

8360

Diag. Cht. No. 1255-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. S0-1356 Office No. H-8360

LOCALITY

State Florida

General locality West Coast

Locality Charlotte Harbor

1956-59

CHIEF OF PARTY

G. W. Moore and R. C. Munson

LIBRARY & ARCHIVES

DATE September 9, 1960

USCOMM-DC 5087

8360

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-8360

Field No. 80-1356

State Florida
General locality West Coast
Locality Charlotte Harbor
Scale 1:10,000 Date of survey 1956 & 1959
Instructions dated 12/18/52, Supplemental Instructions 3/2/56,
Revised Instructions 9/8/58.
Vessel USC&CS Ship SOSBEE
Chief of party Glen W. Moore, Robert C. Munson
Surveyed by Glen W. Moore, William D. Barbee, Robert C. Munson
Soundings taken by ~~fathometer~~ fathometer, graphic recorder, and sounding pole
Fathograms scaled by Personnel Ship SOSBEE
Fathograms checked by Personnel Ship SOSBEE
Protracted by Allen K. Schugeld (Norfolk Processing Office)
Soundings penciled by Fred Bean " " "
Soundings in ~~fathoms~~ feet at MLW ~~MLW~~ and all true depths

REMARKS: All corrections have been entered and checked in the
sounding volumes and the soundings reduced by the Personnel
Of the Ship SOSBEE.

LIST OF SIGNALS

H-8360 SO-1356

Charlotte Harbor

<u>NAME</u>	<u>NUMBER</u>	<u>T SHEET</u>	<u>TRIANG. & TOPO. STATIONS</u>
ABE	9022	11390	
AIR			O.A.A. LIGHT (AIRWAYS) 1943
BAG	9023	11390	
BEN	9024A	11390	
BOA			Sextant Fix Vol.9, pg. 3
BOB			CHARLOTTE HARBOR DAYBEACON
CAB	9024	11390	5 1955
CRY			Sextant Fix Vol.9, pg. 3
DAY		11390	Nyakka River Daybeacon 9
DIP			Sextant Fix Vol.9 pg. 3
DOG	9025	11390	
DOOR			DOOR 1955
EAR	9328	11393	
EMO			Sextant Fix Vol. 9, pg. 3
FAR	9329	11393	
FERN			FERN 1955
FLY	9331	11393	
FOX			Sextant Fix Vol. 9, pg. 18
GAD	9330	11393	
GEE			GEE 1943
GEM	9332	11393	
HAZE			HAZE 1955
HOE	9339	11393	
HCP			Sextant Fix Vol. 9, pg. 17
ICE	9333	11393	
ITS			Sextant Fix Vol. 9, pg. 17
JAR	9338	11393	
JOE			CAPE HAZE SHOAL DAYBEACON 1955
JOY			Sextant Fix Vol. 9, pg. 17
KID	9337	11393	
LAX	9336	11393	
LIP			Sextant Fix Vol. 9, pg. 17
LOG			CHARLOTTE HARBOR DAYBEACON
LOT			5 1956
			CHARLOTTE HARBOR LIGHT 2
			1943

LIST OF SIGNALS

H-8360 SO-1356

Charlotte Harbor

NAME	NUMBER	T SHEET	TRIANG. & TOPO. STATIONS
MAG	9335	11393	
MAN			MANGROVE POINT LIGHT 1956
MOP			Sextant Fix Vol. 9 pg. 16
NEW	9334	11393	
NUB	96104	11396	
NUT			Sextant Fix Vol. 9 pg. 16
OFF	96133	11396	
OWL			Sextant Fix Vol. 9 pg. 16
PAD	96132	11396	
PUN			PUNTA GORDA, MUNICIPAL TANK 1934
PUT			Sextant Fix Vol. 9 pg. 15
QUO	96131	11396	
RAG	96130	11396	
RAY			Sextant Fix Vol. 9 pg. 15
ROY	96129	11396	
SAD	96123	11396	
TAN	96122	11396	
USE	96121	11396	

DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SURVEY H-8360

(Field Number SO-1356)

West Coast of Florida

North Charlotte Harbor

Scale 1:10,000

USC&GS Ship SOSBEE

2/23/56 - 7/14/59

Robert C. Munson, Chief of Party

A. PROJECT

This sheet is part of Project CS-353 (originally CS-13530) with original instructions dated 18 December 1952.

