# 9102

#### 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. WH-20-1-65  Office No. H-9102
LOCALITY
State South Carolina
General Locality Magnolia Beach
Locality Midway Inlet to Murrells
Inlet
19 65
CHIEF OF PARTY ICDR J.P.Randall
LIBRARY & ARCHIVES
DATE

☆ U.S. GOV, PRINTING OFFICE: 1976-669-441

9102

ORM C&G\$-537		ENT OF COMMERCE GEODETIC SURVEY	REGISTER NO.	
н	YDROGRAPHIC TITLE SHEET			
			FIELD NO.	
	Hydrographic Sheet should be accompa as possible, when the sheet is forward		WH-20-1-65	
State	SOUTH CAROLINA	,		
General locality	Magno / 19	Beach		
Locality	Midway Inlet 40	Murrelk	/ N/et	
Scale	1:20,000	Date of sur	vey <u>15 Mar - 1</u>	6 Apr 1965
Instructions dated_	22 Apr 64, 16 Dec 64	Project No.	OPR 437	
Yessel	WHITING			
Chief of party	LCDR James P. Rand	dall .J/AND.J.D7	BOONTIL. J.E. DROP	PP.
Surveyed by	Ship's Officers &	M. PETRYCZÁN	KO, P.L. RICHARDSO	N
=	echo sounder, hard toda, pole			
	ed by Ship's Personnel			
Graphic record check	ked by Ship's Personnel			
			d Plotby	AMC-Calcom Plotter 618
Soundings penciled	by	Automa	ted Plot	AME
Coundings in	MAN feet at MLW MEE	<b>7</b> 7.		
REMARKS:				
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	applied to so	tals 7/29/	174 S	7.7
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USCOMM-DC 8272-P62

# DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SURVEY H- 9102 FIELD NUMBER WH-20-1-65

Coast of South Carolina, Midway Inlet

Scale - 1:20,000 Ship WHITING James P. Randall Commanding 1965

#### Surveyed by:

LCDR James P. Randall
LT R. J. Land
LTJG J.D. Boon III
LTJG J. E. Dropp
ENS R. M. Petryczanko
ENS P. L. Richardson

#### A. Project

Authorization for this survey is contained in Instructions, Project OPR-437, Winyah Bay to Cape Hatteras, Coast of North and South Carolina, dated April 22, 1964 and supplemented December 16, 1964.

#### B. Area Surveyed

The area surveyed is included between lats. 33° 27.0'N and 33° 31.5'N extending seaward from the coast to long. 78° 51.3'W. This area represents 65 percent of the total area to be completed on this boatsheet. Soundings were also taken inside the entrance to Murrell's Inlet. Hydrography began on March 15 and ended April 16, 1965 at which time the WHITING was ordered to return to Norfolk, Virginia to prepare for a special project.

The adjoining survey is PE-20-2-64 to the south. Prior survey H-6539 (1939, 1:80,000) and H-4616 (1926, 1:40,000; 1:20,000) contains the soundings that appear on the present chart, C&GS 1237. For this reason, only soundings from the chart and PE-20-2-64 were placed on the boatsheet. The soundings along with other items such as buoys and shoals are denoted in azure blue pencil.

#### C. Sounding Vessels

Soundings were taken using the ship, launches I & II, and a skiff. Lower case day letters were assigned as follows: Launch I - blue; Launch II - red; skiff - green. Violet capital day letters were assigned to the ship.

#### D. Sounding Equipment

Depths recorded aboard both launches and the ship were obtained with Ratheon DE-723 fathometers. Fathometer #250 was installed on Launch I; fathometer no. 249 was used in Launch II until March 16, 1965 position 4b, after which unit no. 262 was installed due to mechanical failure in #249. The initial setting on both launch units was 1.0 feet, the resultant depths agreeing more closely with actual ones than at any other whole number setting. The ship used unit #251 throughout most of the project with some substitution by unit #249 (repaired) near the end. Both units were connected by switch to the same set of transducers and several sets of simultaneous comparisons revealed negligible differences between their readings. Ship soundings are based on an initial setting of 10.0 feet, approximately the ship's draft. Skiff soundings were taken with a pole graduated in feet.

