8571

Diag. Cht. No. 1255-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No S0-20-1-60 Office No. H-8571

LOCALITY

tate Flerida

General locality West Coast

Locality South of San Carles Bay

19.61

CHIEF OF PARTY

F. J. Tucker, Jr.

LIBRARY & ARCHIVES

DATE September 27, 1962

USCOMM-DC 5087

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

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

REGISTER No. R. 8571

Field No. 80-20-1-60

State FLORIDA		
General locality WEST COAST CF FLORIDA		
Locality 34 1951- 131-119 SOUTH OF S	IAN CARLOS BAY	
Scale 1:20,000 Da	ate of survey 1960-1961	
Instructions dated 18 December 1952 and	8 September 1958	
Vessel Shin SOSBEE		
Chief of party Floyd J. Tucker, Jr.		. ,
Surveyed by N.C. Munson, F. J. Tucks	r, E.L. Talbot, R.M.	Davidson,
D.F.S. Galloway, E.D. Se Soundings taken by fathemate r, graphic recorder		pole .
Fathograms scaled by Ship SOSBEE Person	in el	
Fathograms checked by Ship 30 SBEE Per	eonnel	
Protracted by Fred Bean (Norf	olk District Office)	
Soundings penciled by Fred Bean		
Soundings in fathers feet at MLW	WILLW .	
REMARKS: All corrections have been	entered, cheaked ar	nd the
soundings have been reduced by.	the personnel of the	
Ship SOSBET		

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SURVEY H-8571

(Field Number 80-20-1-60)

West Coast of Florida

Sanibel Island

90016 1:20,000

USCAGS Ship SOSBEE

1960 - 61 - Chief of Party

Robert C. Munson

1961 -

Chief of Party

Floyd J. Tucker, Jr.

A. PROJECT

Project OPR-353, Charlotte Harbor and Vicinity, Florida. Original Instructions, 222/MEK, S-2-80 dated 12/18/52. Revised Instructions, 222/MEK, S-2-80 dated 9/8/58.

B. AREA SURVEYED

This is a survey of the Coast of the Gulf of Hexico from the southwest point of Sanibel Island south and eastward to Estero and Hickory Islands.

The limits are:

North - Sanibel Island

dast - Ft. Hyers and Bonita Beach

South - 26° 20' N. West - 82° 05.7' W.

Junctions were made with contemporary and prior surveys as follows:

Direction Registry No. Field No. Date Scale

West - H-8363 - 80-2356 - 1956-61 - 1:20,000

Bouth - H-8328 - HY-8156 - 1956 - 1:80,000

- H-1592a - 1884 - 1:40,000

Hydrography was run between 15 February 1960 and 15 April 1960 and between 14 February 1961 and 14 April 1961.

C. SOUNDING VESSEL

The ship SOSBEE performed the hydrography offshore from approximately the 12 foot curve. It has a turning radius of 100 meters at 1500 and 1400 r.p.m. The sounding speed was reduced to 1000 r.p.m. in the shoal water near the beach.

Triangulation location of Sta. SNACK, 1960-62
not available at this time. (5/3/65)
Photogrammetric location can be found
in Special Report 1960, No. 8
Proj. CS-353, Ship SOSBEE

See note

Page

0. SOUNDING VESSEL - Cont'd.

The turning radius at the reduced speed is also 100 meters.

All inshore hydrography was performed by Skiff 735, a 25 foot wooden hull, flat-bottom skiff powered by two ten hersepower outboard notors. It has a + speed of six knots and a turning radius of 25 meters.

Both the ship and skiff used blue to identify the work. Not in accordance

D. BOUNDING EQUIPMENT

All soundings were obtained with either a 808 fathometer or a sounding pole. Two 808 fathometers were used, numbers 57-35 and 150. Both 808's were calibrated for 820 fm./sec. Pole soundings were obtained in depths less than three feet.

All velocity corrections were determined from bar checks.

E. SMCOTH SHEET

Norfolk Processing Office.

