

8472

Diag. Cht. No. 1002.

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. SO-1359 Office No. H-8472

LOCALITY

State Florida

General locality West Coast

Locality Myakka River

1959

CHIEF OF PARTY

R. C. Munson

LIBRARY & ARCHIVES

DATE September 27, 1960

COMM-DC 61300

8472

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. H-8472

Field No. SO-1359

State Florida

General locality West Coast

Locality Myakka River

Scale 1:10,000 Date of survey May-June, 1959

Instructions dated 18 December 1952, Supplemental Instructions dated 2 March 1956, Revised Instructions dated 8 September 1958.

Vessel USC&GS Ship SOSBEE

Chief of party Robert C. Munson

Surveyed by Gordon N. Orr

Soundings taken by ~~XXXXXX~~, graphic recorder, ~~XXXXXX~~ and sounding pole.

Fathograms scaled by Personnel Ship SOSBEE

Fathograms checked by Personnel Ship SOSBEE

Protracted by A.G. Atwill (Norfolk Processing Office)

Soundings penciled by A.G. Atwill " " "

Soundings in ~~XXXXXX~~ feet at MLW ~~XXXXXX~~ *and are true depths.*

REMARKS: All corrections have been entered and checked by the personnel of the Ship SOSBEE.

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SURVEY H-8472

(Field No. SO-1359)

West Coast of Florida

20 April to 23 June 1959

Myakka River

Scale 1:10,000

USC&GSS SOSBEE

Robert C. Munson, Ch. of  
party

A. PROJECT

This sheet is part of Project CS-353 (originally 13530) with original instructions dated 18 December 1952, Supplemental Instructions dated 2 March 1956 and 27 January 1956, and Revised Instructions dated 8 September 1958. Also applicable is Acting Director's letter (22MEK S-2-S) dated 25 April 1955 which amends instructions on tides.

B. SURVEY LIMITS AND DATES

This survey covers the Myakka River with the southern limit of the survey being Lat.  $26^{\circ} 58.28'$  and the northern limit being Lat.  $27^{\circ} 02.8'$ . The western limit of the survey is the western shore of the Myakka River and the eastern limit of the survey extends to the eastern shore of the Myakka River. Also included in this survey is <sup>a portion of</sup> Tinian<sup>38</sup> Bay with southern limits of Lat.  $26^{\circ} 58.4'$  and northern limits of Lat.  $26^{\circ} 59.31'$ . The western limit of this area is located on Long.  $82^{\circ} 11.45'$  and the eastern limit extends to Long.  $82^{\circ} 11.1'$ . The hydrographic sheet limits are given in the Index of hydrographic sheets in attachment No. 11 of this report.

Junction was made with contemporary survey H-8357 <sup>(1956-57)</sup> ~~(SO-1656)~~ on the southern most part of this sheet.

Work commenced on 20 April 1959 and ended on 23 June 1959. Progress of the work was most satisfactory.

C. VESSELS AND EQUIPMENT

Soundings were obtained from a 25 foot wooden-hull, flat-bottom skiff, CS-735. Skiff CS-735 is powered by two ten horse-power outboard motors, has a maximum speed of about 6 knots, and a turning radius of about 25 meters. The skiff was powered by only one motor for the majority of the work. The skiff operated from the Ship SOSBEE and from a dock at the Punta Gorda Fish Company in El Jobean, Fla. Where possible, soundings were taken with an 808J type portable echo sounding recorder No. 140-SP. In shoal depths, about 3 feet or less, soundings were obtained by a pole graduated in feet. The method of sounding is indicated in the sounding volumes.

D. TIDE AND CURRENT STATIONS

Portable tide gages were established at El Jobean, Fla.\* <sup>off limits of survey.</sup> Lat. 26° 58.7', Long. 82° 12.75' and at Plamore, Fla., Lat. 27° 02.<sup>68'</sup>7', Long. 82° 17.<sup>61</sup>65'. The tide gage at El Jobean, Fla. controlled the tides from the southern limits of the sheet to Long. 82°15.5'. The tide gage at Plamore, Fla. controlled the tides from Long. 82° 15.5' to the northern limits of the sheet. These tide zones are sketched on the boat's sheet. There were no current observations.

E. SMOOTH SHEET

The smooth sheet will be plotted by the NORFOLK PROCESSING OFFICE.