Corrections to the ship's soundings were derived from leadline comparisons and one temperature-salinity measurement. Launch corrections to recorded depths were derived from bar checks averaged over several selected time intervals during the survey. All the above corrections are presented in Table I. Corrections are scaled to the nearest 0.5 foot and depths recorded to the nearest foot except in inshore areas where corrections are to the nearest 0.2 foot and depths to the nearest 0.5 foot.

#### E. Smooth Sheet

The plotting of the smooth sheet is to be done by the Norfolk processing office.

#### F. Control

Hydrography was controlled both visually using three-point fixes (sheet B, Launch II and skiff) and electronically using HIRAN equipment (Launch I and Ship). Hiran fixes were taken in offshore areas, visual fixes taken inshore where HIRAN arcs intersected at 30° or less. It is to be noted that while a HIRAN arc was used for a guide, control on sheet B is entirely visual. Visual signals include triangulation stations plotted on the boatsheet and topographic signals pricked through from manuscripts T-12298, T-12299, and T-12301. A photogrammetrist, Mr. Robert Tibbetts of party 6420 was assigned to the project by Washington.

HIRAN station VANDAL was located over the triangulation station VANDAL, 1962. HIRAN station NEW was erected over a temporary third-order mark established by ship's personnel using a Wild T-2 theodolite and an electrotape. Corrections to electronic distances were determined from visual fixes on triangulation marks and are presented in Table II.

#### G. Shoreline

The shoreline was transferred from blueline manuscripts T-12298, T-12299, and T-12301 of 1963-64.

#### H. Crosslines

Crosslines were run to the extent of approximately ten percent. Generally good agreement was obtained, i.e. within one or two feet at the intersection, with two notable exceptions. On boatsheet B in the extreme southwest corner near station NEW, three splits and a crossline were run which have soundings of two to three feet less compared with adjacent soundings. These lines are noted in pencil on the boatsheet. As the difference appears regular, it is expected that once actual tides are used, the difference will be resolved. No subsequent malfunction of the fathometer or scanning errors were discovered. Another discrepancy occurs on boatsheet A at lat. 33° 27.7'N, long. 79° 03.1'W here tides are again suspect, particularly so because the time of operation is about the same as for the first incident, a defferent launch and crew are involved and crossline soundings are again too shallow by two to three feet.

#### I. Junctions

H-8838
The junction with PE-20-2-64 to the south is good, soundings generally agreeing within one or two feet.

J. Comparison with Prior Surveys

The only OPR-437 presurvey review item listed for the area surveyed is a 27 foot sounding at lat. 33° 27.95'N, long. 78° 55.6'W originating with H-4616 (1926). Additional development in the area disclosed a depth of 3% feet at CONCUR this point and nothing less than 3% feet in the immediate bette from chart vicinity. In all areas requiring development, the development was done on small overlays which were then placed in the respective sounding volumes.

Prior surveys H-6539 and H-4616 are essentially contained in chart 1237 which will be compared in their place.

#### K. Comparison with the Chart

Comparison with C&GS chart 1237 shows depth agreement generally within one or two feet. Exceptions are found in certain inshore localities and near the 30 foot depth curve as follows:

- 1. Comparison of the chart and latest photographic manuscripts indicates a recession of the shoreline immediately south of Murrell's Inlet. The survey bears this out in that CONCUR 10 to 12 feet of water now occurs where the chart shows a 2 foot depth. Other differences occur in the shoal area around the inlet.
- 2. An irregular bottom east of Murrell's Inlet appears on both the chart and the present survey. Near the 30 foot depth curve, the chart shows several isolated shoal depths which do not appear in the survey, most notably the 27 foot Concur depth mentioned in the presurvey review. The bottom here consists of coarse to fine sand with shell fragments and the shoal depths are believed to represent the peaks of sand waves which could easily have migrated since the time of the last survey in 1939.

