

9149

9149

Diagram No. 1255-2

NOAA FORM 76-35A

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

DESCRIPTIVE REPORT

Type of Survey ... Hydrographic
Field No. 745-10-3-70
Office No. H-9149

LOCALITY

State Florida
General Locality West Coast of Florida
Locality Estero Bay

19 70

CHIEF OF PARTY
LT. B.H. Traughber

LIBRARY & ARCHIVES

DATE March 27, 1984

HYDROGRAPHIC TITLE SHEET

H-9149

INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

FIELD NO.

745-10-3-70

State Florida

General locality West Coast of Florida

Locality Wiggins Pass, Florida

Scale 1:10,000 Date of survey 9 Sep. to 14 Dec., 1970

Instructions dated 7 January, 1970 Project No. OPR 491

Vessel Hydrographic Field Party 745

Chief of party LT. Brent H. Traugher

Surveyed by Lloyd G. Gilden

Soundings taken by echo sounder, hand lead, pole Raytheon DE723 Serial No. 1998

Graphic record scaled by Hydrographic Field Party 745 personnel

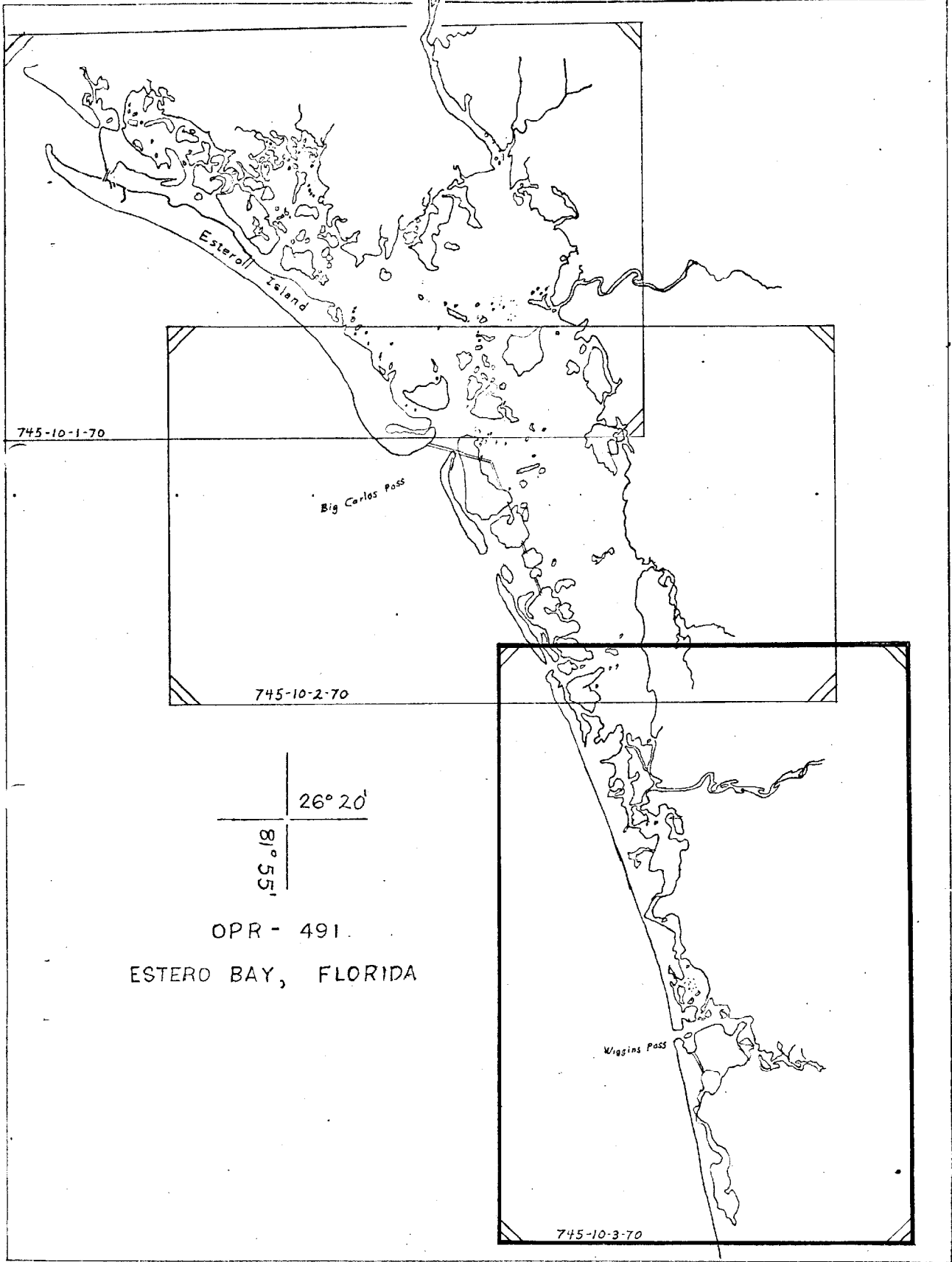
Graphic record checked by Hydrographic Field Party 745 personnel

Protracted by _____ Automated plot by _____

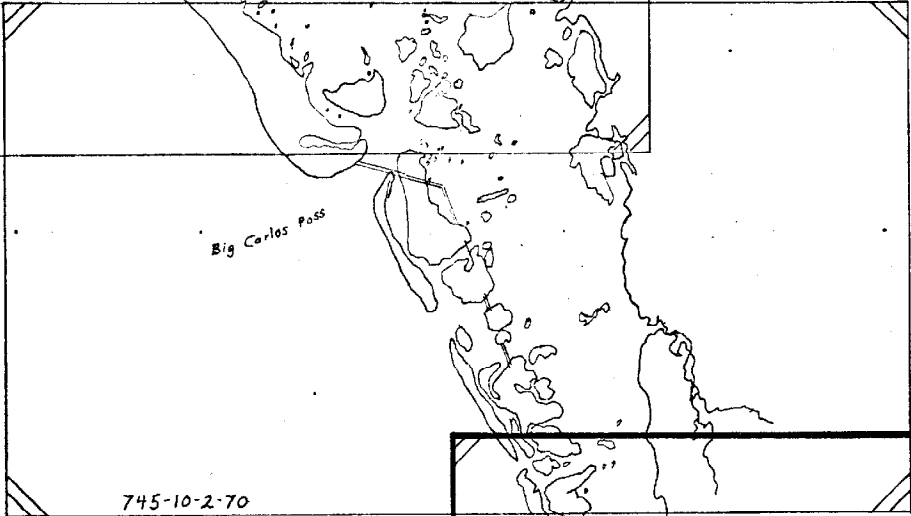
Soundings penciled by _____

Soundings in ~~XXXXX~~ feet at MLW ~~XXXX~~

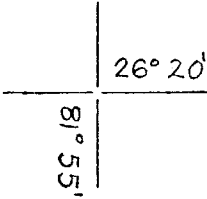
REMARKS: Basic Hydrographic Survey



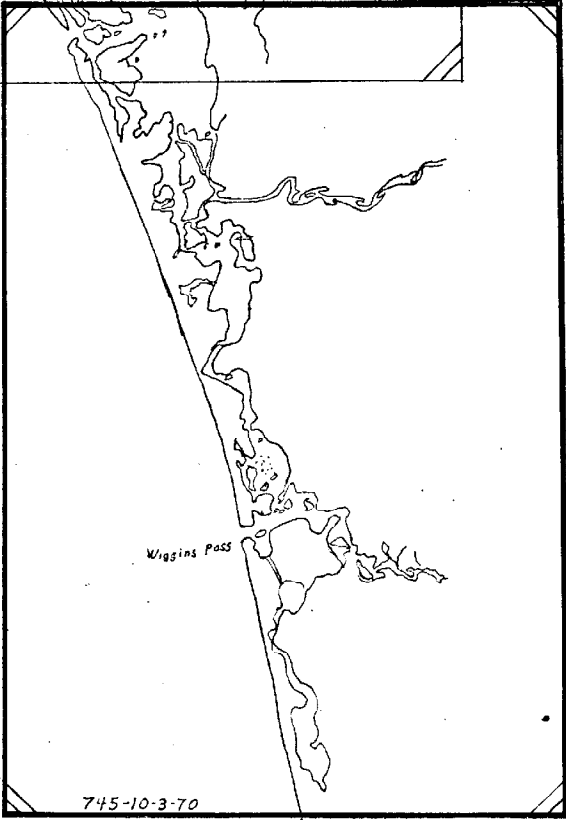
745-10-1-70



745-10-2-70



OPR - 491
ESTERO BAY, FLORIDA



745-10-3-70

DESCRIPTIVE REPORT
to accompany

HYDROGRAPHIC SURVEY NO. H-9149

OPR 491

1:10,000 Scale

Estero Bay, Florida Hydrographic Field Party 745

LT Brent H. Traughber Officer-in-Charge

Surveyed by: Lloyd C Gilden

A. PROJECT

This project was accomplished in accordance with Project Instructions OPR 491 dated 7 January 1970.