Supplemental Instructions dated 27 January 1956.

Supplemental Instructions dated 2 March 1956.

Revised Instructions dated 8 September 1958.

Acting Director's letter (22/MEK, S-2-S) dated April 1955.

B. SURVEY LIMITS AND DATES

This survey covers the northwestern portion of Charlotte Harbor.

The limits are:

North - Latitude $26^{\circ} 54.1$ ~~53.7~~ N

East - Longitude $82^{\circ} 06.8$ ~~06.8~~ W

South - Latitude $26^{\circ} 46.3$ N

West - West shore of Charlotte Harbor

The area is indicated on the Index of Hydrographic Sheets which is Attachment No. 5 of this report.

Hydrography was started on 23 February 1956 and stopped on 27 August 1956. On 29 June 1959 the incomplete survey was started again and completed on 14 July 1959.

Junctions were made with contemporary surveys as follows:

<u>Direction</u>	<u>Registry No.</u>	<u>Field No.</u>	<u>Date</u>	<u>Scale</u>
North	H-8357	SO-1656	1956	1:10,000
East	H-8361	SO-1157	1959	1:10,000
	H-8470	SO-1159	1959	1:10,000
South	H-8361	SO-1157	1959	1:10,000
West	NONE			

Prior survey H-1388a^{4b}, scale 1:20,000 executed in 1878 covered this area.

The work progressed smoothly while hydrography was being executed. The three year gap between the starting and completion dates is explained by the fact that the Ship SOSBEE was ordered to Tampa Bay, Florida to complete Project CS-402 before returning to this area.

C. VESSEL AND EQUIPMENT

The Ship SOSBEE performed the hydrography outside of the 6-foot curve. It has a turning radius of approximately 100 meters at the standard sounding speed of 1400 rpm. In shoal water the sounding speed was reduced to 1000 rpm. Soundings were obtained with 808 J-type portable echo sounding recorder Nos. 1158, 150 and EDO 225-type portable echo sounding recorder No. 209. The vessel was based at the Gulf Oil Dock in Punta Gorda, Florida.

Skiff 735, a 25-foot wooden hull, flat-bottomed skiff powered by two 10 horsepower outboard motors, did the remainder of the hydrography. It has a maximum speed of approximately 6 knots and a turning radius of 25 meters. Only one motor was used while running shoreline and the shoaler areas. Soundings were obtained on 808 J-type portable echo sounding recorder No. 140 SP for depths three feet and greater. In less than three feet a graduated pole was used to determine the depth. The skiff based at the ship in Punta Gorda.

D. TIDE AND CURRENT STATIONS

The Punta Gorda Tide Gage (Latitude 26° 55'66N, Longitude 82° 03'88W) was used with a time correction of minus one (-1) hour and no range correction applied to the observed heights. *Not within sheet limits*

There were no current stations.

E. SMOOTH SHEET

The smooth sheet will be plotted by the Norfolk Processing Office.

F. CONTROL STATIONS

Triangulation Station	Source	Chief of Party	Year
MANGROVE POINT LIGHT	C&GS	HCA	1956
GEE	C&GS	KGC	1943
HALFWAY	C&GS	GLA	1934
CAPE HAZE SHOAL DAYBEACON	C&GS	JEW	1955
CHARLOTTE HARBOR DAYBEACON 5	C&GS (new)	HCA	1956
CHARLOTTE HARBOR DAYBEACON 5	C&GS (old)	JEW	1955
CHARLOTTE HARBOR LIGHT 2	C&GS	KGC	1943

See Review H-8194

F. CONTROL STATIONS (continued)

Topographic Station	Method	Source	Ch. of Party	Year
ANDY	air photo	C&GS	JEW	1955
DOOR	"	"	"	"
FERN	"	"	"	"
HAZE	"	"	"	"

Triangulation station HALFWAY and topographic station ANDY were not used in the hydrography.

