

8153

Diag. Cht. Nos. 1002, 1255-2, & 1256.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. S0-2155a Office No. H-8153
Shoran

S0-2155b (Visual)
LOCALITY

State Florida

General locality West Coast

Locality Little Gasparilla Pass to

Alligator Creek

1955

CHIEF OF PARTY

R. C. Bolstad

LIBRARY & ARCHIVES

DATE January 23, 1957

B-1870-1 (1)

8153

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-8153

Field No. So-2155a&b

State FLORIDA

General locality WEST COAST OF FLORIDA

Locality LITTLE GASPARILLA PASS TO ALLIGATOR CREEK

Scale 1:20,000 Date of survey 13 June to 28 Oct. 1955

Instructions dated 18 December 1952

Vessel SOSBEE

Chief of party R.C. BOLSTAD

Surveyed by R.C. BOLSTAD, W.V. WARNER & W.M. TIDWELL

Soundings taken by ~~XXXXXXXX~~ graphic recorder, ~~XXXXXXXX~~ POLE

Fathograms scaled by SHIP PERSONNEL

Fathograms checked by SHIP PERSONNEL

Protracted by A.K. SCHUGELD *Norfolk*

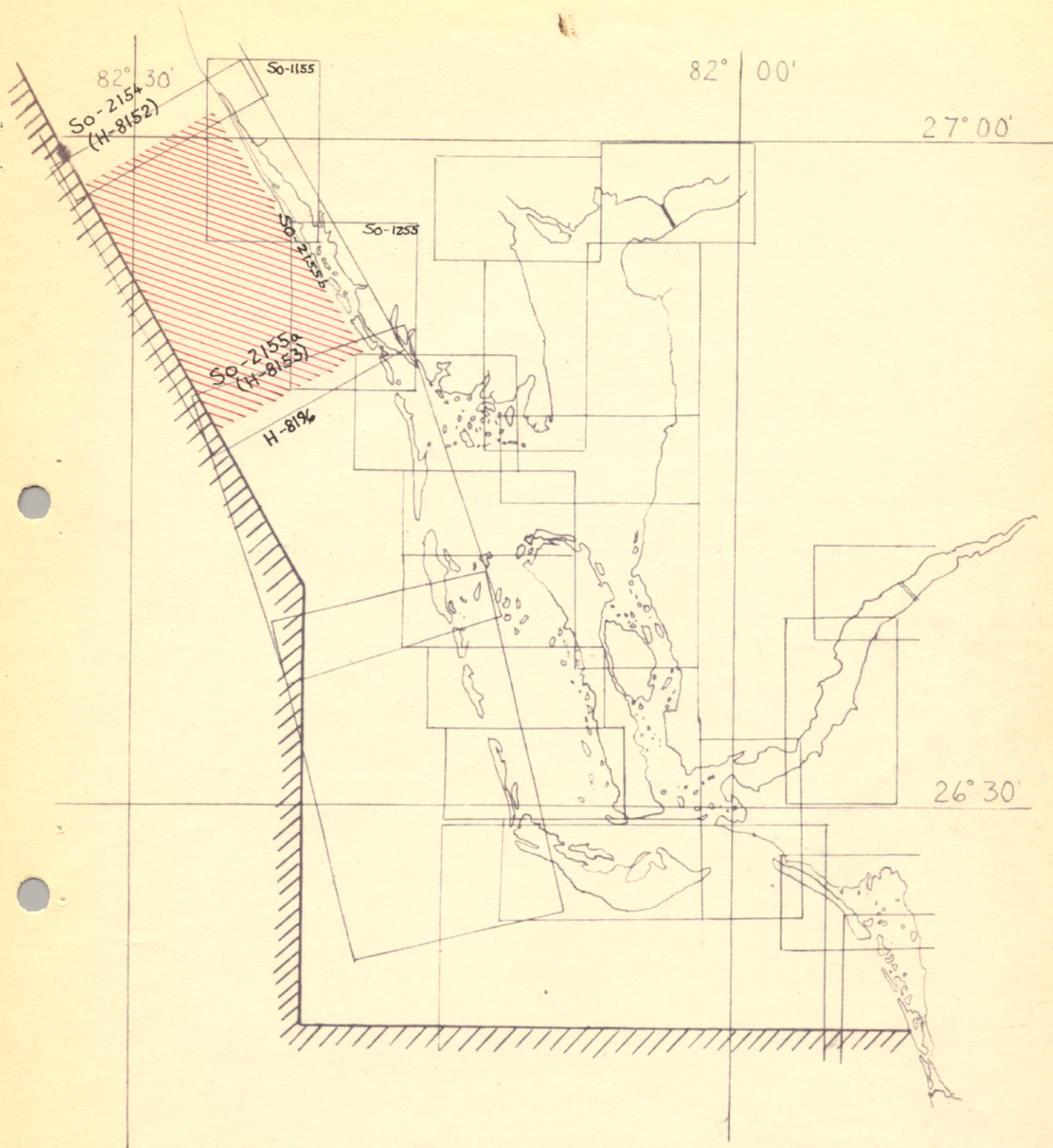
Soundings penciled by A.K. SCHUGELD

Soundings in ~~XXXXX~~ feet at MLW ~~XXXXX~~ *and are true depths*

REMARKS: See separate reports covering shoran and visual fix work.



