

8358

Diag. Cht. No. 1255-2.

Form 504

U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. S0-1-1056 Office No. H-8358

LOCALITY

State Florida

General locality West Coast

Locality Boca Grande Channel

1956-57

CHIEF OF PARTY

W. D. BARBEE

LIBRARY & ARCHIVES

DATE Dec. 2, 1958

B-1870-1 (1)

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-8358

Field No. SO-1-1056

State Florida

General locality West Coast

Locality Boca Grande Channel

Scale 1:10,000 Date of survey 1956-57

Instructions dated 18 December 1952

Vessel SOSBEE

Chief of party Glenn W. Moore, William D. Barbee

Surveyed by LT William D. Barbee

Soundings taken by ~~fathometer~~ graphic recorder, hand lead, etc

Fathograms scaled by Personnel, Ship SOSBEE

Fathograms checked by " " " & Norfolk District Office

Protracted by Fred Bean

Soundings penciled by Fred Bean

Soundings in ~~fathoms~~ feet at MLW ~~XXXXX~~ are true depths

REMARKS: All corrections have been entered and checked by

personnel of Ship SOSBEE

*Handwritten initials*

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SURVEY NO. H-8358 (Field No. SO-1-1056)  
West Coast of Florida 13 Aug. 56 to 9 Apr. 1957  
Boca Grande Channel Scale 1:10,000  
USC&GS Ship SOSBEE Glenn W. Moore  
William D. Barbee, Ch. of Party

A. PROJECT:

This sheet is part of Project 13530 (originally CS-353) with original instructions dated 18 December 1952. Also applicable is Acting Director's letter 22/MEK, S-2-SO, dated 25 April 1955 which amends instructions on tides.

B. SURVEY LIMITS AND DATES:

This survey covers the entrance channel to Boca Grande Pass. The eastern limit is Gasparilla Island, a line in the Pass between Gasparilla and La Costa Islands, and La Costa Island. The survey extends about  $3\frac{1}{2}$  miles west of Boca Grande Pass at its westernmost limit. Junctions are made on the east with contemporary survey SO-1256 (H-8194), and on the north, west, and south with SO-2156 (H-8196). The portion of SO-2156 south of this sheet has not been done. *not registered - eff. 1/59*

Work commenced on 13 August 1956 and was concluded on 9 April 1957. No work was done in September, October or November, while the party was engaged in shore hydrography. SO-1256 was worked concurrently with this sheet. (H-8194 [1956])

C. VESSELS AND EQUIPMENT:

Soundings were from 25 foot wooden skiff No. 735, and the Ship SOSBEE. Skiff 735, powered by two ten horsepower outboard motors has a maximum speed of about six knots, and a turning radius of about 25 meters. The SOSBEE has a maximum speed of about  $8\frac{1}{2}$  knots, and a turning radius of about 110 meters. All work was from the SOSBEE, anchored in Charlotte Harbor near Boca Grande Entrance.

Where ever possible, soundings from the skiff were by 808J type portable fathometer number 140SP or 1158. In shoal depths -- generally three feet and less -- soundings were obtained by a pole graduated in feet. The method of soundings is indicated in the volumes. Soundings from the SOSBEE were by MDO model 255 fathometer number 209.

## D. TIDE AND CURRENT STATIONS:

A portable tide gage was established and operated at Port Boca Grande. The entire sheet is reduced to this gage, with no time or range corrections. ✓

Instructions for this project called for a current station in Boca Grande Pass. It was not occupied. |

## E. SMOOTH SHEET:

The smooth sheet will be plotted by the Norfolk Processing Office. It can be 36" x 54", with same center as the boat sheet. ✓

## F. CONTROL STATIONS:

The six triangulation stations used for control were located either in 1934, or by Tampa District Office personnel in 1955. The greater part of the control was located by Photogrammetric methods on sheets T-11398, T-11395 and T-11402, of 1953-55. ✓

<sup>One</sup> Two stations <sup>was</sup> were located by hydrographic methods, and in <sup>this</sup> one case (signal Lip) it was necessary to locate a buoy by three-point fix, and use it as a signal. In all instances when this signal was used, checks were made on its position before and after the work, and at any time when it was thought that a change in wind or current might alter the buoy's position. The signal was of sufficient accuracy for control. ✓

A copy of the list of signals and their origins is appended. ✓

## G. SHORELINE AND TOPOGRAPHY:

Shoreline and topography are from <sup>advance</sup> shoreline manuscripts T-11398 and T-11402, (A 1953-55 scripts) (See Verif. Rpt. June 27) ✓

No changes in the shoreline were made by the hydrographer. ✓

## H. SOUNDINGS:

Soundings were obtained with model 808-J portable depth recorders number 140SP and 1158, and EDO model 255, number 209, except for soundings too shoal to indicate on the fathometer. For these shoal soundings, a pole graduated in feet was used. ✓

No unusual corrections were applied to 808 or pole soundings. A velocity correction was applied to EDO soundings. Since there was a limited amount of EDO work on this sheet, and only two bar checks, the correction was determined from all EDO bar checks on sheets 80-1256, 2156, 2256, and 2356. Abstracts of bar checks and the resultant velocity correction curve are appended. ✓

H-8194(1956)

H-8196(1956)

## I. CONTROL OF HYDROGRAPHY:

Hydrography was controlled almost entirely by sextant three-point fixes. In a few instances on the extreme inshore ends of lines, positions were estimated from shoreline detail, etc. These estimated positions are marked SBS (for see boat sheet) in the sounding volumes.

