NOAA FORM 76-35 (3-76)
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY
DESCRIPTIVE REPORT
DESORTI TIVE INCI ON I
This map edition will not be field edited  Map No. Edition No.
1
TP-00931 1
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CM-8003 Map Classification
Class III (Final)
Type of Survey
Shoreline Mapping
LOCALITY
State
Alabama General Locality
lobile Bay Locality
Dauphin Island
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REGISTRY IN ARCHIVES
DATE

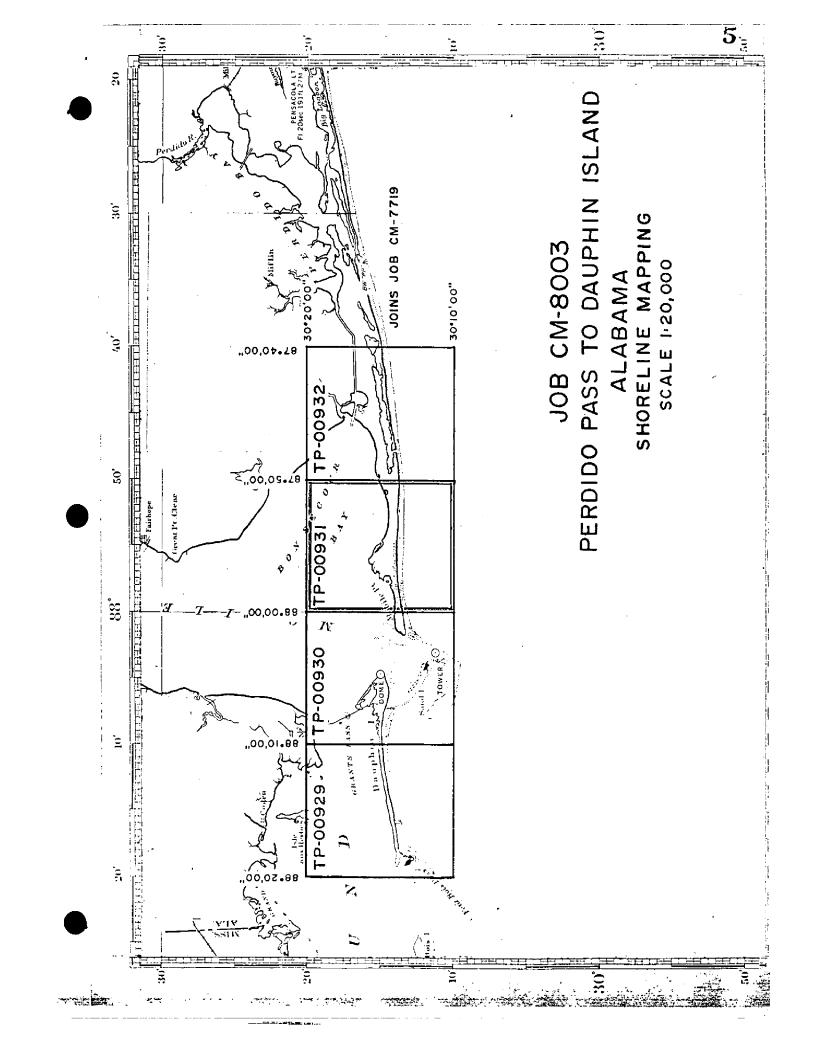
\*U.S. GOVERNMENT PRINTING OFFICE:1976-669-248

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	TYPE OF SURVEY	SURVEY TP. 00932
· _	ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS III
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PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP EDITION
Rockville, Maryland	TYPE OF SURVEY	JOB PH
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	RESURVEY	SURVEY DATES:
Lawrence W. Fritz		
1. INSTRUCTIONS DATED  1. OFFICE	2.	FIELD
OFFICE - 5/20/82	FIELD - 12/22	:/80
AEROTRIANGULATION - 6/18/82	FIELD (Change	No. 1 ) - 3/23/81
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II. DATUMS		
I. HORIZONTAL: TX 1927 NORTH AMERICAN	OTHER (Specify)	
- <del>-</del>	OTHER (Specify)	
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2. VERTICAL:    X MEAN LOWER LOW-WATER   MEAN SEA LEVEL		
3. MAP PROJECTION	4.	GRID(S)
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	Alabama	West
1:20,000	STATE	ZONE
III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY	L. Harrod	9/81
METHOD: Analytic LANDMARKS AND AIDS BY	L. Harrod	9/81
2. CONTROL AND BRIDGE POINTS PLOTTED BY	L. Harrod	10/81
METHOD: CHECKED BY	J. Moler	6/82
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	J. Moler	6/82
CHECKED BY	P. Dempsey	6/82
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4. MANUSCRIPT DELINEATION PLANIMETRY BY	J. Moler	6/82
CHECKED BY	P. Dempsev	6/82
CONTOURS BY	N/A	
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scale: 1:20,000 HYDRO SUPPORT DATA BY	N/A	
CHECKED BY	N/A	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	N/A N/A	
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	N/A	
7. COMPILATION SECTION REVIEW BY	P. Dempsey	9/82
8. FINAL REVIEW BY	J. Taylor	4/83
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	N/A	1/02
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY  11. MAP REGISTERED - COASTAL SURVEY SECTION BY	J. Taylor	DEC 12 1983
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NOAA FORM 76-36B (3-72)				NATIONAL OCEA	NIC AND ATMOS	ARTMENT OF COMMERCI PHERIC ADMINISTRATION
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REMARKS						