CHARLOTTE HARBOR DAYBEACON 5 1955 was used as a hydrographic signal until it was replaced by CHARLOTTE HARBOR DAYBEACON 5 1956. The 1956 beacon was located by a three-point sextant fix and used as a hydro signal before it was located by triangulation. The sextant fix is listed as signal LOG in Volume 9, page 34, Sheet H-8194 (SO-1256). *See Review H-8194*

G. SHORELINE AND TOPOGRAPHY

Shoreline and topography was obtained from photogrammetric manuscripts T-11390, T-11393 and T-11396 ⁽¹⁹⁵³⁻⁵⁵⁾ compiled by the Tampa District Office. It is accurate and there were no discrepancies encountered.

H. SOUNDINGS

Depths were measured with 808 J-type portable echo sounding recorders Nos. 1158, 150, 140 SP and EDO 225-type portable echo sounding recorder No. 209. In depths less than three feet, a sounding pole was used. There were no unusual corrections applied.

I. CONTROL OF HYDROGRAPHY

The hydrography was controlled for the most part by three-point sextant fixes. Some of the alongshore fixes were obtained by distances from signals and shoreline relief.

In 1956 two signals (Pun and Air) that are located off the sheet were used. The arcs were not inked at the time of sheet construction and have become obliterated. Traces of the Pun - Gee arcs were saved but the Man - Pun and Air - Lot arcs can not be found. The hydrographer noted in the sounding volume that fixes using signal Air were first plotted on H-8361 (SO-1157) and transferred to this sheet. It is not known how the Gee - Man - Pun fix was plotted but soundings on the lines controlled by this fix agree with the 1959 soundings.

See Processing Office addendum.

J. ADEQUACY OF SURVEY

The survey is complete and adequate to supersede prior surveys for charting.

Junctions with adjoining surveys are satisfactory, no holidays or excessive differences exist and the depth curves can be adequately drawn.

K. CROSSLINES

Thirty-one and four tenths statute miles or 5.8% crosslines were run with no discrepancies encountered.

L. COMPARISON WITH PRIOR SURVEYS

A comparison with survey H-1388a¹, 1878, 1:20,000 shows general agreement. All of the soundings from the H-1388a^b survey are plotted on the boat sheet and shown in green ink. They all agree within one foot with the depths recorded in 1956 and 1959.

M. COMPARISON WITH CHART

A comparison with Chart 1255, 1:80,000, 5th Edition, revised 9/1/58 and corrected to date is very favorable. All charted soundings are in agreement with the 1956 and 1959 hydrography except the 12-foot depth at Latitude 26° 52'7N, Longitude 82° 07'3W. This sounding was charted from the 1956 hydrography on this sheet but further inspection and development failed to substantiate its presence. Close inspection of the fathogram (between pos. 4V and 5V) discloses that a second echo was being recorded and the shoal sounding does not appear on this echo. This fact lends proof that the shoal is nonexistent and the sounding was probably the return from a school of fish.

*previously
deleted
from Chart*

N. DANGERS AND SHOALS

No uncharted dangers or shoals.

O. COAST PILOT INFORMATION

No Coast Pilot Information of value. A special Coast Pilot Report will be submitted on an area basis.

P. AIDS TO NAVIGATION

MANGROVE POINT LIGHT, CAPE HAZE SHOAL DAYBEACON, CHARLOTTE HARBOR DAYBEACON 5 and CHARLOTTE HARBOR LIGHT 2 are the fixed aids to navigation.

Q. LANDMARKS FOR CHARTS

None

R. GEOGRAPHIC NAMES

The photogrammetrist is conducting an extensive geographic name survey and the report will be more complete in every detail than one that could be written by the hydrographer.

S. SILTED AREAS

None

T. BY-PRODUCT INFORMATION

None

U. VELOCITY CORRECTION

A Velocity Correction Abstract is appended.

V.W.X.Y.

Nonapplicable

Z. TABULATION OF APPLICABLE DATA

1. Boat Sheet H-8360 (SO-1356) *
2. Manuscripts T-11390, T-11393 & T-11396 *
3. List of Control Stations
4. Statistics
5. Tide Note
6. Descriptions of photo-hydro stations *
7. Recovery Notes of marked stations **
8. Tide Records (marigrams) *
9. Fathograms *
10. Velocity Correction Abstract
11. Index of Hydrographic Sheets
12. Approval Sheet

* submitted under separate cover

** submitted by Tampa District Office

Respectfully submitted,

Robert C. Munson

Robert C. Munson
Lt., C&GS

DEPARTMENT OF COMMERCE AND NOT THE SIGNER OF THIS
 COAST AND GEODETIC SURVEY
 WASHINGTON 25

IN REPLY ADDRESS THE DIRECTOR
 COAST AND GEODETIC SURVEY
 AND NOT THE SIGNER OF THIS LETTER
 AND REFER TO NO. 639:hrmr

AND REFER TO NO.