## J. ADEQUACY OF SURVEY:

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

Junctions with contemporary surveys on the west, north and east are adequate. The work to the south of this sheet was not undertaken. There are no holidays at junctions, or within the sheet. It was not practicable to develop the MLW line on this sheet, due to steep slopes on the beaches and a small tide range. All other depth curves can be drawn.

## K. CROSSLINES:

Crosslines constituting 6% of the total hydrography were run.

Checks at crossings were good -- no appreciable discrepancies were noted.

## L. COMPARISON WITH PRIOR SURVEYS:

Comparison was made with old survey H-4645, scale 1:10,000, dated 1927. With the exception of the following discrepancies, the two surveys are compatible. In all parts of the survey minor changes have occurred, but except as noted, these changes do not warrant discussion.

1. The southwest tip of Gasparilla Island has been cut away by natural forces about 80 meters, and the small natural channel just offshore to the west has shifted in a like manner.
2. The delineation of the long shoal north of the shipping channel has changed considerably. This would indicate that the shoal shifts considerably with the more violent storms in the area. However the present survey was interrupted by 4 months, and covered, in all 6 months, during which period several severe storms struck the area. Since no change was detected on the shoal during that period, it is believed that the shoal is reasonably stable.
3. The northwest tip of La Costa Island has been cut away by over 100 meters, and there has been a related change in the adjacent bottom configuration.

## L. COMPARISON WITH PRIOR SURVEYS: Cont.

4. The bar in latitude  $26^{\circ} 42.6'$ , longitude  $82^{\circ} 15.4'$  has receded about 100 meters to the southwest. No portion of the bar now bares at MLW. ✓
5. Dredging in the ship channel under the direction of the Corps of Engineers has changed depths as expected. ✓
6. H-4645 shows boiler ruins with a least depth of 4 feet in general depths of 8 feet in latitude  $26^{\circ} 41.75'$ , longitude  $82^{\circ} 18.8'$ . In the present survey a least depth of 9 feet was found in general depths of 13 feet. ✓

In all of the above listed cases, it is recommended that the present survey be accepted. *Concur.* ✓

## M. COMPARISON WITH CHART:

Coast Survey charts 1255, 1:80,000, and 474, 1:40,000 cover the area of this survey. This report covers a comparison with a copy of 474, print date 4-6-53.

In the area of this survey, all discrepancies noted in paragraph L apply to a comparison with this chart. ✓

The reported obstruction shown on the chart in latitude  $26^{\circ} 42.9'$ , longitude  $82^{\circ} 15.8'$  was not found. (This obstruction was noted in the preliminary review dated 11 December 1952). It is recommended that this reported obstruction be deleted from the chart. *Review Item 6* ✓

On 10 September 1956, CDR. Glenn W. Moore, Chief of Party came to anchor with the SOSBEE in latitude  $26^{\circ} 44.4'$ , longitude  $82^{\circ} 16.0'$  (fix from SO-1-1056, BOC  $98^{\circ} 12'$ , WAT  $45^{\circ} 08'$ , WIG; check angle WAT-YES  $48^{\circ} 50'$ ) over a 5 foot shoal shown on chart 474. ✓ The tide was at MLW, depth recorded 12 feet. CDR. Moore climbed the mast, and looked for colored water, or any shoal indication. There was enough sea that a 5 foot shoal in 12 foot average depth would break. No shoal indications were seen. *Review Item 8*

It is recommended that the 5 foot spot be deleted from the chart. *Concur.*

## N. DANGERS AND SHOALS:

As discussed in paragraph L, some shoals and dangers within this area have shifted. Reasonable caution in piloting, even with the present chart should assure safety, however. ✓

About  $2\frac{1}{2}$  hours of drifting and running patterns around a marker buoy was spent in searching for the obstruction reported in latitude  $26^{\circ} 42.9'$ , longitude  $82^{\circ} 15.8'$  (H O Notice 52, 1949). No obstruction was found, and it is recommended that it be deleted from the chart. (See also paragraph M.). *Concur.* ✓

Except as mentioned in paragraphs L, M, and N charted dangers were found as charted. ✓

## O. COAST PILOT INFORMATION:

A special coast pilot report will be submitted by this party to cover this area. Only one item is covered by this report.

The swash channel (line 23, p. 216 USCP, Gulf Coast) is not recommended without local knowledge.

## P. AIDS TO NAVIGATION:

All fixed aids to navigation within the limits of this chart were reported on Form 567 on 21 December 1955, by the Tampa CL 7(956) Photo Office, H. C. Applequist, Chief of Party.