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SUPPLEMENTAL MAPS AND PLANS	T (X) NONE
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OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)	
CSI Cards ( NOAA form 76-53) Tide Level Book ( NOAA form 77-53) Field Notebook - project materials and computations	

NOAA FOR (3-72)	м 76-36D			, N	ATIONAL OC	EANIC A	U. S. DEPARTMEN ND ATMOSPHERIC	TOF COMMERCE ADMINISTRATION
	TP-00931		RECOR	RD OF SURVE	Y USE			
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IV. SURVE	Y EDITIONS (This section s	shall be con	npieted ea	ch time a new maj	edition is r	egistered)		
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#### Summary TP-00931

This 1:20,000 scale map is one of four maps that comprise shoreline mapping project CM-8003, Perdedo Pass to Dauphin Island, Alabama. The purpose of the map is to provide data for use in the production and maintenance of nautical charts.

This Class III map is based on aerotriangulation that meets the requirements for the National Standards of Map Accuracy and office interpretation of aerial photographs.

Field operations consisted aerial photography, tidal observations, and the recovery, establishment, and identification of horizontal control necessary for aerotriangulation.

Panchromatic and tide-coordinated infrared photographs (1:40,000 scale) were used in the production of this map. The panchromatic photographs were taken February 3, 1981, the infrared March 6, 1981. The tide staff on the Gulf Shores Municipal Pier was monitored in support of the infrared photography.

Compilation and final review operations were performed at the Rockville Office. Compilation was performed by the Coastal Mapping Unit (N/CG2323), final review by the Quality Control Unit (N/CG2321).

This Descriptive Report contains all pertinent reports and listings of data required to compile this map.

A final Chart Maintenance Print was prepared highlighting differences noted between this map and the nautical charts described in this Desciptive Report. This print was submitted to the Nautical Chart Branch.

# Field Operations

Field work accomplished consisted of aerial photography, tide observations, and the recovery, establishment, and identification of horizontal control required for aerotriangulation. There was no field inspection performed.

# Photogrammetric Plot Report Perdido Pass to Dauphin Island, Alabama CM-8003

September 1981

#### 21. Area Covered

The area covered by this report is in the vicinity of the entrance to Mobile Bay-Dauphin Island eastward to Perdido Pass. It is covered by four 1:20,000 scale manuscripts, TP-00929 through TP-00932.

#### 22. Method

Four strips of various scale photography were bridged by analytic aerotriangulation methods and adjusted to ground on The Alabama State Plane Coordinate System, Alabama West Zone. Paneled control was provided. Aids and landmarks were located on bridging photography. Ratio values were determined for the 1:40,000 MLLW and MHW infrared photography. Ruling of manuscript and plotting of points were done on the Coradimat Plotter.

#### 23. Adequacy of Control

The horizontal control provided proved to be adequate. The paneled sub point for Dauphin Island West Base, 1847 was off approximately 25 feet in the X direction. No reason could be determined. All other control held within the accuracy standards required.

## 24. Supplemental Data

None was used.

## 25. Photography

The coverage and quality of the photography proved adequate for the project. The northern most areas of sheet TP-00930 and TP-00932 were not covered by this photography. It is believed that this area will be done in the future.

Submitted by,

Lloyd W. Harrod, Jr.