B. AREA SURVEYED

The area covered by this survey is Estero Bay, Florida, from latitude $26^{\circ} 15.20'N$ at Vanderbilt Beach northward to latitude $26^{\circ} 21.08'N$ located at the north end of Fish Trap Bay. The western boundry is longitude $81^{\circ} 51.20'W$ eastward to the head of navigation of the Imperial and Cocohatchee Rivers at longitude $81^{\circ} 46.00'W$.

Field work commenced on 8 September 1970 and was completed on 14 December 1970.

C. SOUNDING VESSEL

The only vessel used for this survey was Launch CS-1258. The identifying color is blue.

D. SOUNDING EQUIPMENT

The Raytheon Graphic Recorder, Model DE 723, Serial No. 1998, was used in the survey. A sounding pole and lead-line were also utilized in obtaining soundings. Cor-

D. SOUNDING EQUIPMENT (CON'T)

rections to be applied to echo soundings were determined from daily bar checks. The bar check was calibrated during this period. The "Abstract of Velocity Corrections" appears in Appendix "B" of this report.

E. SMOOTH SHEET

This survey will be hand plotted at the Atlantic Marine Center. All processing will be completed by party personnel.

F. CONTROL

Horizontal control was by visual three-point sextant fix method. Appendix "A" contains a complete list of signals with their quality and source noted. Photo-hydro signals are from Incomplete Manuscripts:

<u>"T" Sheet No.</u>	<u>Scale</u>	<u>Date</u>
TP-00018	1:10,000	1969
TP-00017	1:10,000	1969
TP-00016	1:10,000	1969

No standard horizontal control was used.

G. SHORELINE

Shoreline for this survey was taken from the above listed Incomplete Manuscripts. There are changes in the Wiggins Pass area with shoreline changes dashed in red on the boat sheet and noted in the sounding volumes. This area is subject to frequent changes do to strong currents and tides.

There is bulkhead construction in the Vanderbilt area at latitude $26^{\circ} 15.20'N$, longitude $81^{\circ} 49.15'W$, which has also been designated on the boat sheet.

H. CROSSLINES

Crosslines were run over approximately 10% of the regular system of sounding lines and were in good agreement.

I. JUNCTIONS

Junction was made to the north with survey H-9148 (745-10-2-70).

J. COMPARISON WITH PRIOR SURVEYS

There were no prior surveys furnished for this area.

K. COMPARISON WITH THE PRESENT CHART

This survey was compared with Coast and Geodetic Survey Chart 642-SC, 2nd Ed., May 1970, scale 1:40,000. Only a limited amount of basic hydrography has been run in this area and only one comparison could be made with the present chart. Again there are extensive changes in the Wiggins Pass area within the 3 foot to 12 foot contour lines.

<u>Feature</u>	<u>Position</u>	<u>Remarks</u>
Oyster bars	Survey area	There are numerous oyster bars throughout the Fish Trap Bay area. These oyster bars were located as detached positions and detailed on the two overlays which accompany the Boat Sheet. These references are all in Vol. No. 5, Pos. 1035 through 1100.
Angle iron	26° 20.60'N 81° 50.61'W	Submerged 2x2 piece of angle iron in 0.6ft of water and to be considered a hazard to small craft.
Piling	26° 17.49'N 81° 49.57'W	This feature is a 4x4 piece of lumber marking a sand shoal from this location north to signal POP.

K. COMPARISON WITH THE PRESENT CHART (CON'T)

<u>Feature</u>	<u>Position</u>	<u>Remarks</u>
Angle iron	26° 20.65'N 81° 50.58'W	This feature is a piece of broken off angle iron and is submerged at high water. This should be considered a hazard to small craft.
Private markers	26° 20.12'N 81° 50.46'W	These markers are 2x2 angle iron and 4x4 wood piles with arrows pointing the direction of channel. The controlling depth is 2 feet at MLW. These markers run north to 26° 20.68'N, 81° 50.58'W.
Sand shoal	26° 17.35'N 81° 49.75'W	The sand bar is 120 meters long east to west and 60 meters north to south. It bares 0.6 ft to 1.0 ft a MLW.
Private Markers	26° 16.67'N 81° 49.45'W	The markers are 6 in. dia. wood piles. The controlling depth is 2 ft in this area. There is considerable shoaling as noted in the volumes.
Iron pipe	26° 18.31'N 81° 50.04'W	The pipe at this location is of SBS method. The feature is awash a MHW, see Pos. 1023
Sand bar	26° 18.49'N 81° 49.95'W	Sand bar is correct as shown on Manuscripts TP-00018.
Oyster bar	26° 19.19'N 81° 50.02'W	Oyster bar bares 2 ft at MLW and is marked by 4 in. wooden post.
Oyster bar	26° 19.33'N 81° 50.12'W	Oyster bar bares 1 ft at MLW.

K. COMPARISON WITH THE PRESENT CHART (CON'T)

<u>Feature</u>	<u>Position</u>	<u>Remarks</u>
Oyster bar	26° 19.64'N 81° 50.03'W	This bar extends south from signal CAR for 120 meters. It is 20 meters wide and is awash at MLW.
Pier ruins	26° 19.77'N 81° 50.00'W	Small piers shown on Manuscript are in ruins.
Pilings	26° 19.78'N 81° 50.27'W	This is a group of six piles in ruins. They are 5 meters off shore and there is a small boat submerged among them.
Tree trunk	26° 16.63'N 81° 47.47'W	This is a SBS position. The feature is east of center line of river and is a hazard to small craft. This tree trunk bares 0.6 ft at MLW.
Sunken log	26° 16.56'N 81° 47.26'W	This log is in the center of small creek and submerged 1 ft at MLW. This is a hazard to small craft.
Development of canals	26° 20.40'N 81° 47.42'W and 26° 20.63'N 81° 47.50'W	These areas are under canal development.
Oyster Bar	26° 20.90'N 81° 50.50'W	Oyster bar bares 0.8 ft at MLW and runs NNW for 230 meters.

L. ADEQUACY OF SURVEY

This survey is complete and adequate to supersede prior surveys for charting. No substandard work exists. No further field work is needed in the survey area at this time.

All investigations described in Project SP-AMC-6-HFP-745-70 have been covered by this survey.

M. AIDS TO NAVIGATION

The U.S. Coast Guard maintains no floating or fixed aids to navigation within the limits of this survey. There are 24 private aids in the limits of this survey.

All pilings and markers considered necessary for safe navigation have been located and designated on shore-line manuscripts and Boast Sheet by the photogrammetrist and hydrographer.

N. STATISTICS

Total positions..... 2158
Total miles surveyed..... 133.5
Number of bottom samples..... 28
Total area surveyed..... 4.1

O. MISCELLANEOUS

No entry

P. RECOMMENDATIONS

None

Q. REFERENCES TO REPORTS

None

Submitted:

Lloyd C. Gilden

Lloyd C Gilden
Hydrographer, Survey H-9149

Approved and Forwarded:

J. D. Stockham Lt/NAA
JS

LT Brent H Traugber
Officer-in-Charge, Hydrographic Field Party 745

APPENDIX "A"

LIST OF SIGNALS

H-9149 Survey

<u>Name</u>	<u>Source-TP-00016 only</u>
ABE	TP-00016 (Photo)
AGO	
AMP	
BIB	
BUS	
CAB	
CUE	
DOL	
EGO	
FAT	
GEM	
GUM	
HEX	
JAP	
JOY	
MAN	
MOO	
OIL	
OWL	
PEA	
PIT	
RAY	
RIM	
RIP	
SIS	
TEM	
TUB	
WIG	TP-00016 (photo)

APPENDIX "A"(CON'T)

LIST OF SIGNALS

H-9149 Survey

<u>Name</u>	<u>Source-TP-00018 only</u>
ACE	TP-00018 (Photo)
ACT	
ADD	
ADO	
AHA	
AIM	
ALP	
AMY	
ANN	
ANT	
APT	
ASH	
ASK	
AZO	
BAG	
BIG	
BIL	
BOB	
BON	
BUM	
BULK	
BUT	
CAM	
CAT	
CAR	
CAW	
COD	
CON	
COO	
GOP	
CRY	
CUR	
CUT	
DAY	
DAW	
DIF	
DIX	
DOG	
DUO	TP-00018 (Photo)

APPENDIX "A"(CON'T)

