

8361

Diag. Cht. No. 1255-2.

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. SO-1157 Office No. H-8361

LOCALITY

State Florida

General locality West Coast

Locality Charlotte Harbor

19 57-59

CHIEF OF PARTY

W.D.Barbee, M.J.Tonkel & R.C.Munson

LIBRARY & ARCHIVES

DATE November 29, 1960

COMM-DC 61300

8361

524

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-8361

Field No. 80-1157

State Florida

General locality West Coast

Locality Charlotte Harbor

Scale 1:10,000 Date of survey 1957 - 1959

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

Vessel U.S.C. & G.S. Ship SOSBEE

Chief of party ~~Glenn W. Moore~~, William D. Barbee, Miller J. Tonkel, and Robert C. Munson. <sup>1958</sup>

Surveyed by Gordon N. Orr, W. D. Barbee, R. C. Munson

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

Fathograms scaled by personnel of the Ship SOSBEE

Fathograms checked by personnel of the Ship SOSBEE

Protracted by D. G. DAVENPORT (Norfolk Processing Office)

Soundings penciled by D. G. DAVENPORT

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.

Handwritten initials or mark in the bottom right corner.

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SURVEY NO. H-8361 (Field No. SO-1157)  
West Coast of Florida 16 Jan. 1957 to 17 June 1959  
Charlotte Harbor Scale 1:10,000  
USC&GS Ship SOSBEE Robert C. Munson, Ch. of Party

A. PROJECT:

This sheet is part of Project CS-353 (originally CS-1353) with original Instructions dated 18 Dec. 1952, Supplemental Instructions dated 2 Mar. 1956 and 27 Jan. 1956, and Revised Instructions dated 8 Sept. 1958. Also applicable is Acting Director's letter (22/MEK, S-2-S) dated April 1955 amends Instructions on tides.

B. SURVEY LIMITS AND DATES:

This survey covers the southeastern portion of Charlotte Harbor with the southern limit at Lat.  $26^{\circ}-44.6'$  N. from Long.  $82^{\circ}-04.1'W$ . to Long.  $82^{\circ}-08.0'W$  and Lat.  $26^{\circ}-45.4'N$ . from Long.  $82^{\circ}-08.0'W$ . to Long.  $82^{\circ}-10.5'W$ . The northern limit of the survey extends along Lat.  $26^{\circ}-48.6'$  N. from Long.  $82^{\circ}-03.2'W$ . to Long.  $82^{\circ}-06.8'W$ ., then along Lat.  $26^{\circ}-46.4'N$ . from Long.  $82^{\circ}-07.0'W$ . to Long.  $82^{\circ}-08.0'W$ . and then along Lat.  $26^{\circ}-47.5'N$ . from Long.  $82^{\circ}-08.0'W$ . to Long.  $82^{\circ}-09.0'W$ . The eastern limit of the survey extends along the eastern shoreline of Charlotte Harbor in the vicinity of Long.  $82^{\circ}-03.7'W$ . The western limit is along Long.  $82^{\circ}-11.5'W$ . from Lat.  $26^{\circ}-45.4'N$ . to Lat.  $26^{\circ}-46.5'N$ ., thence along the west shore of Charlotte Harbor to Lat.  $26^{\circ}-47.5'N$ .

The hydrographic sheet limits are given in the Index of Hydrographic Sheets in attachment No. 11 of this report.

Junctions were made with contemporary survey <sup>(1959)</sup> H-8360 (SO-1356) on the northwest, contemporary survey <sup>(1956-1959)</sup> H-8470 (SO-1159) on the north and contemporary survey H-8194 (SO-1256) on the southwest. There has been no contemporary survey south of this survey from Long.  $82^{\circ}-08.0'W$ . to Long.  $82^{\circ}-04.0'W$ .

Work on this survey commenced on 16 Jan. 1957 and ended on 17 June 1959. Work was interrupted from Mar. 19, 1957 to 3 Dec. 1958 during which time the Ship SOSBEE was engaged on project CS-402 in the Tampa Bay area. Other than this interruption the progress of the work was satisfactory.

C. VESSELS AND EQUIPMENT:

Soundings were obtained from skiff CS-735, launch CS-182, and the Ship SOSBEE. Skiff CS-735 is a 25 foot wooden hull flat-bottom skiff, powered by two ten horse-power outboard motors, with a maximum speed of approximately 6 knots and a turning radius of approximately 25 meters. The skiff operated from the south branch of Alligator Creek, from a newly dredged area known as Pirate Harbor and from the Ship SOSBEE. Where possible, soundings were taken with 808 type portable echo sounding recorders Nos. 115-S, 140-SP and 150. 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.