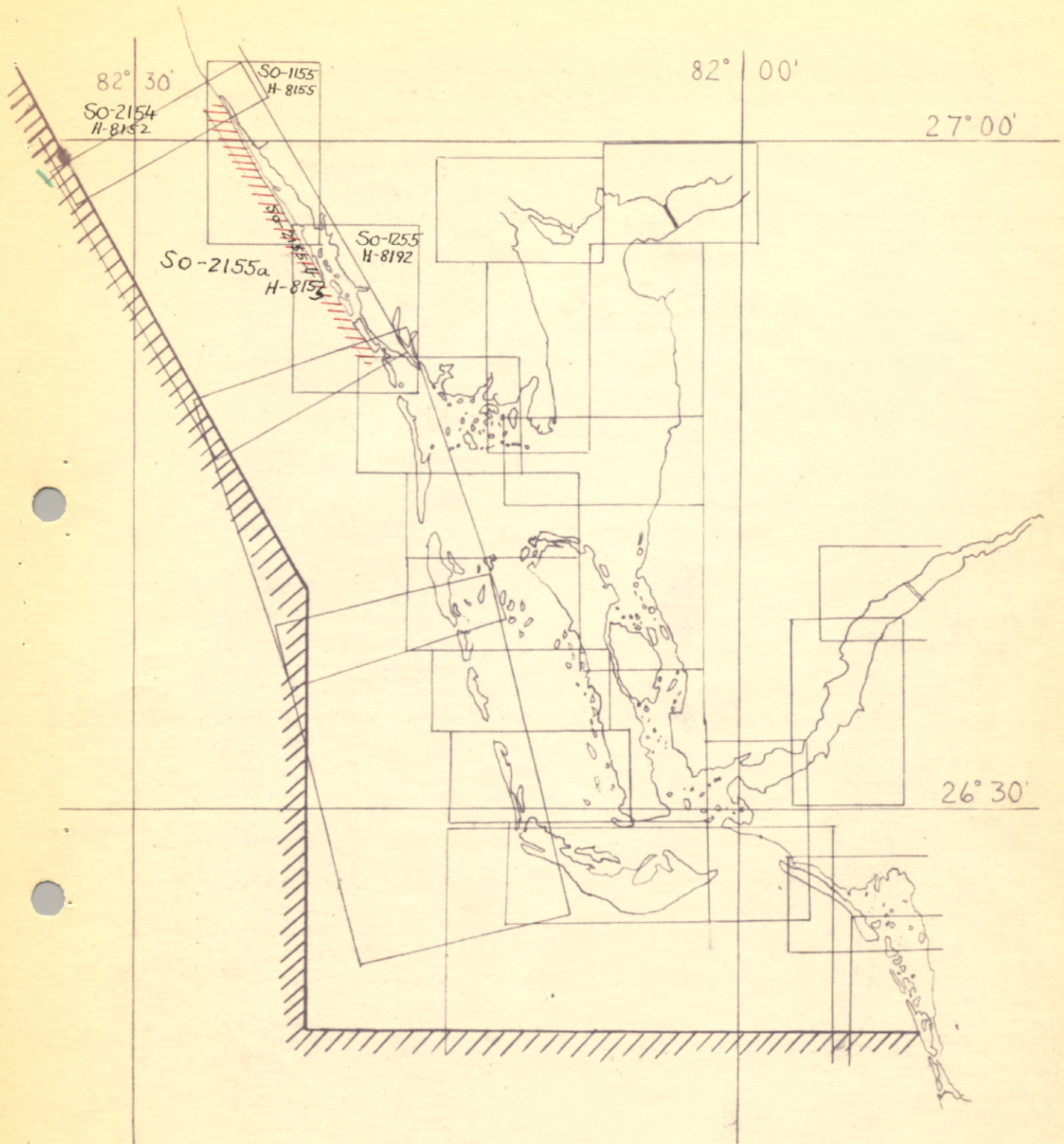
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INDEX OF SHEETS

PROJECT CS-1353

(Southern Part)



INDEX OF SHEETS

PROJECT CS-4353

(Southern Part)

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SURVEY H-8153(part) (Field No. SO-2155a, Shoran)

Little Gasparilla Pass
to Alligator Creek

West Coast of Florida

Scale 1:20,000

13 June 1955 to 1 Sept. 1955

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

Roswell C. Bolstad, Ch. of Party

A. PROJECT:

This survey is part of Project CS-353(1353) and was done in accordance with original instructions dated 18 December 1952. Instructions for Shoran Test dated 3 June 1955 is also applicable as hydrography was done in conjunction with Shoran tests. Also see "Shoran Test Report", July - August, submitted by R. C. Bolstad, Chief of Party, Ship SOSBEE.

B. SURVEY LIMITS AND DATES:

This survey covers a rectangular area in the Gulf of Mexico just off the shore of the west coast of Florida. The longer axis is aligned $150^{\circ} - 330^{\circ}$ T. with the northernmost corner at Lat. $27^{\circ} 01'.1$ N., Long. $82^{\circ} 25'.6$ W. and the southernmost at Lat. $26^{\circ} 46'.1$ N., Long. $82^{\circ} 25'.4$ W.,

The strip about 0.5 miles wide between the northeastern edge of this survey and shore will be covered by SO-2155b (H-8153) using visual methods. An index of sheets is enclosed to show junctions with contemporary surveys of the SOSBEE. The off-shore edge of the survey joins H-7934; 1:80,000; 1951.

The field work on SO-2155a was started on 13 June 1955 and was completed on 1 Sept. 1955. Rough Seas caused some delay in the field work. Shoran tests were carried on in conjunction with hydrography.

C. VESSELS AND EQUIPMENT:

All sounding was done from the Ship SOSBEE, a diesel powered, single screw, wooden hull vessel, 63 feet long at the waterline. Standard sounding speed of 1400 RPM averages 8.5 - 9.0 knots. Turning radius of the SOSBEE is about 100 meters.

C. VESSELS AND EQUIPMENT: Cont.

The two fathometers used were model 808J, numbers 115-S and 140-SP, calibrated at 820 fm./sec. Sounding was about evenly divided between the two fathometers.

D. TIDES AND CURRENT STATIONS:

All tidal reduction for SO-2155a were made directly (after subtracting 1 hour) from the recorded tides at Sarasota Municipal Pier, Portable Tide Gage, Sarasota, Fla.

T.G. not on this sheet

No current surveys were occupied in the area surveyed.

E. SMOOTH SHEET:

During use of boatsheet SO-2155a consideration was given to it's possible use as a smooth sheet (also see Report on Shoran Tests, July & August 1955 by R. C. Bolstad). The shoreline shown was transferred from boatsheet SO-2155b. The projection and shoran arcs were drawn by the Washington Office on the Dinaplex Plane Table sheet.

Corrections for distance were applied to shoran readings before being plotted on SO-2155a. See Shoran test report mentioned above for information on corrections applied.

The final determination of shoran corrections for distance were entered in the record books but the initially determined corrections applied to the boatsheet positions are only insignificantly different.

F. CONTROL STATIONS:

All sounding was controlled from shoran stations at Δ NOR, 1955 and Δ GASPARILLA 2, 1943 (See Report on Triangulation and Traverse for Shoran Test Project, July 1955, by R. C. Bolstad).

Δ NOR, 1955 was a traverse connection made by the field party from Δ MANASOTA, 1955. Stations used in determination of Shoran distance-corrections are these:

Δ JOE, 1955 - located by this party by traverse from Δ TT #1 JA, USGS, 1952.

Δ DUG, 1955 - located by this party by traverse from Δ TT 42 JA, USGS, 1952.

Δ MEL, 1955 - a temporary point located by this party from traverse from Δ EDL 12, USED, 1935.

Δ TALL, 1955 - located by triangulation done by this party.

F. CONTROL STATIONS: Cont.

△ GASPARILLA PASS Lt. 1, 1955 - located by I.R. Rubottom, Chief of Party.

△ GASPARILLA INN WATER TANK (tallest of two), 1955 - located by I.R. Rubottom, Chief of Party.

△ BOCA GRANDE LIGHT HOUSE, 1934

G. SHORELINE AND TOPOGRAPHY:

The shoreline was originally transferred to boat sheet 2155b from shoreline manuscripts T-11384, T-11385, T-11386, T-11389, and T-11392, photos of 1953. The shoreline was transferred a second time by the Ship SOSBEE to SO-2155a from SO-2155b. Boat sheet SO-2155b (visual) will be used for alongshore hydrography.

H. SOUNDINGS:

All sounding was done with 808 type fathometers. Bar checks and leadline comparisons showed that a correction was necessary with depth but the corrections for both fathometers were not the same.