Approved and Forwarded:

Don J. Horma-

Don O. Norman

Chief, Aerotriangulation Section

Perdido Pass to Dauphin Island, Alabama CM-8003

# Fit to Control - X and Y in Feet

-			•	
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•	1. Dauphin 1935 Sub pt. 1 Sub pt. 2	(607101) (607102)	-1.137 -1.343	618 .568
4	2. Dauphin 1935 - Panel	(608101)	1.409	.934
	3. Dauphin Island West Base-Panel	(614101)	25.436	3.847
•	4. 2ID-IS C.O.E. 1980-Marked Direct	(616100)	352	401
	5. 21D-IQ C.O.E. 1979-Panel	(621101)	.334	971
A	6. 21D-IL C.O.E. 1980-Panel	(626101)	.081	.085
	Strip 2			
•	5. 21D-IQ C.O.E. 1979-Panel	(621101)	000	.000
	6. 210-IL C.O.E. 1980-Panel	(626101)	.056	.800
•	7. 210-IV C.O.EMarked Direct 1980	(598100)	.000	.000
•	8. 21D-2C 1980-Panel	(640101)	.000	.000
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•	640801-Tie From Strip 2		1.075	073
•	640802-Tie From Strip 2		216	.310
<b>A</b>	640803-Tie From Strip 2	·	.074	307
	640804-Tie From Strip 2		2.613	-3.652
	640805-Tie From Strip 2		.076	362
<b>A</b> ,	8-21D-2C 1980-Panel	(640101)	938	.066
,	9 Sand Island Lighthouse, 1930	(641118)	-1.456	2.014

	Strip 3 B			
<b>A</b>	10. Fort Morgan ECC. 1981-Panel	(642101)	457	.063
▲.	11. H-61-03-AL 1981-Marked Direct	(643100)	.598	046
, A	12. Bank 1918-40-Panel	(648101)	.362	144
•	13. Sylvia 1934-Marked Direct	(650100)	831	.071
	14. Higdon 1934-Panel	(653101)	.330	.055
	Strip 4			
•	659105-Tie From Strip 2	(598501)	.000	.000
	8-21D-2C 1980-Panel	(640101)	399	-2.044
	Sand Island Lighthouse 1930	(641118)	483	-2.041
•	Fort Morgan ECC. 1981	(642101)	000	.000
•	Stations held in the Strip Adjustments			

# Pardido Pass to Dauphin Island, Alabama CM-8003

# September 1981

Ratio values for 1:40,000 scale black-and-white infrared photography.

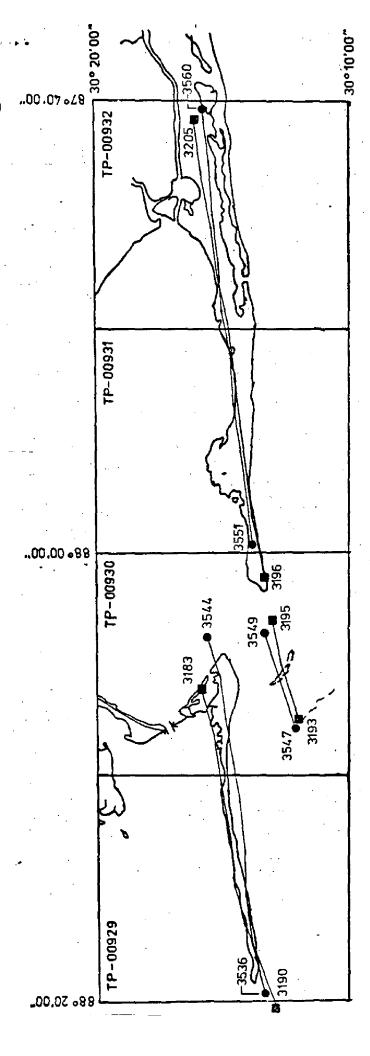
# MLLW

	81 Z(R)	3196-3205 3193-3195 3183-3190	X2.02 X2.03 X2.02
MHW			
	81Z(R)	3547-3549 3551-3560	X1.98 X2.00
		3536-3544	X2.00

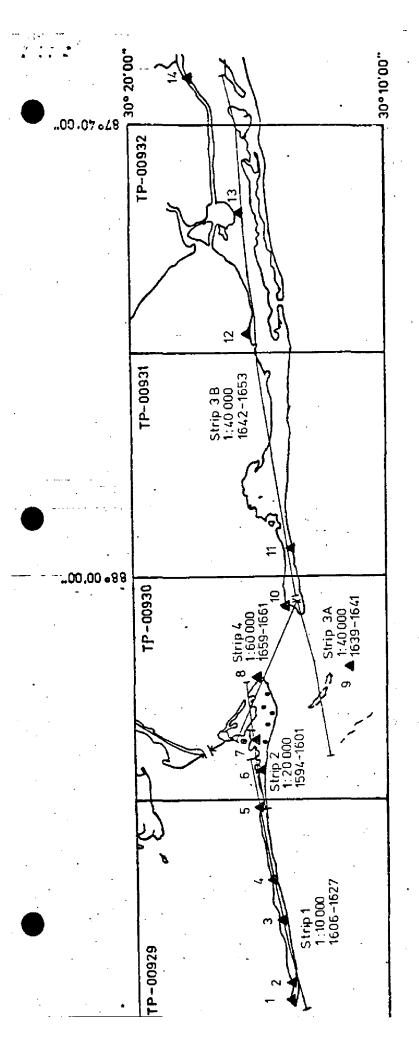
Ratio values for black-and-white bridging photography.