Launch CS-182 is a 26-foot fiber-glass launch powered by a 75 H.P. Hercules Diesel engine, and has a maximum speed of about 6 knots and a turning radius of about 15 meters. Soundings were obtained with 808J type echo recorders Nos. 140-SP and 150. The launch was based out of the Gulf Oil Dock in Punta Gorda, Florida.

The Ship SOSBEE, a diesel powered, single screw, wooden hull vessel, 68 feet in length at the water-line has a turning radius of about 100 meters. Standard sounding speed of 1400 RPM averages 8.15 - 9.00 knots. Soundings were taken with EDO-type echo sounding recorder No. 209 and also with an 808J type echo sounding recorder No. 150. The Ship SOSBEE worked out of the Gulf Oil Dock in Punta Gorda, Florida.

D. TIDE AND CURRENT STATIONS: *off sheet limits*

A portable tide gage was established at Port Boca Grande, Fla., Lat. 26°-43.23'N., Long. 82°-15.55'W. The tide corrections for this survey was Port Boca Grande, Fla. + 2.00 hours and + 1.00 hour with no correction for range. There were no current observations made within the limits of this sheet. Tide Zones are indicated on the boat sheet. (Long. 82°-10'W.).

E. SMOOTH SHEET:

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

F. CONTROL STATIONS:

Triangulation stations include the following:

Station	Year Located	Source of Control	Chief of Party
AIR	- - - 1943	Triangulation	K.G.C.
FISH	- - - 1956	"	Tampa D. O.
JOE	- - - 1955	"	" " "
LEO	- - - 1943	"	K.G.C.
LOT	- - - 1943	"	
MOO	- - - 1943	"	K.G.C.
Mid	- - - 1955	"	
OVA	- - - 1943	"	K.G.C.

F. CONTROL STATIONS: Con't.

The greatest part of the control for hydrography was located by photogrammetric means on sheets T-11397 and T-11396. Signals LOG\* and signal LAY were located by three point sextant fix. Signals were of sufficient accuracy for control. A list of signals with their origins is appended in attachment No. 3.

See Review H-8194

\* Transfer of position from computation

See Review H-8194 (1956-57)

G. SHORELINE AND TOPOGRAPHY:

Shoreline and topography were from manuscripts T-11396, and <sup>T-11393,</sup> <sup>T-11394,</sup> <sup>T-11400</sup> and T-11397. The topography of the area was checked by the hydrographic party and was found to be in agreement with the photogrammetry. In the vicinity of Lat. 26° 48.0' N. and Long. 82° 03' W. the shoreline has been changed by new dredging and construction. This area is locally referred to as Pirate Harbor and no hydrography was accomplished in the newly constructed canals. The construction area is marked on the boatsheet.

Transferred via T-sheets.

H. SOUNDINGS:

Soundings were obtained by an 808J type echo sounding recorders Nos. 115-SP, 140-SP and No. 150. Also an EDO type echo sounding recorder No. 209 was used on the Ship SOSBEE. In shallow water, 3 feet or less, a graduated pole was used to sound.

No unusual corrections were applied to the soundings. The method of sounding is clearly indicated in the sounding volumes.

I. CONTROL OF HYDROGRAPHY:

The major portion of the survey was controlled by three point sextant fixes. Inshore work was largely controlled from shoreline detail, by estimating the location from natural objects such as mouths of small canals, islands, etc. Control by estimating distance from a signal was used when possible.

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. There were no holidays and depth curves can be adequately drawn at junctions.

K. CROSSLINES:

Crosslines constitute approximately 8% of the total hydrography and crossings were in good agreement with the established soundings.

L. COMPARISON WITH PRIOR SURVEYS:

The results of the new survey were compared to prior survey Registry No. 1388a, scale 1:20,000, dated December 1878.

L. COMPARISON WITH PRIOR SURVEYS: Con't.

Agreement was generally very good between the present survey and the prior survey and no important differences were noted in comparing the two surveys. Depths at junctions with the prior survey was also very good. There were no features or depths that require deleting from the charts. There were no unusual subsurface features noted during the hydrography. See Review

M. COMPARISON WITH CHART:

The results of the survey were compared to Chart 1255, scale 1:80,000, dated 29 March 1948, revised 1 Sept. 1958. Agreement was very good between the chart and the new survey.