F. CONTROL

Microwave Position-Fixing System control was used for 95% of the Ship hydrography. The remainder of the ship work and all of the skiff hydrography was controlled visually.

The IPPS transmitters were set up at triangulation stations WIGGINS RM 5 1960, ROOB 2 RM 3 1960, and SNACK 1960 with the intention that they would furnish the necessary control for all shin work. As the work progressed westward, the angles obtained from the transmitters on WIGGING and SNACK steadily reduced. By the time the hydrography reached longitude 82° 03'W. the angles were so small that the resulting fix was too senst use to plot accurately. The transmitter at WIGGINS and SNACK were moved to LASS 1960 and Sanibel Island Lighthouse 1955 on Sanibel Island to obtain stronger fixes. The work was them extented westword and joined survey H-8363 (80-2356).

LASS 1960 is a traverse station from GLASS 1956.

Signal locations for the visual hydrography were obtained from Advance Hanuscripts T-11417, T-11414, and T-11418. cept for TAN (Fort Myers Beach Municipal WATER TANK, 1955), FOR (Beacon No. 4 3an Carlos Bay, 1958) and SAN (Sanibel Island Light, 1995).

G. SHORELINE

The only shoreline, along Sanibel Island, was transferred to the boat sheet from 1:20,000 blue line manuscript reduced from T-11417. Shoreline along Estero I. and vicinity shown on smooth sheet.

G. SHORELINE - Cont'd.

The low-water line is not defined due to the open exposed sante I coast and tide range. Lines were run parallel to the shore as close as possible without jeopardy to life or property.

H. CROSSLINES

There are 70.4 nautical miles or 6% of the hydrography is crosslines. There is no notable descrepancies at the crossings.

I. JUNCTIONS

Junctions with adjoining surveys are satisfactory with no holidays and depth curves can be adequately drawn.

J. COMPARISON WITH PRIOR SURVEYS

The agreement is generally good with prior surveys H_917, H_4344, H_1592a, and H_1478a.

K. COMPARISON WITH THE CHART

A comparison with Chart 1255, 6th. Edition, 4/11/60 and correct to date is as follows:

Charted Feet	Depth	New Depti Feet	1		atitude North			gitude est	
22	•	25 ×	-	260	19.61	_	87.0	54.41	/
25	-	28 ⊬	-	260	20.41	-			Comparable
25	-	28 v	•		21.31	-			
27	-	31 30	-		21.4	-	820	00.310	present depths within 241/4 s
25	-	29 28	-	260	21.41	_	820	00.8	generally
27	**	30 29	-	260		**	820	02.31	close by

All other soundings agree within one or two feet.

L. ADEQUACY OF SURVEY

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

M. AIDS TO NAVIGATION

Fixed Aids to Navigation are:

Sanibel Island Light - Light List No. 5090 and 4399 Channel Daybeacon 4

Channel Daybeacon 6 Not on sheet

Pleating Aids to Navigation are:

\$ 26°-23.70' \$ 81°-55.58

San Carlos Bay, Calcosa Lighted Bell Buoy 2, 5087 & 4398 San Carlos Bay, Outer Buoy 1

\$ 26*24.65' 2 81°-57.75'

M. AIDS TO NAVIGATION - Cont'd.

A comparison was made with the Light List and Chart 473. The aids adequately serve the area.

Outer Buoy 1 is in the feet of water, but the Light List has it in & feet of water.

O.K. 75/3 basy new 6"3".

One New Landmark to be charted, offshore of two stacks on the stern-wheeler "Algiers", (landlocked in place), about Chart 1255 175 feet north of the HWL. This stack is signal ASK, number 8th Ed. 17112, T-sheet number T-11417, Photo number 60W4459.