The positions of these aids were checked during hydrography, and Form 567 will not be re-submitted by this party. ✓

The charted position of Charlotte Harbor Channel Inner Range Rear Daybeacon is not correct. (See Form 567 for correct position. (See Verifiers Rpt Item 36) ✓

Floating aids to navigation are as follows:

NAME	Position	Depth	Position Number	Date Located
CHARLOTTE HARBOR CHANNEL LIGHTED BUOY 3	26° 41. <sup>18</sup> 2 <sup>1</sup> ✓ 82° 18.5 <sup>3</sup> ✓	27 ft.	18d	27 Aug. 1956 <sup>OLIP</sup>
CHARLOTTE HARBOR CHANNEL BUOY 4	26° 41. <sup>13</sup> 1 <sup>1</sup> ✓ 82° 18.5 <sup>48</sup> ✓	27 <sup>8</sup> ft.	75g	30 Jan. 1957
CHARLOTTE HARBOR CHANNEL LIGHTED BUOY 5	26° 41. <sup>79</sup> 8 <sup>1</sup> ✓ 82° 18. <sup>05</sup> 1 <sup>1</sup> ✓	30 ft.	63g	30 Jan. 1957
CHARLOTTE HARBOR CHANNEL LIGHTED BELL BUOY 6	26° 41. <sup>74</sup> 8 <sup>1</sup> ✓ 82° 18. <sup>77.98</sup> 0 <sup>1</sup> ✓ <sup>2</sup>	21 ft.	62g	30 Jan. 1957
CHARLOTTE HARBOR CHANNEL LIGHTED BUOY 8	26° 42. <sup>41.98</sup> 0 <sup>1</sup> ✓ 82° 17.6 <sup>6</sup> 5 <sup>1</sup> ✓	32 ft.	61g	30 Jan. 1957
CHARLOTTE HARBOR CHANNEL LIGHTED GONG BUOY 10	26° 42. <sup>18</sup> 2 <sup>1</sup> ✓ 82° 17. <sup>18</sup> 2 <sup>1</sup> ✓	45 ft.	114g	30 Jan. 1957

The azimuths of navigation ranges are as follows:

Name	Azimuth	Source
CHARLOTTE HARBOR CHANNEL OUTER	35° 50' T. ✓	Tampa Dist. Office (Trian.) ✓
CHARLOTTE HARBOR CHANNEL INNER	246° <sup>40'</sup> 29' T. ✓	T-11398 <del>Hydro position 157A.</del>

## P. AIDS TO NAVIGATION: Cont.

There are no bridges or overhead cables or lines within this sheet.

A submerged cable across Boca Grande Pass (latitude  $26^{\circ} 43'$ , longitude  $82^{\circ} 15.6'$  to latitude  $26^{\circ} 42.4'$ , longitude  $82^{\circ} 15.3'$ ) is shown on the sheet. 43.06'

## Q. LANDMARKS FOR CHARTS:

Form 567, LANDMARKS FOR CHARTS was submitted in June 1956 by the Tampa District Office. This party concurs with that selection of landmarks. No additions to the form are needed, and so Form 567 will not be submitted by this party. CL 484,  
1956

## R. GEOGRAPHIC NAMES:

In accordance with paragraph 44 of the Instructions, Investigation of Geographic Names was not conducted.

No discrepancies with established names were noted.

## S - T:

None.

## U. RECOMMENDATIONS FOR CHARTING:

It is recommended that the 3 foot curve be charted.

## Z. TABULATION OF APPLICABLE DATA:

1. Form 567, NON-FLOATING AIDS FOR CHARTS (by Tampa District Office 21 December 1955).
2. Form 567, LANDMARKS FOR CHARTS (by Tampa District Office June 1956).
3. Topo sheets T-11395  
T-11398  
T-11402

## ATTACHMENTS:

1. Statistics
2. Tide Note
3. List of Signals
4. Index of Sheets
5. Approval Sheet
6. Velocity curve & data.

Respectfully Submitted,

*William D. Barbee*  
William D. Barbee,  
LT., C & G S



STATISTICS

For Hydrographic Survey H-8358

Field Number SO-1-1056

Project 13530

Volume Number	Day Letter	Date	Pole Sndgs	No of Positions	Statute Miles of Soundings
Skiff 735					
1	a	13 Aug 56	0	102	23.1
1	b	20 Aug	0	21	4.6
1	c	23 Aug	0	148	34.6
2	d	27 Aug	0	68	14.5
2	e	30 Aug	56	132	27.8
2 & 3	f	29 Jan 57	1	200	50.4
3	g	30 Jan	35	141	30.2
4	h	20 Mar	1	70	8.6
4	j	9 Apr	<u>3</u>	<u>12</u>	<u>2.3</u>
TOTALS			96	894	<del>196.1</del> 201
AREA IN SKIFF: <u>5.8</u> Sq. stat. miles					
Ship SOSBEE					
5	A	31 Jan 57	0	166	58.5
Area IN SOSBEE: 1.6 Sq. stat. miles					
<del>XXXX</del> GRAND TOTALS					259
			<u>96</u>	<u>1060</u>	<u>254.6</u>
AREA: <u>7.4</u> Sq. Stat. miles					