N. DANGERS AND SHOALS:

Areas of shoaling are noted as follows:

	<u>Latitude</u>	<u>Longitude</u>	<u>Depth</u>	<u>Position No.</u>
	26°-47.166" <sup>55" to 47.08"</sup> -	82°-08.148" <sup>5</sup> -	0.00'	30 to 31 1-day
26° 46.48" to	26°-46.154" -	82°-09.112" <sup>to 09.48'</sup> -	0.00'	28 & 47 1-day
	26°-46.133" -	82°-08.154" -	0.00' <sup>1/2</sup>	14 to 15 1-day 23 - 24 1-day

All charted shoals, and dangers were found as charted, or shoaler depths, were found except for the three areas listed.

O. COAST PILOT INFORMATION:

A special report on an area basis will be submitted under separate cover.

P. AIDS TO NAVIGATION:

Fixed aids to navigation are recorded on Form 567 and will be reported at a later date. Form 567, Comp for Sig LOG, not received @ date of this review. Comp by Wash. Off are filed with PAROGRAMS.

There were no floating aids.

Q. LANDMARKS FOR CHARTS:

Data relative to landmarks for charts will be submitted on Form 567 on an area basis. *Report not available in Wash. Office at this date.*

R. GEOGRAPHIC NAMES:

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

S. SILTED AREAS:

There were no silted areas in the limits of this sheet.

T. BY-PRODUCT INFORMATION:

None.

U. MISCELLANEOUS:

Due to the increase in small boating in this area it is recommended that the 3 foot curve be shown on the chart.

Z. 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 GS-353 Sheet Index
12. Approval Sheet.

\* Submitted under separate cover.

\*\* Submitted by the Tampa District Office.

Submitted by,

*Gordon N. Orr*  
Gordon N. Orr,  
ENSIGN, USC&GS

Approved by:

*Robert C. Munson*  
Robert C. Munson,  
LT., C & G S  
Cdg. Ship SOSBEE.

LIST OF SIGNALS  
H-8361                      SO-1157  
Charlotte Harbor

Name	Number	T-Sheet	Remarks
ABE	9703	11397	-
ACE	9713	"	-
<del>AIR</del>	-	-	<del>Δ AIR, 1943</del> <i>Not used</i>
ADD	96128	11396	-
BOB	4002	11400	-
CAB	9704	11397	-
CAM	9715	"	-
<del>DIP</del>	<del>96114</del>	<del>11396</del>	-
EGO	9705	11397	-
ELF	9716	"	-
FISH	-	-	- Δ FISH, 1955
FERN	-	-	- FERN, 1955 (Topo.)
FUN	H-8194	-	-
GIL	9701	"	-
GEM	9705A	"	-
GEO	9717	"	-
<del>HUG</del>	<del>9686</del>	<del>11396</del>	-
HAZE	-	-	- HAZE, 1955 (Topo.)
JAP	9707	11397	-
JAR	9416	11394	-
JOE	-	-	- Δ JOE, 1955 <i>Cape Haze Shoal Day beacon, 1955</i>
LEW	9702	11397	-
LEO	-	-	- Δ LEO, 1943
LOT	-	-	- Δ LOT, 1943 <i>CHARLOTTE HBR. Lt. 2, 1943</i>
LOG	<i>Computed pos</i>	-	- Sextant Fix (Hydro.)
LAY	<i>See Review</i>	-	- " " "
MAN	9708	"	-
MOO	-	-	- Δ MOO, 1943
MAR	9415	11394	-
MID	-	-	- Δ MID, 1955 <i>CHARLOTTE HBR. Lt. 4, 1955</i>
NUB	96104	11396	-
NIT	96106	"	-
OVA	-	-	- Δ OVA, 1943
OIL	9711	11397	-
ODD	9687	11396	-
PAD	96132	"	-
QUO	96131	"	-



LIST OF SIGNALS

H-8361 SO-1157  
Charlotte Harbor

Name	Number	T-Sheet	Remarks
RIP	- 9712	- 11397	-
ROY	- 96129	- 11396	-
RAG	- 96130	- "	-
<del>SAD</del>	<del>- 96129</del>	<del>- "</del>	<del>-</del>
TRI	- 9706	- 11397	-
TUB	- 9714	- "	-
TAN	- 96122	- 11396	-
USE	- 96121	- "	-
<del>VAL</del>	<del>- 96125</del>	<del>- "</del>	<del>-</del>
WIL	- 4001	- <sup>397</sup> 11400	-
<del>WAG</del>	<del>- 96124</del>	<del>- 11396</del>	<del>-</del>
YAK	- 96126	- "	-
ZAG	- 96127	- "	-