LETTER

23 June 1960

To: Norfolk District Officer
 Coast and Geodetic Survey
 102 West Gray Road
 Norfolk 10, Virginia

Subject: Position of signal LOG (Daybeacon 5)

The position of signal LOG (Charlotte Harbor Daybeacon 5) is: lat. $26^{\circ}45'32.1''$ N, long. $82^{\circ}08'30.6''$ W. This position was computed in the Washington Office from data on survey H-8194. Although the position is 16 meters northeast of the position originally shown on H-8194, it should be used in plotting the adjoining surveys. No conflict in the junctions is anticipated because of the change in position.

Max G. Ricketts, Chief
 Nautical Chart Branch
 Chart Division

See Review H-8194

POOR COPY

NORFOLK PROCESSING OFFICE
LIST OF SIGNALS
H-8360

TRIANGULATION STATIONS

AIR CAA LIGHT (AIRWAYS), 1943
BOB CHARLOTTE HARBOR DAYBEACON 5, 1955
GEE GEE, 1943
JOE CAPE HAZE SHOAL DAYBEACON, 1955
LOT CHARLOTTE HARBOR LIGHT 2, 1943
MAN MANGROVE POINT LIGHT, 1956
PUN PUNTA GORDA MUNICIPAL TANK, 1934

MARKED TOPOGRAPHIC STATIONS

DOOR, 1955 FERN, 1955 HAZE, 1955

TOPOGRAPHIC STATIONS

SOURCE T-11390

Abe Bag Ben Cab Day Dog Ear

SOURCE T-11393

Far Fly Gad Gem Hoe Ice Jar Kid Lax Mag New

SOURCE T-11396

*Log Nub Off Pad Quo Rag Roy Sad Tan Use

HYDROGRAPHIC STATIONS

Boa Vol. 9, page 3
Cry " " " 3
Dip " " " 3
Emo " " " 3
Fox " " " 18
Hop " " " 17
Its " " " 17
Joy " " " 17
Lip " " " 17
Mop " " " 16
Nut " " " 16
Owl " " " 16
Put " " " 15
Ray " " " 15

*See letter dated 23 June 1960
839:hrm

STATISTICS
for
HYDROGRAPHIC SURVEY H-8360 (SO-1356)

Project CS-353 North Charlotte Harbor

Ship SOSBEE

DAY LETTER	DATE	VOL. NO.	H.L. SDGS.	NUMBER OF POSITIONS	STA. MI. SDGS.	FATHOMETER
A	2/23/56	1	0	42	9.6	1158
B	2/24/56	1	2	2	0	none
C	2/27/56	1	2	25	5.8	1158
D	3/1/56	1	0	46	16.8	1158
E	3/5/56	1,2	2	118	34.6	EDO-209
F	4/9/56	2	0	29	8.3	EDO-209
G	4/13/56	2	4	48	17.1	EDO-209
H	5/3/56	2	0	59	16.2	14 OSP & EDO-209
J	5/9/56	2	0	30	7.0	EDO-209
K	5/10/56	3	0	28	7.1	EDO-209
L	5/24/56	3	0	32	7.3	EDO-209
M	6/13/56	3	0	53	17.7	EDO-209
N	6/19/56	3	0	57	16.3	EDO-209
P	6/21/56	3	0	29	9.0	EDO-209
Q	7/2/56	3	0	24	8.8	EDO-209
R	7/16/56	4	0	23	8.7	EDO-209
S	7/20/56	4	0	28	8.4	EDO-209
T	8/2/56	4	0	26	8.7	EDO-209
U	8/13/56	4	0	25	8.4	EDO-209
V	8/16/56	4	0	26	8.4	EDO-209
W	8/20/56	4	0	26	6.6	EDO-209
X	8/27/56	4	0	26	8.9	EDO-209
Y	6/29/59	4,5	0	158	27.6	150
Z	7/1/59	5	0	137	34.6	150
AA	7/6/59	5,6	0	165	42.8	150
BA	7/8/59	6,7	0	168	46.6	150
CA	7/9/59	7	0	173	50.4	150
DA	7/14/59	7,8	0	138	33.2	150
28	28	8	10	1741	474.9	4 Ship Totals