I. CONTROL OF HYDROGRAPHY:

All hydrography was controlled from shoran stations at two selected sites. Lines run until intersections were weak showed some minor unrelated jumps which were adjusted on the boat sheet for time. It should be noted however that since lines were run on the arcs, and therefore varying in course continually, the interval between fixes of constant time will vary according to relative current direction.

Shoran arcs were run from shoran station GASparilla 2, 19⁴³~~55~~ with the helmsman controlling his own course. The shoran set was so placed the helmsman was able to inspect and maintain the coincidence of the applicable pips.

See Shoran Test report referred to in paragraph A for the distance corrections found applicable for this survey. All positions on SO-2155a are corrected positions (See page 12 of Shoran Test Project Report).

J. ADEQUACY OF SURVEY:

The area of H-8153 covered by SO-2155a (Shoran) is complete and adequate for charting.

Junction with H-8152 (Raydist) on the north was good. The junction with H-7934 (Shoran) on the west needs further consideration. Only a boat sheet photostat with unreduced soundings of H-7934 was available for comparison.

↳ (1951)

see
VP4
Re-
view

K. **CROSSLINES:**

Crosslines were 13% of the sounding lines run. Any discrepancies at crossings were of the order of one foot.

L. **COMPARISON WITH PRIOR SURVEYS:**

See comparison with charts of area.

M. **COMPARISON WITH CHART:** *See P 6 of Review*

Comparison was made with chart number 1256, print date Jan. 3/55 and with chart number 1255, print date 53-1/19. *See P 5 & 6 of Review*
Applicable areas were last surveyed in the 1880's. General agreement was good.

All but two charted soundings could be reconciled by allowing a foot in depth difference and a displacement of 0.1 to 0.2 nautical miles.

The 21 foot charted sounding at Lat. 26° 52'.1, Long. 82° 23'.8 was not duplicated on this survey. A shoal depth of 23 feet was found a quarter mile to the southeast. No further field investigation is deemed necessary. *21ft sdg fell in present depths of 29ft.*

21 deleted from chart present 23 ft. adequate
The 33 foot charted sounding at Lat. 26° 48'.2, Long. 82° 24'.7 could not be easily reconciled. It is not considered important enough in location and depth to merit any further consideration on this survey or on subsequent charting. *Falls in present depths present depths adequate of 34 to 35ft*

The wreck marked P.D. charted at Lat. 26° 55'.4, Long. 82° 22'.4 fell at the junction of this survey with 80-2155b. No visual or fathometer signs of the wreck were seen during this survey. Further examination will be made and the existence resolved on 80-2155b. *See Review P 6 & page 3 of Visual hydrog. of this report*

N. **DANGERS AND SHOALS:**

No important newly found dangers or shoals were found but the following shoal soundings found on 80-2155a should be given serious consideration in the next printing of chart number 1256:

- | | | | | | |
|-----|------------|------------------|------------|-------|-------------------------|
| 1.) | The 36 ft. | sounding at Lat. | 26° 47'.1, | Long. | 82° 25'.2. |
| 2.) | The 28 ft. | " | " | " | 26° 49'.2, " 82° 23'.9. |
| 3.) | The 19 ft. | " | " | " | 26° 51'.7, " 82° 22'.1. |
| 4.) | The 36 ft. | " | " | " | 26° 53'.4, " 82° 28'.2. |
| 5.) | The 31 ft. | " | " | " | 26° 56'.8, " 82° 29'.9. |
| 6.) | The 28 ft. | " | " | " | 26° 58'.2, " 82° 28'.4. |
| 7.) | The 22 ft. | " | " | " | 26° 58'.1, " 82° 26'.3. |

All charted dangers and shoals were found as shown but for those previously mentioned.

O. COAST PILOT INFORMATION:

There is no coast pilot information for survey 80-2155a.

P. AIDS TO NAVIGATION:

There is no information for Aids to Navigation on 80-2155a.

Q. LANDMARKS FOR CHARTS:

Landmarks for the shore area of this survey will be covered on form 567 on an area basis. The only recommended landmark in the area is the wooden water tank at Punta Gorda Beach.

R. GEOGRAPHIC NAMES:

No discrepancies in geographic names was found by the hydrographic party.

S. SILTED AREAS:

No silted areas discovered during survey.

T. BY-PRODUCT INFORMATION:

None.

U. BOTTOM SAMPLES:

Bottom samples were taken by hand lead with a soap-filled lead.

VWXY -----

Z. TABULATION OF APPLICABLE DATA:

1. Statistics
2. Tide Note
3. Approval Sheet
4. Index of Sheets

Submitted by,

Wilfred V. Warner

Wilfred V. Warner,
Ensign, USC&GS

STATISTICS

For Hydrographic Survey H-8153(Part)

Field No. 80-2155a (Shoran)

Day Letter	Volume Number	Date	Number of Positions	Statute Miles of Soundings
A	1 ✓	1955 27 July	223 ✓	94.0
B	1, 2, & 3 ✓	28 "	433 ✓	195.2
C	3 & 4 ✓	29 "	183 ✓	82.1
D	4 ✓	4 Aug.	176 ✓	82.1
E	4 & 5 ✓	5 "	159 166 ✓	72.8 75.7
F	5 ✓	11 "	83 ✓	30.6
G	6 ✓	15 "	245 ✓	106.0
H	7 ✓	16 "	180 ✓	79.5
J	7 & 8 ✓	19 "	104 ✓	44.4
K	8 ✓	22 "	212 ✓	89.7
L	9 ✓	23 "	124 ✓	47.2
			2122 2129 ✓	923.6 926.4

No pole or lead-line soundings taken.

Total square statute miles = 106.0

TIDE NOTE

A portable automatic tide gage was maintained
at Sarasota Municipal Pier, Florida, Lat. $27^{\circ} 20'.0$ N.
Long. $82^{\circ} 32'.7$ W. A correction of minus one hour was
made in time to the recorded tides. No height correction
was necessary.

Falls
off
H-8153


Zero of the tide gage staff was 1.5 feet below
the plane of Mean Low Water, according to letter 36-fj
of 30 April 1953.

APPROVAL SHEET

The survey of the area covered by SO-2155a (Shoran), part of H-8153, is adequate for charting purposes. The sounding records and boat sheet have been inspected and are approved this date. Additional work is not necessary.

This boat sheet has been plotted so that it may be used as a smooth sheet (See pertaining information in Report on Shoran Test Project, July and August 1955, by Comdg. Officer, Ship SOSBEE).

19 Sept. 1955



Roswell C. Boistad
Commander, USC&GS
Comdg. Ship SOSBEE

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SURVEY H-8153 Field No. SO-2155b (Visual)
Little Gasparilla Pass to Alligator Creek Scale 1:20,000
West Coast of Florida 7 Sept. 1955 to 28 Oct. 1955
U.S.C. & G.S.S. SOSBEE Roswell C. Bolstad, Ch. of Party

A. PROJECT:

This survey is part of original Project CS-353, now project CS-1353, and was done in accordance with original instructions dated 18 December 1952.

B. SURVEY LIMITS AND DATES:

The survey covers a rectangular strip of the Gulf of Mexico along the shore of the West Coast of Florida.