STATISTICS  
For Hydrographic Survey  
H-8361 SO-1157  
Charlotte Harbor  
Project CS-353

Skiff 735

Vol.No.	Day Letter	Date	Pole Soundings	No. of Positions	Statute Miles of Sounding
8	a	16 Jan. '57	84	142	29.10
8	b	17 " "	6	118	32.20
9	c	22 " "	65	110	28.30
9	d	23 " "	9	106	28.30
10	e	24 " "	329	108	16.30
10	f	9 June '59	362	88	14.95
10 & 11	g	10 " "	524	99	18.60
11	h	11 " "	636	128	16.33
11	j	15 " "	388	102	13.10
12	k	16 " "	658	103	14.28
12	l	17 " "	109	47	6.78
Total			3170	1151	218.24

Launch CS-182

2	a	3 Dec. '58	CP	28	7.50
2	b	4 " "	"	79	21.39
2	c	5 " "	"	115	31.05
3	d	8 " "	"	152	37.26
3	e	9 " "	CP	98	23.29
3 & 4	f	10 " "	"	128	32.00
4	g	17 " "	"	137	31.91
4	h	18 " "	"	63	12.40
5	j	26 Jan. '59	"	61	16.33
5	k	30 " "	"	17	4.05
5	l	12 Feb. "	"	59	14.50
5	m	16 " "	"	114	27.50
6	n	26 " "	"	112	30.00
6	p	3 Mar. "	"	137	26.22
6 & 7	q	4 Mar. "	"	92	31.05
7	r	10 " "	"	82	15.75
Total				1472	363.10

Ship SOSBEE

1	A	21 Feb. '57	CP	66	18.60
1	B	18 May "	"	22	4.40
1	C	25 Feb. '59	"	97	29.44
Total				185	52.44

AREA (Square Statute Miles) =  $\frac{26.44}{13.82}$

TIDE NOTE

H-8361

SO-1157

Charlotte Harbor

Soundings were reduced to M L W on the portable tide gage established at Port Boca Grande, Florida, Latitude  $26^{\circ}-43.'23''$  North, Longitude  $82^{\circ}-15.'55''$  West. The tide correction was +1.00 hour eastward to Longitude  $82^{\circ}-10.'00''$  West and +2.00 hour from Longitude  $82^{\circ}-10.'00''$  West to the easterly limits. There was no correction for range. There were no current observations made.

Mean low water corresponds to a reading of 2.3 feet on the staff.