N. STATISTIČE

			Sh	1p	BUBBLE	•			
Day Letter	. Date		of tion	s `	Nautical miles of Sounding		No. of Bottom Samples		No. of Pole Soundings
۸ -	2/16/60	_	59	-	17.6	-	ð	-	O -
B -	2/17/60	- 1	73	**	51.8	-	Ō	••	, 0
3 -	-2/13/60	-	16/	-	4.2	-	0	-	0
D -	2/19/60	-	32	•	10.8	-	0	-	0
E -		- 1	22/	-	36.7		0	-	0
F -		- 1	.4 8 .		44.5	-	. 1	-	0
G -	2/26/60	-	50	-	15.7	~	0	-	0
R -	3/1/60		96		54.0	•	10	-	0
J -	3/2/60	- 1	90/	•	59.2	•	7	•	O
K -	3/7/60	~	78	-	21.1	-	1	***	0
L -	3/8/60		19	•	63.7	-	5 5 1	-	Ō
<u> </u>	3/9/60		64-	-	39.7	-	8	•	0
N -	3/10/60	- 1	65	-	49.2	-	3	-	0
P -	3/11/60		77	-	24.8	-	1	-	0
9 ~	3/15/60	-	15/		3.8		0	•	0
R -		- 2	17/	-	60.3	•	2 0	-	0
8		-	21/	-	5.2	~	0	•	0
<u>r</u> -		- 1	44/	-	35.7	•	5	•	0
<u>n</u> -	3/22/50	- 1	75/	-	44.2	-	1	-	0
γ -	<i>J</i> , <i>-</i> , <i>j</i> , <i>y -</i>	1	89	-	44.0	•	7	-	0
W	3/24/60	- 2	26 /	~	67.1	•	. 3	-	0
X -	3/25/60	- .t.	29/	-	35.6	•	1	***	0
¥ -	3/28/60	- ^	78	-	24.3	-	6175164	•	0
2 -	3/29/60 3/30/60	- 2	03 / 11 /	-	57.8	•	4	-	0
AA - BA -	1/11/60	- 4	45	-	32.4	-	50	-	0
BA - CA -	4/7/60	- 1	09	-	50.7 36.7		4	*	ŏ
DA ~	4/9/60	- 1	90	-	56.3	-	11	-	ŏ
EA -	4/11/60		10	-	3.2	_	0	-	Ŏ.
FA -	4/12/60	_	26	_	7.0	_	2	-	0
GA -	2/14/61	_ 7	10	_	25.0	_	õ	_	ŏ
-									
Total	•	-3.7	707	-	1,082.3	-	90	•	0

W. STATISTICS - Cont'd.

Sk111 735

	Day tto		Date		No. of Position	A#	Nautical miles of Bounding		No. of Bottom Samples		No. of Pole Soundings
		•	2/22/61	-	26 ′	-	4.9	•	•	_	Ð
	b	•	3/2/61	-		-	18.4	-	. 3	•	143
	•	-	3/3/61	•	92 16	-	3.7	-	1	-	Ô
	đ		3/14/61	-	74	•	14.6	-	2	•	0
•	Sk	iff	Total	-	208	-	41.6	•	6	-	143
	Sh	ip	Total	•	3,787	-1	,082.3	-	90	_	0
•	GR	AND	TOTAL	•	3,995	-1	,123.9	-	96	•	143

Total area in square Nautical Miles = 60.4

O. MISCELLANEOUS

None.

P. RECOMMENDATIONS

This survey is complete and adequate to superseds prier surveys for charting.

Q. REFERENCES TO REPORTS

Micro-Wave Position Fixing System Control For Mydrography, forwarded April 1960.

Respectfully submitted,

Fleyd J. Tucker, Jr. Lieus., C & G S

TIDE NOTE

for

H-8571 (80-20-1-60)

The portable tide gage at Punta Rasa, Florida (Latitude 26° 29.3°H, Longitude 82° 00.8°W) was used to control the hydrography. There were no corrections applied to the observed tides. Hean Low Water on the staff was 1.9 feet until 10 September 1960 when the installation was damaged by Hurricane DONNA. Hean Low Water on the new staff was 2.1 feet.

