9528

Diag. Cht. No. 1229-2.

NOAA FORM 76-35A

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

DESCRIPTIVE REPORT

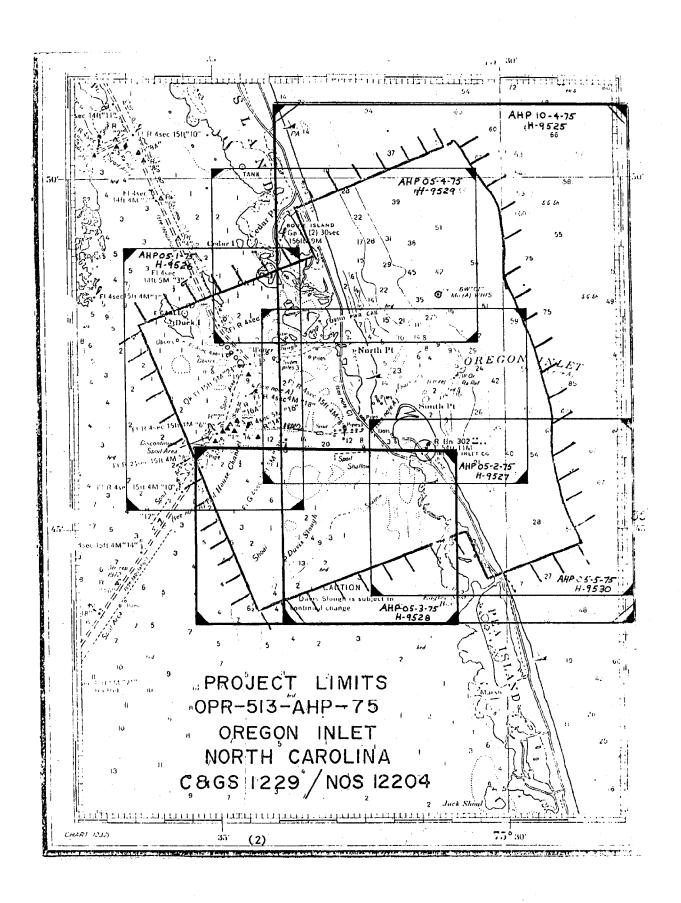
(HYDROGRAPHIC)

Type of Survey HYDROGRAPHIC Field No. AHP-05-3-75 Office No. H-9528
LOCALITY
NORTH CAROLINA
General Locality PAMLICO SOUND
Locality BAVIS CHANNEL
19 CHIEF OF PARTY J. O. ROLLAND
LIBRARY & ARCHIVES - 3-1-76 DATE
DATE

☆ U.S. GOV. PRINTING OFFICE: 1975-668-353



QAA FORM 77-28 U.S. DEPARTMENT OF COMMERCE [1-72] NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	REGISTER NO.
HYDROGRAPHIC TITLE SHEET	
	н-9528
INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form,	FIELD NO.
filled in as completely as possible, when the sheet is forwarded to the Office.	AHP-05-3-75
State North Carolina Pamlico Sound	
General locality Oregon Inlet	·····
Locality Davis Slough Channel	
cale 1:5,000 Date of sur	yey May-July 1975
structions dated 28 Feb 75 Project No.	OPR-513-AHP-75
,	
Vessel Launch 1277	
Chief of party John O. Rolland	
Surveyed by W.A. Wert, F.L. Kleinschmidt, J.S. Bradford,	D.M. Bryant
Soundings taken by echo sounder, Hald 4866, pole	
Graphic record scaled by Launch Personnel	
Carebia second abandad by Laumah Parsannal	
Protracted by N/A Calcomp plotter 618 Automa	Calcomp platter 618
Protracted by N/A CAICOM II PIONIA Automa	ted plot by PDP 8/e /1 /VI
Verification by PDP 8/4 8.J. St	ephenson
Soundings in Mathema feet at MLW MRKWX	
REMARKS: Red notes and changes by B.J.	Stenhenson AMC
REMARKS: Ked notes and Changes by B.J.	Stephenson AVIC
The following data is filed with the field records.	
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z. Electronic Corrector Abstract.	() The contract of the contra
(1)	



Descriptive Report

To Accompany

Hydrographic Survey H-9528 (AHP-05-3-75)

Scale: 1:5,000 1975

Vessel: Atlantic Hydrographic Party LCDR John O. Rolland, Chief of Party

A. Project

OPR-513 is a cooperative agreement between NOS and the U.S. Army Corps of Engineers to provide a new hydrographic data base for computer model studies of Oregon Inlet. The survey was accomplished in accordance with Project Instructions OPR-513-AHP-75 dated 28 February 1975, change number 1 dated 21 March 1975, the Revised Hydrographic Manual and Chapter 3 of the AMC Manual.