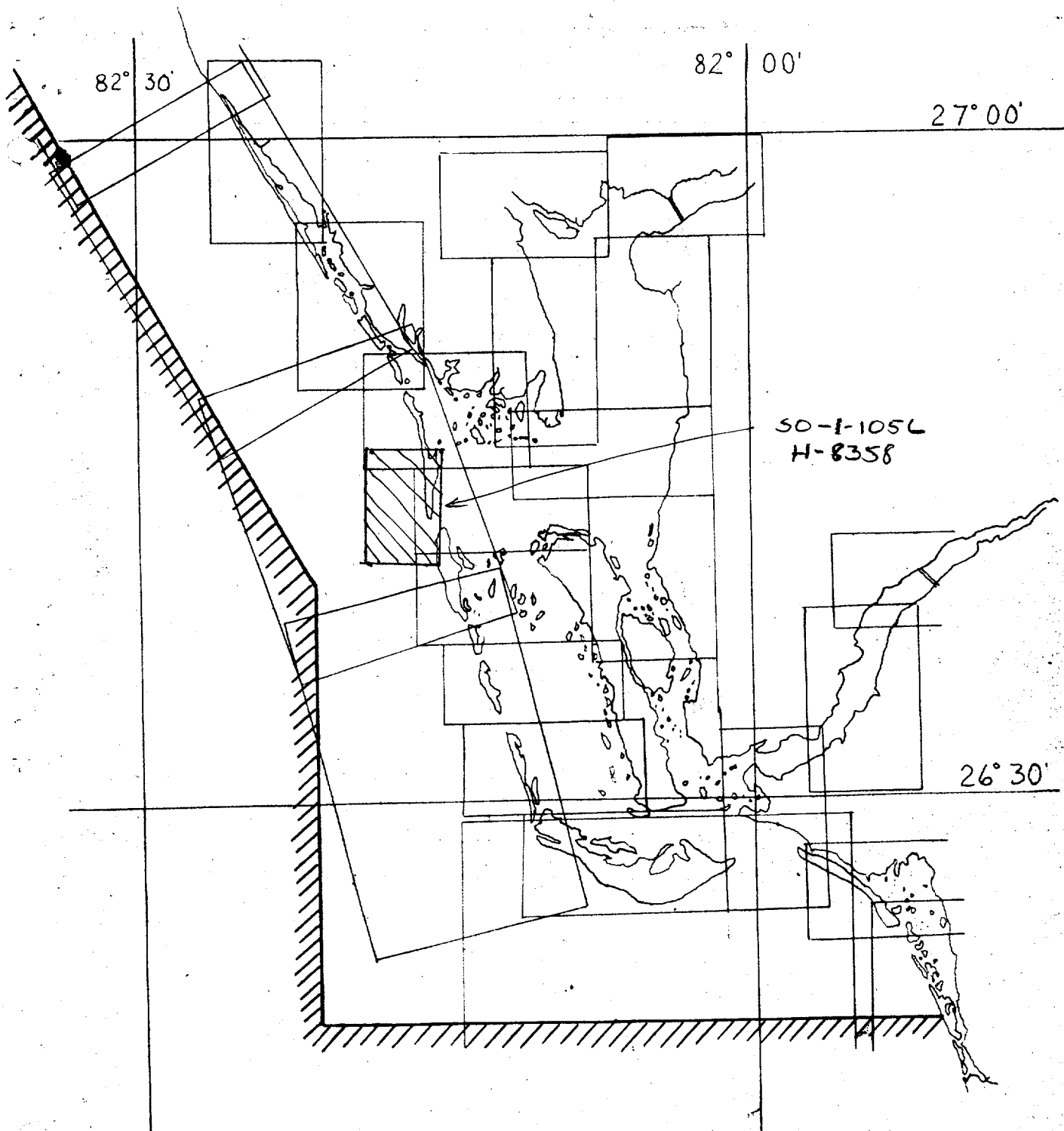
TIDE NOTE

Soundings were reduced to MLW on the portable tide gage established at Port Boca Grande, Florida, in latitude  $26^{\circ} 43.23^{\prime}$ , longitude  $82^{\circ} 15.66^{\prime}$ . Mean low water corresponds to a reading of 1.7 feet on the staff. No time or range corrections were applied. *Pos. falls on land - smooth plotted on small pier*

LIST OF SIGNALS

SO-1-1056 (H358)

Name	No.	T-sheet	Remarks
And			△SOUTH BOCA GRANDE LIGHTHOUSE, 1934
Abe	9811	11398	
Bag	9812	11398	
Bat	9810	11398	
Bed	9545	11395	
Boc			△BOCA GRANDE LIGHTHOUSE, 1934
Car	9822	11398	
Cat	9823	11398	
Cop	9801	11398	
Cul		11398	{ Hydro, Volume 1, page 11 (Corps of Engineers piling) Topo pos. used on Smooth Sheet -- check angle questionable on hydro fix. No appreciable shift in hydrography, crossings ok using topo pos.
Doc	9803	11398	
Dot	9815	11398	
Ear	9802	11398	
Eat	9825	11398	
Egg	0207	11402	
Far	9826	11398	
Gin	9804	11398	
Hug	9805	11398	
Ion	9806	11398	
Joy	9807	11398	
Kid	9808	11398	
Lag	0205	11402	
Lip			Hydro, Volume 2, page 8 (Buoy No 3)
Mal	9809	11398	(Sampling Tower)
Sam		11398	
Tan			△BOCA GRANDE GASPARILLI INN WATER TANK TALLER OF TWO, 1955
Vet	9522	11395	
* Wat			△PORT BOCA GRANDE WATER TANK, <sup>1955</sup> <del>1934</del>
Wig			△BOCA GRANDE RANGE FRONT LIGHT, 1955
Yes			△CHARLOTTE HARBOR INNER CHANNEL DIRECTIONAL LT, 1955 (Charlotte Harbor Inner Range Daybeacon)
Zag		11398	
Zip	9824	11398	
Zig	9524	11395	
* Wag	9523	11395	