LIST OF SIGNALS

H-9149 Survey

<u>Name</u>	<u>Source-TP-00018 only</u>
ELF	TP-00018 (Photo)
ELM	
EMO	
END	
EON	
ERA	
EVA	
FAR	
FED	
FEW	
FOP	
GAS	
GEO	
GET	
GIG	
GIN	
GOB	
GOT	
GUY	
HAG	
HEAD	
HAT	
HEM	
HER	
HID	
HIS	
HOG	
ICE	
JAP	
JAR	
JAY	
JAW	
JIB	
JIM	
JOB	
JUG	

TP-00018 (Photo)

APPENDIX "A"(CON'T)

LIST OF SIGNALS

H-9149 Survey

<u>Name</u>	<u>Source-TP-00018 only</u>
KED	TP-00018 (Photo)
KEN	
KEY	
KIM	
LAR	
LEX	
MAR	
MAW	
MAX	
MET	
MID	
MIG	
MIK	
MOM	
MOP	
NAT	
NAY	
NED	
NEO	
OAK	
OLD	
ORA	
ORB	
OUT	
PAD	
PAL	
PAR	
PAW	
PEO	
PER	
PET	
PIE	
PIT	
POP	TP-00018 (Photo)

APPENDIX "A"(CON'T)

LIST OF SIGNALS

H-9149 Survey

<u>Name</u>	<u>Source-TP-00018 only</u>
RIV	TP-00018 (Photo)
ROB	
ROT	
ROY	
RUB	
RUE	
RUM	
SAD	
SAG	
SAM	
SAX	
SHE	
SHO	
SIT	
SOW	
TEL	
TIT	
TOY	
USE	
VAL	
VET	
VEX	
VIA	
VIM	
WAD	
WAG	
WAR	
WOO	
YAK	
YES	
ZAG	
ZOO	TP-00018 (Photo)

APPENDIX "B"

VELOCITY TABLES

Survey H-9149

VELOCITY CORRECTIONS TO ECHO SOUNDINGS

<u>"To" Depth in Feet</u>	<u>Corrections in Feet</u>
00.0	
3.5	-0.6
4.3	-0.4
5.1	-0.2
10.1	0.0
14.7	/0.2
17.3	/0.4
19.3	/0.6
Deeper	/0.8

APPENDIX "C"

TIDE NOTES

Survey H-1949

Tide Station	Wiggins Pass, Florida Lat. 26° 17.62' Long. 81° 49.23'
Type of Gage	Portable Bubbler Automatic and staff
Time Meridian	75° West
Plane of Reference	Mean Low Water equals 1.9 feet on the 1970 staff
Correction	No time or height cor- rections applied when calculating tide re- ducers.
Tide zone	The zone line on the northern entrance to Fish Trap Bay is denoted on the boat sheet (violet line). This in- formation is also in the sounding volumes.
Tide Staff	A portable tide staff was installed: Lat. 26° 20.10' Long. 81° 50.72' This staff was used to establish tides for the Imperial River and is noted in the volumes.

OCEANOGRAPHIC LOG SHEET - M
BOTTOM SEDIMENT DATA

VESSEL	SERIAL NO. Pos. #	DATE	SAMPLE POSITION		DEPTH (feet)	WEIGHT OF SAMPLER	AP- PROX. TRA- NSECTION	LENGTH OF CORE	COLOR OF SEDIMENT	FIELD DESCRIPTION	REMARKS <small>(Unusual conditions, cohesiveness, dented cutter, etc.; no. of bottom relief i.e., slope, plain, disposition, etc.)</small>	OBS. INIT.	
			LATITUDE	LONGITUDE									
Leaugh GS-1258													
			PRJ. NO. OPR 491		YEAR 1970	Estero Bay, Florida						CHECKED BY	DATE CHECKED
2129	14 Dec	20.90°	81°	2.2	5#	4"	grad samp	br	gy M				
2130	" "	20.31°	50.57°	2.8	"	"	"	"	M, Oz				
2131	" "	20.10°	50.18°	5.2	"	"	"	"	br S, bk M				
2132	" "	20.20°	49.71°	7.4	"	"	"	"	bk M & Oz				
2133	" "	20.25°	49.20°	4.8	"	"	"	"	fne br S, Oz				
2134	" "	20.12°	48.77°	10.8	"	"	"	"	bk M				
2135	" "	19.87°	50.07°	2/8	"	"	"	"	bk M & Grs				
2136	" "	19.47°	50.07°	3.4	"	"	"	"	Sh, fne				
2137	" "	19.14°	49.90°	3.0	"	"	"	"	bk M & Grs				
2138	" "	18.79°	50.22°	3.8	"	"	"	"	br S, Sh				
2139	" "	18.27°	49.79°	1.8	"	"	"	"	fne S, Sh				
2140	" "	17.87°	49.65°	3.6	"	"	"	"	S, Sh, M				
2141	" "	17.38°	49.71°	8.0	"	"	"	"	Oys, Sh				
2142	" "	17.78°	50.24°	14.4	"	"	"	"	fne S				
2143	" "	17.77°	50.60°	20.0	"	"	"	"	fne S, Sh				

Use more than one line per sample if necessary.

OCEANOGRAPHIC LOG SHEET - M
BOTTOM SEDIMENT DATA

VESSEL		PROJ. NO.		YEAR		ESTERO BAY, FLORIDA				CHECKED BY	DATE CHECKED
Launch 08-1258		OPR 491		1970							
SERIAL NO. POB.#	DATE	SAMPLE POSITION		DEPTH (Fathoms) feet	WEIGHT SAMP. FLER	AP- PROX. PENE- TRA- TION	LENGTH OF CORE	COLOR OF SED- IMENT	FIELD DESCRIPTION	REMARKS (Unusual conditions, cohesiveness, dented cutter, size, no., type of bottom relief lev, slope, plain, disposition, etc.)	OBS. INIT.
		LATITUDE	LONGITUDE								
2144	14 Dec	26°	81°	21.8	5#	4"	grab	br	Sh, fine S		
2145	"	16.86'	50.37'	19.0	"	"	"	"	gy S, Sh		
2148	"	16.90'	50.03'	12.4	"	"	"	"	Sh & Grs		
2149	"	17.18'	50.18'	15.8	"	"	"	"	M		
2150	"	16.75'	49.46'	4.6	"	"	"	"	M, Sh		
2151	"	16.20'	49.45'	6.4	"	"	"	"	fine S		
2152	"	15.74'	49.26'	8.6	"	"	"	"	M, Sh		
2153	"	15.33'	49.20'	6.6	"	"	"	"	fine S, Sh		
2154	"	17.39'	49.27'	3.8	"	"	"	"	sft M		
2155	"	17.09'	48.85'	2.6	"	"	"	"	S		
2156	"	15.88'	48.23'	3.0	"	"	"	"	fine S		
2157	"	19.19'	50.02'	0.4	"	"	"	"	OYs		
2158	"	21.04'	50.49'	2.0	"	"	"	"	M, Grs		

Use more than one line per sample if necessary.

APPENDIX "D"

GEOGRAPHIC NAMES LIST

Photo Party #62 made no specific investigations on geographic names during this survey. There were no changes to compiled names by Hydrographic Field Party 745

APPROVAL SHEET

H-9149

(Boat sheet 745-10-3-70)

This survey was accomplished under my overall supervision. The hydrography was done by Lloyd C. Gilden, who also wrote the Descriptive Report.

This basic survey is complete and adequate to supersede prior surveys for charting. No substandard work exists.

Approved and Forwarded

Brent H. Traugaber

LT Brent H. Traugaber
Officer-in-Charge
Hydrographic Field Party 745

TIDE NOTE FOR HYDROGRAPHIC SHEET

January 26, 1971

~~Nautical Chart Division~~ Hydrographic Field Party 745

Plane of reference approved ~~in~~
~~20 pages, 12 sheets by records~~ for 8 pages, Form C&GS 8502

HYDROGRAPHIC SHEET H9149

Locality: Estero Bay, Florida

~~Chart Date:~~ Year: 1970

Plane of reference is mean low water

Tide Station Used (Form C&GS-681):

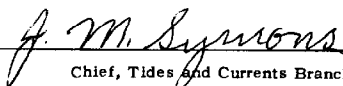
Wiggins Pass
Carlos Point

Height of Mean High Water above Plane of Reference is as follows:

Wiggins Pass	2.2 feet
Carlos Point	2.6 "

Remarks

Tide reducers for the September 18 and October 26 have been revised in red and verified.


