

8195

Diag. Cht. No. 1255-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. S0-1459 Office No. H-8195

LOCALITY

State Florida

General locality West Coast

Locality North Pine Island Sound

1959-60

CHIEF OF PARTY

R. C. Munson

LIBRARY & ARCHIVES

DATE May 22, 1961

USCOMM-DC 5087

8195

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-8195

Field No. SO-1459

State FLORIDA

General locality West Coast

Locality North Pine Island Sound

Scale 1:10,000 Date of survey 1959 and 1960

Instructions dated 12/18/52, Supplemental Instructions 3/2/56,
Revised Instructions 9/8/58, Additional Item 11/10/58.

Vessel USC&GS Ship SOSBEE

Chief of party Robert C. Munson

Surveyed by Bobby S. Woodruff, Gordon N. Orr, Edward L. Talbot,
Robert M. Davidson and David F. S. Galloway, III.

Soundings taken by ~~echo sounder~~, graphic recorder, ~~back-sight~~ and Sounding Pole

Fathograms scaled by Personnel Ship SOSBEE

Fathograms checked by Personnel Ship SOSBEE

Protracted by Fred Bean (Norfolk Processing Office)

Soundings penciled by Fred Bean " " "

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

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

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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-8195

Field No. 80-1459

State FLORIDA

General locality West Coast

Locality North Pine Island Sound

Scale 1:10,000 Date of survey 1959 and 1960

Instructions dated 12/18/52, Supplemental Instructions 3/2/56,
Revised Instructions 9/8/58, Additional Item 11/10/58.

Vessel USC&GS Ship SOSBEE

Chief of party Robert C. Munson

Surveyed by Bobby S. Woodruff, Gordon N. Orr, Edward L. Talbot,
Robert M. Davidson and David F. S. Galloway, III.

Soundings taken by ~~altimeter~~, graphic recorder, ~~book recorder~~ and Sounding Pole

Fathograms scaled by Personnel Ship SOSBEE

Fathograms checked by Personnel Ship SOSBEE

Protracted by Fred Bean (Norfolk Processing Office)

Soundings penciled by Fred Bean " " "

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

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

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DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SURVEY H-8195

(Field Number SO-1459)

West Coast of Florida

North Pine Island Sound

Scale 1:10,000

USC&GS Ship SOSBEE

9/30/59 - 6/7/60

Robert C. Munson, Chief of Party

A. PROJECT

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

Revised instructions dated 8 September 1958.

Additional Item Preliminary Review dated 10 November 1958.

B. SURVEY LIMITS AND DATES

This survey covers the northern portion of Pine Island Sound.

The limits are:

North - Latitude - 26° 42.01' N.
East - West shore of Pine Island
South - Latitude - 26° 37.93' N.
West - East shore of LaCosta Island.

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

Hydrography was begun on 30 Sept. 1959 and suspended on 11 December 1959. Work resumed on 22 April and the sheet was completed 7 June 1960.

Prior surveys in the area are H-797A, 1863, 1:20,000; H-4644, 1927, 1:40,000; and H-1480a, 1878-80, 1:20,000.

Junctions were made with contemporary surveys as follows:

<u>Direction</u>	<u>Registry No.</u>	<u>Field No.</u>	<u>Date</u>	<u>Scale</u>
North	H-8194	SO-1256	1956	1:10,000
South	None H-8555		1960	1:10,000
East	None			
West	None			

See
PJ
Review

B. SURVEY LIMITS AND DATES - Cont.

Generally the work progressed smoothly while hydrography was being executed, although at times it was necessary to regulate the work schedule to the available high tides for work in the large shoal areas. The period from 11 December to 22 April during which no work was done was due to (1) Christmas leave, (2) Shipyard Repairs and (3) Ship personnel working on Boat Sheet 80-20-1-60. H-8571

C. VESSEL AND EQUIPMENT

All hydrography on this sheet was done with Hydrographic Skiff No. 735.

Skiff 735 is a 25 foot, wooden hull, flat-bottom skiff powered by two 10 horsepower outboard motors. When driven by both motors it has a maximum speed of about 6 knots and a turning radius of 25 meters. Only one motor was used when running shoreline and shoal areas. A fluctuating sounding speed, with no change in motor RPM, was often experienced due to the effect of changing depth in areas of approximately 3 feet or less. An attempt was made to offset this by fixing positions at the transition depth but this was not always possible or practical.

Soundings were obtained with 808-J type portable echo sounding recorders nos. 140-SP, 150 and 57-35 in depths of 3 feet or greater. Shoaler depths were measured with a graduated sounding pole.