1:10,000 scale	
81ZP 1606-1627	X0.50
1:20,000 scale	-
81ZP 1594-1601	XO.97
1:40,000 scale	
81ZP 1639-1641	X1.96
81ZP 1642-1653	X1.96
1:60,000 scale	
81ZP 1659-1661	X2.67

LEGEND • MHW



JOB CM-8003
PERDIDO PASS TO DAUPHIN ISLAND
ALABAMA
SHORELINE MAPPING
SCALE 1.20,000
11.40,000



PERDIDO PASS TO DAUPHIN ISLAND ALABAMA SHORELINE MAPPING JOB CM-8003 SCALE 1.20,000

LEGEND

BRIDGING PHOTOGRAPHY 81 ZP

TRIANGULATION LIGHT TIE POINT

A. Carlotte					
t NOAA FORM 76-41 (6-75)				NATIONAL OCEANIC AN	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
,		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD		
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGIN	CTIVITY
TP-00931	CM-8003	~	N.A; 1927	Compilation	ation
	SOURCE OF	AEROTRI-	COORDINATES IN FEET	GEOGRAPHIC POSITION	
STATION NAME	INFORMATION (Index)	POINT	STATE ALGOMICA ZONE West	φ LATITUDE λ LONGITUDE	REMARKS
H-61-03-AL, 1981		643100	x= 353,422,800	Ф	
			y= 84,709,100	γ	
			χ=	ф	
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	•		ĥ=	Υ	
			=χ	φ	
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			χ=	ф	
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			= <del>χ</del>	φ	
			<i>y=</i>	γ	
			χ=	φ.	
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			χ=	ф	
			η=	7	
COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATE
LISTED BY J. Moler		DATE/82	LISTING CHECKED BY P, Dempsey	ey.	DATE 9/82
HAND PLOTTING BY	:	DATE	HAND PLOTTING CHECKED BY		DATE
		SUPERSEDES N	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE	H IS OBSOLETE.	

#### Compilation Report TP-00931

#### 31. Delineation

This map was compiled using stereo instrument and graphic methods. The shoreline, coastal structures, and interior details were compiled using the Wild B-8 stereoplotter and panchromatic photographs. The approximate MLLW line was compiled graphically using ratio prints of the 1981 infrared photographs. Graphic compilation was controlled holding to local detail compiled using instrument methods.

#### 32. Control

Refer to the Photogrammetric Plot Report for the adequacy of horizontal control. Vertical control was taken from USGS quads.

#### 33. Supplemental Data - None

#### 34. Contours and Drainage

Contours are not applicable. Drainage was compiled from the panchromatic photographs, supplement by use of the infrared photographs.

### 35. Shoreline and Alongshore Details

The shoreline and alongshore details are based on interpretation of the panchromatic photographs. The approximate MLLW line was delineated from the black-and-white tide-coordinated infrared photographs.

There was not a field injection of the shoreline performed.

#### 36. Offshore Details

There were no unusual problems encountered in compiling offshore detail.

#### 37. Landmarks and Aids

Three charted fixed aids were identified and located by instrument methods using the briged panchromatic photographs.

#### 38. Control for Future Surveys - None

#### 39. Junctions

This map junctions with TP-00930 to the west and TP-000932 to the east.

- 40. through 45. Not applicable
- Comparison with Existing Maps

A comparison was made to the following USGS Quadrangles:

Weeks Bay, Ala., 1:62,500 scale, 1941 edition

47. Comparison with Nautical Charts

A comparison was made to the following NOS nautical charts:

Chart 11376, scale 1:80,000, 34th edition dated 9/27/80 Chart 11378, scale 1:40,000, 17th edition dated 9/26/81

Submitted by

9. Jeffery C. Molar J. Jeffery C. Moler

Approved by

Auro D. M. Nomme

Chief, Coastal Mapping Unit

#### Review Report TP-00931

#### 61. General Statement

Refer to the Summary bound with this Descriptive Report for additional information.