F. CONTROL STATIONS

There were no triangulation stations used on this sheet\*. All of the control for hydrography was located by photogrammetric means on sheets T-11387, T-10528, and T-10529. There were no signals

\* Triang. Sta. TT 34 JM, USGS, 1952 was added as ref sta during verification.

located by hydrographic means. Signals were of sufficient accuracy for control.

A list of signals with their origin is appended in attachment No. 3.

#### G. SHORELINE AND TOPOGRAPHY

Shoreline and topography were from shoreline manuscripts T-11387, T-10528, and T-10529.

\* Construction was in progress in the vicinity of Lat.  $27^{\circ}02.25'$  and Long.  $82^{\circ}14.75'$  and no soundings were made in this area. \*\* The entire creek in this same area has been subjected to changes caused by dredging. *\* No information is presented on the present survey. \*\* Noted as under construction.*

The topography of the area was checked by the hydrographic party and was found to agree with the photogrammetry.

The low water line was defined by the hydrographic party where it was possible.

#### H. SOUNDINGS

Soundings were obtained with an 808J type portable echo sounding recorder No. 140-SP where it was possible. In water less than three feet in depth a sounding pole graduated in feet was used to obtain soundings. No unusual corrections were applied to the echo soundings.

#### I. CONTROL OF HYDROGRAPHY

Hydrography was controlled by three point sextant fixes where possible and by estimating the positions distance from a signal. In cases where a three point fix could not be used, the positions were controlled from shore-line detail, by estimating the location from natural objects such as mouths of small canals, islands, etc, and by positions of signals. *Adequate.*

I. CONTROL OF HYDROGRAPHY (continued)

Since the Myakka River is less than 200 meters average width up-river and the water is mostly shallow, the establishment of the required control for three point sextant fixes would have been uneconomical. The lack of fixed positions was compensated for by additional positions referenced by natural features and complete notes in the sounding volumes. The smooth plotter will nevertheless have to rely on the boat sheet to an unusual degree for the positioning of the soundings on this sheet.

J. ADEQUACY OF SURVEY

The survey is complete and is adequate for charting. The survey complies with the requirements of the Hydrographic Manual and the project instructions.

The junction with the adjoining contemporary survey is *see Review item 5.* satisfactory and no holidays or excessive differences exist. The depth curves can be adequately drawn at the junctions. There are no non-standard depth curves on the sheet. *see item 3 of Review*

K. CROSSLINES

Crosslines constitute approximately 10% of the total hydrography and crossings are in good agreement.

L. COMPARISON WITH PRIOR SURVEYS

There are no prior surveys.

M. COMPARISON WITH CHART

There is no chart. *see Review item 7.*

N. DANGERS AND SHOALS

There are many areas of shoaling in this river. Sand bars and spits are at the upper and lower ends of islands and inside banks of the curves in the river. Creeks and small inlets adjacent to the river are quite shallow and at times of low water unnavigatable in a boat with a one foot draft. Other dangers to small boats include snags, logs, and floating brush in the river. Frequent storms cause much floating drift wood which is also a hazard to small boats.

O. COAST PILOT INFORMATION

There are docking facilities and a boat ramp at Plamore, Fla. at the northern limit of the sheet.

P. AIDS TO NAVIGATION

There are no fixed or floating aids to navigation. There are three bridges located at the northern most limits of this sheet. Overhead clearance is estimated to be 15 feet and horizontal clearance 50 feet on each of these highway bridges. These bridges are all fixed bridges.

Q. LANDMARKS FOR CHARTS

There are no landmarks for charts.

R. GEOGRAPHIC NAMES

Geographic name report will be submitted on an area basis under separate cover.

S. SILTED AREAS

There were no silted areas.

T. BY PRODUCT INFORMATION

None.

U. MISCELLANEOUS

Due to the increase in small boating in this area it is recommended that the 3' curve be shown on the chart. *Applied during Verifications.*

Submitted by;

*Gordon N. Orr*

Gordon N. Orr  
Ensign, USC&GS

Approved by:

*Robert C. Munson*

Robert C. Munson  
Chief of Party




TABULATION OF APPLICABLE DATA

1. Boat sheet\*
2. Black line tracings of topographic detail\*
3. List of control stations.
4. Statistics
5. Tide note
6. Descriptions of hydrographic stations\*
7. Recovery notes of topo and hydro stations\*\*
8. Tide records\*
9. Fathograms\*
10. Velocity correction abstract. (Bar check)
11. Project CS-353 Sheet Index.
12. Approval sheet.