The northern limit is Lat. 27° 01.2' N., the southern limit is 26° 49.8', and the strip width is about 0.6 statute mile.

An index of sheets is included in applicable data of this report to show junctions with other contemporary surveys. This survey and SO-2155a (~~H-8153~~) complete. H-8153.

The field work on SO-2155b was begun on 7 Sept. 1955 and ended on 28 Oct. 1955. During this period work was also being done on other contemporary surveys.

C. VESSELS AND EQUIPMENT:

Skiff No. 735 was used on hydrography for sounding alongshore where the Ship SOSBEE could not safely operate. This is a 25-foot wooden flat bottom craft, powered by two ten-horsepower outboard motors, which operated from a slip at Punta Gorda Beach. The maximum speed of the skiff is about 6 knots with a turning radius of roughly 20 meters.

The deeper offshore lines were run by the Ship SOSBEE, a diesel powered, single screw wooden hull vessel, 63 feet long at the water line, based at Sarasota, Florida. Standard sounding speed was 1500 RPM which averaged about 9.0 knots. Turning radius is about 100 meters.

All skiff sounding was with Model 808J Fathometer No. 115-S, calibrated at 820/fam./sec. Model 808J fathometer No. 140-SP was used for the lone day of ship sounding.

D. TIDE AND CURRENT STATIONS:

The tide gage at the Sarasota Municipal Pier, Sarasota, Fla., was used to reduce all sounding. A time correction of minus 30 minutes was used.

No current stations were occupied in this area.

E. SMOOTH SHEET:

This survey should probably be plotted along with SO-2155a (Shoran). The actual smooth sheet is not within the scope of this report.

F. CONTROL STATIONS:

Triangulation stations used in hydrography are these:

NOR	-	△	NOR,	1955;	R. C. Bolstad,	Chief of Party
JOE	-	△	JOE,	1955;	"	"
DUG	-	△	DUG,	1955;	"	"
TANK	-	△	TANK,	1955;	"	"
TALL	-	△	TALL,	1955;	"	"

Topographic stations were located by photogrammetric methods, shoreline manuscripts T-11384, T-11385, T-11386, T-11387, and T-11392, photos of 1953.

G. SHORELINE AND TOPOGRAPHY:

The shoreline is from shoreline manuscripts [T-11384], T-11385, [T-11389] and [T-11392], photos of 1953. At lat. 26° 53.2' hydrographic sextant fixes were used to estimate a small revision in the HWL. See boatsheet for revisions which is dashed in red ink.

Sounding lines were run close along the beach, distances to then existing water line being estimated to help delineate the low-water-line. Shoals that tend to build up just offshore were developed as much as was deemed practical.

H. SOUNDINGS:

Model 808 portable fathometers were used for all sounding except in shoal water where a wooden pole graduated in feet was used.

I. CONTROL OF HYDROGRAPHY:

A list of stations is included in the applicable data of this report.

All hydrography was controlled by sextant three-point fixes.

J. ADEQUACY OF SURVEY:

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

Junctions with adjoining surveys are adequate and depth curves are continuous at the junctions.

K. CROSSLINES:

Crosslines were 12% of the total mileage run. Crossings were good with any discrepancies being in the magnitude of one foot.

L. COMPARISON WITH PRIOR SURVEYS:

See Comparison with Chart.

M. COMPARISON WITH CHART:

A comparison was made with Chart No. 1256, print date Jan. 3/1955 and Chart No. 1255, print date 53-1/19. General agreement was good for the information charted.

The new survey shows definite changes in depth along the shoreline south of Stump Pass. The 5 and 6 foot soundings charted (1255) near lat. 27° 52' N. are now in 12 - 13 feet of water. Major changes in the shoreline and passes have occurred in this area since the last survey (1880's) from which the charted soundings were taken. The new survey also shows that the presently charted shoreline around Stump Pass needs revision. See
PS 26
Review
Shore-
line
revised

The new surveys find no present justification for the break in the 6 and 12 foot depth curve at lat. 26° 54.5' on the chart.

The wreck charted at lat. 26° 55.45', long. 82° 22.4 could not be verified by this party. This wreck was marked for special investigation on the Preliminary Review for Project CS-353 which stated ~~the~~ the wreck was charted from H.O. Notice to Mariners 27 (1949) that a barge was sunk 0.5 to 0.75 mile offshore, abreast of the charted "Tank". The approximate area was well covered with parallel sounding lines 50 - 90 meters wide. Lookouts were kept for visible signs of a wreck with nothing sighted. Further investigation is deemed impractical due to the indefinite location. Inquiry of several reliable local inhabitants revealed no knowledge of a wreck in the area. Delete
link
from
charts.
see
TP 6
ec
view

N. DANGERS AND SHOALS:

There are no important newly found dangers or shoals in this survey.

All shoals, dangers, and bare rocks were found as charted or shoaler depths were found except as noted previously.

O. COAST PILOT INFORMATION:

There is no coast pilot information for the area covered. A special coast pilot report will be made at a later date which will include this area.

P. AIDS TO NAVIGATION:

There are no fixed or floating aids in the limits of the survey.

Q. LANDMARKS FOR CHARTS:

Landmarks are to be reported on form 567 on a project basis.

A list of the recommended landmarks for this area are:

△ TANK, 1955; R. C. Bolstad, Chief of Party.

R. GEOGRAPHIC NAMES:

The hydrographic party found no discrepancies in the charted names. No special report was required.

S. SILTED AREAS:

None

T. BOTTOM SAMPLES:

Bottom samples were obtained using a leadline with a soap filled hollow bottom. ✓

UVWXY -----

Z. TABULATION OF APPLICABLE DATA:

1. Statistics
2. Tide Note
3. Approval Sheet
4. Index of Sheets
5. List of Stations

22 Nov. 1955

Submitted by,

Wilfred V. Warner

Wilfred V. Warner,
Ensign, USC&GS

STATISTICS

For Hydrographic Survey H-8153 (inshore area)

Field No. SO-2155b

Volume Number	Day Letter	Date 1955	Pole Soundings	Number of Positions	Statute Miles of Sounding
			<u>Skiff No. 735</u>		
1	a	6 Oct.	CP	94 ✓	21.6
1	b	7 "	CP	32 ✓	9.0
1	c	10 "	264	93 ✓	21.0
1	d /	12 "	2	93 ✓	21.7
2	e	25 "	56	98 ✓	21.0
2	f	27 "	351	102 ✓	19.8
2	g /	28 "	10	52 ✓	10.0
			683	564 /	124.1

Ship SOSBEE

3	A	26 Oct.	CP	143 ✓	52.2
Grand Total - - - - -			683	707	176.3

Square Statute Miles = 7.0

11 4?
 7 2?
 21 3

TIDE NOTE

SO-2155b (H-8153)

A portable automatic tide gage was maintained at Sarasota Municipal Pier, Sarasota, Florida, Lat. $27^{\circ} 20.0'$ N., Long. $82^{\circ} 32.7'$ W. A minus 30 minutes time correction was applied to the tidal data. Zero of the tide staff was 1.5 feet below the plane of Mean Low Water according to letter 36fj of 20 April 1953.