Chief, Tides and Currents Branch

ABSTRACT OF TIDE CORRECTIONS
(See Instruc 5 on reverse side)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

1. HYDRO. SURVEY NO: H. 9149
2. FIELD NO.: 745-10-3-70
3. SURVEY LOCATION: Estero Bay, Florida
4. TIME MERIDIAN: 1

a. MO. DAY YR. OR DAY NO. (Date)	b. POSITION NUMBER	c. TIME		d. TIDE REDUCERS FT. FMS	e. MACHINE ENTRY FMS.	f. TIDE STATION USED (As Form 681)	g. CORRECTION USED ZONE DESIGNATION
		FROM	TO				
8 Sept (251)		0900		0916	-1.0 ✓	Wiggins Pass (only)	
				0950	-0.8		
				1025	-0.6		
				1110	-0.4		
				1150	-0.2		
				1305	0.0		
				1352	-0.2		
				1430	-0.4 ✓		
				1500	-0.6 ✓		
				0908	+0.2 ✓		
17 Sept (260)		0800		0923	0.0		
				0941	-0.2		
				0958	-0.4		
				1019	-0.6		
				1040	-0.8		
				1100	-1.0		
				1132	-1.2		
				1209	-1.4		
				1242	-1.6		
				1330	-1.8 ✓		
18 Sept (261)		0800		1600 1515 ✓	-2.0 ✓		
				1546 1546 ✓	-1.8 ✓		
				1600 1600 ✓	-0.0 ✓		
				0820	+0.2		
				1005	0.0		
				1028	-0.2		
				1050	-0.4		
				1110	-0.6		
				1135	-0.8		
				1200	-1.0		
	1228	-1.2					
	1255	-1.4 ✓					
	1325	-1.6 ✓					
	1400	-1.8 ✓					

5. CHECKED APPROVED TIDES & CURRENTS BRANCH 1/26/70 CJ

INSTRUCTIONS FOR PREPARATION AND SUBMITTAL

The information entered on this form shall be derived from associated tide records and together with those records be forwarded to the Washington Office for administrative approval by Tides and Currents Branch, Marine Data Division, Office of Oceanography.

Instructions by item number.

1. Enter the survey number
2. Enter the field number.
3. Enter the survey locality.
4. Enter the time meridian used.
5. Checked: Enter field approval
Approved: Indicate Washington Office approval.

Instructions by columns (letters):

- a. Enter the day of the year. A coded entry must be identifiable in the Washington Office.
- b. Enter the position number of the sounding line where the reducer is to first apply.
- c. Enter the time in hours and minutes that the reducer listed in "d" is used.
- d. Enter the tide reducer necessary to correct the sounding to the plane of the reference.

The value entered by the field personnel shall be certified by the Washington Office, or corrected and returned to the originator. Only approved information can be entered into the smooth (edited) tape.

- e. Enter the tide value from the previous column (Tide reducer) applied to a tide base of +60.0.

Example:

$$\begin{array}{r} +60.0 \\ - 3.1 \text{ (from column d.)} \\ \hline +56.9 \text{ (into column e.)} \end{array}$$

This summed value shall be punched into the paper tape.

- f. Enter the origin of the tidal record from which the reducers in column "d" were derived. The entry must be identical with the terminology expressed in form 681.
- g. Enter the additional information used to determine the corrections: Ratio of Range, \pm time necessary to correct for the gage position, and zone designation.

ABSTRACT OF TIDE CORRECTIONS
(See Instruc
s on reverse side)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
ESSA

1. HYDRO. SURVEY NO.: H-9149

2. FIELD NO.: 745-10-3-70

3. SURVEY LOCATION: Estero Bay, Florida

4. TIME MERIDIAN

d. MO. DAY YR. OR DAY NO. (Date)	b. POSITION NUMBER	c. TIME		d. TIDE REDUCERS FT. FMS.	e. MACHINE ENTRY FMS.	f. TIDE STATION USED (As Form 682)	g. CORRECTION USED ZONE DESIGNATION
		FROM	TO				
5 Oct (278)		0900	1110	+0.2		Wiggins Pass (only)	
			1145	0.0			
			1218	-0.2			
			1300	-0.4			
			1328	-0.6			
			1400	-0.8			
			1437	-1.0			
			1500	-1.2			
			1020	-1.2			
			1100	-1.0			
23 Oct (296)		1000	1200	-0.8			
			1300	-0.6			
			1400	-0.4			
			1400	-0.4			
26 Oct (299)		1200	1240	-1.6			
			1316	-1.4			
			1400	-1.2			
			1439	-1.0			
			1530	-0.8			
27 Oct (300)		0800	1600	-0.6			
			0818	-1.0			
			0900	-1.2			
			0940	-1.4			
			1015	-1.6			
			1200	-1.8			
			1300	-1.6			
			1330	-1.4			
			1400	-1.2			
			1400	-1.2			

5. CHECKED

APPROVED

TIDES & CURRENTS BRANCH

1/26/71 CS

INSTRUCTIONS FOR PREPARATION AND SUBMITTAL

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- b. Enter the position number of the sounding line where the reducer is to first apply.
- c. Enter the time in hours and minutes that the reducer listed in "d" is used.
- d. Enter the tide reducer necessary to correct the sounding to the plane of the reference.

The value entered by the field personnel shall be certified by the Washington Office, or corrected and returned to the originator. Only approved information can be entered into the smooth (edited) tape.

- e. Enter the tide value from the previous column (Tide reducer) applied to a tide base of +60.0.

Example:

$$\begin{array}{r} +60.0 \\ - 3.1 \text{ (from column d.)} \\ \hline +56.9 \text{ (into column e.)} \end{array}$$

This summed value shall be punched into the paper tape.

- f. Enter the origin of the tidal record from which the reducers in column "d" were derived. The entry must be identical with the terminology expressed in form 681.
- g. Enter the additional information used to determine the corrections: Ratio of Range, ± time necessary to correct for the gage position, and zone designation.

ABSTRACT OF TIDE CORRECTIONS
(See Instructions on reverse side)

1. HYDRO. SURVEY NO: H. 9149
2. FIELD NO. 745-10-3-70
3. SURVEY LOCATION Estero Bay, Florida
4. TIME MERIDIAN 1

a. MO. DAY YR. OR DAY NO. (Date)	b. POSITION NUMBER	c. TIME		d. TIDE REDUCERS FT. FMS.	e. MACHINE ENTRY FMS.	f. TIDE STATION USED (As Form 681)	g. CORRECTION USED ZONE DESIGNATION
		FROM	TO				
28 Oct (301)		0800		0815	-0.6 ✓	Wiggins Pass (only)	
				0849	-0.8 ✓		
				0913	-1.0 ✓		
				0939	-1.2 ✓		
				1000	-1.4 ✓		
				1025	-1.6 ✓		
				1100	-1.8 ✓		
				1331	-2.0 ✓		
				1400	-1.8 ✓		
				1425	-1.6 ✓		
29 Oct (302)		0800		1500	-1.4 ✓		
				1600	-1.2 ✓		
				0840	-0.4 ✓		
				0912	-0.6 ✓		
				0936	-0.8 ✓		
				1000	-1.0 ✓		
				1029	-1.2 ✓		
				1100	-1.4 ✓		
				1137	-1.6 ✓		
				1400	-1.8 ✓		
3 NOT (307)		0900		1436	-1.6 ✓		
				1500	-1.4 ✓		
				0948	0.0 ✓		
				1010	+0.2 ✓		
				1045	0.0		
				1120	-0.2		
				1158	-0.4		
				1230	-0.6		
				1300	-0.8		
				1340	-1.0		
1420	-1.2						
1500	-1.4 ✓						

5. CHECKED APPROVED TIDES & CURRENTS BRANCH 1/26/74 est

INSTRUCTIONS FOR PREPARATION AND SUBMITTAL

The information entered on this form shall be derived from associated tide records and together with those records be forwarded to the Washington Office for administrative approval by Tides and Currents Branch, Marine Data Division, Office of Oceanography.

Instructions by item number.

1. Enter the survey number
2. Enter the field number.
3. Enter the survey locality.
4. Enter the time meridian used.
5. Checked: Enter field approval
Approved: Indicate Washington Office approval.

Instructions by columns (letters):

- a. Enter the day of the year. A coded entry must be identifiable in the Washington Office.
- b. Enter the position number of the sounding line where the reducer is to first apply.
- c. Enter the time in hours and minutes that the reducer listed in "d" is used.
- d. Enter the tide reducer necessary to correct the sounding to the plane of the reference.

The value entered by the field personnel shall be certified by the Washington Office, or corrected and returned to the originator. Only approved information can be entered into the smooth (edited) tape.

- e. Enter the tide value from the previous column (Tide reducer) applied to a tide base of +60.0.

Example:

$$\begin{array}{r} +60.0 \\ - 3.1 \text{ (from column d.)} \\ \hline +56.9 \text{ (into column e.)} \end{array}$$

This summed value shall be punched into the paper tape.