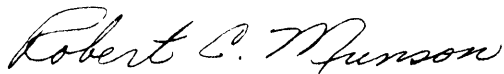
\* Submitted under separate cover.

\*\* Submitted by the Tampa District Office.

Submitted by:

  
Gordon N. Orr  
ENS USC&GS

Approved by:



Robert C. Munson  
LT. USC&GS  
Cmdg. Ship SOSBEE

NORFOLK PROCESSING OFFICE  
LIST OF SIGNALS  
H-8472

~~TRIANGULATION STATIONS~~ Topographic sta.

USE M F(USE, 1938), 1956\* Topographic station  
524 exists, but not available.

MARKED TOPOGRAPHIC STATIONS

FISH, 1954 PIC, 1943-56 MEX, 1943-45 MIKE, 1959

TOPOGRAPHIC STATIONS

SOURCE T-10528

Axe	Bon	Box	Bum	Duo	Ear	Eat	*Eel	Fun	Gad
Gag	Gil	Hut	Ice	Ida	Ion	Its	Lop	Low	Lug
Lux	Mop	Nux	Oak	*Obi	Odd	Rag	Ram	Rat	Rey
Rig	Sue	Tan	Tax	Thy	Tom	Yak	Yes	Yet	*Zag

\*Transferred from blackline print\* of T-10528  
\*Destroyed after review.

SOURCE T-10529

Bus Ebb Gal Mag

SOURCE T-11387

Ben	Bob	But	Egg	Gam	Gas	Hen	Ink	Ivy	Lew
Mal	Off	Ohm	Orr	Rim	Rio	Toy	Try	Zig	Zoo

## LIST OF SIGNALS

H-8472 (SO-1359)

## Myakka River

<u>Name</u>	<u>Source</u>	<u>Name</u>	<u>Source</u>	<u>Name</u>	<u>Source</u>
RAG	28-01	FISH	Topo m		
LOP	28-02	PIC	Topo m		
NUX	28-03	MEX	Topo m		
SUE	28-04	BUT	8727		
YAK	28-05	HEN	8728		
ICE	28-06	ORR	8729		
HUT	28-07	BOB	8730		
FUN	28-08	LEW	8731		
DUO	28-09	BEN	8732		
MOP	28-10	ZOO	8705B		
AXE	28-11	TRY	8765		
BON	28-12	RIO	8766		
BOX	28-13	OHM	8767		
GIL	28-14	MAL	8768		
IDA	28-15	IVY	8769		
YES	28-16	USE	8770		
RAT	28-17	GAS	8771		
OAK	28-18	EGG	8772		
LUG	28-19	GAM	8774		
EAT	28-20	INK	8775		
BUM	28-21	OFF	8776		
LUX	28-22	RIM	8777A		
RIG	28-23	TOY	8778		
EAT	28-24	ZIG	8779		
GAD	28-25				
REY	28-26				
TAX	28-27				
YET	28-28				
ION	28-29				
OBI	28-30				
ITS	28-31				
GAG	28-32				
LOW	28-33				
RAM	28-34				
TAN	28-35				
EEL	28-36				
ZAG	28-37				
TOM	28-38				
ODD	28-39				
THY	28-40				
GAL	29-01				
EBB	29-02				
BUS	29-03				
MAG	29-04				
MIKE	Topo				

See N.P.O.  
Signal list.

## \*NOTE:

1. Signal BUT (SO-1359) formerly Signal KIT (SO\*1656)
2. Signal ZOO (SO-1359) formerly Signal LAP (SO-1656).

STATISTICS FOR HYDROGRAPHIC SURVEY H-8472 (1959), Ship SOSBEE  
CS-353

Volume No.	Day	Date	Pole Sdg.	No. Positions	Stat. Miles
1	a	5/5/59	74	126	17.08
1	b	6/5/59	66	119	17.63
1-2	c	7/5/59	543	119	17.08
2	d	8/5/59	525	98	12.65
2-3	e	12/5/59	627	141	18.63
3	f	13/5/59	114	165	16.08
3	g	14/5/59	24	66	12.88
3	h	23/6/59	CP	33	3.10
TOTAL			1,973	867	115.13

TOTAL AREA (Stat. Miles Sq.) = 3.90

TIDE NOTE

H-8472 (SO-1359)

