations commenced on the water level on the rod. Simultaneous observations were made on the respective tide staffs and transmitted by radio to the party at the panel, by subtracting the mean water level reading on the rod from the reading at the top of the panel and adding the result to the mean tide staff reading, the elevations of the panels above zero of the tide staffs involved was obtained.

Elevations were transferred to panel nos. 4, 5, 17 and 25 by using a combination of water level and differential leveling. A stake was driven to water level near the stations while tide staff observations were transmitted via radio to the level party. Differential levels were then run from the water level stakes to the panels. By adding the height of the panel above the stake to the mean staff reading, the elevations of the panels above zero of the respective staffs were obtained.

Names used for the tide staffs involved in the above operations were indicated on the job diagram which is included with this report. Information obtained was entered in several Forms 76-77. Levels run to the land stations were entered in Form 638 Wye Leveling. Both are included with this report.

Tide observations during photography and leveling to the Jennette's Fier Tide Staff and the Oregon Inlet Bridge Tide Staff were entered in Form 76-77 Leveling Record - Tide Station. Frior levels had been run to the Jennette's Pier Tide Staff by a tide party from Rockville office. No such levels were run to the Oregon Inlet Bridge Tide Staff. A new tidal bench mark (No. 5, 1974) was established near Oregon Inlet Bridge Tide Staff and this mark was then tied to the existing marks at the Oregon Inlet Marina. The elevations obtained were referred to the zero of the Oregon Inlet Bridge Tide Staff.

Field work was completed on November 19, 1974 and all control panels were removed by November 21st. All pertinent data was completed and sent to Rockville on November 25, 1974.

Richard E. Kesselring d Surveying Technician Photo Farty 62

NOTE: These was field incustion and the station

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Photogrammetric Plot Report Oregon Inlet, North Carolina CM-7501 March 1975

21. Area Covered

This report pertains to six sheets in the vicinity of Oregon Inlet, North Carolina. The Sheets (1:5,000) are TP-00886 thru TP-00891.

22. Method

Six strips (see sketch) of 1:10,000-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 1:5,800-scale infrared support photography and also the bridging photography. Common points were located between strips 6 and 7 in order to set models in strip 7 if needed. Data for ruling projections were furnished to the Calcomp to be plotted in the North Carolina State plane coordinate system.

23. Adequacy of Control

The control was adequate, but horizontal panel number 2 (Bodie Island L.H. 1875, SS"A") did not meet the National Map Accuracy Standards in either of the strips or the block. Since the home station was "floated" and fit the adjustment, the substation was eliminated from the adjustment. Thirteen horizontal control stations were weighted in the adjustment. The largest residual in the fit to horizontal control was 1.7 feet.

Twenty-four vertical cotnrol stations were weighted. The largest residual in the fit to these stations was 0.72 foot.

24. Supplemental Data

USGS quadrangles were used to provide vertical control for some of the strips adjustment.

25. Photography

The photography was adequate as to coverage, overlap, and definition.

Respectfully submitted,

July O. Raham Ivey O. Raborn

Approved and forwarded:

John D. Perrow, Jr. Chief, Aerotriangulation Section

JOB CM-7501 DREGON INLET NORTH CAROLINA I:5000 Scale JAN. '75

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Strip 1	1:10000 COLOR 74C (01236-1267
	1: 5800 Blu) IR. 74 E 75248-7553R
STRIP 2	1:10000 COLDR 74C(0/307-1339
. •	1:5800 B/W IR 74 E 7567R-7587R
	1:5800 " " " 7590R-7617R
STRIP 3	1:10000 COLCE 74C(0) 1384-1417
	1:5800 B/WIR 74E 7619R-7647R
STRIP 4	1-10000 Cape 74 C (C) 1418-1444
	1:5800BlwIR 74E 7649R-7675R
STRIP 5	1: 10000 Case 74 C (2)1448-1484
	1:5800 BIWIR 74E 76782-7709R
STRIP 6	1:10000 COLOR 74 C (C) 1688-1711
	1:5800Blw) IR 74E TB21R-T74BR
	1:5800 B/W 12 74 E 77118-77362
STRIP 7	1: 10000 Case 74 C (C) 1718-1744
	1:5800 Bluie 74 E 78492-78782
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Shoot 1