Provisio nal RE

B. Area Surveyed

The area encompassed by Sheet AHP-05-3-75 is an irregular section extending from the shore of Pea Island westward approximately 3 miles to the project limit. The approximate limits of hydrography are bounded on the east by the shoreline of Pea Island, on the south and west by the project limits, and on the north by 35° 45' 50". Detailed prior surveys of the area are: H-3000, 1:20,000 scale 1909; and H-6228, 1:10,000 scale, 1937, All field work was accomplished during the period 8 May 1975 to 17 July 1975.

C. Sounding Vessel

Launch 1277 was used exclusively to accomplish the survey work on AHP-05-3-75.

D. Sounding Equipment and Corrections to Echo Soundings

A Raytheon Fathometer, model number DE723D, serial number 1904 was used in Launch 1277. This fathometer often fails to sound (digital and analog) in depths under the transducer ranging from 2.4 feet or less and never sounds in depths less than 1.9 feet; therefore numerous pole soundings were necessary in shoal water. As a result undue time is spent inserting and logging long words on both the corrector and TC/TI tapes necessary for pole soundings. Depth corrections were obtained by averaging bar check values and excluding values which differed by more than 0.4 feet.

A graph was constructed and velocity correctors were scaled in accordance with Table 3 of the Revised Hydrographic Manual. Bar checks were taken on days 160, 184, 196, and 197. Hydrography began on day 128 and ended on day 198. One velocity table was used for the entire survey. The graph, corrector value abstract and bar check abstract are included with this report. Settlement and squat correctors were obtained as outlined in Section 4.9.4.2 of the Revised Hydrographic Manual. The graph and corrector value abstract are included with this report. Daily TRA corrections were determined as outlined in Section 4.9.4.1 of the Revised Hydrographic Manual to reflect Gain/Loss of fuel load. Frequent A to F scale checks were taken to insure correct chylus arm length. All initial settings were adjusted to zero. All fathograms were scanned to mean out sea swell action where applicable.

Hydrographic Sheets

Field sheets were constructed, raw master tapes were logged and data plotted on the field sheets by the launch's on board PDP 8/e Hydroplot System. Edited master and corrector tapes, velocity tape, and TC/TI tape were logged by launch personnel and submitted for smooth plotting by Processing Division, Atlantic Marine Center.

F. Control Stations

(Oregon Inlet)

Control stations Bodie Island Lighthouse/1875, Oregon Inlet Light "8", P-03 1975 (Bridge), P-02 1975 (Dolphin) CG Cupola 1974, and PD-06 1975 were established or verified by Coastal Mapping Division, Atlantic Marine Center. Refer to Horizontal Control Report OPR-513 Oregon Inlet, North Carolina for surveying methods, geodetic abstracts, and computations. Control station Bodie Island Lighthouse 1875 (ecc) was established by party personnel using a steel tape measure, magnetic compass and program RK407. Refer to Descriptive Report H-9525, AHP 10-4-75 for RK407 printout.

G. Hydrographic Position Control

Del Norte positioning equipment, which operates in a range-range mode, was used to control all of the hydrography on sheet AHP-05-3-75. Four separate control networks were used on this sheet. All shore stations were located at or eccentric to established third-order triangulation or traverse stations. Whenever possible, calibration was established twice daily by positioning the launch at a known third-order traverse · station. Del Norte ranges were compared to ranges calculated by PDP 8/e computer using the RK407 program. Any eccentricity from the traverse mark to the mobile antenna was taken into account at the time of calibration. Refer to daily raw data printouts for calibration data and see appendix for abstracts of correctors. Repeatability of calibration data was good, with a maximum observed difference of 4 meters between morning and evening calibrations of any unit; mean daily differences for the various stations ranged from 0.5 meters to 1.8 meters. The mean standard deviations over all calibrations of a particular station ranged from 1.3 to 2.5 meters. Performance of the Del Norte equipment during the project, however, was fair due to the presence of extensive skip zones throughout the project area, resulting in an excessive number of erroneous positions (approximately 3% of all soundings had to be plotted by time and course). The distance measuring unit (DMU), mobile transponder, and remote stations were all replaced at various times during the project in attempts to alleviate this problem, with no success. The height of the mobile antenna was raised 10 feet in an attempt to laterally shift the skip zones, but little effect was noted. Water seepage into the antennas was also a constant cause of difficulties. The following is a summary of equipment utilization during the project; refer to enclosed signal list for shore station names and locations:

Shore Stations

Signal #	S/N	Julian Days Used
2	181	128-129, 161-162, 197
6	188	175, 184, 196, 198
10	189	129, 132-162, 197
16	188	128, 132-162
16	216	175-198
Mobile Transponders:	S/N	Julian Days Used
	162	128-140
	159	150-198
Distance Measuring Unit:	S/N	Julian Days Used
	159	128-140, 160-198
	182	150-153

H. Shoreline

Shoreline, topographic details and photobath metry were transferred from incomplete manuscripts TP-00888 thru TP-00891. The MLW line could not be delineated by hydrography due to the small tidal ranges encountered (usually less than 1 foot) west of the Oregon Inlet Bridge. The 3 foot curve was defined by hydrography.

I. Crosslines

Approximately 10.3 nautical miles or 12.8% of the main scheme hydrography run on sheet AHP 05-3-75 were crosslines. The agreement with main scheme lines was excellent and all soundings agreed to the nearest foot.

J. Junctions

Junction with photobathymetric data contained on incomplete manuscripts TP-00888 thru TP-00891 proved inconclusive. Soundings on sheet AHP 05-3-75 were reduced for predicted tidal ranges at Oregon Inlet whereas actual tidal ranges observed inshore were substantially less. In general soundings were from 1 to 3 feet shallower in shallow areas (3 feet or less) and agreed to the nearest foot in deeper areas (4 feet or greater). Discrepancies between 5 and 8 feet occurred in a small area centered at latitude 35° 45' 45", longitude 75° 32' 00". The majority of pole soundings and shallow water hydrography was run at or near high water where maximum depth errors exist between actual and predicted tides.

K. Comparison with Prior Surveys

Comparison with H-3000, 1:20,000 scale, 1909 shows little agreement. Comparison with H-6228, 1:10,000 scale, 1937 shows little agreement. Davis Slough has undergone considerable change. It is now much more extensive and has deepened. Davis Slough has shifted approximately 1100 meters east in the northern part of sheet AHP-05-3-75 and approximately 200 meters west in the southern part of sheet AHP 5-3-75. No presurvey review items were contained within the limits of AHP 05-3-75.

L. Comparison with the Chart

A comparison with C&GS chart 129-SC, 8th Edition, 23 February 1974 shows little agreement. Refer to section K of this report for further discussion.

M. Adequacy of Survey

This survey is complete and adequate to supersede prior surveys for charting.

N. Aids to Navigation

No fixed aids or floating aids to navigation are contained within the limits of AHP 05-3-75.

O. Statistics

Nautical Miles Sounding Line	90.6
Number of Positions	1639
Square Miles Surveyed	2.4
Number of Bottom Samples	21

P. Miscellaneous

Velocity corrections have not been applied to soundings due to the absence of the capability to off-line plot using a TC/TI tape.

Q. Recommendations

None

R. Automated Data Processing

<u>NAME</u>	Number	VERSION DATE
On-Line R/R R.T.S.	RK111	8/7/74
Grid, Signal Plot	RK201	2/19/75 and 4/18/75
Off-Line R/R Non R.T.S.	RK211	8/16/74
Utility	AM30C	5/24/73
Utility	RK300	5/22/75
Corrector Abstract	PM360	3/21/74
Geodetic Direct/Inverse	RK407	8/15/74
Predicted Tides	AM500	11/10/72
Calibration	RK561	2/19/75
Elinore	AM602	3/10/72 and 5/21/75