- f. Enter the origin of the tidal record from which the reducers in column "d" were derived. The entry must be identical with the terminology expressed in form 681.
- g. Enter the additional information used to determine the corrections: Ratio of Range, \pm time necessary to correct for the gage position, and zone designation.

ABSTRACT OF TIDE CORRECTIONS
(See Instruction 5 on reverse side)

U.S. DEPARTMENT OF COMMERCE
ESSA
COAST AND GEODETIC SURVEY

1. HYDRO. SURVEY NO: **H. 9149** 2. FIELD NO. **745-10-3-70** 3. SURVEY LOCATION **Estero Bay, Florida** 4. TIME MERIDIAN

a. MO. DAY YR. OR DAY NO. (Date)	b. POSITION NUMBER	c. TIME		d. TIDE REDUCERS FT. FMS.	e. MACHINE ENTRY FMS.	f. TIDE STATION USED (As Form 681)	g. CORRECTION USED ZONE DESIGNATION
		FROM	TO				
4 Nov (308)		0800	0830	-0.4 ✓		Wiggins Pass (only)	
			0900	-0.2			
			0937	0.0			
			1025	+0.2			
			1122	+0.4			
			1157	+0.2			
			1222	0.0			
			1300	-0.2			
			1335	-0.4			
			1415	-0.6 ✓			
1500	-0.8 ✓						
5 Nov (309)		0930	1033	+0.4 ✓			
			1230	+0.6 ✓			
			1052	-2.0 ✓			
9 Nov (313)		0900	1100	-1.8 ✓			
			0800	-1.6 ✓			
10 Nov (314)		0800	0809	-1.6 ✓			
			0847	-1.8			
			0920	-2.0			
			1200	-2.2			
			1237	-2.0			
			1312	-1.8			
			1348	-1.6			
			1423	-1.4			
			1500	-1.2 ✓			

5. CHECKED

APPROVED

TIDES & CURRENTS BRANCH 1/26/71 cit

INSTRUCTIONS FOR PREPARATION AND SUBMITTAL

The information entered on this form shall be derived from associated tide records and together with those records be forwarded to the Washington Office for administrative approval by Tides and Currents Branch, Marine Data Division, Office of Oceanography.

Instructions by item number.

1. Enter the survey number
2. Enter the field number.
3. Enter the survey locality.
4. Enter the time meridian used.
5. Checked: Enter field approval
Approved: Indicate Washington Office approval.

Instructions by columns (letters):

- a. Enter the day of the year. A coded entry must be identifiable in the Washington Office.
- b. Enter the position number of the sounding line where the reducer is to first apply.
- c. Enter the time in hours and minutes that the reducer listed in "d" is used.
- d. Enter the tide reducer necessary to correct the sounding to the plane of the reference.

The value entered by the field personnel shall be certified by the Washington Office, or corrected and returned to the originator. Only approved information can be entered into the smooth (edited) tape.

- e. Enter the tide value from the previous column (Tide reducer) applied to a tide base of +60.0.

Example:

$$\begin{array}{r} +60.0 \\ - 3.1 \text{ (from column d.)} \\ \hline +56.9 \text{ (into column e.)} \end{array}$$

This summed value shall be punched into the paper tape.

- f. Enter the origin of the tidal record from which the reducers in column "d" were derived. The entry must be identical with the terminology expressed in form 681.
- g. Enter the additional information used to determine the corrections: Ratio of Range, \pm time necessary to correct for the gage position, and zone designation.

ABSTRACT OF TIDE CORRECTIONS
(See Instruc
s on reverse side)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

1. HYDRO. SURVEY NO:		2. FIELD NO.		3. SURVEY LOCATION		4. TIME MERIDIAN	
H. 9149		745-10-3-70		Estero Bay, Florida			
a. MO. DAY YR. OR DAY NO. (Date)	b. POSITION NUMBER	c. TIME		d. TIDE REDUCERS FT.	e. MACHINE ENTRY FMS.	f. TIDE STATION USED (As Form 681)	g. CORRECTION USED ZONE DESIGNATION
		FROM	TO				
11 NOV (315)		0815	0842	-1.2 ✓	Wiggins Pass (only)		
			0909	-1.4			
			0940	-1.6			
			1015	-1.8			
			1100	-2.0			
			1223	-2.2			
			1300	-2.0			
			1337	-1.8			
			1415	-1.6			
			1500	-1.4			
			1550	-1.2 ✓			
1600	-1.0 ✓						
12 NOV (316)		0900	0910	-1.0 ✓			
			0932	-1.2			
			1000	-1.4			
			1025	-1.6			
			1100	-1.8			
			1145	-2.0			
			1338	-2.2			
			1410	-2.0			
			1450	-1.8			
			1532	-1.6			
			1600	-1.4 ✓			
13 NOV (317)		1000	1025	-1.0 ✓			
			1055	-1.2			
			1122	-1.4			
			1158	-1.6			
			1248	-1.8			
			1400	-2.0			
			1443	-1.8			
1500	-1.6 ✓						

5. CHECKED

APPROVED

TIDES & CURRENTS BRANCH 1/26/71 est

INSTRUCTIONS FOR PREPARATION AND SUBMITTAL

The information entered on this form shall be derived from associated tide records and together with those records be forwarded to the Washington Office for administrative approval by Tides and Currents Branch, Marine Data Division, Office of Oceanography.

Instructions by item number.

1. Enter the survey number
2. Enter the field number.
3. Enter the survey locality.
4. Enter the time meridian used.
5. Checked: Enter field approval
Approved: Indicate Washington Office approval.

Instructions by columns (letters):

- a. Enter the day of the year. A coded entry must be identifiable in the Washington Office.
- b. Enter the position number of the sounding line where the reducer is to first apply.
- c. Enter the time in hours and minutes that the reducer listed in "d" is used.
- d. Enter the tide reducer necessary to correct the sounding to the plane of the reference.

The value entered by the field personnel shall be certified by the Washington Office, or corrected and returned to the originator. Only approved information can be entered into the smooth (edited) tape.

- e. Enter the tide value from the previous column (Tide reducer) applied to a tide base of +60.0.

Example:

$$\begin{array}{r} +60.0 \\ - 3.1 \text{ (from column d.)} \\ \hline +56.9 \text{ (into column e.)} \end{array}$$

This summed value shall be punched into the paper tape.

- f. Enter the origin of the tidal record from which the reducers in column "d" were derived. The entry must be identical with the terminology expressed in form 681.
- g. Enter the additional information used to determine the corrections: Ratio of Range, ± time necessary to correct for the gage position, and zone designation.

ABSTRACT OF TIDE CORRECTIONS
(See Instructions on reverse side)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
ESSA

1. HYDRO. SURVEY NO:		2. FIELD NO.		3. SURVEY LOCATION			4. TIME MERIDIAN
H- 9149		745-10-3-70		Estero Bay, Florida			
a. MO. DAY YR. OR DAY NO. (Date)	b. POSITION NUMBER	c. TIME		d. TIDE REDUCERS FT. FMS.	e. MACHINE ENTRY FT. FMS.	f. TIDE STATION USED (As Form 687)	g. CORRECTION USED ZONE DESIGNATION
		FROM	TO				
30 Nov (334)	1300	1400	1539	-1.2 ✓		Wiggins Pass (only)	
		1600		-1.4 ✓			
1 Dec (335)	0900	1000		+0.6 ✓			
		1024		+0.4 ✓			
		1050		+0.2 ✓			
		1115		0.0 ✓			
		1144		-0.2 ✓			
		1215		-0.4 ✓			
		1245		-0.6 ✓			
		1315		-0.8 ✓			
		1350		-1.0 ✓			
		1418		-1.2 ✓			
		1500		-1.4 ✓			
		1600		-1.6 ✓			
2 Dec (336)	1000	1045		+0.4 ✓			
		1112		+0.2 ✓			
		1140		0.0 ✓			
		1208		-0.2 ✓			
		1240		-0.4 ✓			
		1305		-0.6 ✓			
		1339		-0.8 ✓			
		1415		-1.0 ✓			
		1500		-1.2 ✓			
		1600		-1.4 ✓			

5. CHECKED

APPROVED

TIDES & CURRENTS BRANCH 1/26/71 *at*

INSTRUCTIONS FOR PREPARATION AND SUBMITTAL

The information entered on this form shall be derived from associated tide records and together with those records be forwarded to the Washington Office for administrative approval by Tides and Currents Branch, Marine Data Division, Office of Oceanography.

Instructions by item number.

1. Enter the survey number
2. Enter the field number.
3. Enter the survey locality.
4. Enter the time meridian used.
5. Checked: Enter field approval
Approved: Indicate Washington Office approval.