Myakka River

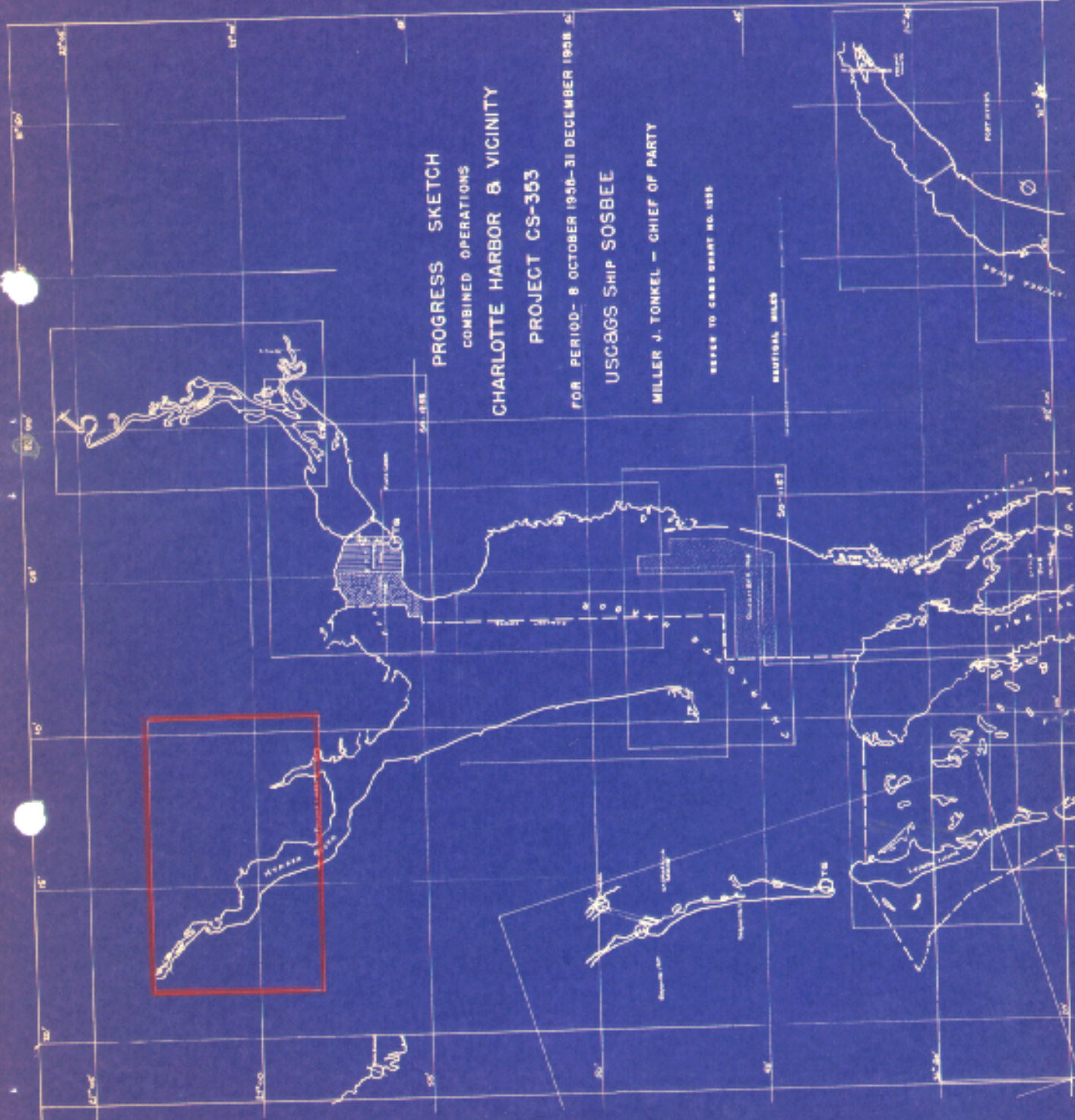
Soundings were reduced to MLW on the portable tide gage at the following stations:

El Jobean, Fla.*	Lat. 26°58.7'	Long. 82°12.75'	MLW= 1.3Ft.
Plamore, Fla.	Lat. 27°02. <sup>68</sup> / <sub>7</sub> '	Long. 82°17. <sup>61</sup> / <sub>65</sub> '	MLW= 1.6Ft.

The tide gage at El Jobean, Fla. controlled the tides from the southern limits of the sheet to Long. 82° 15.5'W and the tide gage at Plamore, Fla. controlled the tides from this point to the northern limits of the sheet.