STATISTICS
for
HYDROGRAPHIC SURVEY H-8360 (SO-1356)
Project CS353, North Charlotte Harbor
Skiff 735

DAY		VOL.	POLE NO.	OF	STA. MI.		
LETTER	DATE	NO.	SDGS.	POS.	SDGS.	FATHOMETER	
a	4/23/56	9	60	32	7.5	140SP	
b	5/2/56	9	233	72	8.7	140SP	
c	5/7/56	9	387	96	14.7	140SP	
d	5/14/56	10	480	137	25.1	140SP	
e	5/21/56	10	447	102	14.7	140SP	
<u>5</u>	<u>5</u>	<u>2</u>	<u>1604</u>	<u>439</u>	<u>70.7</u>	<u>1</u>	<u>Skiff Totals</u>
<u>28</u>	<u>28</u>	<u>8</u>	<u>10</u>	<u>1741</u>	<u>474.9</u>	<u>4</u>	<u>Ship Totals</u>
<u>33</u>	<u>33</u>	<u>10</u>	<u>1614</u>	<u>2180</u>	<u>545.6</u>	<u>5</u>	<u>Grand Total</u>

AREA = 20.4 square statute miles.

TIDE NOTE

for

H-8360

The tide gage at the Municipal Dock in Punta Gorda, Florida was used to control the survey. A time correction of minus one (-1) hour and no height correction was applied to the observed tides.

The gage was located at Latitude $26^{\circ} 55.66N$, Longitude $82^{\circ} 03.88W$ and 1.9 feet on the staff was used as Mean Low Water.

The Washington Office furnished the hourly heights, minus one (-1) hour, for the Punta Gorda Tide Gage to determine the reducers for the 1956 hydrography.

ABSTRACT OF LEADLINE COMPARISONS AND BAR CHECKS FOR VELOCITY CORRECTION

SHIP SOSBEE H-8360 (SO-1356)

Depth in ft.	8	9	10	13	14	15	16	17	18	INI. Vol.	Page	Fath.
Dates Day Letter	Velocity Correction in Feet											
2/23/56												
2/24/56	A				none					1	46	38
2/27/56	B				none					1	48	38
3/1/56	C				none					1	115S	EDO-209
3/5/56	D	-1.1R	0.0			0.0	0.0			1	62	9
4/9/56	E			-0.2	0.0					2	62	9
4/13/56	F			0.0		0.0				2	11	11
	G			0.0		-0.2				2	21	21
	H			-0.2		-0.2	+0.2			2	36	36
5/3/56	I			0.0						2	37	37
	J			0.0						2	46	46
5/9/56	K				none	0.0				3	55	55
5/10/56	L			0.0		0.0				3	19	19
5/24/56	M			0.0		0.0				3	21	21
6/13/56	N			0.0		0.0				3	36	36
	O			0.0		0.0				3	37	37
6/19/56	P			0.0		0.0				3	43	43
	Q			0.0		0.0				3	54	54
6/21/56	R			0.0		0.0				4	55	55
7/2/56	S			0.0		0.0				4	64	64
7/16/56	T			0.0		0.0				4	3	3
7/20/56	U			0.0		0.0				4	18	18
8/2/56	V			0.0		0.0				4	20	20
8/13/56	W			0.0		0.0				4	29	29
8/16/56	X			0.0	none	0.0				4	44	44
8/20/56				0.0		0.0				4	52	52
8/27/56				0.0		0.0				4	52	52

ABSTRACT OF BAR CHECKS FOR VELOCITY CORRECTION

H-8360 (SO-1356)