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NOAA FORM /0-41 (2-75)				U.S. NATIONAL OCEANIC AND A	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
		DESCRIPTIV	IVE REPORT CONTROL RECORD		
MAP NO. TP-00886	CM-7	7501	GEODETIC DATUM N.A. 1927	ORIGINATING ACTIVITY	VITY
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	from NASA, 1962		y= 774,286.92	λ.	2
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LIGHTHOUSE, 1875	P8. 3107	001007	y= 770,398.09	γ	
	, , , , , , , , , , , , , , , , , , ,		x= 3,018,252.20	φ	ر معر
S.S. A PANEL &	romput ed	Inicar	y= 770,259.38	٢	C 7' C
1	Computed by		x= 3, 012, 642.89	φ	, EBO // T
HORIZONTAL PANEL 4	by theodolite	601109	y= 766,044,55	X	LIDE STAFF O.C.
CLUR 1933			x= 3,009,291.04	φ	
HORIZONTAL PANEL #5	1 - 224	0110/	y= 762,653.01	۲	100 ftmls and
BODIE ISLAND NAT. PARK *	TTL, Vol, TTL		x= 3,015,070.96	•	
SERU. WATER TANK, 1962	P& 145	201102	y= 776,700.07	۷	
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* Not shown on map.			χ=	φ	
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			д=	Υ	
COMPUTED BY J. D. PEATOW		DATE /74	ED BY B	.P.T.	DATE 12 /9 /74
LISTED BY J. D. PERTOW				B, P, T.	DATE 12 /9 /74
HAND PLOTTING BY			HAND PLOTTING CHECKED BY		DATE

31. Delineation

The map was compiled on the Wild B-8 stereoplotter using the 1:10,000 scale color photography. Black-and-white infrared photography, taken concurrently, was ratioed and used graphically to supplement compilation of the mean low water line and areas of shallow depths.

32. Control

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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

A diagram, outlining 18 tidal zones within the project area, was furnished. The diagram provided the mean range of tide and the vertical differences between MLW datum and the NGVD of 1929 for each zone.

34. Contours and Drainage

The quality of the photography was adequate for contour compilation. All contours and terrain elevations were refered to MLW datum.

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 lines were compiled on the B-8 stereoplotter using contour compilation methods. The black-and-white infrared photography was used graphically to supplement compilation of the mean low water line. 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. The photobathymetry is referenced to the mean low water datum established by NOS. Areas of questionable compilation accuracy were referred to the field editor/and/or the hydrographic party for verification.

Suspended silt restricted the placement and density of discrete soundings in some areas.

37. Landmarks and Aids

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

Forms 76-40 were not prepared. All positions of landmarks and nonfloating aids will be forwarded to the Marine Chart Division under project SCOPE.

38. Control for Future Surveys - None

39. 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 Oregon Inlet, N.C., scale 1:24,000, edition of 1953, photorevised 1970.

47. Comparison with Nautical Charts

A comparison has been made with the following nautical charts:

NOS No. 12204 (1229), scale 1:80,000, 20th edition, March 8, 1975. NOS No.12205 (129-SC), scale 1:40,000, 0th edition, Feb. 22, 1975.

Items to be Applied to Nautical Charts Immediately - None

Items to be Carried Forward - None

Submitted by,

G. Fromm

Approved and forwarded:

E. L. Rolle Quality Control Section



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49. NOTES FOR THE HYDROGRAPHER

The Atlantic Hydrographic Party was furnished with preliminary reconnaissance maps of the project area showing approximate shorelines, channels, shallow and shoal areas compiled graphically from the ratio photos.

As the model w ork progressed, copies of the worksheets were furnished to indicate areas where photobathymetry was being accomplished.