\* off limit of survey.

<u>Date Letter</u>	<u>Depth</u>						Int.	Fath.	Vol.	Pg
	3.0	5.0	6.0	8.0	10.0	12.0				
	Correction in feet									
5/5/59	0.0	0.0	0.0				0.4	140SP	1	6
5/5/59	0.0	0.0	0.0				0.4	140SP	1	32
5/6/59	0.0	0.0					0.4	140SP	1	34
5/7/59	0.0	0.0	0.0				0.4	140SP	1	62
5/7/59	0.0	0.0	0.0				0.4	140SP	2	21
5/8/59	0.0	0.0	0.0				0.4	140SP	2	47
5/12/59	0.0	0.0	0.0	0.0			0.4	140SP	2	49
5/13/59	0.0	0.0	0.0				0.4	140SP	3	13
5/13/59	0.0	0.0	0.0				0.4	140SP	3	44
5/14/59	0.0	0.0	0.0				0.4	140SP	3	46
6/23/59	0.0	0.0	0.0	0.0	0.0		0.4	140SP	3	65



PROGRESS SKETCH  
COMBINED OPERATIONS  
CHARLOTTE HARBOR & VICINITY  
PROJECT CS-353

FOR PERIOD - 8 OCTOBER 1956 - 31 DECEMBER 1956  
USCGS SHIP SOSBEE  
MILLER J. TONKEL - CHIEF OF PARTY

REFER TO CROSS CHART NO. 1333

NAUTICAL MILES



APPROVAL SHEET

H-8472 (SO-1359)

The area covered by this survey is adequate for charting. Records and reports are complete and comprehensive. The boat sheet was inspected daily by the Chief of Party. There are no apparent holidays in the area covered by this sheet.

All records and reports have been submitted to the Norfolk District Office for smooth plotting.

*Robert C. Munson*

Robert C. Munson  
LT. USC&GS  
Cmdg. Ship SOSBEE



NORFOLK PROCESSING OFFICE  
ADDENDUM  
To Accompany

HYDROGRAPHIC SURVEY H-8472 (So-1359)

GENERAL

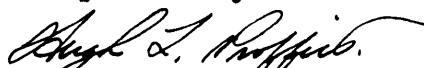
This appears to be an excellent basic survey and no unusual condition were experienced during the smooth plot.\*\*How-ever, air-photographs will undoubtedly prove helpful to obtain a better delineation of channel limits in the more constricted areas of the river, where it was impossible for the hydrographer to maintain constant speed and course. For instance, note the apparent displacement of the 2 foot sounding falling in the channel at Lat. 27-00.25' and Long. 82-15.52'.\*

\* The 2-ft sdg was revised in position via respacing during verification.

\*\* The verifier made reference to air-photos.

Norfolk, Va.  
21 Sept. 1960

Respectfully submitted,



Hugh L. Proffitt  
Cartographer

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ...8472...

Records accompanying survey: Smooth sheets ...1...;  
 boat sheets .1...; sounding vols. 3....; wire drag vols. ....;  
 Descriptive Reports .1...; graphic recorder envelopes .4...;  
 special reports, etc. 2-Blackline impressions T-10528 and  
 T-10529.....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	.....	867
Number of positions checked	.....	10
Number of positions revised	.....	0
Number of soundings revised (refers to depth only)	.....	14
Number of soundings erroneously spaced	.....	0
Number of signals erroneously plotted or transferred	.....	0
Topographic details	Time	1 hr
Junctions	Time	1 hr
Verification of soundings from graphic record	Time	4 hr
Special adjustments	Time	0

Verification by *George F. Merrill* Total time 88 hr. Date Sep. 22, 1961

Reviewed by *E. E. Thomas* Time 16 hr. Date 10-13-61

RHC

### TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Coastal Surveys~~

27 October 1960

Division of Charts: R.H. Carstens

Plane of reference approved in  
3 volumes of sounding records for

HYDROGRAPHIC SHEET 8472

Locality Myakka River, Florida

Chief of Party: R.C. Munson (1959)  
Plane of reference is mean low water, reading  
1.3 ft. on tide staff at El Jobean, Fla.  
3.8 ft. below B. M. 1 (1959)

1.6 ft on tide staff at Plamore, Fla.  
4.6 ft. below B.M. 1 (1959)

Height of mean high water above plane of reference is 1.2 ft. at El Jobean  
" " " " " " " " " " 1.3 ft. at Plamore