SHIP SOSBEE

Depths in feet	5	8	10	15	Inf.	Vol.	Page	Fath.
Dates Day Letter	Velocity Correction in Feet							
6/29/59	Y	0.0	0.0	0.0	0.0	4	60	150
	Y	0.0	0.0	0.0	0.0	5	11	"
	Z	0.0	0.0	0.0	0.0	5	31	"
	Z	0.0	0.0	0.0	0.0	5	46	"
	Z	0.0	0.0	0.0	0.0	5	64	"
	Z	0.0	0.0	0.0	0.0	5	19	"
7/6/59	AA	0.0	0.0	0.0	0.0	6	38	"
7/8/59	BA	0.0	0.0	0.0	0.0	7	9	"
	BA	0.0	0.0	0.0	0.0	7	11	"
7/9/59	CA	0.0	0.0	0.0	0.0	7	53	"
	CA	0.0	0.0	0.0	0.0	7	55	"
	DA	0.0	0.0	0.0	0.0	7	55	"
7/14/59	DA	0.0	0.0	0.0	0.0	8	18	"
	DA	0.0	0.0	0.0	0.0	8	18	"
SKIFF 735								
4/23/56	a	0.0	0.0	0.0	0.0	9	4	14OSP
	a	0.0	0.0	0.0	0.4	9	13	"
5/2/56	b	0.0	0.0	0.0	0.6	9	15	"
	b	0.0	0.0	0.0	0.6	9	33	"
	b	0.0	0.0	0.0	0.6	9	35	"
5/7/56	c	0.0	0.0	0.0	0.6	9	61	"
	c	0.0	0.0	0.0	0.6	9	3	"
5/14/56	d	0.0	0.0	0.0	0.6	10	39	"
5/21/56	e	0.0	0.0	0.0	0.6	10	39	"
	e	0.0	0.0	0.0	0.6	10	65	"

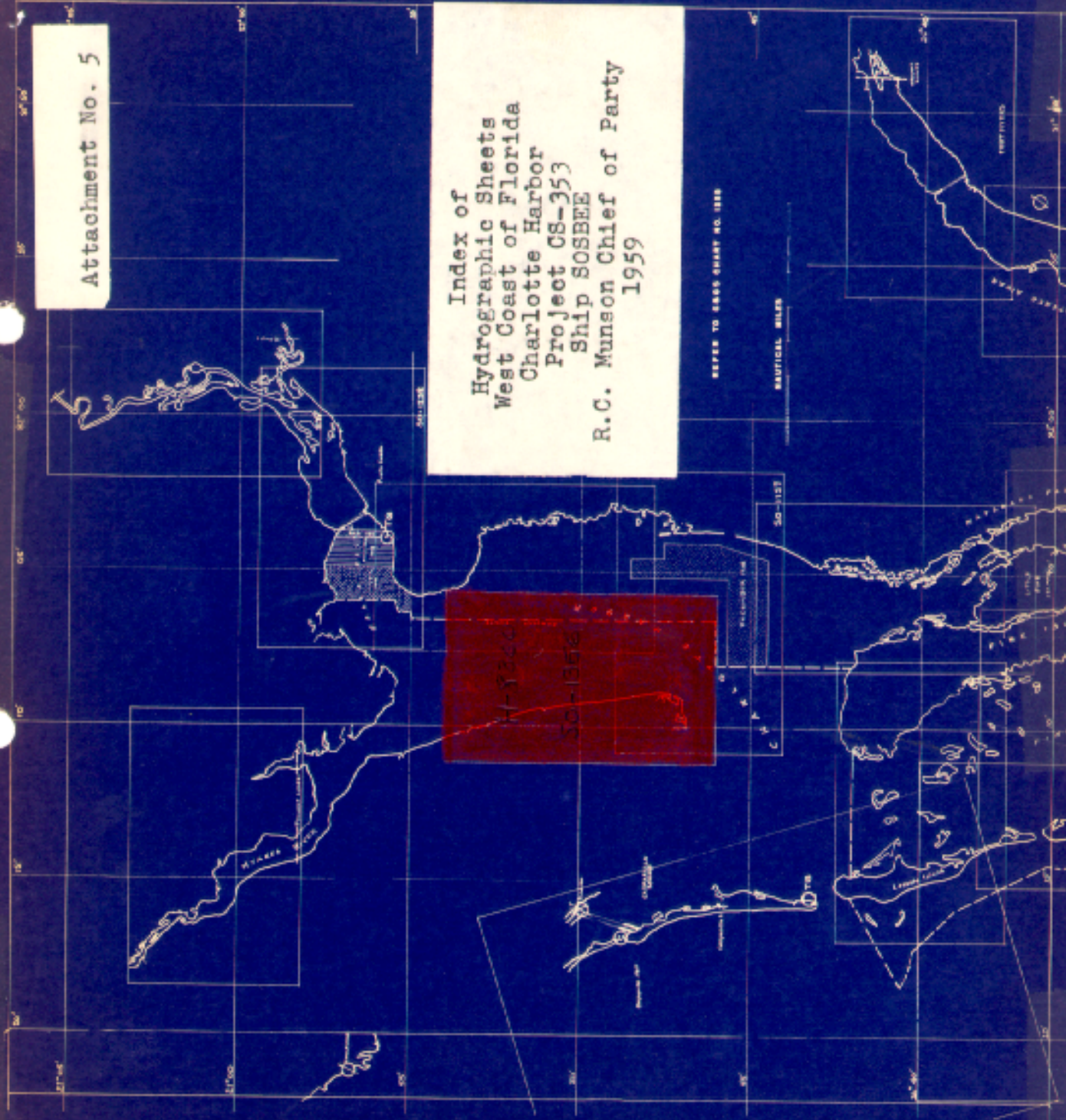
A Velocity Correction of zero was used for the entire sheet.