Instructions by columns (letters):

- a. Enter the day of the year. A coded entry must be identifiable in the Washington Office.
- b. Enter the position number of the sounding line where the reducer is to first apply.
- c. Enter the time in hours and minutes that the reducer listed in "d" is used.
- d. Enter the tide reducer necessary to correct the sounding to the plane of the reference.

The value entered by the field personnel shall be certified by the Washington Office, or corrected and returned to the originator. Only approved information can be entered into the smooth (edited) tape.

- e. Enter the tide value from the previous column (Tide reducer) applied to a tide base of +60.0.

Example:

$$\begin{array}{r} +60.0 \\ - 3.1 \text{ (from column d.)} \\ \hline +56.9 \text{ (into column e.)} \end{array}$$

This summed value shall be punched into the paper tape.

- f. Enter the origin of the tidal record from which the reducers in column "d" were derived. The entry must be identical with the terminology expressed in form 681.
- g. Enter the additional information used to determine the corrections: Ratio of Range, \pm time necessary to correct for the gage position, and zone designation.

ABSTRACT OF TIDE CORRECTIONS
(See Instructions on reverse side)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
ESSA

1. HYDRO. SURVEY NO:		2. FIELD NO.		3. SURVEY LOCATION		4. TIME MERIDIAN	
H- 9149		745-10-3-70		Estero Bay, Florida			
a. MO. DAY YR. OR DAY NO. (Date)	b. POSITION NUMBER	c. TIME		d. TIDE REDUCERS FT.	e. MACHINE ENTRY FMS.	f. TIDE STATION USED (As Form 583)	g. CORRECTION USED ZONE DESIGNATION
		FROM	TO				
3 Dec (337)		0800	0816	-0.2 ✓		Wiggins Pass (only)	
			0849	0.0			
			0929	+0.2			
			1006	+0.4			
			1123	+0.6			
			1149	+0.4			
			1205	+0.2			
			1230	0.0			
			1300	-0.2			
			1340	-0.4			
			1415	-0.6			
			1500	-0.8			
			1540	-1.0			
			1600	-1.2 ✓			
7 Dec (341)		1100	1215	-0.6 ✓			
14 Dec (348)		0900	0928	+0.6 ✓			
			1000	+0.4			
			1030	+0.2			
			1100	0.0			
			1140	-0.2 ✓			
			1213	-0.4			
			1245	-0.6			
			1310	-0.8			
			1340	-1.0			
			1600	-1.2 ✓			

5. CHECKED

APPROVED TIDES & CURRENTS BRANCH 1/26/71 *cit*

INSTRUCTIONS FOR PREPARATION AND SUBMITTAL

The information entered on this form shall be derived from associated tide records and together with those records be forwarded to the Washington Office for administrative approval by Tides and Currents Branch, Marine Data Division, Office of Oceanography.

Instructions by item number.

1. Enter the survey number
2. Enter the field number.
3. Enter the survey locality.
4. Enter the time meridian used.
5. Checked: Enter field approval
Approved: Indicate Washington Office approval.

Instructions by columns (letters):

- a. Enter the day of the year. A coded entry must be identifiable in the Washington Office.
- b. Enter the position number of the sounding line where the reducer is to first apply.
- c. Enter the time in hours and minutes that the reducer listed in "d" is used.
- d. Enter the tide reducer necessary to correct the sounding to the plane of the reference.

The value entered by the field personnel shall be certified by the Washington Office, or corrected and returned to the originator. Only approved information can be entered into the smooth (edited) tape.

- e. Enter the tide value from the previous column (Tide reducer) applied to a tide base of +60.0.

Example:

$$\begin{array}{r} +60.0 \\ - 3.1 \text{ (from column d.)} \\ \hline +56.9 \text{ (into column e.)} \end{array}$$

This summed value shall be punched into the paper tape.

- f. Enter the origin of the tidal record from which the reducers in column "d" were derived. The entry must be identical with the terminology expressed in form 681.
- g. Enter the additional information used to determine the corrections: Ratio of Range, ± time necessary to correct for the gage position, and zone designation.

ABSTRACT OF TIDE CORRECTIONS
(See Instructions on reverse side)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
ESSA

1. HYDRO. SURVEY NO:		2. FIELD NO.		3. SURVEY LOCATION		4. TIME MERIDIAN	
H. 9149		745-10-3-70		Estero Bay, Florida			
a. MO. DAY YR. OR DAY NO. (Date)	b. POSITION NUMBER	c. TIME		d. TIDE REDUCERS FT. FMS.	e. MACHINE ENTRY FMS.	f. TIDE STATION USED (As Form 687)	g. CORRECTION USED ZONE DESIGNATION
		FROM	TO				
17 Sept (260)	0755	0755	0756	0.0 ✓		Carlos Point (only)	
21 Oct (294)	0700	0726	0752	-2.4 ✓			
		0822	0855	-2.2 ✓			
		0855	0925	-2.0 ✓			
		0925	1000	-1.8 ✓			
		1000	0924	-1.6 ✓			
23 Oct (296)	0700	1000	1040	-1.4 ✓			
		1132	1220	-1.2 ✓			
		1220	1300	-1.0 ✓			
		1300	0820	-1.0-2.0			
		1400	0900	-1.2-2.2			
26 Oct (299)	0800	0945	1153	-1.4-2.4			
		1153	1225	-1.6-2.6			
		1225	1300	-1.4-2.4			
		1300	1400	-1.2-2.2			
		1400		-1.0-2.0			

5. CHECKED APPROVED TIDES & CURRENTS BRANCH 11/26/71 aif

INSTRUCTIONS FOR PREPARATION AND SUBMITTAL

The information entered on this form shall be derived from associated tide records and together with those records be forwarded to the Washington Office for administrative approval by Tides and Currents Branch, Marine Data Division, Office of Oceanography.

Instructions by item number.

1. Enter the survey number
2. Enter the field number.
3. Enter the survey locality.
4. Enter the time meridian used.
5. Checked: Enter field approval
Approved: Indicate Washington Office approval.

Instructions by columns (letters):

- a. Enter the day of the year. A coded entry must be identifiable in the Washington Office.
- b. Enter the position number of the sounding line where the reducer is to first apply.
- c. Enter the time in hours and minutes that the reducer listed in "d" is used.
- d. Enter the tide reducer necessary to correct the sounding to the plane of the reference.

The value entered by the field personnel shall be certified by the Washington Office, or corrected and returned to the originator. Only approved information can be entered into the smooth (edited) tape.

- e. Enter the tide value from the previous column (Tide reducer) applied to a tide base of +60.0.

Example:

$$\begin{array}{r} +60.0 \\ - 3.1 \text{ (from column d.)} \\ \hline +56.9 \text{ (into column e.)} \end{array}$$

This summed value shall be punched into the paper tape.

- f. Enter the origin of the tidal record from which the reducers in column "d" were derived. The entry must be identical with the terminology expressed in form 681.
- g. Enter the additional information used to determine the corrections: Ratio of Range, ± time necessary to correct for the gage position, and zone designation.

520	26	20	1086.5	81	50	0987.5	1	1
656	26	20	1466.0	81	51	0152.4	1	1
528	26	20	1772.0	81	50	1377.0	1	1
663	26	20	1723.3	81	51	0245.4	1	1
824	26	21	0295.0	81	50	0839.4	1	1
521	26	20	1136.0	81	50	0776.9	1	1
661	26	20	1617.8	81	51	0173.5	1	1
254	26	21	0261.0	81	51	0233.7	1	1
519	26	20	0960.5	81	50	0882.2	1	1
530	26	20	1799.0	81	50	1610.0	1	1
518	26	20	0855.0	81	50	1136.9	1	1
529	26	20	1480.5	81	50	1463.5	1	1
275	26	20	1801.5	81	50	1039.9	1	1
517	26	20	0618.5	81	50	1170.8	1	1
288	26	21	0590.5	81	50	1497.4	1	1
516	26	20	0579.5	81	50	0846.0	1	1
525	26	20	1566.5	81	50	1306.0	1	1
515	26	20	0464.0	81	50	0977.0	1	1
314	26	21	0867.5	81	50	0427.2	1	1
527	26	20	1663.5	81	50	1184.5	1	1
321	26	21	0265.0	81	50	0235.0	1	1
524	26	20	1608.5	81	50	0855.5	1	1
326	26	20	1516.0	81	50	0441.2	1	1
514	26	20	0300.0	81	50	0961.9	1	1
335	26	21	0313.8	81	50	0834.5	1	1
523	26	20	1488.5	81	50	0596.0	1	1
513	26	20	0286.5	81	50	0730.0	1	1
344	26	21	1150.0	81	50	1179.0	1	1
349	26	21	0000.9	81	50	0337.6	1	1
001	26	15	0485.5	81	49	0145.5	1	1
002	26	15	0512.0	81	49	0411.5	1	1
003	26	15	0688.0	81	49	0202.0	1	1
004	26	15	0665.5	81	49	0605.5	1	1
005	26	15	0757.5	81	49	0481.5	1	1
006	26	15	0907.0	81	49	0625.5	1	1
007	26	15	0998.0	81	49	0321.5	1	1
008	26	15	1122.5	81	49	0525.0	1	1
009	26	15	1167.5	81	49	0683.0	1	1
010	26	15	1364.5	81	49	0575.5	1	1
011	26	16	0046.0	81	49	0977.0	1	1
012	26	16	1085.0	81	49	0699.0	1	1
013	26	16	1225.5	81	49	0600.0	1	1
014	26	16	1223.0	81	49	0845.5	1	1
015	26	16	1461.5	81	49	0520.0	1	1
016	26	16	1603.0	81	49	0650.0	1	1
017	26	16	1623.5	81	49	0845.0	1	1
018	26	16	1477.5	81	49	0921.0	1	1
019	26	16	1413.0	81	49	1299.5	1	1
020	26	16	1677.0	81	49	1352.0	1	1
021	26	16	1827.5	81	48	0649.0	1	1
022	26	16	1706.5	81	48	0934.0	1	1
023	26	16	1683.0	81	48	1080.0	1	1
024	26	16	1756.0	81	48	1043.0	1	1
025	26	16	1840.5	81	48	1148.5	1	1
026	26	17	0007.5	81	48	0526.0	1	1