Condition of records satisfactory except as noted below:

Burt W. Wilcox

Chief, Tides and Currents Branch

~~Chief, Division of Tides and Currents~~



ATLANTIC COAST

# STRAITS OF FLORIDA AND APPROACHES

Mercator Projection  
Scale 1:1,210,765 at Lat. 24°00'

SOUNDINGS IN FATHOMS Recent  
AT MEAN LOW WATER **aerona**  
shown

(For offshore navigation only)

For Symbols and Abbreviations

HEI

Heights in feet above

AUTH

Compiled principally from larger scale charts  
Survey; supplemented by information from  
Navy, and British Admiralty.

GULF STREAM

From investigation by the Coast Guard  
1886 and 1887.

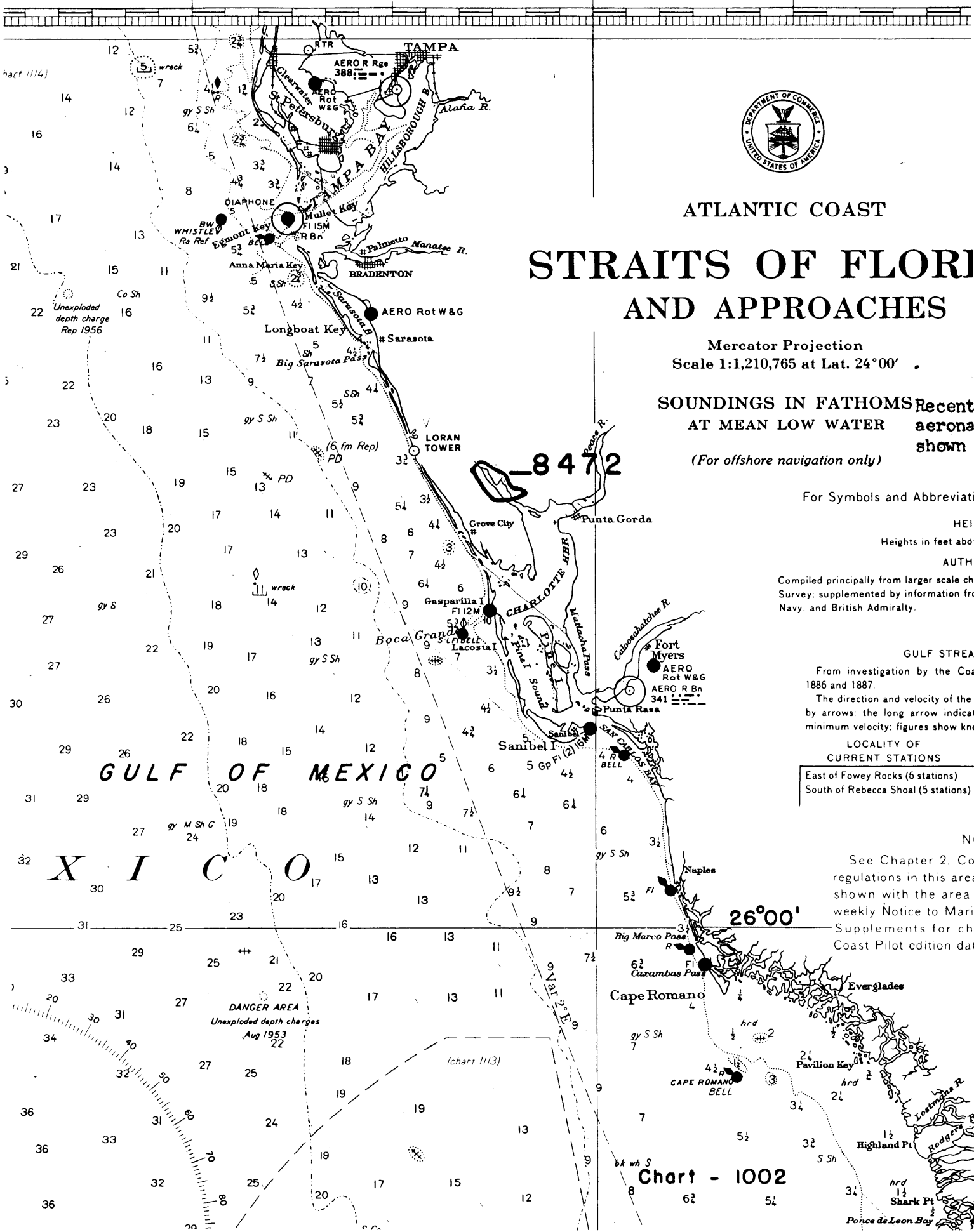
The direction and velocity of the Gulf Stream  
by arrows: the long arrow indicates  
minimum velocity; figures show knots