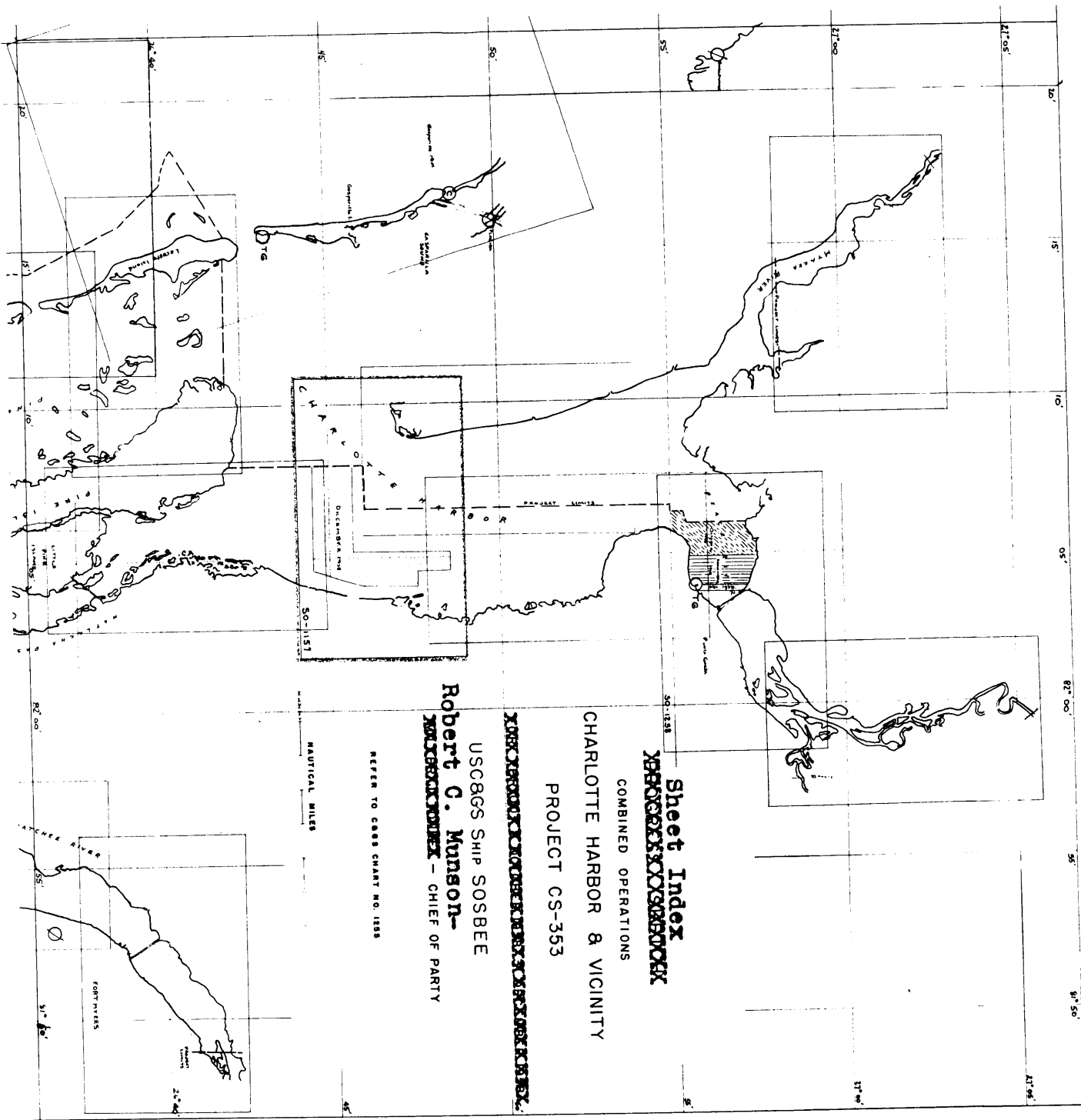
Velocity Correction Abstract  
(Bar Check)  
H-8361      50-1157  
Echo Recorder 140-8P (808J)

Launch 09-182

Day	Depths		Time												Initial Set	Vol. No.	Page No.	Remarks
	5.0	6.0	8.0	10.0	12.0	15.0	20.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0				
a	12/3/58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5	4	
b	12/4/58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5	16	
c	12/5/58	0.0	Rejected	Rejected	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	5	40	
d	12/5/58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	6	68	
d	12/5/58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	6	4	
d	12/5/58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	6	16	
e	12/9/58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	6	37	
f	12/10/58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	7	20	
r	12/10/58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	7	49	
g	12/17/58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	7	64	
h	12/18/58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	7	20	
j	1/26/59	+0.6	+0.6	+0.6	+0.4	+0.4	+0.2	+0.2							1.8	8	20	
j	1/26/59	0.0	0.0	0.0	0.0	0.0	0.0	0.0							1.8	8	20	
k	1/30/59	0.0	0.0	0.0	0.0	0.0	0.0	0.0							2.0	8	3	
l	2/12/59	0.0	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected							2.0	8	22	
m	2/16/59	0.0	0.0	0.0	0.0	0.0	0.0	0.0							2.0	8	45	
n	3/3/59	0.0	0.0	0.0	0.0	0.0	0.0	0.0							2.2	9	30	
p	3/4/59	0.0	See r- #	0.0	For #	0.0	bar- #	check. #							2.4	9		
q	3/4/59	0.0	0.0	0.0	0.0	0.0	0.0	0.0							2.4	10		
r	3/4/59	0.0	0.0	0.0	0.0	0.0	0.0	0.0							2.4	10		
Ship SOSBEE																		
A	2/2/57				0.0				0.0						4.0	4	22	
B	3/18/57																	
C	2/25/59				9.0										4.0	4	31	

Velocity Correction Abstract  
 (Bar Check)  
 H-8361  
 Echo Recorder 140-SP & 150  
 (808J)  
 80-1157  
 Skiff - 735