Ozalid copies of the inked manuscripts in an advanced stage of completion were furnished as a final designation of areas lacking photobathymetry.

FIELD EDIT REPORT JOB CM-7501 OREGON INLET, NC TP-00886

51. METHODS

Field edit of this manuscript was accomplished by skiff. All corrections, additions and deletions have been noted on the field edit ozalid and field edit notes appear on photographs 74C(c) 1693 and 74C(c) 1390.

52. ADEQUACY OF COMPILATION

There was no field inspection prior to compilation. Compilation of the manuscript is adequate and will be complete upon application of field edit data. Many of the stakes and piles located during compilation are no longer in existence and should be removed from the manuscript. An overhead powerline near the northeast end of OFF ISLAND and a platform to the east of Roanoke Sound Channel Light 2 were located. A submerged wreck near latitude 35° 37' 07" longitude 75° 35' 10" was not found by the field editor.

54. RECOMMENDATIONS

There are no recommendations.

Leo J. Bengnit

Leo F. Beugnet Supervisory Cartographer

10 July 1975

FIELD EDIT APPLICATION

TP-00886

Del Norte instrumentation platforms installed by the Corps of Engineers were positioned and plotted as "platforms". Upon receipt of notification of their removal (approx August 1975) they can be removed.from the manuscript/

Notification not received as of 6-30-76

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OAA FORM 75-74				U.S. DEPARTMENT OF COMMERC
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		TF	P = 00886	
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8. BENCH MARKS	9. PLOTTING C	OF SEXTANT	10, PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
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ALONGSHORE AREAS (Nautical	Chart Data)		J	
12. SHORELINE	13. LOW-WATER	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
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16. AIDS TO NAVIGATION	17. LANDMARK	(S	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
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23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	SIN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
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CULTURAL FEATURES			<u> </u>	,,,,,,,, _
27. ROADS	28. BUILDINGS	5	29. RAILROADS	30. OTHER CULTURAL FEATURES
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BOUNDARIES	······································			·····
31. BOUNDARY LINES			32. PUBLIC LAND LINES	
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MISCELLANEOUS 33. GEOGRAPHIC NAMES	,	34. JUNCTION	5	35. LEGIBILITY OF THE
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	1.54			
36. DISCREPANCY OVERLAY	37. DESCRIPTI	IVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39, FORMS
E.R.	E.R.	1 -	N.A.	E.R.
40. REVIEWER	Dr n	17	SUPERVISOR, REVIEW SECT	ION OR UNIT
Edward L. Rolle	Shi al	V Alla	S.G. Blankenb	
	mund Or	noul	1 D. D. Shard	ental
41. REMARKS (See attached the FIELD COMPLETION ADDITIO		TIONS TO THE		
42. Additions and correction:	s furnished by th	he field complet	······	l to the manuscript. The manu-
script is now complete ex	cept as noted un	der item 43.	0	·
Richard R. White	Thite		Joseph W. Von	nesik
43. REMARKS			<u> </u>	
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Review Report Photogrammetric Bathymetry and Topographic Map TP-00886 June 1976

61. General Statement

The map was reviewed in its Class I (field edit applied) stage by the Quality Control Section. 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 the 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.

forwarded nrove/d hotogrammetric Branch

Chief, Coastal Mapping Division

Submitted by

E.L. Rolle

20 August 1975

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7501 (Oregon Inlet, North Carolina)

TP-00886

Big Time Island

Blossie Creek

Bodie Island

Duck Island

Herring Shoal Island

Little Tim Island

Off Island

Roanoke Sound

Roanoke Sound Channel

Walter Slough

Approved by

Chas. E. Harrington Staff Geographer-C51x2







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TP-00886 National Archives Data

Discrepancy Print for the Field Editor
 NOAA Form 76-53 Control Station Identification
 Photography: 74C(C)1390 & 1693 (color ratios)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

-.-

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
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FORM C&G5-8352 SUPERSEDES ALL EDITIONS OF FORM C&G5-975.