LOCALITY OF  
CURRENT STATIONS

East of Fowey Rocks (6 stations)  
South of Rebecca Shoal (5 stations)

N

See Chapter 2. Coast Pilot regulations in this area  
shown with the area weekly Notice to Mariners  
Supplements for the Coast Pilot edition dated



12  
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GULF OF MEXICO

X I C O

DANGER AREA  
Unexploded depth charges  
Aug 1953  
22

(chart 1113)

Chart - 1002

26°00'

-8472

OFFICE OF CARTOGRAPHY

REVIEW SECTION -- NAUTICAL CHART DIVISION

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8472

FIELD NO. SO-1359

Florida, West Coast, Myakka River

SURVEYED: May 1959 - June 1959

SCALE: 1:10,000

PROJECT NO. CS-353

SOUNDINGS: 808 Depth Recorder  
Sounding Pole

CONTROL: Sextant fixes  
on shore objects.  
Estimated distances to  
shore features.

Chief of Party-----R. C. Munson  
Surveyed by-----G. N. Orr  
Protracted by-----A. G. Atwill  
Soundings plotted by-----A. G. Atwill  
Verified and inked by-----G. Merrill  
Reviewed by-----E. E. Thomas  
Inspected by-----R. H. Carstens

DATE: 10-13-61

1. Description of the Area

This survey develops the portion of the Myakka River and its tributaries from lat.  $26^{\circ}58.28'$  to lat.  $27^{\circ}02.7'$ .

The bottom is generally smooth except where broken by the natural channels and deeps. No unusual bottom features are noted. The channel and shoal areas are generally well-delineated and apparent on the smooth sheet. Depths along the axis of the natural channel of the Myakka River range from 2 to 20 ft.

2. Control and Shoreline

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

The shoreline originates with advance prints of photogrammetric surveys T-11387 of 1953-58, T-10528 and T-10529 of 1956-59.

3. Hydrography

- a. Depths at crossings are in good agreement.
- b. The standard depth curves are adequately delineated. The low-water curve was determined where practicable. The 3-ft. curve was added to further delineate the bottom configuration.
- c. The development of the bottom configuration and investigation of least depths is considered adequate.

4. Condition of Survey

The field plotting, sounding records, and Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual.

5. Junctions.

An adequate junction was effected with H-8357 (1956-57) to the south. The limit of the present survey on the north is the project limit.

6. Comparison with Prior Surveys

There are no prior surveys of the area by this Bureau.

7. Comparison with Chart 1255 (Latest print date 8-14-61)

A. Hydrography

The charted hydrography originates with the present survey prior to verification and review. There are no significant differences noted between the charted information in the area common with the completed survey.

B. Aids to Navigation

No aids to navigation are charted within the limits of the present survey.

8. Compliance with Instructions


The survey adequately complies with the project instructions.

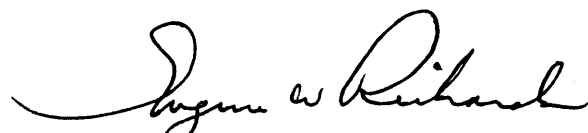
9. Additional Field Work


The survey is considered to be a good basic survey and no additional field work is necessary.

Examined and Approved:

  
Chief,  
Nautical Chart Division

  
Assistant Director,  
Office of Cartography

  
Projects Officer,  
Operations Division

  
Assistant Director,  
Office of Oceanography

GEOGRAPHIC NAMES

Survey No. H-8472

On Chart No. 1255  
 On previous survey No.  
 On U. S. Quadrangle Maps  
 From local information  
 On local Maps  
 P. O. Guide or Map  
 Rand McNally Atlas  
 U. S. Light List  
 BGN

Name on Survey	A	B	C	D	E	F	G	H	K	
Big Slough										1
Myakka River	x								x	2
Rock Creek										3
Salt Springs Creek										4
Sam Knight Creek										5
Tippecanoe Bay	x									6
										7
										8
										9
										10
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*George M. Bice*  
 GEOGRAPHIC NAMES SECTION  
 6 OCTOBER 1960