The 75th time meridian was used for this station.

Not on sheet

ABSTRACT OF BAR CHECKS - SKIFF 735

H-8571 (30-2n-1-6n)

DATE	DAY				WOUND BY BROWN	The Control							1			1
	ETTER	٣	η	3	6 2	α	O	7	12	11 12 13 16 18	3.5		OLUME	PAGE	OLUME PAGE INITIAL FATH.	MINAER
2/22/61	4			<u></u>	ROUGH					ì		i				57-35
19/2 /	۵		000		c c	c c			c		c	16	16	۲, E	9.0	
3/ 1/61	O			- .	RODGH						•	•	÷	22	•	
19/11/4	70	F0.3		10.2	10.3		10.4 -0.4	4.0		10.5 -0.4	4.0		7	6.	0.0 52.35	52.35

NO VELOCITY CORRECTIONS APPLIED TO SKIFF SOURDINGS

									Pel
		PAGE	65.45°6	なるがは	24.42	200	•	3678	1886
		VOLUME	HHHH	<i>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</i>	₩ N NA	400	c	No 94)
		CORRECTION	0.00	00 00	4990 1111				တ္တာတာ တ တင်းငှင် (၂၂၂၂
SOSBEE		LEADLINE (34.0 04.6		10 H 80 80 10 4 6 4	8000			22.22 5.05.05 5.05.05
SHIP	(09	GAIN	~~~		- ~ ~ ~ ~ ~		I	~~~	~~~
BAR CHECKS	(80-20-1-60	PATHOMETER NUMBER	25-52 25-52 25-52 25-52	12. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	7. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	25-52 25-35	į	\C 1 !	57-33 57-33 57-33 58-53
ABSTRACT OF	H-8571	INITIAL		, e, a,					0000 0000
ABST		30	1.0						0 0 0 0
		FEET 25	800		•	000 000 000		1 1 1	0000
		E IN	666	00000		4 6 0		600	0 - 0 - 4 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -
		DEPTH 15	•	00000	င်ပုံဝုဝု	000	်ဥ္ပိုင္ရန္ ရွင္တရိုင္ရန္	000	00000
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		LETTER	ďα	耳のより	m M Al	K 34 A	od ≒	D >	* * * * * * * * * * * * * * * * * * *
		DATE	09/21/3	1/23/60 1/29/60 1/60/23/60	2/60 2/60 3/ 2/60 3/ 8/60			3/22/60	2/4/60 2/4/60 2/4/60 2/4/60 2/4/60

DATE	DAY	01	DEPTH 15	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	H IN PRET 20 25 30	8	IHITLAL	INITIAL FATHOMETER GAIN LEADLINE CORRECTION VOLUME PAGE NUMBER	GAIN	LEADLINE	Correction	VOLUME	PAGE
09/2/4	a 5	0.0	000	4 4	9.0	8.0-	० °	57-35	~	30.6	9.0-	57	14
4/ 9/60 4/17/4	8 8	0.0	500	4 ED	9.0			57-35	~~	28.0	4.0-	N-⊅ H H	888
4/12/60 2/14/61	7.4 0.4	0.0	TOO BOUGH 0.0 0.0 -0.4	4°0.			0.4	150	c c			15	₩.
TOTAL		-0.2	-3.6 -	4.6	-8.2	-5.0							
MEAN		0.0	0.0 -0.1 -0.4 -0.5 -0.8	4.0	-0.5	9.0-							

	VELO	STRY .C	FION CURVE		
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	R-55	1	20-1-60)		:
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18	· · · · · · · · · · · · · · · · · · ·	- VELO	11:		
	!	Dep 0-13. 13.4-18. 18.6-23.	2 h	rrection 0.0 -0.2 -0.4	
		18.6-23. 23.6-28. 28.8-33.	4	-0.4 -0.6 -0.8	
	4				.0
10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ARI OCIAN GOI	HECTION (-) in Ped	7	
		· •			

List of Stations on H-8571 (50-20-1-60)