**INDEX OF SHEETS**

**PROJECT CS-353**


**(Southern Part)**

ABSTRACT OF BAR CHECKS  
FOR VELOCITY CORRECTION  
EDO FATHOMETER  
SHIP SOSBEE  
SO-1256

Date	DEPTH									
	5	10	15	20	25	30	35	40	45	50
1956										
<del>5-3</del>		0								
<del>5-11</del>		0								
<del>5-12</del>										
6-21		0	0	0	0					
		0	0	0						
8-10		0								
		0	0							
8-16		0								
		0								
8-17		0								
		0								
8-21		0	0							
8-22		0		0						
8-30		0	0							
1957										
3-13		0	+0.2	+0.2	+0.2	+0.2				
3-14		+0.2	+0.2	+0.2	+0.2	+0.4				
		0	+0.2	+0.2	+0.2	+0.2				
3-15		0	0	0	+0.2	+0.6				
3-18		0	0	0						
TOTALS		+0.2	+0.6	+0.6	+0.8	+1.4				
MEANS		0	+0.1	+0.1	+0.2	+0.4				
Mean Corr. from SO-2156					+0.9	+1.2	+1.2	+1.6	+1.9	
Mean Corr. from SO-2256					+0.8	+1.1	+1.1	+1.2		
Mean Corr. from SO-2356					+0.7	+1.0	+1.1	+1.4		
Mean values used on SO-1256 & SO-1-1056		0	+0.1	+0.1	+0.2	+0.7	+1.1	+1.1	+1.4	+1.9

Approval Sheet H-8358 (SO-1-1056)

All hydrography was done with the undersigned as officer-in-charge. The survey is complete and adequate. No additional work is needed. The records will be sent to the NORFOLK PROCESSING OFFICE for smooth plotting.

  
William D. Barbee  
LT C&GS  
Comdg. Ship SOSBEE

GEOGRAPHIC NAMES  
 Survey No. H-8358

Name on Survey	On Chart No.		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	
	A	B	C	D	E	F	G	H	K		
<u>Florida</u>				(for title)						BGN	1
<u>West Coast</u>				( " " )							2
<u>Boca Grande Channel</u>				( " " )							3
<u>Iacosta Island</u>										BGN	4
<u>Boca Grande</u>				(pass or inlet)							5
<u>Port Boca Grande</u>				(village, railway terminus)							6
<u>Gasparilla Island</u>				(tide station)							7
<u>Boca Grande</u>				(town)							8
											9
											10
											11
											12
											13
											14
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											22
											23
											24
											25
											26
											27
											M 234

Names approved 12-12-58  
 L. HECK

NORFOLK PROCESSING OFFICE  
ADDENDUM  
To Accompany

HYDROGRAPHIC SURVEY H-8358 (Field No. So-1-1056)

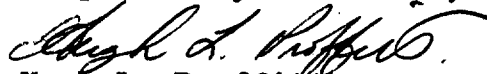
GENERAL

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

Soundings are in generally good agreement in this area of irregular bottom.

Norfolk, Va.  
24 Nov. 1958

Respectfully submitted,



Hugh L. Proffitt  
Cartographer



Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ..8358...

Records accompanying survey:

Boat sheets .1...; sounding vols. .5...; wire drag vols. ....;  
 bomb vols. ....; graphic recorder rolls 7-Envelopes  
 special reports, etc. 1-Smooth sheet and 1-Descriptive report.  
 .....

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

Number of positions on sheet	.....	1060
Number of positions checked	.....	97
Number of positions revised	.....	2
Number of soundings revised (refers to depth only)	.....	0
Number of soundings erroneously spaced	.....	16
Number of signals erroneously plotted or transferred	.....	0
Topographic details	Time	.....4
Junctions	Time	.....0
Verification of soundings from graphic record	Time	.....2

Verification by *J. L. Chamberlain* ..... Total time .88... Date ..6-26-59

Reviewed by *J. L. Chamberlain* ..... Time .....20 Date ..8/6/59

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8358

FIELD NO. SO-1-1056

West Coast of Florida, Boca Grande Channel

Surveyed: Aug. 1956 - April 1957      Scale 1:10,000

Project No. CS353

Soundings: Depth Recorder (808, Edo)      Control: Sextant angles on  
Pole      shore signals

Chief of Party----- G. W. Moore, W. D. Barbee  
Surveyed by ----- W. D. Barbee  
Protracted by ----- Fred Bean (Norfolk P. O.)  
Soundings plotted by ----- Fred Bean  
Verified and inked by ----- J. C. Chambers  
Reviewed by ----- L. V. Evans III      Date: 8/6/59  
Inspected by ----- R. H. Carstens

1. Shoreline and Control

The sources of shoreline and control are listed in the Descriptive Report.