Falls
off
smooth
sheet

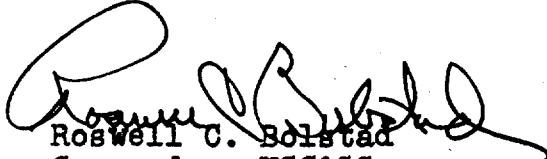
APPROVAL SHEET

The survey of the area covered by H-8153 (80-2155b--visual) is adequate for charting purposes. The sounding records and boat sheet have been inspected and are approved this date. Additional work is unnecessary.

The wreck charted at lat. 26° 55.45', long. 82° 22.4', as mentioned in paragraph M., page 3, does not exist. If there ever was a wreck in this general area it has since deteriorated by corrosion, wave action, or has been submerged in the sand bottom. A very thorough search was made over sustained periods on several days, not only in the immediate area as developed by the skiff but about a mile and a half on each side. A lookout was posted up the mast and at the bow where the sand bottom was clearly visible over a wide area; no sign of any wreck could be found anywhere along this beach, either inshore or off-shore. It should be removed from the chart.

See
Pg of
REVIEW.

23 Nov. 1955


Roswell C. Bolstad
Commander, USC&GS
Comdg. Ship SOSBEE

LIST OF SIGNALS
H-8153

TRIANGULATION STATIONS

DUG DUG, 1955
 JOE JOE, 1955
 MEL MEL, 1955
 NOR NOR, 1955
 TALL TALL, 1955
 TANK PUNTA GORDA BEACH, TANK, 1955

TOPOGRAPHIC STATIONS

SOURCE T-11384

Ago	Bed	Chim	Dog	Egg	Fat	Gag	Lop	Sol
Who	Yak	Zoo						

SOURCE T-11385

Abe	Bob	Hex	Ida	Jap	Joh	Kim	Nip	Oak
Peg	Quo	Rig	Sam	Toy	Vex	Wax		

SOURCE T-11386

Cut	Dim	Ebb	Fig					
-----	-----	-----	-----	--	--	--	--	--

SOURCE T-11389

Arm	Cod	Doc	Elf	Fog	Gabe	Gal	Gus	Hat
Hut	Ice	Ion	Jim	Key	Lax	Nil	Ora	Pep
Rio	Sox	Tom	Vet	Yam	Zig			

SOURCE T-11392

Azo	Cart	Joy	Ken	Lay	Max	Noel	Nut	Oil
Pal	Rag	Sal	Tax	Val	Yea			

HYDROGRAPHIC STATIONS

Duo Vol. 1, Pg. 29

ADDENDUM
To Accompany

HYDROGRAPHIC SURVEY H-8153 (Field No. So-2155)

GENERAL

In view of the statement in the descriptive report that all positions had been carefully plotted and applicable shoran corrections applied on boat sheet So-2155A, a positive film print of the boat sheet was requested from the Washington Office and all positions were pricked directly on the smooth sheet. A very small percentage of these positions were adjusted during the smooth plot to better conform with course and speed changes and to improve agreement of soundings at crossings.

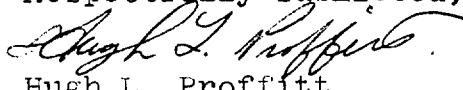
It will be noted that fixes are rather weak in the vicinity of the shoran base line, however, the Field adjustment was very good and soundings checked well at crossings. Position strength in the area of the baseline could have been improved by observing a sextant angle whose arc was nearly perpendicular to the shoran curves.

The smooth plotter averaged approximately 525 positions per day on that portion of the sheet where the positive film method was used.

SIGNAL DESCRIPTIONS

The descriptions on a number of the topo signals appear to be questionable as they were scratched out on the boat sheet.

Respectfully submitted,



Hugh L. Proffitt
Cartographer

Norfolk, Va.
17 January 1957

GEOGRAPHIC NAMES

Survey No H-8153

Name on Survey											
	A	B	C	D	E	F	G	H	K		
Florida											1
Gulf of Mexico											2
Little Gasparilla Pass											3
Stump Pass											4
Alligator Creek											5
											6
					Names approved						7
					2-11-57 L. Heck						8
Tide station:											9
Municipal Pier											10
Sarasota											11
											12
											13
											14
											15
											16
											17
											18
											19
											20
											21
											22
											23
											24
											25
											26
											27

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ..8153..

Records accompanying survey:

Boat sheets .2...; sounding vols. .12...; wire drag vols. .0...;
 bomb vols.; graphic recorder rolls 13. Envelopes
 special reports, etc. .1-Smooth sheet, .1-Descriptive report, ...
 2-Film positives (Boat sheet) and Shore comps. - diagrams (filed
 with the descriptive report).

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

Number of positions on sheet		3400 2836
Number of positions checked		..10. + 68
Number of positions revised		...0. + 19
Number of soundings revised (refers to depth only)		.0.... 36
Number of soundings erroneously spaced		.0.... 525
Number of signals erroneously plotted or transferred		.0....
Topographic details	Time	6....
Junctions	Time	6....
Verification of soundings from graphic record	Time	5... + 18
Pre-Verif by - <i>J. Zerkund</i>	3.6	8-4-58
Verification by <i>W. J. Powers</i>	Total time Date
Reviewed by <i>J. Zerkund</i>	Time	..2.2. Date 8-4-58

Addendum by Fannie B. Powers Time 64 Date 7-28-65

VERIFIER'S REPORT OF HYDROGRAPHIC SURVEY NO. H- 8153

The verifier should deal with the present hydrographic survey only, as the reviewer considers its relation to previous surveys and published charts. He should be thoroughly familiar with Chapters 3, 7 and 9 of the Hydrographic Manual.

1. The descriptive report was consulted and appropriate notes were made in soft pencil regarding action taken. ✓
2. Soundings originating with the survey and mentioned in the descriptive report have been verified, including latitude and longitude. ✓
3. All reference to survey sheets mentioned in the descriptive report include the registry number and year. ✓
4. Geographic names of hydrographic features if on sheet are in slanting lettering and of topographic features in vertical lettering. ✓
5. All items affecting the plotting of the survey which are entered in the remarks columns of the sounding records were noted and check marked. In all cases appropriate action was taken. ✓
6. All positions verified instrumentally were check marked in the sounding records. ✓
7. All critical soundings are clear and legible and are a little larger than the adjacent soundings. ✓
8. The metal protractor has been checked within the last three months. ✓
9. The protracting and plotting of all bad crossings were verified. ✓
10. All detached positions locating critical soundings, rocks or buoys were verified. ✓
11. The boat sheet was compared with the smooth sheet. ✓✓