Depths	3.0	4.0	5.0	Av.	8.0	10.0	Av.	15.0	20.0	Initial Set	Vol. No.	Page No.	Remarks
Day	Date												
a	1/16/57		0.0	0.0						0.6	8	6	
b	1/17/57		0.0	0.0		-0.2	-0.1			0.6	8	40	
b	1/17/57		0.0	0.0		0.0	0.0			0.6	8	69	
c	1/22/57		0.0	0.0		0.0	0.0	0.0		0.6	9	5	
d	1/23/57		0.0	0.0		0.0	0.0			0.6	9	34	
d	1/23/57		0.0	0.0		0.0	0.0			0.6	9	60	
e	1/24/57		0.0	0.0		0.0	0.0			0.6	10	5	
	Mean=			0.0			0.0	0.0					
f	No bar-check - shoal depth of water												
g	2.2 = 2.2 simultaneous pole/recorder comparison.												
h													
j													
k													
l													



**Sheet Index**

**CHARLOTTE HARBOR & VICINITY**  
**PROJECT CS-353**

**USCGS SHIP SOSBEE**  
**Robert C. Munson**  
**CHIEF OF PARTY**

REFER TO COGS CHART NO. 1333

NAUTICAL MILES

APPROVAL SHEET

H-8361            SO-1157

CHARLOTTE HARBOR

The Boat Sheet and Field Records are complete and therefore approved. The Field Work and Boat Sheet were inspected daily and the Chief of Party consulted with the hydrographers during the inspections.

The survey is complete and adequate and no additional work is recommended.

*Robert C. Munson*

Robert C. Munson,  
LT., C & G S  
Cdg. Ship SOSBEE.

NORFOLK PROCESSING OFFICE  
ADDENDUM  
To Accompany

HYDROGRAPHIC SURVEY H-8361 (So-1157)


GENERAL

This appears to be an excellent basic survey and no unusual conditions were encountered during the smooth plot.

Except for the minor shifting of shoals northwest of Cape Haze Shoal Daybeacon and the slough just off the shoreline at Cape Haze, soundings are in general agreement with the present chart.

Norfolk, Va.  
23 Nov. 1960

Respectfully submitted,

  
Hugh L. Proffitt  
Cartographer



OFFICE OF CARTOGRAPHY

REVIEW SECTION -- NAUTICAL CHART DIVISION

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H.-8361

FIELD NO. SO-1157

Florida, West Coast, Charlotte Harbor

SURVEYED: Jan. 1957-June 1959

SCALE: 1:10,000

PROJECT NO. GS-353

SOUNDINGS: EDO Depth Recorder  
808 Depth Recorder  
Sounding Pole

CONTROL: Sextant fixes  
on shore signals

Chief of Party ----- W. D. Barbee; M, J. Tonkel;  
R. C. Munson  
Surveyed by ----- G. N. Orr; W. D. Barbee; R. C. Munson  
Protracted by ----- D. C. Davenport  
Soundings plotted by ----- D. C. Davenport  
Verified and inked by ----- G. F. Merrill  
Reviewed by ----- E. E. Thomas  
Inspected by ----- R. H. Carstens

DATE: 7-28-61

1. Description of the Area

This survey is located in the eastern portion of Charlotte Harbor, eastward of Cape Haze.

The bottom is generally smooth and slopes gradually from shore to a natural deep of 13-to20-ft. depths. An exception to this is an area southeasterly of Cape Haze where a shoal outlined by the 6-ft. curve extends 1.6 miles offshore. Portions of this area are accented by depths as shoal as 1/2-2 ft. The eastern portion of the survey is characterized by alongshore flats covered by 1 ft. or less, which extend approximately 450 meters offshore of the high-water line.

## 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-11393 and T-11396 of 1953-55; T-11397 and T-11399 of 1953-58; and T-11400 of 1953-59.

Minor revisions determined by the hydrographer are shown in red.

## 3. Hydrography

a. Depths at the crossings are in good agreement.

b. The usual depth curves are adequately delineated, except for minor portions of the low-water curve.

c. The 3-ft. curve was added to accentuate the many shoal features which characterize portions of the bottom.

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.

## 5. Junctions

An adequate junction was effected with H-8194(1956-57) on the west and southwest, H-8360(1956-59) on the north, and H-8193(1956) on the west near Cape Haze. The junction with unverified survey H-8470(1959) on the north will be discussed in the review of that survey.