2. Sounding Line Crossings

Depths are in adequate agreement at crossings.

3. Depth Curves and Bottom Configuration

The depth curves are adequately defined except in the vicinity of lat. 26°45', long. 82°15.8' where long groins prevented running lines closer than 80-100 m. from the mean high water line.

This survey covers a large part of the entrance bar off Boca Grande. The area of the bar is quite irregular, with rather steep slopes along the sides of the entrance channel.

4. Junctions with Contemporary Surveys

The junctions with H-8194 (1956) to the east and with H-8196 (1956) to the south, west and north will be considered in the reviews of those surveys.

5. Comparison with Prior SurveysA. H-797a (1863) 1:40,000H-1477a (1879-95) 1:40,000

A comparison between the present and these prior surveys reveals considerable change in position of the outer part of the entrance bar. The change is exemplified by the shifting of the shoal on the north side of the entrance channel. The inner end of that shoal has been held more or less fixed by the current through Boca Grande, but from that hinge point the shoal has pivoted southward so that its outer end is now about  $\frac{1}{2}$  mile south of its location on the 1863 survey. The resulting deflection of the channel has caused erosion along the northern side of the bar south of the entrance channel.

The 5-ft sounding charted in lat.  $26^{\circ}44.4'$ , long.  $82^{\circ}16.04'$  from H-797a, is discredited by the present hydrography and the investigation noted in section M of the Descriptive Report. The sounding should be disregarded.

The present survey is adequate to supersede these prior surveys in the common areas.

B. H-4644 (1927) 1:20,000H-4645 (1927) 1:10,000

The migration of the entrance bar, discussed in the preceding section, has been retarded by the maintenance dredging which has held the entrance channel fixed through the period from the 1927 surveys to the present. A comparison between the present and these prior surveys reveals only localized, minor shifting of the bottom. The following examples show the varied shoaling and deepening that have occurred:

<u>Prior Depth</u>	<u>Lat.</u>	<u>Long.</u>	<u>Present Depth</u>
13-15 ft.	$26^{\circ}41.15'$	$82^{\circ}18.85'$	9 ft.
16-17	$26^{\circ}41.4'$	$82^{\circ}18.9'$	6
17-18	$26^{\circ}41.6'$	$82^{\circ}17.9'$	20-22
5-6	$26^{\circ}42.05'$	$82^{\circ}18.2'$	10-11
8	$26^{\circ}42.45'$	$82^{\circ}17.1'$	2
8	$26^{\circ}43.16'$	$82^{\circ}16.08'$	3

Additional items of comparison are covered in section L of the Descriptive Report.

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

6. Comparison with Chart 474 (print of 3/10/58)A. Hydrography

The charted hydrography originates largely with the previously discussed prior surveys. A number of the more important soundings have been charted from the boat sheet (Bp 55427) of the present survey. In general, only minor changes have been made to those soundings on the final smooth sheet.

Attention is called to the following:

- (1) The 6-ft sounding charted in lat.  $26^{\circ}41.56'$ , long.  $82^{\circ}18.8'$  from the boat sheet was recorded in error and should be disregarded. In scanning the fathogram the actual sounding of "11" was entered in the record as "7".
- (2) The reported obstruction charted in lat.  $26^{\circ}42.9'$ , long.  $82^{\circ}15.8'$  from H.O.N. to M. 52, 1949, was not found in a  $2\frac{1}{2}$ -hour intensive investigation. It should be deleted from the charts as recommended by the hydrographer (sections M and N of the Descriptive Report).

The present survey is considered adequate to supersede the charted hydrography except for information subsequent to the time of this field work, in the area covered.

B. Controlling Depths

The charted controlling depths in Boca Grande channel originate with Corps of Engineers surveys subsequent to, and therefore superseding, the present survey.

C. Aids to Navigation

Charlotte Harbor Channel Inner Range Rear Daybeacon is charted (Lat.  $26^{\circ}41.74'$ , long.  $82^{\circ}18.4'$ ) about 750 M. ENE of its survey position. The charted position originated with H.O.N. to M. 47, 1953, wherein the position was reported after rebuilding the beacon. The beacon was located by the photogrammetric survey (field inspection in 1955) and confirmed by the present hydrographic survey. This beacon should be revised on the charts to conform to the survey location.

The other aids, both fixed and floating, are charted in substantial agreement with their survey positions and appear to serve their intended purpose.

7. Condition of Survey

- A. The field records are complete and comprehensive.
- B. The smooth plotting was well done except for the omission of course lines connecting the fixes.

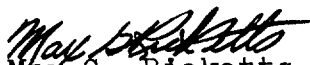
8. Compliance with Project Instructions

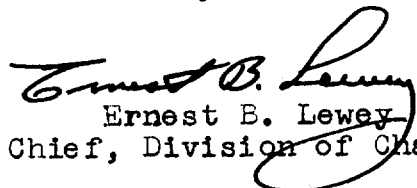
This survey adequately complies with the project instructions.