Detached Position List H-9528 OPR-513

Pos. #	Day	Yr.	Description	Position
080	128	75	Pole sounding 1.9'	35° 45' 09.44" / 75° 32' 40.20"
602	161	75	Submerged pile	35° 44' 58.54" / 75° 31' 33.04"(/)
694	161	75	Platform, Davis Slough Tide Gauge	35° 44' 54.90" / 75° 33' 11.40"
1056	184	75	Pile, bares 8'_MLW	35° 44' 46.25" / 75° 34' 15.64"(8)
1067	184	75	Remains of old Buoy	35° 45' 28.04" / 75° 34' 20.23"(Z)
1435-	197	75	Wood Structure, bares 3' MLW	35° 45' 45.54" / 75° 34' 21.14"(2)
1638 -	198	75	Piling, bares 6' MLW	35° 44' 12.23" / 75° 34' 04.98"(<i>9</i>)

S. References to Reports

1. Horizontal Control Report OPR-513, Oregon Inlet, N.C. 1975.

Respectfully Submitted

William A. Wert

LT, NOAA

OIC, Launch 1277

SIGNAL TAPE LISTING OPR-513 ANP-05-3-75 H-9528

SIGNAL	LATITUDE	LONGITUDE	CODE ELEV.	FEBQ.	DESCRIPTION
002 5	-35 49 06 1 88	075 33 49225	254 0046	600000	BODIE IS. LIGHTHOUSE 1974 (CCC.)
095 S	35 46 16584	875 32 48 495	254 0003	8 828888	P-02,1975 (DOLPHIN)
226 G	35 46 28151	075 32 24045	254 0009	000000	RO3, 1975 (BRIDGE)
889 A	35 46 13151	175 31 55103	243 0004	000000	OREGON INLET CHANNEL LIGHT "8," 197:
ଅ1ଡ ଥ	35 46 93.7 4 7	875 31 26724	250 0017	7 ଉପ୍ଟର୍ଷ୍ଥ	c.g. cupoca 1974 (oregon Inlet)
016 2	35 44 17202	375 38 35126	254 0010	300000	PO-06 1975

CAM3-11 3-7-74

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5/3 OPR

POSITION DATA SHEET

SHEET AHP-05-3-75

1277

LAUNCH

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REGISTRY NO. H- 9528

NONE 1639 NONE NONE NON 803,804, 814-820 NONE 1359-1363, 14 HONE NON NONE NON 26-816 1525, 1559, 15 Bottor Sample NOX 162,222,235 284,289,302 584, 596, 607, 695 767,772,806, 810,811 1086, 1104, 1135 Positions 876, 906 Omitted NONE 1370, 1389, 1135,1330 NONE NONE 211 1036 395 78 Duplicate Positions NONE 259-260, 358-359 114, 151, 152 Positions 1397-1398 42,43,79 869-269 Rejected 405-406 NONE 1340-1349 1107, 1108, NONE NONE BNON 519 NONE 774 Positions 1056, 1067 602,694 Detached NONE NONE NONE NONE NONE NONE YONE NONE NONE 1435 1638 NONE Positions Develop-NONE NONE ment NONE -191102 659281 163942 17/036 192432 174234 194844 202346 153856 202108 193510 Time 202936 (GMT) 181153 202517 Last Pos. 519 1639 366 8201 1358 100 469 497 820 251 459 101 920 1569 No. 140640 140649 140616 132408 142528 182538 194045 164400 180433 110181 Time (GMT) 152757 140546 191057 155521 Pos. 252 First 367 470 498 702 460 6201 1570 No. 580 101 821 1359 126 153 Jul. 160 128 132 140 150 162 196 621 175 861 Day 10/ 184 161

35)

TORM CD-26 (12-11-46) U.S. DEPARTMENT OF COMMERCE WORKSHEET									
BAR	CHECK	< ABST	RACT	HONK	A	HP-05	-3-75		
DAY	20 20 20 25							1	Day
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184	- 20	.00	.00	†.20	+.25				Uly 3
196	- 20	-05	+.05	+.15	t. 25				15 2101
107	- 25	05	+.10	t.30				,	July 16
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Approval Sheet Survey H-9528 AHP 05-3-75

The hydrographic records transmitted with this report are complete and adequate.