Name used in Hydrographic		
Survey	Number	Origin of Station
ABE	1806	T-11418
ASK >	17112	7-11417
BOA)	1808	7-11418
B 00 \(\)		BOOB 2 RM 3, 1960
BOX X	17116	T-11417
CAR ^A	17115	7-11417
CODX	1809	7-11418
DAY	1810	T-11418
DIX 👌	17114	7-11417
EGG-	17113	T-11417
EVA	1811	7-11418
PAR >	1812	T-11418
FOR >		Markey Dankey or by a second
Gas -\	17117	Channel Daybeacon 4, 1958
$ ext{RIS} imes$	17118	7-11417
ice *	14100	7-11414
JAP *	14101	T-11414
KID *	14102	T11414
nac 👌		
NO.A.	17105	SNACK, 1960-62 ×
OUT.	17106	7-11417
PEG	1708	7-11417
RAG >	17107	7-11417
SAN >		7-11417
80P.\	17108	Sanibel Island Light 1935
TAN-\	2/200	T-11417
		Ft. Myers Beach Mun.
TOY	17109	Water Tank, 1955
VET '	17110	T-11417
10.5	17111	T-1141?
AIG >	TLITT	7-11417
		WIGGINS RM 5, 1960

* Triangulation position not available at this time.

5/3/65

APPROVAL SHEET

This survey is complete and adequate and no further field work is recommended.

The Chief of Party in 1960 - 61 was in charge or working with the hydrographic unit for approximately 95% of the work and inspected the boat sheet and records daily during the work.

The boat sheet and processed records are approved.

Approved by,

Floyd J. Tucker, Jr. Chief of Party, Cads

Recommended Limits of SMOOTH SHEET

H-8571

(80-20-1-60)

Sheet Sixe - 36" X 54"

EDGE	La	ititudi	or Lo	ng1t	lde	Distance of Signals or Soundings from Edge
Top	••	26 º	28.231	N.	-	2-3/4*
Bottom	-	26 °	18.341	N.	•	3*
Right	•	81.	50.161	W.	_	3 ⁴
Left	ca	820	06.641	W.	•	3#

UNITED STATES GOVERNMENT

Memorandum

TO

The Director

Coast & Geodetic Survey

THRU:

Chief, Operations Division

FROM \:

Commanding Officer

USCEG: Ships WAINWRIGHT & HILGARD E General Delivery, Freeport, Texas

SUBJECT:

WIRE DRAG OPERATIONS, SAN CARLOS BAY, OPR-450

The 11-foot sounding charted at 26°22.9'N, 81°57.2'W is a non existent feature and should be deleted from the chart.

- This sounding, appearing in depths of 22-24 feet, and an area of O.3 nautical miles radius about it was cleared by wire drag on April 3. Two strips of 184 and 19' effective depths (predicted tides) were used to clear this area from opposing directions. Standard wire drag methods utilizing visual control were employed.
- Local authorities had no knowledge of any wrecks or obstructions. reported in the cited area.

Edwin K. McCaffrey

CC: Tampa D. O.

EKM/jrb

Ch+ 856 B H 8571

U.S. DEPARTMENT OF COMMERCE

DATE: April 13, 1904

NORFOLK PROCESSING OFFICE ADDENDUM To Accompany

HYDROGRAPHIC SURVEY H-8571 (So-10-1-60)

GENERAL

This appears to be an excellent basic survey, except for a comparatively small but undetermined amount of displacement caused by the apparent unreliability of the Micro-Wave Position Fixing System as explained in the accompanying report by CDR Munson. Because of questionable returns, on approximately 15% of the positions on this sheet, one or both Micro-wave returns had to be rejected and the positions plotted on course and time. The bottom in the area of this survey is either smooth, or contains minor irregularaties or undulations so that displacement is not apparent in the placement of curves or the agreement of soundings at crossings.