#### L. Adequacy of survey

This survey is complete and adequate for charting as far as it has progressed at present. Approximately 35 per cent of the boatsheet remains to be surveyed.

#### M. Aids to Navigation

All aids to navigation shown on chart 1237 were found as indicated. Additional aids in the form of moored fifty-five gallon drums have been installed by local residents to mark the channel in Murrell's Inlet. These are located and described in this survey.

#### N. Tides

A portable automatic tide gage was installed in the Pawley!s Island fishing pier at lat. 33° 25.89'N, long. 79° 07.10'W. The mean low water value relative to the tide staff zero is +2.1 feet. Times are based on the meridian 75°W.

#### 0. Other

Settlement and squat corrections are presented in Table III.  $ec{oldsymbol{ec{\mathcal{V}}}}$ 

### P. Statistics

Vessel	Number of Positions	Nautical Miles Sounding Lines
Launch I Launch II Skiff Ship	493 630 91 1062 2276	153.9 172.5 8.0 380.0 714.4

Total Area Surveyed: 493 square nautical miles

Number of Bottom Samples: 42

Respectfully submitted

John D. Boon III LTJG, USC&GS

# ATLANTIC MARINE CENTER VERIFICATION OF SMOOTH TIDES

#### SURVEY H- 9102

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TIDE STATIOUS		TYPE TIME C	ORR. HELGH	T CORP. *	
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HELGHT OF NHW					
TIDE CORESCEN	ES VERIFI	ED ON SOURDING	PRILETOUT BY	GFT	
DATE OF VERILL	CATION Fe	0.5,1974			

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: Waste Court

BEARITHED B APPROVED

# ATLANTIC MARINE CENTER

## PROJECTION PARAMETERS

# POLYCONIC OR MODIFIED TRANSVERSE MERCATOR

1. Project No. OPR 437 4. Requested By G.F.Trefethen
2. Reg. No. H-9102 5. Ship or Office Verification
3. Field No. WH-20-1-65 6. Date Required ASAP
7. Polyconic X Modified Transverse Mercator
8. Central Meridian of Projection 78° 58' 00"
9. Survey Scale: 1:20,000
10. Size of Sheet (check one):
36 x 54 36 x 60 [X] Other Specify
11. Sheet Orientation (check one):
A L
NYX = 1
N .
N N
CMER
CMER
12. Plotter Origin: S.W. Corner of Sheet (not necessarily a grid intersection)
Latitude 33° 25' 50"
Longitude 79 07' 20"
13. G.P.'s of triangulation and/or signals attached X
14. Material Desired: Tracing Paper Mylar X
Smooth Sheet XX Other Specify
15. Remarks: USE THIS PARAMETER FOR THE SMOOTH SHEET ALSO.

## ELECTRONIC CONTROL PARAMETERS

1.	Project # OPR- 437	2. Reg. # <u>H-9102</u>	3. Field # <u>WH-20-1</u>	<del>-</del> 65
4.	Type of Control:	HI-RAN	(Hi-Fix, Raydist, E	PI, etc.)
5.	Frequency 931.023	(for conversion	on of electronic lanes	to meters)
6.	Mode of Operation (	check one):		
	Range-Range X		Range-Visual	. :
	Range One (R <sub>1</sub> ) Station I.D. Range Two (R <sub>2</sub> ) Station I.D.	VANDAL NEW	Long. 79° 06	34.051 01.641" 29.966" 12.652"
	Hyperbolic (3-sta	tion)	Hyper-Visual	
	Slave One Station I.D. Master Station I.D. Slave Two Station I.D.		Lat. Long. Lat. Long. Lat. Long. Lat. Long.	1
7.	Location of Survey:			•
	Range-Range	Tmagine an observ	er is standing at $R_1$ S at $R_2$ (check one):	tation and
•		Survey area is to	observer's Right	<b>A</b> =∅
	•		observer's Left X	A=1
	Hyperbolic	Looking from surv	ey area toward Master	Station:
		Slave One must be	e to observer's Left;	
		Slave Two must be	e to observer's Right.	•
. 8	. This form is su	ibmitted as an aid	in preparing a boat si	neet.
	This form appli	ies to all data on	this survey.	
			data on this survey.	
	Vessel. EDP # Time	From	To Positio	n Numbers usive)
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	Section of the sectio			to
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. 9	. Remarks:	and they have	· 100	