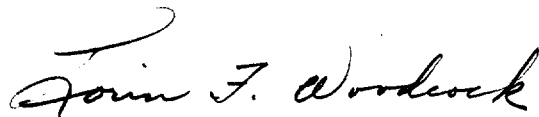
9. Additional Field Work Recommended

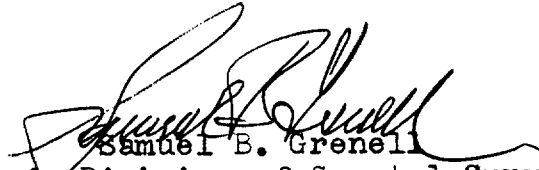
This is a good, basic survey and no additional field work is recommended.

Examined and approved:

  
Max G. Ricketts  
Chief, Nautical Chart Branch

  
Ernest B. Lewey  
Chief, Division of Charts

  
Lorin F. Woodcock  
Chief, Hydrography Branch

  
Samuel B. Grenell  
Chief, Division of Coastal Surveys

RAC

TIDE NOTE FOR HYDROGRAPHIC SHEET

Chart Division: R. H. Carstens

9 January 1959

Plane of reference approved in  
5 volumes of sounding records for

HYDROGRAPHIC SHEET 8358

Locality Boca Grande Channel, Florida

Chief of Party: W. D. Barbee in 1956-1957

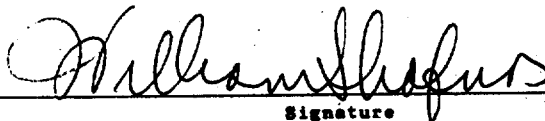
Plane of reference is mean low water, reading

1.7ft. on tide staff at Port Boca Grande

5.7ft. below B.M. 3 (1927)

Height of mean high water above plane of reference is 1.0 foot.

Condition of records satisfactory except as noted below:



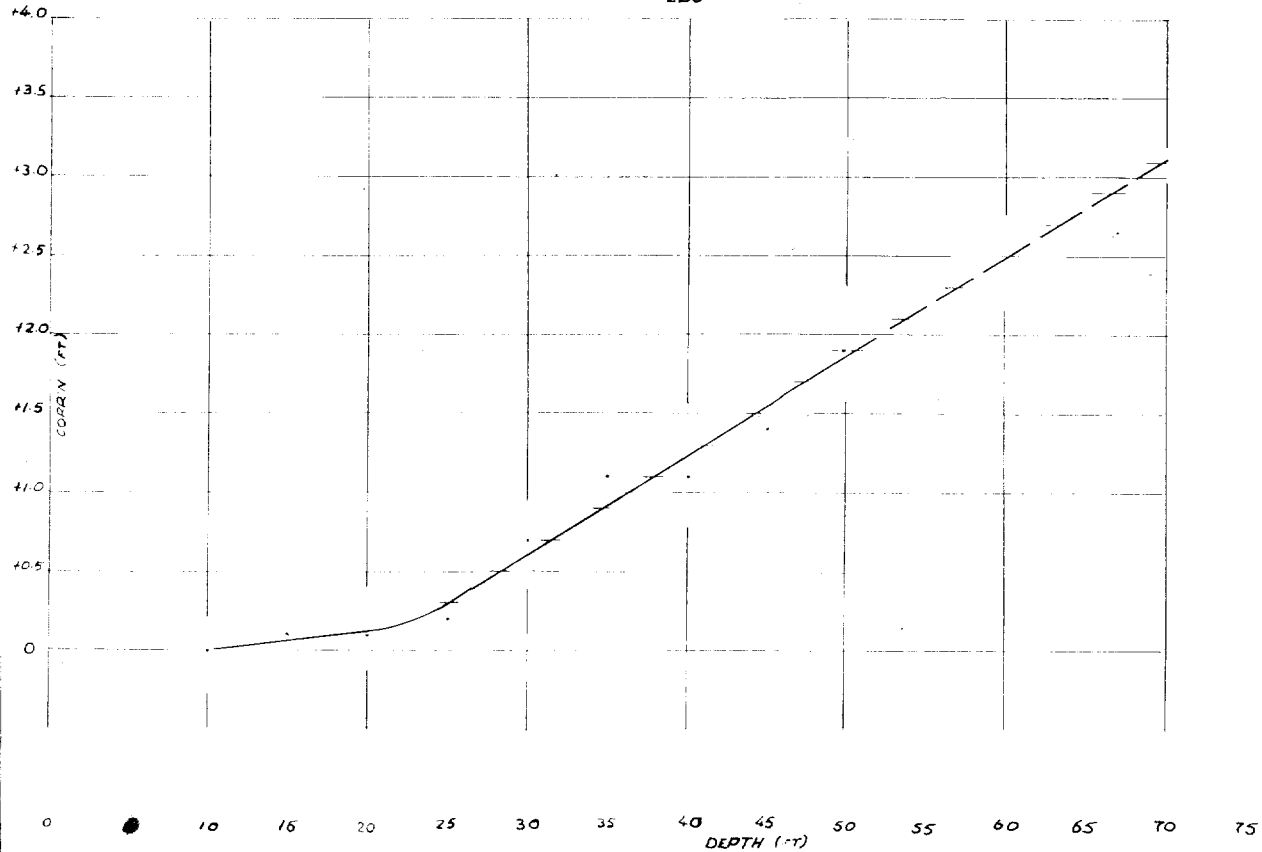
Signature

Chief, Tides Branch

CURVE FOR VELOCITY CORRECTIONS

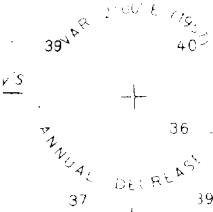
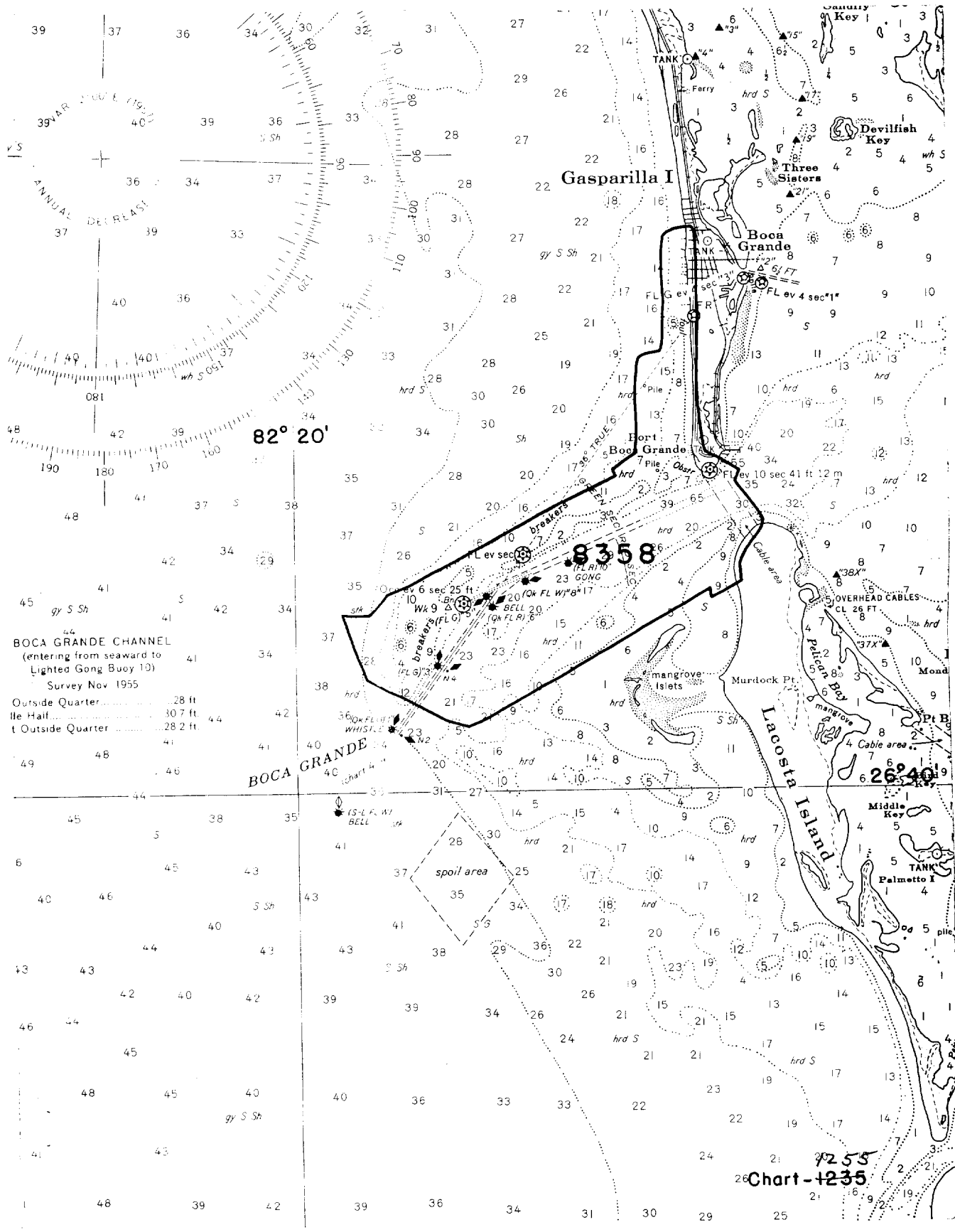
50-1256, 50-1056

ED0



DEPTH	CORRN
0 to 18.5 ft.	0
to 25.0	+0.2 ft.
to 28.2	+0.4
to 31.4	+0.6
to 34.6	+0.8
to 37.8	+1.0
to 41.0	+1.2
to 44.2	+1.4
to 47.4	+1.6
to 50.6	+1.8
to 53.8	+2.0
to 56.8	+2.2
to 60.0	+2.4
to 63.2	+2.6
to 66.4	+2.8
to 69.6	+3.0

comp WDB  
 ✓ ERS



BOCA GRANDE CHANNEL  
 (entering from seaward to  
 Lighted Gong Buoy 10)  
 Survey Nov 1955

Outside Quarter	28 ft
Half	30.7 ft
Inside Quarter	28.2 ft

82° 20'

BOCA GRANDE

Gasparilla I

Lacosta Island

8358

72 55  
 Chart -1235