J. O. Rolland LCDR, NOAA

Chief, Atlantic Hydrographic Party

PROJECTION PARAMETERS

POLYCONIC OR MODIFIED TRANSVERSE MERCATOR

1. Project No. UPR-513	4. Requested By VERIFICATION BRANCH
2. Reg. No. <u>H-9528</u>	5. Ship or Office AMC
3. Field No. AHP-05-3-75	6. Date RequiredASAP
7. Polyconic X Modi	fied Transverse Mercator
8. Central Meridian of Project	ion <u>75 ° 32 </u> ' <u> </u>
9. Survey Scale: 1: <u>5,000</u>	
10. Size of Sheet (check one):	
36 x 54 X 36 x 60	Other Specify
11. Sheet Orientation (check on	
NYX = 1	$NYX = \emptyset \boxed{\mathbf{x}}$
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12 Plotter Origin & W. Corne	7 05 Chapt (22)
Latitude35 ° 43	r of Sheet (not necessarily a grid intersection)
Longitude 75 ° 35	
13. G.P. 's or triangulation and	
14. Material Desired: Tracing	
	Specify -
15. Remarks:	

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

Processing Division: Atlantic Marine Center:

Hourly heights are approved for Form 362

Tide Station Used (NOAA Form 77-12): Oregon Inlet Bridge, Oregon Inlet Channel, Old House Channel, Davis.

Slough, Pea Island, Level Platform #9

Period: May 8, July 17, 1975

HYDROGRAPHIC SHEET: H-9528

OPR: 5

513

Locality: Oregon Inlet Oregon In. Bridge 0.81 ft. Davis Slough 1.49 ft. Oregon In. Channel 1.71 ft. Pea Island 3.7 ft.

Old House Channel 2.22 ft. Level Platform #9 1.9 ft.

Plane of reference (mean lower low water):

Height of Mean High Water above Plane of Reference: *

Remarks: Recommend the use of automatic zoning.

*Station	MHW above Plane of Reference (ft)
Oregon Inlet Bridge Oregon Inlet Channel Old House Channel Davis Slough Pea Island Level Platform #9	1.9 1.2 0.7 1.0 1.3

Chief, Tides Branch

11-72)	NATIONAL O	CEANIC A	U.S. DE	SPHERIC	ADMINIST	RATION	ZUH	IVEY NU	MBER	1
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DAVIS CHANNEL										1
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PAMLICO SOUND							· .			3
PEA ISLAND										4
OREGON INLET										5
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HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. H-9528 AHP-05-3-75

RECORDS ACCOMPANYING SURVEY: To be completed when survey is registered.

RECORD DESCRIPTION		AMO	AMOUNT		RECORD DESCR	AMOUNT					
SMOOTH SHEET	& 2-Overlays	Overlays 1 BOAT SHEETS			1		1		BOAT SHE		2
DESCRIPTIVE R	EPORT		1		OVERL	AYS	2				
DESCRIPTION	DEPTH RECORDS	HORIZ.		PRIN'	PRINTOUTS TAPE ROLLS PUNCHED CARDS						
ENVELOPES	x			1 *							
CAHIERS	1 & P/O.			3	ξ						
VOLUMES											
BOXES					1						

T-SHEET PRINTS (List)

TP-00888-00891

SPECIAL REPORTS (List)

OFFICE PROCESSING ACTIVITIES The following statistics will be submitted with the cartographer's report on the survey

	AMOUNTS				
PROCESSING ACTIVITY	PRE- VERIFICATION	VERIFICATION	REVIÉ	w	TQTALS
POSITIONS ON SHEET					1639
POSITIONS CHECKED		165			
POSITIONS REVISED		10			
DEPTH SOUNDINGS REVISED		200			
DEPTH SOUNDINGS ERRONEOUSLY SPACED					
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED					
	TIME (MANHOURS)				
TOPOGRAPHIC DETAILS		2			
JUNCTIONS	,	10			
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS					
SPECIAL ADJUSTMENTS					
ALL OTHER WORK		131			
TOTALS		143	26		
PRE-VERIFICATION BY		BEGINNINGDATE		ENDING D	DATE
W.H. Tyndall, B.J. Stephenson		10-2-75 BEGINNING DATE		10-1	7-75
VERIFICATION BY			'		
B.J. Stephenson		11-6-75		11-11	
REVIEW BY		BEGINNING DATE	·		
HIT		1-23-76	1	1-23-	·76

REGISTRY NO. H-9528

The Computer and Excess Sounding Cards for this survey have not been corrected to reflect the changes made to the Computer Card and Excess Card Printouts at this time of the review.