Attachment No. 5

Index of
Hydrographic Sheets
West Coast of Florida
Charlotte Harbor
Project CS-353
Ship SOSBEE
R.C. Munson Chief of Party
1959

REFER TO 5565 CHART NO. 1188

NAUTICAL MILES

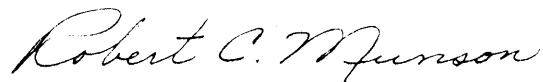


APPROVAL SHEET

This survey is complete and adequate and no further field work is recommended. The Chief of Party was in charge of the 1959 hydrography and therefore had continuous supervision of its execution.

The boat sheet and processed records are hereby approved and will be forwarded to the Norfolk Processing Office.

Approved by,

A handwritten signature in cursive script that reads "Robert C. Munson".

Robert C. Munson
Chief of Party

NORFOLK PROCESSING OFFICE A
ADDENDUM
To Accompany

HYDROGRAPHIC SURVEY H-8360 (So-1356)

GENERAL

Some slight disagreement was noted between soundings recorded with the 808 fathometer and those recorded with the EDO. This difference usually amounted to no more than 0.2' to 0.4'; however, this small amount would sometimes result in an apparent one foot discrepancy at crossings. Due to the smoothness of the bottom in the area, soundings were occasionally plotted to the nearest $\frac{1}{2}$ foot in an effort to smooth curves. This is particularly noticeable at the 12' and 18' depth interval.

CONTROL

The information in paragraph I, Control of Hydrography, is inaccurate. Arcs of angles were needed on the angles MANGROVE PT. LIGHT to PUNTA GORDA MUN. TANK and on CAA LIGHT (AIRWAYS) to CHARLOTTE HARBOR LIGHT 2. The remaining stations falling off the edge of the sheet were plotted on temporary dog-ears and are indicated with arrows.

smooth plot is adequate.

Norfolk, Va.
31 Aug. 1960

Respectfully submitted,



Hugh L. Proffitt
Cartographer

OFFICE OF CARTOGRAPHY

REVIEW SECTION -- NAUTICAL CHART DIVISION

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8360

FIELD NO. SO-1356

Florida, West Coast - Charlotte Harbor

SURVEYED: 1956-1959

SCALE: 1:10,000

PROJECT NO. 353

SOUNDINGS: EDO Depth Recorder
808 Depth Recorder
Sounding Pole

CONTROL: Sextant fixes
on shore signals

Chief of Party ----- G. W. Moore; R. C. Munson
Surveyed by ----- G. W. Moore; W. D. Barbee; R. C. Munson
Protracted by ----- A. K. Schugeld
Soundings plotted by ----- F. Bean
Verified and inked by ----- G. Merrill
Reviewed by ----- E. E. Thomas DATE: 8-1-61
Inspected by ----- R. H. Carstens

1. Description of the Area

The survey is located in the northwestern portion of Charlotte Harbor and covers the alongshore area from Cape Haze northward to the vicinity of the entrance to the Myakka River and Peace River.

The bottom is generally smooth and slopes gradually from shore to a natural deep of 12-24 ft.