- 62. Comparison with Registered Topographic Surveys None
- 63. Comparison with other maps of other Agencies

Refer to paragraph 46. of the Compilation Report bound with this Descriptive Report.

- 64. Comparison with Contemporary Hydrographic Surveys None
- 65. Comparison with Nautical Charts

A comparison was made to the following NOS nautical charts:

Chart 11376, 1:80,000 scale, 36th edition dated 10/16/82 Chart 11378, 1:40,000 scale, 18th edition dated 8/21/82

66. Adequacy of Results and Future Surveys

This map complies with the project instructions and meets the National Standards of Map Accuracy .

#### 67. Shoreline/MLLW Line

The shoreline is classified as apparent, man-made, or mean high water by office interpretation of the panchromatic aerial photographs. The approximate mean lower low water line was compiled graphically using ratio infrared ratio photographs holding to the local detail compiled using stereo instrument methods.

7

James Taylor

Approved and Forwarded:

Ge∕orge M. Ball

Æhief, Photogrammetric Section

∡Lawrence W. Fritz

Chief, Photogrammetry Branch

#### GEOGRAPHIC NAMES

#### FINAL NAME SHEET

CM-8003 (Perdido Pass to Dauphin Island, Alabama)

#### TP-00931

Cedar Grove (P pl)

Collins Bayou

Edith Hammock

Gulf Highlands (P pl)

Gulf of Mexico

Hog Bayou

Little Point Clear

Mobile Bay

Navy Cove

Palmetto Beach (P pl)

St. Andrews Bay

Saxon Bay

Three Rivers

Approved by:

Charles E. Harrington Chief Geographer, N/CG2x5

# DISSEMINATION OF PROJECT MATERIAL CM-8003 PERDIDO PASS TO DAUPHIN ISLAND, ALABAMA

### NATIONAL ARCHIVES/FEDERAL RECORD CENTER

Brown Jacket

Computer Printout
Tide Data Records
NOAA Forms (76-40)
Field Notebook: Containing Horizontal Observation/

Computations, Recovery Note &

CSI Cards

Photographic Flight Report Aerotriangulation Forms (76-41)

Aerotriangulation Plot Reports (Duplicate)

Project Completion Report

BUREAU ARCHIVES

Registration Copy of Maps Descriptive Report of Maps

REPRODUCTION DIVISION

8X Reduction Negative of Maps

OFFICE OF STAFF GEOGRAPHER

Geographic Names Standard

NOAA FORM 76-40	40				u.s.	DEPARTME	U.S. DEPARTMENT OF COMMERCE	ORIGINATING ACTIVITY	CTIVITY
Replaces C&GS Form 567	т 567.	TING AIL	OMARKS I	FOR CHART	. S	MC TO THE TOTAL	ADMINIST KA I SON	HYDROGRAPHIC PARTY GEODETIC PARTY PHOTO FIELD PARTY	ARTY TY
XTO BE CHARTED	TED REPORTING UNIT	9) STATE		LOCALITY			DATE	COMPILATION ACTIVITY	VITY
TO BE REVISED	reo Rockville, Md.	Alabama		Intercoastal		Waterway	6/82	QUALITY CONTROL & REVIEW GRP	A REVIEW GRP.
The following objects	듸	AVE 🔲 HAVE NOT 🔀 been inspected from seaward to determine their value as landmarks	word to det	ermine their va	ilue as la	ndmorks.		(See reverse for responsible personnel)	ible personnel)
OPR PROJECT N		SURVEY NUMBER	DATUM N.A.	1927	ı		METHOD AND DATE OF LOCATION	E OF LOCATION	
	CM-0003	TCA00=4.T.		POSITION			(See instructions on reverse side)	on reverse side)	CHARTS
	DESCRIPTION	20	LATITUDE	UDE	LONGITUDE	OE.			AFFECTED
CHARTING NAME	Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	rk or aid to navigation. ne applicable, in perentheses)	/ 0	// D.M.Meters	/ D	// D.P. Meters	OFFICE	FIELD	
	Pensacola-Mobile								
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LF 223			30 15	56,324	<del>  ~'</del>	42.976	81ZP1643 2/3/81		=
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OF ACTION NAME	HYDROGRAPHIC PARTY		
KESPONIEE PERSONNEE	TOTAL STEEL	ZA	TYPE OF ACTION

NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND.

FORM **C&GS-8352** (3-25-63)

#### 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
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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