When the cards have been updated to reflect the final results of the survey, the following shall be completed:

CARDS CORRECTED

	DATE	TIME REQUIRED	INITIALS
	REMARKS:		
Pos.	34704		
		•	
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		REGISTRY NO.	
		cape containing the data is to reflect the changes	
	When the magneresults of the	etic tape has been update survey, the following s	d to reflect the final hall be completed:
		MAGNETIC TAPE CORREC	TED
	DATE	TIME REQUIRED	INITIALS
	REMARKS:		•

H-9528

Items for Future Presurvey Reviews

This survey is located in an area subject to great change from natural causes and dredging.

Position	n Index	Bottom Change	Use	Resurvey
Lat.	Long.	Index	<u>Index</u>	<u>Cycle</u>
354	0754	5	2	25 years

HYDROGRAPHIC INSPECTION TEAM

ATLANTIC MARINE CENTER

HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO.: H-9528 FIELD NO.: AHP-5-3-75

GENERAL LOCALITY and SPECIFIC LOCATION

Channel

Pamlico Sound, Davis Slough, North Carolina

SURVEYED: May 8, 1975 through July 17, 1975

PROJECT NO.: OPR-513-AHP-75 SCALE: 1:5,000

SOUNDINGS BY: Raytheon Depth Recorder CONTROL: Electronic-

DE=723 Sounding Pole . Del Norte

Chief of Party J.O. Rolland Surveyed by W.A. Wert

..... F.L. Kleinschmidt J.S. Bradford D.M. Bryant

Verified and Inked by B.J. Stephenson

1. Description of the Area

This survey covers an irregular section of the Pamlico Sound. The approximate limits of Hydrography are bounded on the East by the shore-line of Pea Island, on the South by Latitude 35° 44° 15" North, on the West by Longitude 75° 35' 00" West, and on the North by Latitude 35° 45' 50" North. The predominant bottom characteristics are fine gray and brown sand with broken shells.

2. <u>Control and Shoreline</u> Type-Source-Origin

The origin of control is adequately described in paragraph F. of the Descriptive Report.

The shoreline originates with Class I (unreviewed) Photogrammetric Bathymetry and topographic manuscripts TP-00888, 00889, 00890, and 00891, photography October 1974, field edit Suly 1975.

3. Hydrography

- A. Crossings: Depths at crossings are in excellent agreement.
- B. Depth Curves: The standard depth curves were adequately delineated. The three foot depth curve was added to emphasize the bottom features.
- C. Low-water Line: The MLW line could not be delineated by the Hydrographer due to the small range in tide.

4. Condition of the Survey

The sounding records, automated plotting and the Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual, except that bar checks were not in accordance with Section 1.5.2 of the Provisional Hydrographic Manual. Compliance would have provided added support to the reliability of the depths in the areas of overlapping photobathymetric depths.

5. Junctions

Adequate junctions were effected with H-9526 (1975) on the Northwest and with H-9527 (1975) on the Northeast. There was no contemporary junctional survey to the South, West, or Southwest. Soundings in red were determined by Photobathymetric methods using Photographs of October 1974. These soundings were transferred from manuscripts TP-00888, TP-00890, and TP-00891 and provide supplemental information for unsurveyed area, however it is the opinion of the verifier that there is too much disagreement in some areas to consider the soundings as part of the hydrographic survey.

6. Comparisons

- A. Prior Surveys: H-6228 (1937) 1:10,000
 The comparison between the present and prior survey reveals total disagreement. In some areas there is a difference as much as 20 feet. This survey is complete and is adequate to supersede all prior surveys for charting.
- B. Wire Drag: There are no wire drag surveys in the limits of this survey.
- C. Published Chart #12205 (formerly 129-SC), 9th Edition, dated March, 1975.

(a) Hydrography

Chart 129-SC and the present survey show little agreement. The present survey is adequate to supersede the charted hydrography in the common area.

(b) Aids to Navigation

There are no aids to navigation in the limits of this survey.

7. Compliance with Instructions

This survey does comply with the Project Instructions.

8. Additional Field Work

This is an excellent basic survey. Additional field work is not recommended.

9. Hydrographic Inspection Team Comments

The Hydrographic Inspection Team comments are included in Section 4. Verification deficiencies found, if any, have been corrected on the Smooth Sheet.

Additional Notes:

The photobathymetric depths that did not agree with the hydrographic depths were not plotted on the Smooth Sheet. In most cases the photobathymetric depths were one to two feet deeper than the hydrographic depths. The difference between the photobathymetric and the hydrographic depths is contributed to the approximately six month time lag between the photobathymetric and hydrographic surveys in this area of highly changeable bottom.