#### VERIFICATION NOTES SURVEY H-9201

#### GENERAL

This appears to be an excellent basic survey. Soundings are in good agreement at crossings and the depth curves adequately delineate the features of the area except for the Murrell's Inlet channel, which was not adequately developed. The private aids (55 gallon drums) are not shown on the smooth sheet. There was only one (1) located within the records, position 3495, volume 12, page 31.

Problems encounted during verification and the methods used to resolve them are explained in the accompanying AMC "Plotter Notes"

April 19,1974

William L.Jonns
Chief, Verification Br., AMC

Norfolk, Virginia November 21, 1973

# VERIFICATION NOTE TO EDP (AMC) SURVEY H= 9102 GPR 437

Verifier: F.L. Saunders

This office has finished the verification of H-9102 Signal Overlay. Everything was found in order except for Signal 35; a new G.P. of 33 32 35.574 . No change in lattitude.

The origin of the control was T-12298 and the boat sheet. All other control compilations have been destroyed by Rockville office.

W.L. Jonns

Chief, Verification Branch

V

Verifier: Dorothy Calland

December 20, 1973

#### SURVEY H-9102 (WH 20-1-65) OPR 437

Although the position printout and overlay were made without spooling the pattern correctors, this branch has completed the verification of this printout and overlay (11/27/73) and revised 126 positions,40 of which were pattern changes and 60 were for visual control errors. Keypunched cards for same are herewith.

Please furnish this branched with a revised position overlay and printout.

W.L. Jonns

Chief, Verification Br.

Norfolk, Virginia January 2, 1974

#### EDP NOTE TO VERIFICATION (AMC) H-9102 (WH-20-1-65) OPR 437

Attached is a second position printout, which was not plotted because of many card punch errors and omissions of corrections. Check your corrections carefully and also check the applied hiran pattern corrections.

Both patterns and pattern correctors in the printout are ten times the real value; 123.56 in the printout is actually 12.356 statute miles. This confusion results from the fact that all of our printout programs expect only two decimal places where hiran has three. Rather than write a new program for a singular unique case, the existing programs were used, and the pattern values have to be read with the decimal place moved one to the left.

Wayne F. Turnacliff
Data Preparation Group

Verifier: Roy G. Cram

January 17,1974

#### VERIFICATION NOTE TO EDP (AMC) SURVEY H-9102 OPR-437

This office has completed the verification of the second position overlay for H-9102.

There were 8 position changes and 1 time error that were corrected. In addition 91 positions (4000 to 4091) were made negative to ensure plotting of only position dots in a shoal investigation area.

Correctional cards were key-punched by this office. All corrections are on the printout in red pencil.

Please furnish this office with a sounding overlay and printout.

RGC

William L. Johns

Chief, Verification Branch

H-9102 OPR-437 NOTE TO EDP

#### VERIFIER G. F. T.

MARCH 13 1974

This branch has completed the verification of the sdg!s  $\mbox{O}/\mbox{L}_{\bullet}$ 

All changes are shown in red pencil in theprel. sdg!s print out & cards were key punched by this branch.

There were about 200 routine changes i.e. RS,EX,DR Please furnish this branch with a smooth sheet.

W.L.JONNS CH. VER, BR.

# ATLANTIC MARINE CENTER APPROVAL SHEET FOR AUTOMATED SURVEY H-9102

Date: April 23,1974

Signed: william L Jonns

Title: Chief, Verification Branch

B. The verified smooth sheet has been inspected, is complete, and meets the requirements of the Hydrographic and AMC Manuals. Exceptions are listed in the verifier's report.