6. Comparison with Prior Surveys

a. 797b (1867)1:20,000

The few soundings on this early survey which fall within the area of the present survey afford no adequate basis for comparison. The detailed information from the present survey is considered adequate to supersede this prior survey in the common area.

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

This survey represents the basic prior coverage of the area for comparison with the present survey. A comparison reveals minor differences which are attributed to differences in survey methods and to changes in the bottom by natural causes.

The shoal extending southeastward from Cape Haze has generally deepened by as much as 3 ft. since the prior survey. The small islet at lat.  $26^{\circ}47.0'$ , long.  $82^{\circ}08.9'$  on H-1388a(1878) has eroded to depths as great as 1/2 ft. on the present survey. However, in this immediate vicinity the area covered by depths of 2 ft. on the prior survey has undergone accretion and is awash at mean low water on the present survey.

The alongshore area of the eastern portion of the bay has also undergone accretion. In some instances prior depths of 2 ft. are now awash at MLW.

The present survey is considered adequate to supersede this 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, supplemented by partial application of the present survey through the boat sheet (BP-59449).

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

b. Aids to Navigation

1. The fixed aids from the present survey are in substantial agreement with the charted positions and adequately mark the features intended, except Charlotte Harbor Daybeacon "5". The charted position should be changed to lat.  $26^{\circ}45.18'$ , long.  $82^{\circ}08.19'$  (see item 7, par. "C" of the review for H-8194).

8. Compliance with instructions

The 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

*Marvin T. Paulson*

Assistant Director,  
Office of Cartography

*J. T. Jarman*

Projects Officer,  
Operations Division

*Eugene W. Richards*

Assistant Director,  
Office of Oceanography

*Max B. Roberts*

GEOGRAPHIC NAMES  
Survey No. 8361

Name on Survey	1255										
	A	B	C	D	E	F	G	H	K		
Cape Haze	✓										1
Charlotte Harbor	✓										2
Cotton Key	✓										3
Key Point	✓										4
											5
											6
											7
											8
											9
											10
											11
											12
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											27

*George S. Ball*  
*Geographic Names*  
*12/16/60*

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. 8361

Records accompanying survey: Smooth sheets .1...;  
 boat sheets 1...; sounding vols. 12...; wire drag vols. ....;  
 Descriptive Reports .1...; graphic recorder envelopes .15...;  
 special reports, etc. ....  
 .....

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

Number of positions on sheet	.....	<u>2808</u>
Number of positions checked	.....	<u>84</u>
Number of positions revised	.....	<u>0</u>
Number of soundings revised (refers to depth only)	.....	<u>307</u> *
Number of soundings erroneously spaced	.....	<u>5</u>
Number of signals erroneously plotted or transferred	.....	<u>1</u>
Topographic details	Time	<u>1 hr</u>
Junctions	Time	<u>4 hr</u>
Verification of soundings from graphic record	Time	<u>3</u>
Special adjustments	Time	<u>0</u>

Verification by George F. Merrill..... Total time 103..... Date 6-14-61

Reviewed by E. E. Thomas..... Time 20..... Date 7/28/61

\* Minor changes to smooth curves and bring agreement at crossings

RHC

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~DIVISION OF COASTAL SURVEYS~~

11 January 1961

Division of Charts: R.H. Carstens

Plane of reference approved in  
12 volumes of sounding records for

HYDROGRAPHIC SHEET 8361

Locality Cape Haze, Charlotte Harbor, Florida

Chief of Party: R.C. Munson (1959)

Plane of reference is mean low water reading.

1.7 ft. on tide staff at Port Boca Grande, Fla. (1957)

6.8 ft. below B. M. 1 (1927)

2.3 ft. on tide staff at Port Boca Grande, Fla. (1958 & 1959 )