12. The spacing of soundings as recorded in the records was closely followed. *and many were corrected.* ✓
13. The bottom characteristics were shown on outstanding shoals. ✓
14. The reduction and plotting of doubtful soundings were checked. ✓
15. The transfer of contemporary topographic information was carefully examined.
16. All junctions were transferred and overlapping curves made identical.
17. The notation "JOINS H- (19--)" was added in ink for all contemporary adjoining or overlapping sheets now registered. Those not verified are shown in pencil.
18. The depth curves have been inspected before inking.
19. All triangulation stations and transfer of topographic and hydrographic signals were checked.
20. Heights of rocks were checked against range of tide.
21. Rocks transferred from topographic surveys have a dotted curve where shown thereon. Rocks located accurately by hydrographer are encircled by dotted red curve.
22. Unnecessary pencil notes have been removed.
23. Objects on which signals are located and which fall outside of the low water line have been described on the sheet.
24. The low water line and delineation of shoal areas have been properly shown.
25. Degree and minutes values and symbols have been checked. ✓
26. Questionable soundings have been checked on the fathograms. ✓

- H-8153
27. Source of shoreline and signals (when not given in report).
 28. All notes on sheet are in accordance with figure 171 in the Hydrographic Manual.
 29. All aids located, with those on contemporary topographic sheets, have been shown on survey. *None located.*
 30. Depth curves were satisfactory except as follows: *half-foot soundings shown to smooth out curves.*
 31. Sounding line crossings were satisfactory except as follows: ✓
 32. Junctions with contemporary surveys were satisfactory except as follows: *on West Out Junction to be made because of 1-4 ft differences between #2954 and present survey*
 33. Condition of sounding records was satisfactory except as follows: ✓
 34. The protracting was satisfactory except as follows: *Slight displacement of the "pricked-through" positions noted - this displacement averages approx. 1 mm - because of the flat bottom this causes a negligible error in the curves.*
 35. The field plotting of soundings was satisfactory except as follows: ✓
 36. Notes to reviewer:

Belts
Verified by *Switzerland*

Date *8/7/58*

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8153

FIELD NO. SO-2155 a& b

Florida, West Coast, Little Gasparilla Pass to Alligator Creek

Surveyed - June - October, 1955

Scale 1:20,000

Project No. CS-353

Soundings:

Control:

808 Depth Recorder
Pole

Shoran
Sextant fixes on shore
signals

Chief of Party - R. C. Bolstad

Surveyed by - R. C. Bolstad, W. V. Warner and W. M. Tidwell

Protracted by - H. K. Schugeld

Soundings plotted by - A. K. Schugeld

Preliminary verification by - I. M. Zeskind

Verified and inked by - *CAJ Pauw* *Addendum & depth curves by F.B. Powers*

Reviewed by - I. M. Zeskind 8-4-58

Inspected by - R. H. Carstens

1. Shoreline and Control

The shoreline originates with unreviewed air-photographic surveys T-11348, T-11385, T-11386, T-11389, of 1953-54 and T-11392 of 1953-55.

The source of the control is given in the Descriptive Report.

2. Sounding Line Crossings

Depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves were adequately delineated. The 3-ft. and 36-ft. curves were drawn to better delineate the bottom configuration.

The bottom is undulating and bumpy with the relief generally amounting to about 3 ft., with occasional differences in depth of as much as 16 ft.

4. Junctions with Contemporary Surveys

Present survey depths on the north are in adequate agreement with junctional depths on survey H-8152 (1954-55), and on the west with H-7934(1951). The transfer of depths at these junctions is deferred, pending the complete verification of H-8153. Project surveys on the south and in Stumps Pass on the east have not yet been received in the Washington Office.

5. Comparison with Prior Surveys

H-1477 a (1879-80), 1:40, 000
H-1480b(1879-80), 1:20, 000

H-1557 b (1883), 1:40, 000

These early reconnaissance surveys cover the area of the present survey. Only minor differences of 1 - 3 ft. in depths are generally noted between the prior and present surveys, except close in shore where the shoreline has accreted as much as 150 meters with the resultant changes in depths. Bucks Pass which was formerly located in the vicinity of lat. 26°52. 2', long. 82°19. 4', has filled in and no longer exists.

↳ The present survey is adequate to supersede the prior surveys. ✓

6. Comparison with Chart 1255 (Latest print date 9-9-57)
Chart 1256 (Latest print date 4-21-58)

A. Hydrography

The charted hydrography originates with the boat sheets (BPs 52810 and 53194) of the present survey. Only minor differences of 1 - 3 ft. in depths are noted between the charted and present survey depths.

The sunken wreck P. D. charted in lat. 26°55.45', long. ⁸²~~80~~°22.4' on chart 1255, from HON to M 27, 1949, should be deleted from the chart. Close development of the area on the present survey failed to reveal the existence of the wreck. Inquiry of several reliable local inhabitants failed to reveal any knowledge of a wreck in the above mentioned vicinity. (See page 3, visual hydrography of the Descriptive Report and Approval Sheet by Chief of Party).

The present survey is adequate to supersede the charted hydrography.

B. Aids to Navigation

There are no aids to navigation within the limits of the present survey.

7. Condition of Survey

This survey has been given only a preliminary verification. A complete statement concerning the condition of the survey is deferred until the present survey has been completely verified.

The Descriptive Report is complete and comprehensive.

8. Compliance with Project Instructions

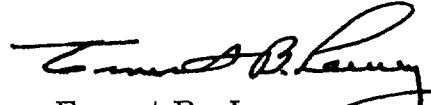
The present survey adequately complies with the Project Instructions.

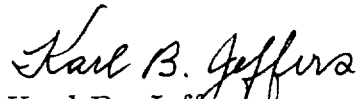
9. Additional Field Work Recommended


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

Examined and approved:


Max G. Ricketts
Chief, Nautical Chart Branch


Ernest B. Lewey
Chief, Division of Charts


Karl B. Jeffers
Chief, Hydrography Branch


Samuel B. Grenell
Chief, Division of Coastal Surveys

Addendum to Review
H-8153 (1955)

Verified and Inked by-----C. A. J. Pauw
Review Addendum by-----F. B. Powers 7/28/65
Inspected by-----R. H. Carstens

The verification of this survey has been completed. Soundings and depths curves have been completely inked.

Shoreline

Minor corrections were made to the shoreline from the reviewed photogrammetric surveys T-11348, T-11385, T-11386, T-11389 of 1953-54 and T-11392 of 1953-55, during the addendum to H-8153.

Junctions with Contemporary Surveys

An adequate junction was completed with H-8192 (1955) at Stump Pass and Little Gasparilla Pass on the southeast.

Comparison with Chart 857 (Latest print date 5/30/64)
Chart 1255 (Latest print date 12-21-64)
Chart 1256 (Latest print date 5/31/65)

The charted hydrography originates with the present survey after preliminary verification and review. Attention is directed to the following discrepancies:

- (a) The 27-ft. sounding shown on chart 857 in Lat. $26^{\circ}58.3'$ and Long. $82^{\circ}26.15'$ was erroneously charted. The charted 27 ft. should be revised to 37 ft.
- (b) The 25 ft. sounding shown on chart 1256 in Lat. $26^{\circ}54.7'$ and Long. $82^{\circ}27.4'$ was erroneously charted. The charted 25 ft. should be revised to 35 ft.

No other significant differences were noted between the charted and present survey depths.