Date: April 23,1974

Signed:

C.Dale North Jr., CDR, NOAA Citle: Chief, Processing Division

# U. B. DEPARTMENT OF CONTERCT HATIONAL OCEANIC AND ATTOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY

#### TIDE NOTE FOR HYDROGRAPHIC CHEET

Processing Division: Atlantic

larine Center

Hourly heights are approved for Form 362

Tide Station Used (NOAA Form 77-12): Pawley's Island

Period: 14 March - 16 April 1965

HYDROGRAPHIC SHEET: H-9102

OPR: 437

Locality: Murrel's Inlet, South Carolina

Plane of reference (mean lower less water): 2.1 ft.

Height of Mean High Water above Plane of Reference is 4.8 ft.

Remarks: Zone Direct for entire sheet.

Col. Harler
Chief, Tides Division

NOAA FORM 76-155 (11-72) No	ATIONAL O	CEANIC			ENT OF CO		SUF	RVEY NU		V	
GEOGRAPHIC NAMES								H <b>-</b> 9102			
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# U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCHENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY NAUTICAL CHART DIVISION

#### HYDROGRAPHIC SURVEY STATISTICS H-9102 HYDROGRAPHIC SURVEY NO.

(WH 20-1-65) OPR 437

RECORD DESCRIPTION  SMOOTH SHEET PNO & ESO  DESCRIPTIVE REPORT		1 1		NT RECORD DESCRIPTION				1T	
				BOAT SHEETS			1( 2 Par		
				OVERLAYS			<b>XX</b> 3	3 😩	
	DEPTH HORIZ.				TOUTS TAPE ROLLS		PUNCHED CARDS	ABSTRA SOURC DOCUME	CE
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ENVELOPES				<b>22</b>		ang sing a sing a sing		<u> </u>	
CAHIERS	1	<del> </del>			elji kupak				
VOLUMES	14	ļ					,	1	

T-SHEET PRINTS (LINI)

## $\mathbb{D}$ and $\mathbb{A}$ ano

1 copy HI-RAN Report SPECIAL REPORTS (LINI) 1 copy Fathometer Report 2 Control manuscripts

### OFFICE PROCESSING ACTIVITIES

The following statistics will be submitted with the cartagrapher's report on the survey

	AMOUNTS						
PROCESSING ACTIVITY	PRE- VERIFICATION	VERIFICATION	REVIE	TOTALS			
POSITIONS ON SHEET			<u>. 111111.</u>	2276			
POSITIONS CHECKED		230	100				
POSITIONS REVISED		135	0_				
DEPTH SOUNDINGS REVISED		150	10				
DEPTH SCUNDINGS ERRONEOUSLY SPACED		0	0				
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED		0	0				
		TIME (MA	ANHOURS				
TOPOGRAPHIC DETAILS		6	1				
JUNCTIONS		6	4				
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		16	10				
SPECIAL ADJUSTMENTS *	4		* Sca	anning Fath.			
ALL OTHER WORK		159	41	· ·			
TOTALS		191	57	ENDING DATE			
D.C. CALLAND, R.G. CRAM, G.F	. T <b>R</b> EFETHE	BEGINNING DAT	3	3-13-74			
VERIFICATION BY B.J. STEPHENSON		4-9-74	Ť <b>E</b>	4-12-74			
REVIEWBY M Fromb		BEGINNING DA		9-24-75			

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The	Computer rected to	and Exce	ss Sounding the changes s time of th	Cards for made to th	this su e Compu	rvey have	e not i	en
When	n the card vey the i	is have b Collowing	een updated shall be co	to reflect mpleted:	the fi	nal resu	lts of	the
	•							

Reg. No.

CARDS CORRECTED

DATE	TIME	REQ'D		_ :	initials	•	•
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REMARKS:					•		

Reg. No. <u>H-9/02</u>

The magnetic tape containing the data for this survey has not been corrected to reflect the changes made during evaluation and review.