Control

H-9149

742-10-3-70

027	26	17	0096.5	81	48	0607.0	1	1
028	26	17	0046.5	81	48	0704.0	1	1
029	26	17	0085.5	81	48	1072.0	1	1
030	26	17	0123.0	81	48	1189.0	1	1
031	26	17	0177.5	81	48	1358.0	1	1
032	26	17	0288.0	81	48	1530.0	1	1
033	26	17	0313.0	81	48	1591.5	1	1
034	26	17	0213.0	81	48	1640.5	1	1
035	26	17	0481.5	81	48	1606.0	1	1
036	26	17	0581.0	81	48	1508.5	1	1
037	26	17	0732.5	81	48	1590.0	1	1
038	26	17	0858.0	81	48	1600.5	1	1
039	26	17	0323.0	81	49	0046.5	1	1
040	26	17	0384.5	81	49	0138.0	1	1
041	26	17	0618.5	81	49	0153.0	1	1
042	26	17	0627.0	81	49	0214.5	1	1
043	26	17	0576.5	81	49	0345.0	1	1
044	26	17	0658.0	81	49	0444.5	1	1
045	26	17	0755.0	81	49	0524.0	1	1
046	26	17	0751.5	81	49	0309.0	1	1
047	26	17	0774.0	81	49	0217.0	1	1
048	26	17	0840.0	81	49	0220.5	1	1
049	26	17	0875.5	81	49	0113.5	1	1
050	26	17	0840.5	81	49	0450.5	1	1
051	26	17	0747.0	81	49	0714.0	1	1
052	26	17	0800.0	81	49	0697.5	1	1
053	26	17	0842.0	81	49	0817.0	1	1
054	26	17	0201.0	81	49	1078.0	1	1
055	26	17	0278.0	81	49	1120.0	1	1
056	26	17	0237.0	81	49	1211.0	1	1
057	26	17	0319.0	81	49	1325.0	1	1
058	26	17	0328.5	81	49	1214.0	1	1
059	26	17	0078.0	81	49	1415.0	1	1
060	26	17	0394.5	81	49	1499.0	1	1
061	26	17	0520.0	81	49	1333.5	1	1
062	26	17	0600.5	81	49	1182.0	1	1
063	26	17	0667.5	81	49	1003.5	1	1
064	26	17	0695.0	81	49	0903.0	1	1
065	26	17	0789.0	81	49	0983.0	1	1
066	26	17	0764.0	81	49	1105.0	1	1
067	26	17	0872.5	81	49	0941.0	1	1
068	26	17	0653.5	81	49	1394.0	1	1
069	26	17	0612.5	81	49	1486.0	1	1
070	26	17	0892.5	81	49	1551.5	1	1
071	26	17	1032.5	81	49	0432.0	1	1
072	26	17	1137.0	81	49	0379.5	1	1
073	26	17	1121.5	81	49	0487.0	1	1
074	26	17	0990.0	81	49	0653.0	1	1
075	26	17	1088.0	81	49	0664.5	1	1
076	26	17	1246.5	81	49	0694.5	1	1
077	26	17	0980.0	81	49	0838.0	1	1
078	26	17	1092.5	81	49	0830.0	1	1
079	26	17	1089.0	81	49	0898.0	1	1
080	26	17	0979.5	81	49	0948.0	1	1
081	26	17	0968.0	81	49	1034.0	1	1

082	26	17	1135.0	81	49	1004.0	1	1
083	26	17	1211.0	81	49	0957.0	1	1
084	26	17	1360.0	81	49	0855.0	1	1
085	26	17	1365.0	81	49	1136.0	1	1
086	26	17	1458.5	81	49	1120.0	1	1
087	26	17	1385.0	81	49	1241.0	1	1
088	26	17	1329.0	81	49	1339.0	1	1
089	26	17	1197.5	81	49	1609.0	1	1
090	26	17	1705.5	81	49	1175.0	1	1
091	26	17	1722.5	81	49	0853.0	1	1
092	26	17	1474.0	81	50	0014.5	1	1
093	26	17	1722.5	81	50	0066.0	1	1
094	26	18	0007.0	81	49	1090.0	1	1
095	26	18	0037.0	81	49	1291.0	1	1
096	26	18	0138.5	81	49	1259.0	1	1
097	26	18	0387.0	81	49	1343.0	1	1
098	26	18	0434.0	81	49	1464.5	1	1
099	26	18	0515.0	81	49	1612.0	1	1
100	26	18	0620.0	81	49	1605.0	1	1
101	26	18	0588.0	81	49	1479.5	1	1
102	26	18	0470.5	81	49	1255.0	1	1
103	26	18	0545.0	81	49	1315.0	1	1
104	26	18	0896.0	81	49	1320.0	1	1
105	26	18	0858.5	81	49	1477.0	1	1
106	26	18	1048.5	81	49	1572.0	1	1
107	26	18	1145.0	81	49	1416.0	1	1
108	26	18	1466.0	81	49	1438.5	1	1
109	26	18	1666.0	81	49	1487.0	1	1
110	26	18	1676.0	81	49	1283.0	1	1
111	26	18	0258.5	81	50	0167.0	1	1
112	26	18	0952.5	81	50	0038.0	1	1
113	26	19	0065.5	81	49	1518.5	1	1
114	26	19	0144.5	81	49	1382.0	1	1
115	26	19	0271.0	81	49	1660.5	1	1
116	26	19	0356.0	81	49	1360.0	1	1
117	26	19	0595.0	81	49	1438.5	1	1
118	26	19	0929.5	81	49	1386.0	1	1
119	26	19	0971.0	81	49	1217.0	1	1
120	26	19	1082.0	81	49	1368.0	1	1
121	26	19	1168.5	81	49	1361.5	1	1
122	26	19	1293.5	81	49	1372.5	1	1
123	26	19	1439.0	81	49	1534.0	1	1
124	26	19	1405.5	81	49	1626.5	1	1
125	26	19	0162.0	81	50	0200.0	1	1
126	26	19	0286.5	81	50	0133.0	1	1
127	26	19	0498.0	81	50	0161.0	1	1
128	26	19	0470.5	81	50	0360.0	1	1
129	26	19	0590.0	81	50	0638.0	1	1
130	26	19	0709.0	81	50	0767.0	1	1
131	26	19	0886.0	81	50	0862.0	1	1
132	26	19	0821.0	81	50	0324.5	1	1
133	26	19	0876.5	81	50	0008.5	1	1
134	26	19	1180.0	81	50	0020.0	1	1
135	26	19	1033.0	81	50	0283.5	1	1
136	26	19	1243.0	81	50	0389.5	1	1

137	26	19	1266.5	81	50	0521.0	1	1
138	26	19	1266.0	81	50	0251.0	1	1
139	26	19	1374.0	81	50	0385.0	1	1
140	26	19	1316.5	81	50	0628.5	1	1
141	26	19	1450.5	81	50	0520.0	1	1
142	26	19	1580.0	81	50	0298.0	1	1
143	26	19	1740.5	81	50	0080.0	1	1

Verifier: Wm. H. Guy

07 May 75

Verification Note to FDP (AMC)

Survey H-9149 745-10-3-70 DPR-491

This office has completed the verification of the position overlay for this survey.