Condition of Survey

- (a) Completion of verification and inking reveals that the smooth plotting was well done.

(b) The Descriptive Report is complete and comprehensive.

Approved:

A handwritten signature in cursive script that reads "Lorne G. Taylor".

Lorne G. Taylor
Chief, Nautical Chart Division

RH C

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Hydrography and Topography~~

18 February 1957

Division of Charts: R. H. Carstens

Plane of reference approved in
12 volumes of sounding records for

HYDROGRAPHIC SHEET 8153

Locality West Coast of Florida

Chief of Party: R. C. Bolstad in 1955
Plane of reference is mean low water, reading
1.5 ft. on tide staff at Sarasota
6.5 ft. below B. M. 1 (1953)

2.0 ft. on tide staff at Englewood
2.4 ft. below B.M. 1 (1955)

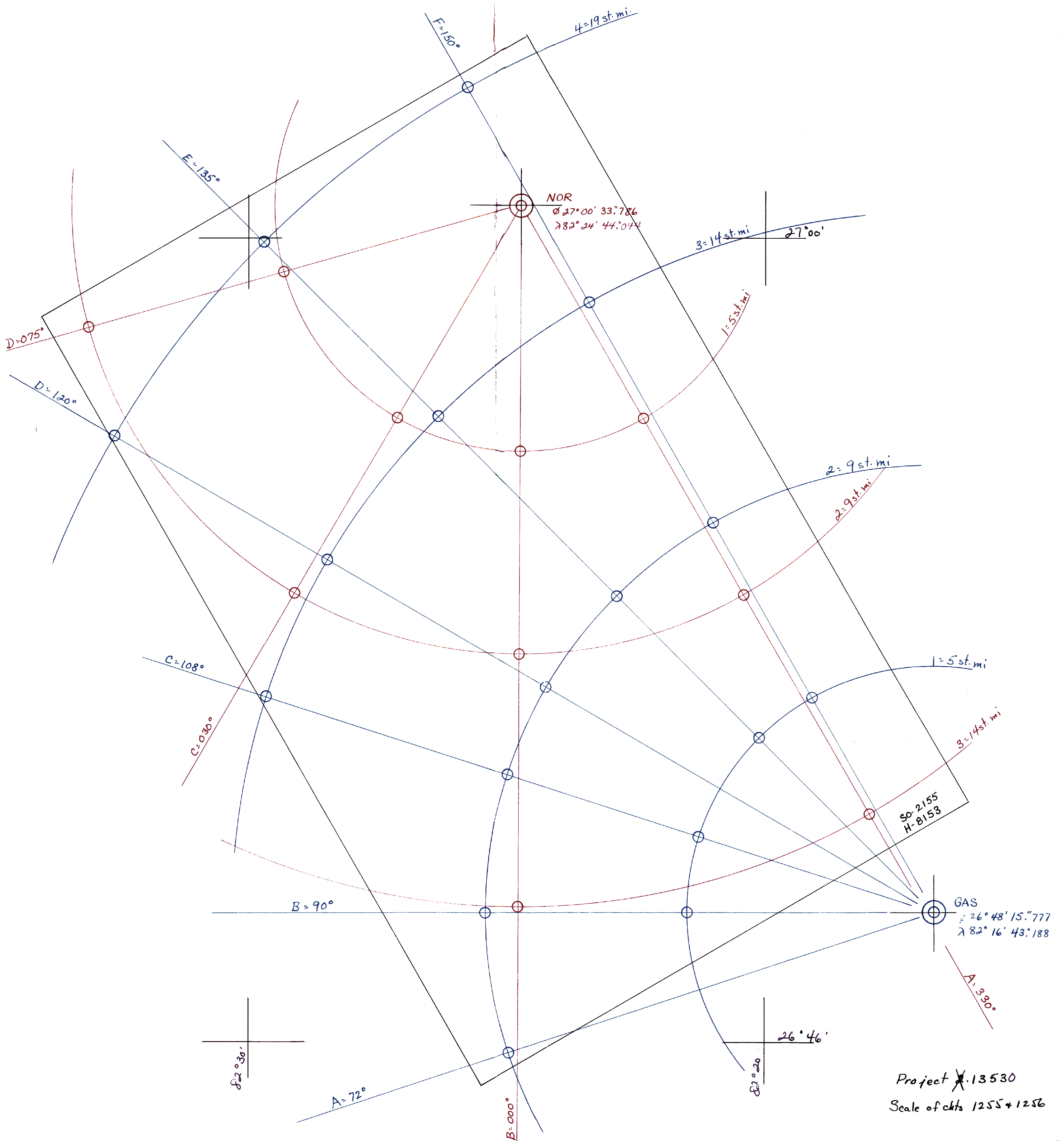
Height of mean high water above plane of reference is:

Sarasota 1.3 ft.
Englewood 1.0 ft.

Condition of records satisfactory except as noted below:



Chief, ~~BRANCH OF~~ Tides ~~AND CURRENTS~~ Branch



Project X-13530
 Scale of charts 1255 + 1256

Unit X752

7-1-S

Project #.13530

Shoran Stations NOR
GAS

SO-2155 (H-8153)

Please compute g.p.s to nearest tenth meters for the following:

NOR (RED)

$\phi 27^{\circ} 00' 33.786$ 1039.83 (806.8)
 $\lambda 82^{\circ} 24' 44.044$ 1214.25 (439.9)

GAS (BLUE)

$\phi 26^{\circ} 48' 15.777$ 485.57
 $\lambda 82^{\circ} 16' 43.188$ 1192.81

Point	St. Miles	Meters	Azimuth		Lat.		Long.		Point	St. Miles	Meters	Azimuth		Lat.		Long.							
			°	'	°	'	°	'				°	'	°	'	°	'	°	'				
1A	5	8046.74	330	26	56	1,457.1	389.5	82	22	501.7	1153.3	1B	5	8,046.74	90	26	48	483.0	1263.6	82	21	953.9	703.3
B			0	26	56	379.7	1466.9	82	24	1,215.0	440.3	C			108	26	49	1,123.2	723.4	82	21	561.4	1095.4
C			30	26	56	1,457.1	389.5	82	27	273.1	1381.9	E			135	26	51	634.4	1212.2	82	20	256.6	1399.8
D			75	26	59	801.4	1045.2	82	29	714.9	939.5	F			150	26	52	67.2	1779.4	82	19	246.9	1409.3
2A	9	14,484.13	330	26	53	1,420.6	426.0	82	20	596.6	1059.1	2A	9	14,484.13	72	26	45	1,542.0	304.6	82	25	48.0	1608.7
B			0	26	52	1,328.8	517.8	82	24	1,215.7	440.3	B			90	26	48	477.3	1369.3	82	25	162.8	894.4
C			30	26	53	1,420.6	426.0	82	29	178.6	1477.4	C			108	26	50	1,260.7	585.9	82	25	58.7	1597.8
D			75	26	58	976.6	870.0	82	33	313.5	1341.2	D			120	26	52	335.0	1511.6	82	24	486.3	1169.9
3A	14	22,530.90	330	26	49	1,835.4	11.2	82	17	1,547.7	109.0	E			135	26	53	1,490.2	356.4	82	22	1,499.0	156.7
B			0	26	48	668.4	1178.2	82	24	1,216.5	440.6	F			150	26	55	100.8	1745.8	82	21	156.3	1499.2
												3C	14	22,530.90	108	26	52	43.4	1803.4	82	29	1089.5	566.7
												D			120	26	54	656.3	1190.3	82	28	836.3	819.4
												E			135	26	56	1,634.3	212.3	82	26	572.6	1082.4
												F			150	26	58	1,526.6	320.0	82	23	874.4	780.1
												4D	19	30,677.65	120	26	56	1,023.5	823.1	82	32	1,277.0	378.1
												E			135	26	59	1,846.4	.2	82	29	1,377.4	276.9
												F			150	27	02	1,191.0	655.6	82	25	1,646.4	2.1