It will be noted that the position of station SNACK, 1960 differs on the boat and smooth sheets. The preliminary field location was incorrect and this necessitated a complete replot of the smooth sheet as the error was not noted until the shoreline was transferred.

POSITIONS

In order to facilitate the smooth plotting the circle sheet method was used to plot all positions distant from the control stations. Since two sets of circles were needed, they were drafted on transparent overlays to avoid undue congestion on the smooth sheet. These overlays are being submitted with the survey, how-ever, any of the positions may be plotted, or checked with an extended arm protractor as all control stations fall within the limits of the sheet. overlays marked for destruction

SOUNDINGS

Soundings are in good agreement at crossings and curves were smoothed by a rather extensive use of ½ foot soundings.

A fathometer trace, having some of the characteristics usually associated with an obstruction, was noted between 164 and 165L day, Vol. 5. It was scanned in the record but was not plotted on the smooth sheet. and was

Obstr. removed from smooth sheet. Disproved by Wainwright - Hilgard Wire-Drag April 13, 1964. (See Chart Letter #491/64.)
(and next page)

Norfolk, Va. 24 Sept. 1962

Respectfully submitted,

Hugh L. Proffitt Cartographer

FORM 157 (3-16-55)

Or Wo. Rough Wing in Vines 2 O. Guide of Mass GEOGRAPHIC NAMES J.S. Light List Orloca mors Survey No. H-8571 Name on Survey Ε G BIG CARLOS PASS ESTERO ISLAND 2 LITTLE CARLOS PASS 3 POINT VOEL SAN CARLOS BAY SANIBEZ ISLAND 5 6 7 8 9 10 11 TIDE STATION 12 PUNTA RASSA 13 14 15 16 17 18 19 20 21 22 24 25 26 27

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. .8571...

Records accompanying survey:	Smooth	sheets	.1;
boat sheets	wire dra	ag vols.	;
special reports, etc. 1. Cahier-Station 10 2-Overlays (Arcs of Apposition fixing system. Blackline print T		and Maa	
The following statistics will be submitted wrapher's report on the sheet:	ith the	cartog-	
Number of positions on sheet		3995	
Number of positions checked		293	
Number of positions revised			
Number of soundings revised (refers to depth only)		•••	
Number of soundings erroneously spaced		•••••	
Number of signals erroneously plotted or transferred		•••••	
Topographic details	Time	****	
Junctions	Time	****	
Verification of soundings from graphic record	Time		
Special adjustments	Time		
Verification by Allhambus Total time			
Reviewed by Sele E. Wettersk. Time	41.5	Date .	/12/64

INFORMATION FOR FUTURE PRE-SURVEY REVIEWS

The area of this survey appears, in general, to be quite stable. In addition, the survey contains no important detached shoals or undeveloped shoal indications.

The shoal which extends southeastward from Point Ybel on Sanibel Island does not seem to be building or eroding at the present time.

Sanibel Island has been slowly building seaward and that trend may continue.

Although the field party had difficulty in obtaining consistently good fixes along sounding lines using the Microwave Position Fixing System, it is not believed that the overall accuracy of the hydrography was affected appreciably.

D. E. Westbrook

OFFICE OF CARTOGRAPHY

REVIEW SECTION -- NAUTICAL CHART DIVISION

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8571	FIELD NO. SO 20-1-60
Florida, West Coast, South of San	Carlos Bay
SURVEYED: February 1960-April 1961	SCALE: 1:20,000
PROJECT NO. O	PR-353
SOUNDINGS: 808 Depth Recorder Sounding Pole	CONTROL: Microwave Position Fixing System and Sextant Fixes on Shore Objects
Chief of Party	
Surveyed by	F. J. Tucker, JrR. C. Munson F. J. Tucker, Jr. E. L. Talbot R. M. Davidson D. F. S. Galloway

Protracted by-----F. Bean

E. D. Schwantes

Soundings Plotted by-----F. Bean

Verified and Inked by------J. L. Chambers Reviewed by----------D. E. Westbrook Inspected by-------R. H. Carstens

Date: June 12, 1964

1. Description of the Area

This survey is located immediately south of the entrance to San Carlos Bay, in the Gulf of Mexico, on the west coast of Florida.