When the magnetic tape has been updated to reflect the final results of the survey, the following shall be completed:

## MAGNETIC TAPE CORRECTED

						•	
D 3'000	•	TIME	REO	'D.	INITIALS		
DATE_	<u> </u>	 					•

REMARKS:

#### OFFICE OF MARINE SURVEYS AND MAPS

#### MARINE SURVEYS DIVISION

#### MODIFIED HYDROGRAPHIC SURVEY REVIEW

REGISTRY	NO.	H-	9102
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FIELD NO. WH-20-1-65

South Carolina, Magnolia Beach, Midway Inlet to Murrells Inlet

SURVEYED: March 15 - April 16, 1965

Sounding Pole

SCALE: 1:20,000 <u>PROJECT NO.</u>: OPR-437

SOUNDINGS: DE-723 Depth Recorders CONTROL: Sextant Fixes on

Shore Signals;

HIRAN

Chief of Party
Surveyed by

R. J. Land
J. D. Boon III
J. E. Dropp
R. M. Petryczanko
P. L. Richardson
Automated Plot by
Cal Comp 618 (AMC)
Verified by
Reviewed by
G. M. Frank
Date: September 24, 1975

Cursory inspection made--survey D. J. Romesburg processing considered complete ...... June 29, 1976

#### 1. Control and Shoreline

The source of control is given in the Descriptive Report, paragraph F.

The shoreline originates with reviewed Class I photogrammetric manuscripts T-12298 and T-12301 of 1963-64.

The mean high water line on the present survey is shown for guidance only and, except for any revisions in red determined by the hydrographer, the true position is shown on the topographic surveys previously mentioned.

#### 2. Hydrography

Sounding line crossings are in good agreement.

The depth curves are adequately delineated.

Bottom configuration and least depths are adequately developed.

H-9102

#### 3. Condition of the Survey

The field plotting, sounding records, automated printouts, and the Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual supplemented by the Instruction Manual - Automated Hydrographic Surveys.

#### 4. Junctions

An adequate junction was effected with H-8838 (1964-65) on the southwest, H-9260 (1971-72) on the south and east, and H-9289 (1972) on the north.

#### 5. Comparison with Prior Surveys

A. H-1419 (1878-79) 1:40,000

This survey falls in the area of the present survey, but is not discussed in the present review.

B. H-4615 (1925-26) 1:40,000 H-4616 (1926) 1:40,000

A comparison between the present and prior surveys reveals a general difference in depths of 1-5 feet except in the vicinity of Murrells Inlet where present depths are 22 feet shoaler than those on the prior surveys. These depth differences can be attributed to the susceptibility of the bottom materials to shifting by frequent storms and ocean and tidal currents. The more drastic changes at Murrells Inlet are attributed to the same factors as above but their effect is much more pronounced because of the constricted area.

Several soundings were carried forward from H-4616 (1926) to supplement the present survey on certain relatively stable features. With the addition of these soundings, the present survey is adequate to supersede the prior surveys within the common area.

 Comparison with Chart 11535 (1237) (latest print date 6th Edition, January 18, 1975
 Chart 11534 (835-SC) (latest print date 12th Edition, March 22, 1975

#### A. Hydrography

The charted hydrography originates with the previously discussed prior surveys which require no further consideration, supplemented by the

partial application of depths from the boat sheet of the present survey and U.S. Corps of Engineers surveys.

Attention is directed to the following:

- (1) Presurvey Review Item No. 3 is discussed under paragraph J of the Descriptive Report.
- (2) The 27-foot sounding charted in latitude 33°33.1', longitude 78°54.4' on chart 1237 originates with erroneous preliminary data on the boat sheet of the present survey. The correct value for this sounding is 32 feet.
- (3) The <u>obstruction</u>, <u>fish haven</u> charted in latitude 33°31.15', longitude 78°58.4' on chart 1237 originates with Chart Letter 1220 of 1969 subsequent to the date of the present survey and should be retained on the chart.