2. Control and Shoreline

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

The shoreline originates with advanced prints of photogrammetric surveys T-11390 of 1953-1958, T-11393 and T-11396 of 1953-55.

3. Hydrography

- a. Depths at the crossings are in good agreement.
- b. The usual depth curves are adequately delineated.
- c. The 3-ft. curve was added to delineate the extent of the inshore shoal area.
- d. 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 except that the nature of many offshore signals was not described. These are assumed to be temporary.

5. Junctions

An adequate junction was effected with H-8361(1957-1959) on the south and H-8357 (1956) on the north. The junction with unverified survey H-8470 (1959) on the east will be discussed in the review of that survey.

6. Comparison with Prior Surveys

a. 1388 a&b (1878) 1:20,000

This survey provides the prior coverage of the area for comparison with the present survey. A comparison of the prior and present survey reveals no significant changes in the general delineation of the bottom and shows that this portion of the bottom of Charlotte Harbor has remained generally stable since 1878.

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

7. Comparison with Chart 474 (Latest print date 7-4-60)
1255 (Latest print date 4-11-60)

a. Hydrography

The charted hydrography originates principally with the previously discussed prior survey.

The present survey supersedes the charted hydrography in the common area.

b. Aids to Navigation

The fixed aid from the present survey is in substantial agreement with the charted position and adequately marks the feature intended.

8. Compliance with Instructions


This survey adequately complies with the project instructions.


9. Additional Field Work

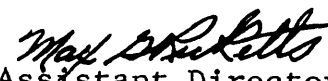
This survey is considered to be a good basic survey and no additional field work is necessary.

Examined and Approved:


Chief,
Nautical Chart Division


Projects Officer,
Operations Division


Assistant Director,
Office of Cartography


Assistant Director,
Office of Oceanography

GEOGRAPHIC NAMES
Survey No. H-8360

Name on Survey	Source											
	A	B	C	D	E	F	G	H	K			
CHARLOTTE HARBOR	✓											1
CAPE HAZE	✓											2
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1255

George M. Bace
30 September 1960

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ..8360..

Records accompanying survey: Smooth sheets ..1....;
 boat sheets ...1.; sounding vols. ..10...; wire drag vols.;
 Descriptive Reports ..1.; graphic recorder envelopes ..16...;
 special reports, etc.

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

Number of positions on sheet	.....	1741
Number of positions checked	.....	135
Number of positions revised	.....	3
Number of soundings revised (refers to depth only)	.....	407.*
Number of soundings erroneously spaced	.....	0
Number of signals erroneously plotted or transferred	.....	1
Topographic details	Time	1 hr.
Junctions	Time	5 hr.
Verification of soundings from graphic record	Time	14
Special adjustments	Time	0

Verification by *George Merrill* Total time *149 hr.* Date *7-13-61*..

Reviewed by *E. E. Shover* Time *16*... Date *8/1/61*..

* minor correction of 0.2 ft to smooth out curves in flat bottom.

RMC

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Coastal Surveys~~

29 Sept. 1960

Division of Charts: R.H.Carstens

Plane of reference approved in
10 volumes of sounding records for

HYDROGRAPHIC SHEET 8360

Locality Charlotte Harbor

Chief of Party: G.W. Moore (1956) and R.C. Munson (1959)

Plane of reference is mean low water, reading.

- 1.8 ft. on tide staff at Punta Gorda, Fla. (1956)
- 1.9 ft. " " " " " (1959)
- 5.4 ft. below B. M. 1 (1955)

Height of mean high water above plane of reference is: 1.2 ft.

Condition of records satisfactory except as noted below:



 Chief, Tides Branch

~~Chief, Division of Tides and Currents~~



82° 10'

8360

26° 50'

Chart - 1255

NAUTICAL CHARTS BRANCH

SURVEY NO. H-8360

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
1 Mar 61	1255	Trichols	Before After Verification and Review
			Exam - no critical corrections.
11 July 61	474	Trichols	Before After Verification and Review
			Exam - no critical corrections.
Nov 61	856B	"	Before After Verification and Review Complete
8 Feb 62	856A	Trichols	Before After Verification and Review Complete
20 Apr 62	1255	"	Before After Verification and Review
			Thru 856 A & B, above.
			Before After Verification and Review
			Before After Verification and Review
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			Before After Verification and Review

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.