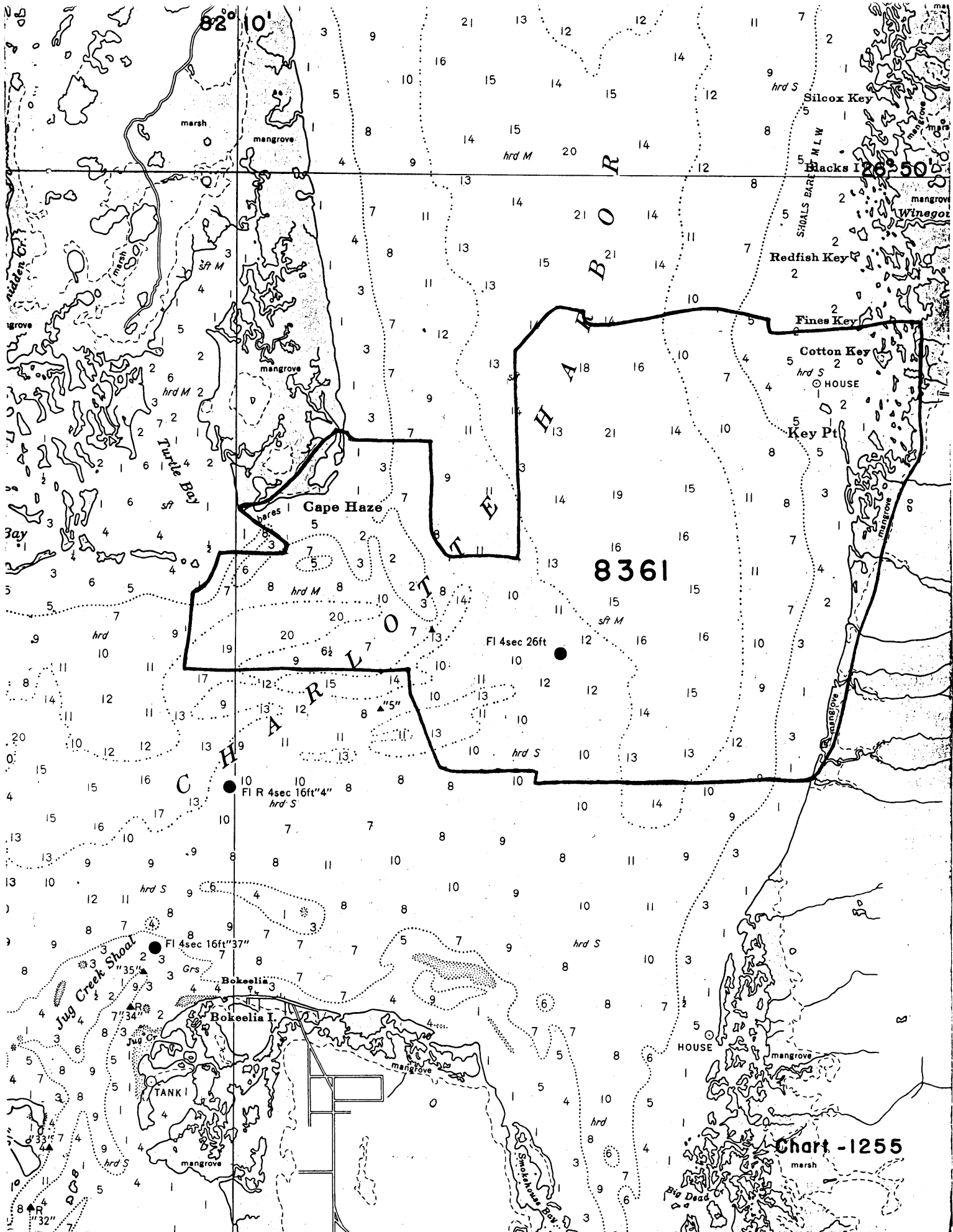
Height of mean high water above plane of reference is: 1.0 ft.

Condition of records satisfactory except as noted below:

*J. M. Symons*

Acting Chief, Tides & Currents Branch

~~Chief, Division of Tides and Currents~~



8361

Chart -1255

82° 10'

26° 50'

Cape Haze

H A Z E

C H A Z E

Silcox Key

Winegar

Redfish Key

Fines Key

Cotton Key

Key Pt

Bokaelia I.

TANK I

HOUSE

marsh

marsh

mangrove

mangrove

mangrove

mangrove

HOUSE

mangrove

Turtle Bay

3ay

Jug Creek Shoal

32"

Fl 4sec 26ft

Fl R 4sec 16ft 4"

Fl 4sec 16ft 37"

32"

32"

32"



# NAUTICAL CHARTS BRANCH

SURVEY NO. H-8361

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
1 Mar 61	1255	Nichols	Before <del>After</del> Verification and Review <i>Critical corr. only</i>
5 July 61	474	"	Before <del>After</del> Verification and Review <i>Critical corr. only</i>
8 Feb 62	856A	Nichols	<del>Before</del> After Verification and Review <i>Complete</i>
20 Apr 62	1255	"	<del>Before</del> After Verification and Review <i>Thru 856A, above</i> Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			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.