Except as noted above, the present survey is adequate to supersede the charted hydrography within the common area.

#### B. Aids to Navigation

The aids presently charted adequately mark the features intended. The positions of the aids at Murrells Inlet are not charted because they are frequently shifted to mark the changing channel.

#### 7. Compliance with Instructions

The survey adequately complies with the Project Instructions.

#### 8. Additional Field Work

This survey is considered to be an excellent basic survey and no additional field work is recommended.

Examined and Approved:

Marine Surveys Division

Hydrographic Surveys Branch

Office of Marine Surveys

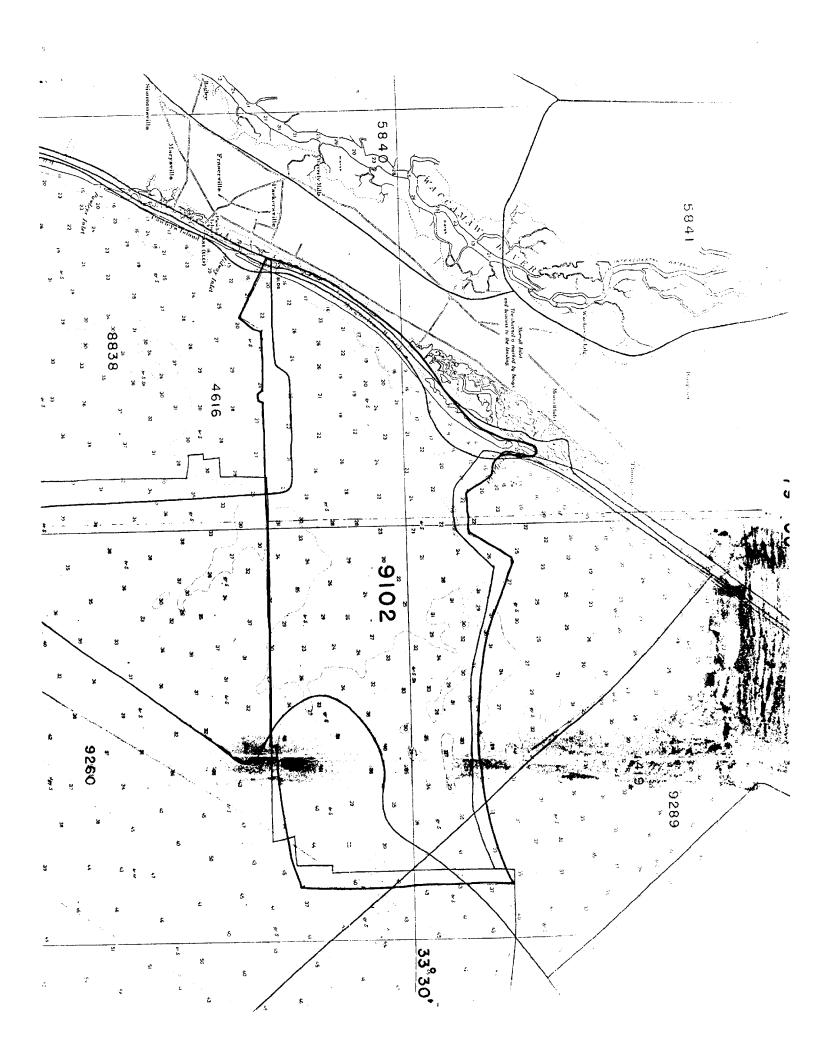
Chief

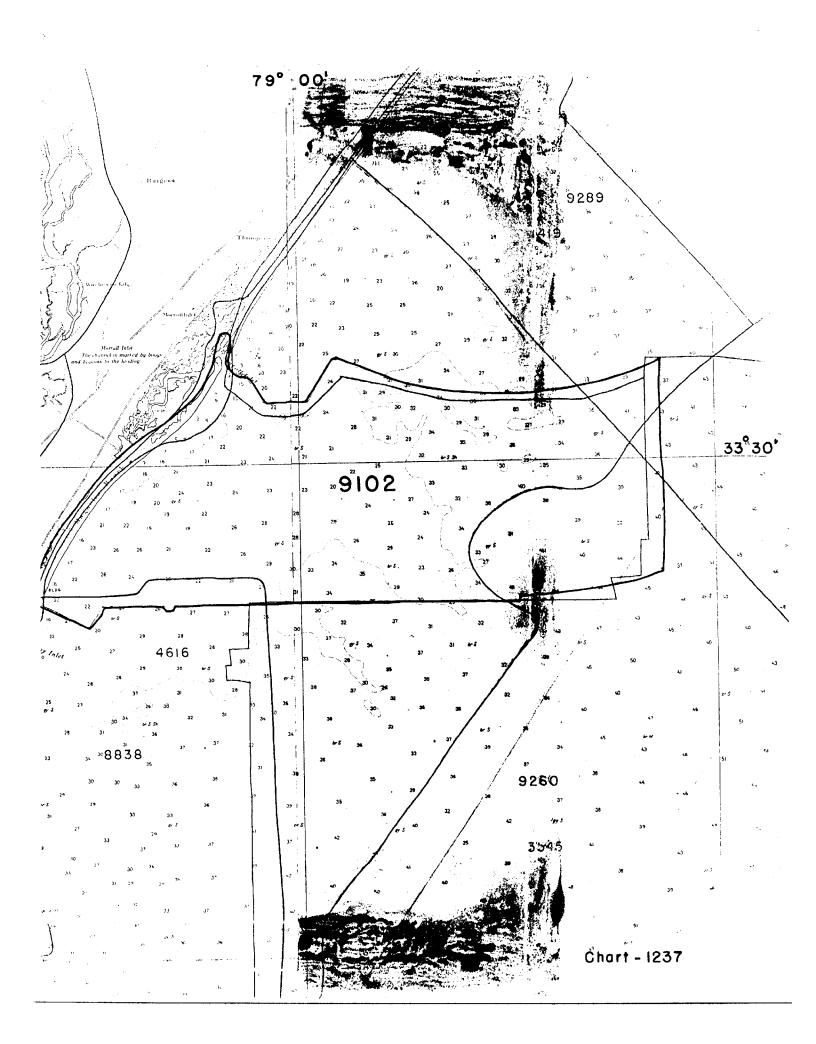
Nautical Charting Division

H-9102
Information for Future Presurvey Reviews

Continued shifting of the bottom sediments in this area can be expected because of ocean and tidal currents and frequent storms.

Positi Lat.	on Index Long.	Bottom Change Index	Use <u>Index</u>	Resurvey <u>Cycle</u>
332	0790	4	2	25 years
332	0791	4	2	25 years
333	0790	4	2	25 years
333	0791	4	2	50 years





#### NAUTICAL CHART DIVISION

#### RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-9102

#### **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
8351B	7/3/74	Banks	Part Brice After Verification Region Inspection Signed Via
			Drawing No.
237	7/3//74	Benks	Fell Part Bette After Verification Review Isopertion Signed Via
	42414	.,,	Drawing No.
1110	7/31/74	Buch	Part Part Briese After Verification Review Josephson Signed Via
1110	1/3/1/4	70-0	Drawing No.
1237	7-25 18	J. Briggs	
111535)		4	Full Par Before After Valleraion Review Inspection Signed Via
, , , , , , , , , , , , , , , , , , , ,			Drawing No. 17 Fully applied
(825)	29 N . TX	Alex. Radichevich	Full Part Before After Verification Review Inspection Signed Via
11534	20000010	GAGES. INSTRUMENTAL	Drawing No.
1122-1			
11520	10/15/82	mark & Briefe	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.41 Fully apply-thru Chart 11535
	<i>-</i>		
4500	7-17-43	REMA	Full Ran Defete After Verification Review Inspection Signed Via
			Drawing No. 49 Till All Chtus
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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