The bottom is gently sloping and is composed of fine sand and broken shells.

The most important bottom feature shown on this survey is the southeasterly tip of the shoal which extends southwestward from Point Ybel on Sanibel Island. Nine foot depths exist on this shoal about 3 miles offshore. The main channel into San Carlos Bay lies to the eastward of this shoal.

A portion of the shoal which extends westward from the south end of Estero Island is also shown on the present survey.

2. Control and Shoreline

The origin of the control is adequately described in the Descriptive Report. Some problems were encountered in the field using the Microwave Position Fixing System (MPFS). These problems were manifested by the difficulty in obtaining individual fixes but it is not believed that the overall accuracy of the hydrography was substantially impaired. MPFS fixes were plotted on mylar circle sheet overlays. These overlays are marked for destruction, since all fixes can be plotted, or checked, using an extended 3-arm protractor.

The shoreline originates with Advance Photogrammetric Manuscripts T-11414 (1953-58), T-11415 (1953-61), T-11417 (1953-61), and T-11418 (1953-61).

3. Hydrography

- A. Depths at crossings are in good agreement.
- B. The usual depth curves were adequately delineated. The 3-foot depth curve was added to more adequately define the bottom configuration. Two soundings were emphasized by the addition of brown curves in accordance with Par. 6-64 of the Hydrographic Manual.

The zero depth curve could not be completely defined due to the small range of tide and the exposed nature of the coastline.

C. The development of the bottom configuration and the investigation of least depths is considered adequate.

4. Condition of the Survey

The field plotting, sounding records, and the Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual except that different colored inks should have been used to differentiate between the ship and skiff position numbers and day letters. The color blue was used throughout this survey for both vessels.

5. Junctions

An adequate junction was effected with H-8363 (1956, 60-61) on the west. The junction with H-8328 (1956) on the south will be discussed in the review of that survey.

Contemporary inshore hydrography to the north, east, and southeast has not been accomplished at this writing.

6. Comparison with Prior Surveys

H-917 (1:20,000) 1866-67 H-1478a (1:40,000) 1879-80 H-1479a (1:20,000) 1879-80 H-1592 (1:40,000) 1884 H-4844 (1:10,000) 1928

Taken together, these surveys comprise the prior coverage of the present survey area. In general, there is excellent agreement between the present and prior surveys, indicating the comparative stability of the bottom in this area.

Three important changes can be found, however.

The shoal shown on H-917 (1866-67) which extends southeastward from Point Ybel, has built out about 0.2 mile in a southeast direction. Since the survey H-4844 in 1928, the shoal has not changed appreciably.

The shoreline of Sanibel Island, in the vicinity of Lat. 26°26', Long. 82°03', has built seaward about 0.1 mile since the survey H-1479a (1879-80).

The end of the shoal which extends southwest from the south end of Estero Island seems to have eroded substantially. Depths of 5 feet on H-4844 (1928), in Lat. 26°23.85', Long. 81°54.60', are now 8 feet on the present survey.

The present survey is adequate to supersede the prior surveys within the common area.

7. Comparison with Chart 1255, 8th Ed. Rev. 8/12/63

A. Hydrography

The charted hydrography originates with the previously discussed prior surveys which require no further consideration, supplemented by a few soundings from the present survey before verification and review.

The present survey is adequate to supersede the charted hydrography within the common area.

B. Aids to Navigation

Aids shown on the present survey are in substantial agreement with those charted and adequately mark the features intended, except that a number of aid changes have taken place subsequent to the date of the present survey. (See Notice to Mariners No. 48 of 1962.)

8. Compliance with Instructions

The survey adequately complies with the Project Instructions.