Please recompute the entire survey as signal eleven was numbered and used as signal number ten in the position overlay and printout.

Plot Triangulation Station $26^{\circ}15'11.869''$, $81^{\circ}49'23.978''$

There are twenty four signals not to be plotted as they were not used in this survey. They are signal numbers: 007, 021, 025, 026, 027, 028, 029, 034, 043, 071, 072, 085, 088, 101, 118, 119, 120, 122, 142, 143, 254, 326.

There are thirty eight signal numbers not to be plotted. They are: 035, 040, 052, 053, 055, 056, 064, 065, 071, 075, 078, 079, 080, 082, 093, 086, 090, 094, 096, 097, 105, 109, 113, 114, 115, 126, 132, 134, 139, 139, 519, 520, 524, 525, 529, 661.

There sixty signal numbers to be moved. They are:

H-9149

(2)

Signal #	Direction		
01	E	63-SW	518 SW
04	W	66 NW	523 S
05	E	68 NW	656 V
06	W	69 NW	663 SW
08	NE	73 N	275 SW
09	W	81 W	
10	N	84 E	
14	W	91 NE	
16	N	95 W	
17	N	98 S	
18	W	99 S	
24	N	100 W	
31	NE	103 NE	
32	NE	106 W	
33	NE	107 N	
38	NW	124 E	
39	NW	125 SW	
41	NW	128 SW	
42	SW	130 W	
44	W	131 SW	
45	S	135 W	
48	N	136 S	
49	NW	140 SW	
50	N	141 N	
54	S	513 E	
57	NW	516 NE	
58	NE	517 NW	

H-9142

(3)

There is one inset to be made, Form CAMB-1
accompanies this note, marked Inset.

Change the Point of origin, Form CAMB-1
accompanies this note.

Cards were key-punched by personnel of this
office and accompany this note.

There are eight DR corrections caused by
tapping error.

After all corrections have been applied, please
furnish this office with a sounding overlay
and printout.

William H. Jones
Chief Verification Branch

Date 07 May 75

Norfolk, Virginia

VERIFICATION NOTE TO EDP-AMC
Survey H-9149 Field No. 745-10-3-75
OPR 491

The following overlays and printouts (with additional changes) are requested by the Verification Branch:

- 404 Positions to be changed
- Soundings to be corrected
- Soundings to be excessed

Control Overlay to Position Overlay and Printout NO
 Position to Sounding Overlay and Printout yes
 Soundings Corrector Printout NO Sounding Overlay to Smooth Sheet NO

Overlay Verified Yes Plot Overlay and Printout Yes
 ? Change Point of Origin Yes Change Signals NO
 Change Signal No. Origin yes Enlarge congested area NO
 Plot Sub-plans NO Cards Punched yes Plot Electronic Arcs NA
 Plot Smooth Sheet NA Mylar Paper
 Plot Soundings in fms: tenths to 31 and half fms to 101 ft
 Plot Sounding Overlay in Color NO Black Ink yes
 Request Corrector Printout NO Change Velocity Correctors NO
 Change Tide Correctors NO TRA Correctors NO
 Proj. Blue Ball Point Pen and 10 mm Black Ticks yes
 Plot Revised Excess Overlay Level 2, 2, 3 #3 (2, 1-2)
 Plot Soundings at Regular yes 15 30 15 15
 Plot Distortion Points NO Plot Stamp No. 42 NO

Cards have been keypunched for all changes and accompany this note.

After all corrections have been applied, please plot the ^{sounding} ~~smooth~~ sheet with plotter origin See CAM3-1 size 36" x 50"
 overlay

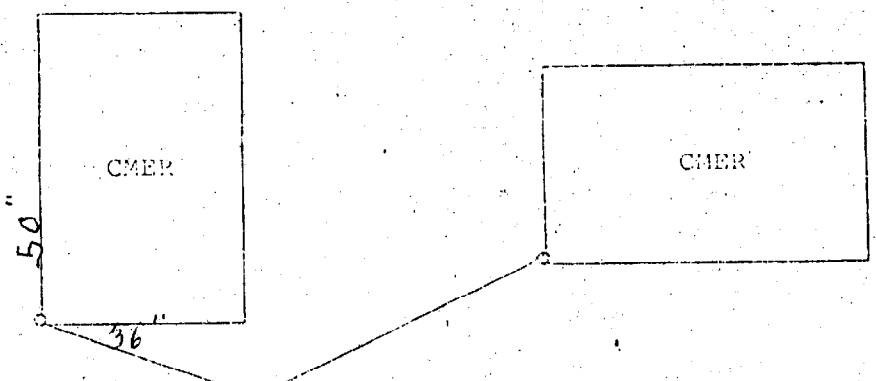
William L. Jonns
 Chief, Verification Branch
 -AMC

No. 42	HYDROGRAPHIC SURVEY	
Field No. <u>745-10-3-70</u>	Reg. No. <u>H-9149</u>	<u>(OPR-491)</u>
Scale <u>1:10,000</u>	Plotted:	Verified <u>WNG.</u>
Projection	<u>EDP (AMC)</u>	
Tri. Sta.	<u>EDP (AMC)</u>	
Topo. Sta.	<u>NONE</u>	
Hydro. Sta.	<u>NONE</u>	
Datum	<u>N.A. 1927</u>	
Ref. Sta. <u>VANDER 1955 64-70</u>		
Lat. <u>26 15 365.26</u>		m. Adj. <u>✓</u>
Long. <u>81 49 665.44</u>		Unadj. <u>✓</u>

location on sheet 26° 15' 30"
81° 49' 30"

PROJECTION PARAMETERS:
POLYCONIC OR MODIFIED TRANSVERSE MERCATOR

- 1. Project No. OPR-491
- 2. Reg. No. 9149
- 3. Field No. 2#5-10-3-70
- 4. Requested By vrh
- 5. Ship or Office Verif
- 6. Date Required soundings overlay
- 7. Polyconic Modified Transverse Mercator
- 8. Central Meridian of Projection 81 ° 49 ' 00 " ✓
- 9. Survey Scale: 1: 10,000 ✓
- 10. Size of Sheet (check one):
 36 x 54 36 x 60 Other Specify: 36x50 " ✓
- 11. Sheet Orientation (check one):
 NYX = 1 NYX = 0



- 12. Plotter Origin: S.W. Corner of Sheet (not necessarily a grid intersection)
 Latitude 26 ° 14 ' 51 " ✓
 Longitude 81 ° 51 ' 43 " ✓
- 13. G.P.'s of Triangulation and/or signals attached
- 14. Material required: Tracing Paper Paper
 Smooth Sheet Other Specify soundings overlay
- 15. Remarks: _____

CAN3-1
1/31/74

Inset

ATLANTIC MARINE CENTER

PROJECTION PARAMETERS

POLYCONIC OR MODIFIED TRANSVERSE MERCATOR

- 1. Project No. OPR-491
- 2. Reg. No. H-9149
- 3. Field No. 745-10-3-70
- 4. Requested By W.H.G.
- 5. Ship or Office Ver. 8
- 6. Date Required soundings overlay

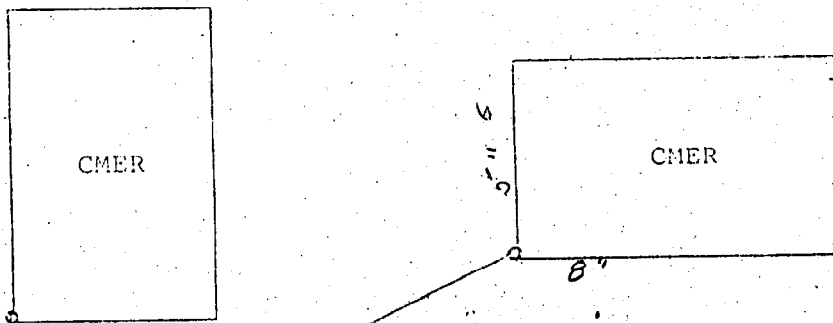
- 7. Polyconic Modified Transverse Mercator
- 8. Central Meridian of Projection 81 ° 48 ' 00 "

- 9. Survey Scale: 1:10,000
- 10. Size of Sheet (check one):

36 x 54 36 x 60 Other Specify 518

- 11. Sheet Orientation (check one):

NYX = 1 NYX = 0



- 12. Plotter Origin: S.W. Corner of Sheet (not necessarily a grid intersection)
 Latitude 26 ° 18 ' 30 . 7 "
 Longitude 81 ° 48 ' 30 . 7 "

- 13. G.P.'s of triangulation and/or signals attached
- 14. Material Desired: Tracing Paper Nylon
 Smooth Sheet Other Specify _____

- 15. Remarks: Inset location on soundings overlay
Record 556 thru 620