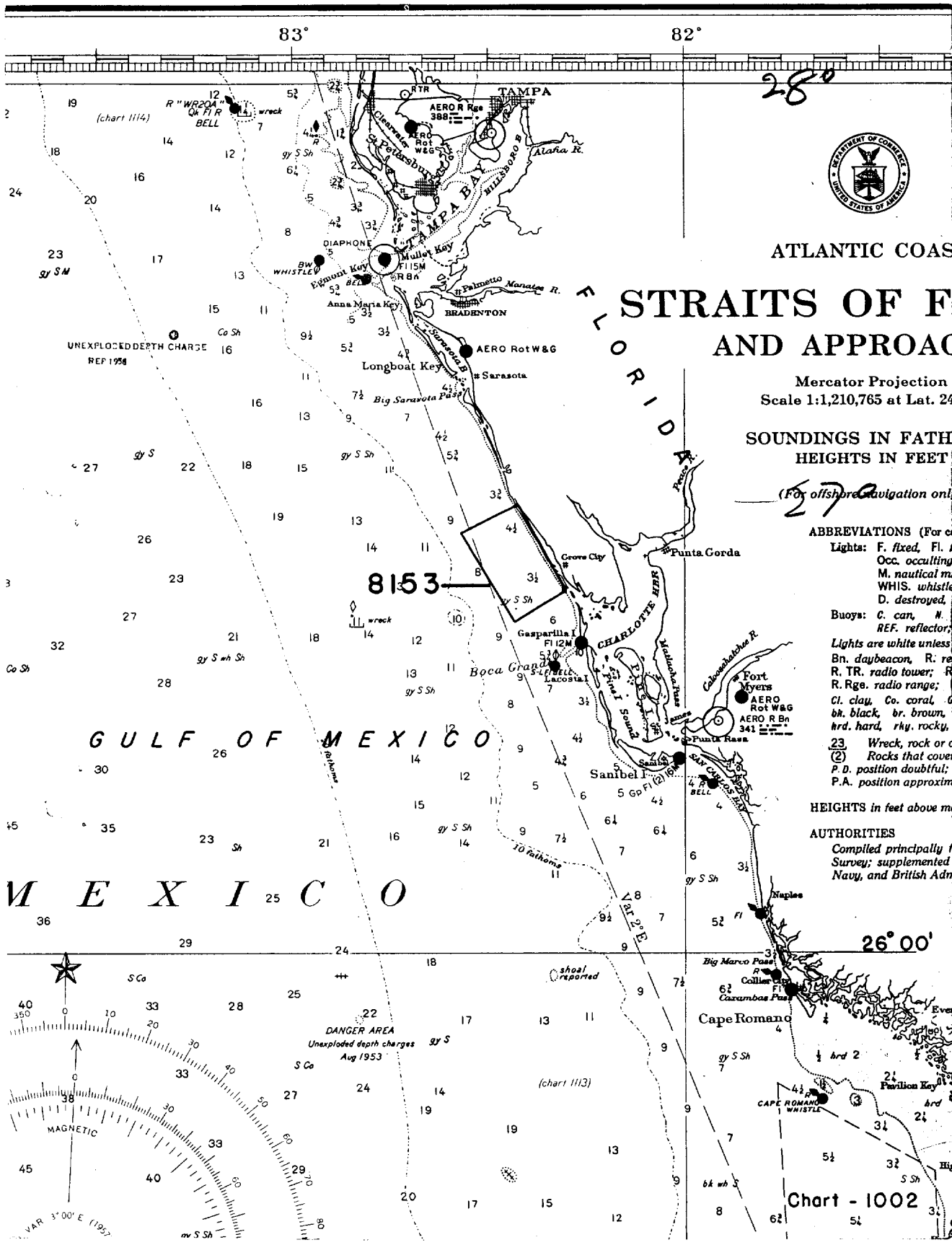
Reduce distance along each azimuth 100 meters for correct plotting of 19 mi circle.

30.777
 33.786

 1039.83

27.5269
 44.044

 1214.249



ATLANTIC COAST

STRAITS OF FLORIDA AND APPROACHES

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

SOUNDINGS IN FATHOMS
HEIGHTS IN FEET

(For offshore navigation only)

ABBREVIATIONS (For explanation of symbols)

- Lights: F. fixed, Fl. flashing, Occ. occulting, M. nautical mark, WHIS. whistle, D. destroyed.
- Buoys: C. can, N. nun, REF. reflector.
- Lights are white unless: Bn. daybeacon, R. red, R. TR. radio tower, R. R. Rge. radio range, Cl. clay, Co. coral, G. green, bh. black, br. brown, hrd. hard, rky. rocky, 23. Wreck, rock or reef, (2) Rocks that cover, P. D. position doubtful, P. A. position approximate.

HEIGHTS in feet above mean low water

AUTHORITIES

Compiled principally from U.S. Hydrographic Survey; supplemented by British Admiralty charts.

Chart - 1002

NAUTICAL CHARTS BRANCH

SURVEY NO. H-8153

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
4-1-57	1003	R. K. DeLaurier	Sheet report examined - no correction made Before After Verification and Review 37102
			Await application to larger scale charts
7-15-57	1255	R. K. DeLaurier	Part. appld Before After Verification and Review 37102
16 July 57	1256	H. MacEwen	Partially applied Before After Verification and Review.
Aug 1, 1957	1113	J. H. Benson	Partially applied. Before After Verification and Review 37102
11/8/57	857	J. A. McGinn	Before After Verification and Review
12/30/58	1003	N. W. Burgoyne	Before ^{preliminary} After Verification and Review - fully applied
1-20-59	1007	R. K. DeLaurier	Before ^{prelim} After Verification and Review thru chrt 1003
27 Mar 59	1002	Wichols	Before ^{prelim} After Verification and Review
	857A+B		thru 1003 above
1 June 61	856-857	Wichols	Before ^{prelim} After Verification and Review Re-application
			in part thru Div "A" in part - direct application
29 Jan 62	1256	"	Before After ^{prelim} Verification and Review Complete
			In part thru 857A, above
9 Apr 62	1255	"	After ^{prelim} V & R - thru chart 1256, above, and 857A, above.

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.