ATLANTIC MARINE CENTER APPROVAL SHEET FOR AUTOMATED SURVEY H- 9528

Α.	All revisions and additions made on the smooth sheet during verification have been entered in the magnetic tape records for this survey. A new final position printout has/has not been made. A new final sounding printout has/has not been made.
	Date: 2/9/76
	Signed: Coale Vailt
	Title: Chief, Processing Division
В.	The verified smooth sheet has been inspected by the Hydrographic Inspection Team, is complete, and meets the requirements of the Hydrographic and AMC Manuals. Exceptions are listed in the verifier's report. Date: 2/19/76 Signed: Chief, Operations Pivision
С.	Approved and forwarded.
	Date: 2/20/76
•	Signed:
	Title: Director, Atlantic Marine Center



UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration

NATIONAL OCEAN SURVEY Rockville, Md. 20852

C352

August 27, 1976

TO:

A. J. Patrick & Dratich

Chief, Marine Surveys Division

THRU:

Chief, Quality Control Branch

FROM:

R. W. Derkazarian New Derkazarian Quality Evaluator

SUBJECT:

Quality Control Report for H-9528 (1975), Davis Channel,

Pamlico Sound, North Carolina

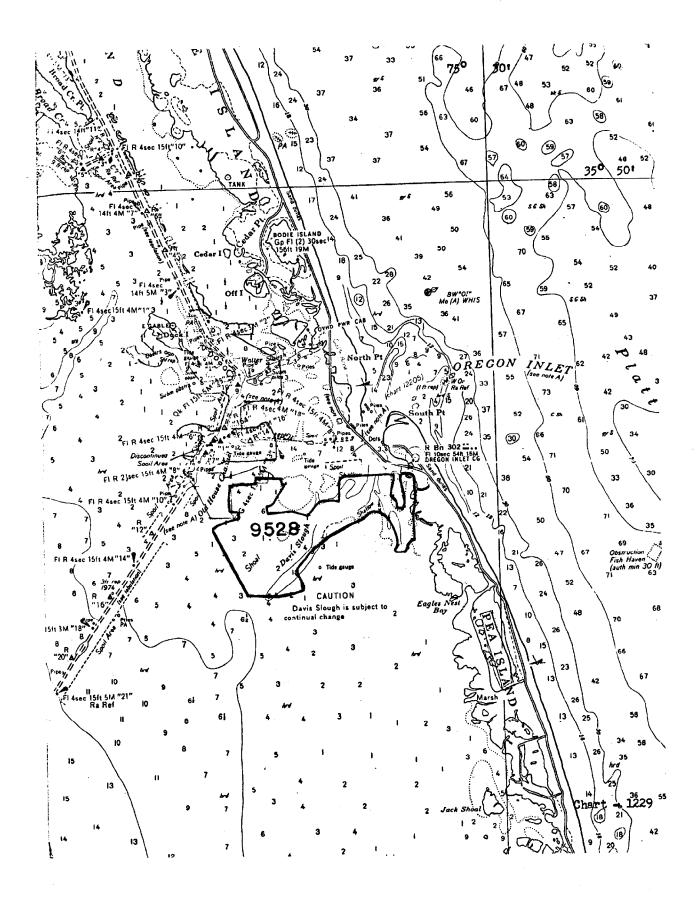
Survey H-9528 was inspected with respect to data acquisition, development of least depths and bottom configuration, adequacy of junctions and soundingline crossings, shoreline transfer, cartographic presentation, smooth plotting, verification, and review. In general, it was found to conform to the National Ocean Survey standards and requirements except as follows:

- 1. No reference need be made regarding a comparison with wire-drag surveys when none fall within the area of the present survey.
- 2. The low water line was revised where necessary to show an orange curve where the curve was adequately defined by photobathymetric soundings or hydrographic soundings and to show a black dotted line from the manuscripts where soundings were not adequate to define the curve. Within areas containing only photobathymetric soundings, the black dotted line from the manuscripts should be used as a guide in drawing the orange curve provided it does not conflict with the reduced soundings.
- 3. The note on the smooth sheet giving the source of photobathymetric depths should include the date of the photographs.

cc: C351







NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

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INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

In "Remarks" column cross out words that do not apply.
 Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review

	easons for d		recommendations made under "Comparison with Charts" in the Review.
CHART	DATE	CARTOGRAPHER	REMARKS
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