9. Additional Field Work

Division

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

Examined and Approved:

Associate Director, Office of Hydrography and Oceanography

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

TIDE NOTE FOR HYDROGRAPHIC SHEET

November 9, 1962

Nautical Chart Division: R. H. Carstens

Plane of reference approved in 16 volumes of sounding records for

HYDROGRAPHIC SHEET 8571

Locality West coast of Florida

Chief of Party: Floyd J. Tucker Jr. (1960-61)

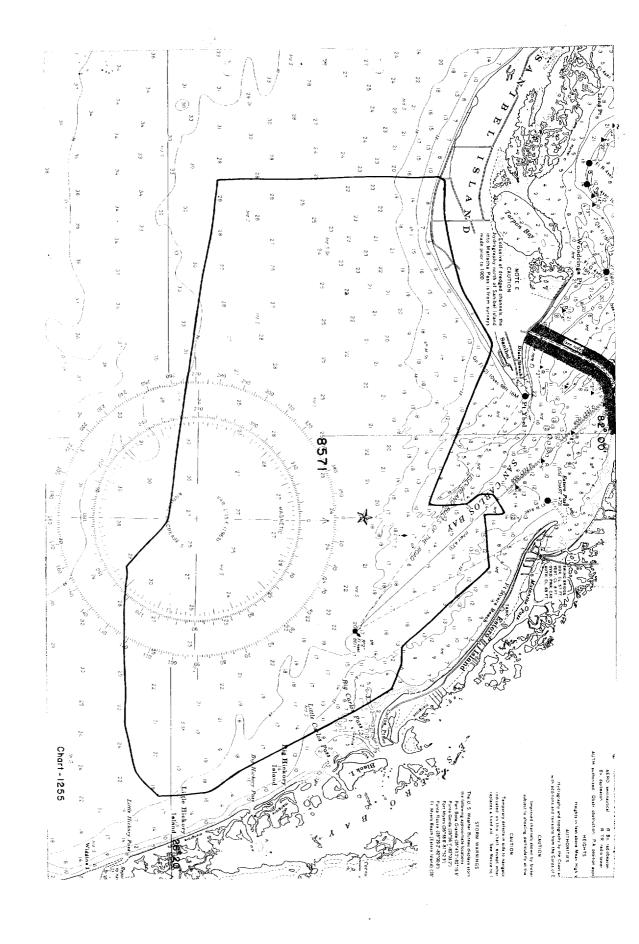
Plane of reference is Mean low water reading

1.9 ft. on tide staff at Punta Rassa, Florida 2.1 " " " " after Sept. 10, 1960 5.6 ft. below B. M. 5 (1927)

Height of mean high water above plane of reference is 1.7 feet.

Condition of records satisfactory except as noted below:

M. Symons Chief, Tides and Currents Branch



NAUTICAL CHARTS BRANCH

SURVEY NO. <u>H-8571</u>

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
1/10/63	1113	H. Quinly	Before Verification and Review
ļ		1	
1/15/63	1003	H. Quinly	Before Verification and Review Examined,
2/2/2		o	no conection.
4/2//63	1007	R. Stoma	Before After Verification and Review Examinal
5/29/12	12 ~~~	1101.	no correction
3/1/03	1233	John P. Wein	Before After Verification and Review fast. aggelis
8/2//2	1447	CRTI	critical corrections only
0/3/63	1002	G.R. Johnson	Before After Verification and Review Part. Appel.
6/23/65	836-5C	Hardd V. Howard	No. Correction.
7-7-		read y. Treward	Sefere After Verification and Review Fully Applied
3-8-66	1007	m. Rogen	Fully apple Refer Verification and Review - hydro unreved
-			from the chart in the area of this survey.
5-29-67	1255	H. Rodden	Arter Verification and Review Lully apple
2 17 17			in part thru dot. 856 and part directly from
8-12-67	1002	D. J. Romesburg	Filly Aprild After Verification and Review -hydro removed
		•	From the chart in the area common with this sure
			Before After Verification and Review
		,	
			· · · · · · · · · · · · · · · · · · ·

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.