The skiff based at Frank's Fish Camp near Back Bay at Bokeelia, Florida on Pine Island.

D. TIDE AND CURRENT STATIONS

The Pineland tide gage (Latitude 26° 39'50 N., Longitude 82° 09'25 W.) was used with no time or height correction applied.

Current Station 10 on the east side of Patricio Island was occupied for a 100 hour series of observations.

E. SMOOTH SHEET

The smooth sheet will ^{W43} be plotted by the Norfolk Processing Office.

F. CONTROL STATIONS

<u>TRIANGULATION STATION</u>	<u>Source</u>	<u>Chief of Party</u>	<u>Year</u>
JUG POINT	C&GS	W.B.F.	1909
BROWN	C&GS	W.R.T.	(1860)1909

F. CONTROL STATIONS - Cont.

<u>TRIANGULATION STATION</u>	<u>Source</u>	<u>Chief of Party</u>	<u>Year</u>
PINE ISLAND GRAHAM WILSON			
ESTATE WHITE TANK	C&GS	G.L.A.	(1934)1955
FISH HOUSE	C&GS	I.R.R.	1955
PALMETTO ISLAND			
WATER TANK	C&GS	I.R.R.	1955
SPANISH	C&GS	G.L.A.	(1934)1954
BOKEELIA	C&GS	G.L.A.	1934

<u>Topographic Station</u>	<u>Method</u>	<u>T-Sheet</u>	<u>Chief of Party</u>	<u>Year</u>
PIT	Air-Photo	11399	K.G.C.	(1943)1955
ONE	"	11403	"	"
OUT	"	11403	"	"
ROT	"	11403	"	"
SAL	"	11403	"	"
EDNA	"	11399	A.L.W.	"
Pine Is. Sd. Dybn.	35X	11403	"	"
"	33X	11403	"	"
"	33	11403	"	"
"	38X	11399	"	"
"	29	11403	"	"
"	34	11399	"	"
"	37X	11399	"	"
"	32	11403	"	"
"	Light 31	11403	"	"

Triangulation stations BOKEELIA, BROWN, FISH HOUSE and SPANISH were not used in hydrography.

The line of power poles extending from signal ROB on the north tip of Punta Blanca Island to signal ~~KED~~ (PIT (1943) 1955) on LaCosta Island have been completely removed and are indicated so on the Manuscript T-11399. ^{Map} KED is x out on blackline - but it was used as a signal -

Signal THY (0381; T-11403) and signal WAX (0314, T-11403) were found to be incorrectly located on the manuscript and were located by sextant fixes after being built. These locations are indicated on Attachment 1 - List of Signals.

G. SHORELINE AND TOPOGRAPHY

Shoreline and topography were obtained from advance photogrammetric manuscripts T-11399 and T-11403, compiled by the TAMPA DISTRICT OFFICE.

Shoreline was accurate but man-made changes were noted as follows: ^{P-2 Review}

G. SHORELINE AND TOPOGRAPHY - Cont.

At Lat. $26^{\circ} 41'62''$ N, Long. $82^{\circ} 09'71''$ W a dredged channel now exists where the manuscript shows solid mangroves. ✓

At Lat. $26^{\circ} 41'67''$ N, Long. $82^{\circ} 09'64''$ W and Lat. $26^{\circ} 41'84''$ N, Long. $82^{\circ} 09'58''$ W man-made levees block what is shown as clear channel on the manuscript. ✓

φ 26° 41.84' & 82° 09.60' - Passage is now filled-in to join island to shore -

At Lat. $26^{\circ} 41'80''$ N, Long. $82^{\circ} 08'52''$ W a small boat basin has been dredged extending the shoreline south 40 meters. ✓

In the area of Lat. $26^{\circ} 41'75''$ N, Long. $82^{\circ} 08'88''$ W extensive changes have been made which include: ✓

- a. two new boat channels which run parallel to and of the same length as the channel shown ✓
- b. the complete removal of one small island and the addition of a man-made levee ✓

φ 26° 42.18' & 82° 08.85' - Shoreline change transferred from blackline T-11399 ✓

All the changes are indicated in red on the manuscript and were sketched by the hydrographer using the existing shoreline features as a guide. These minor changes are located accurate enough for charting. *Shoreline changes shown in red on smooth sheet* ✓

H. SOUNDINGS

Depths were measured with 808-J type portable echo sounding recorders, Nos. 140-SP, 150 and 57-35. In depths of three feet and under, a graduated sounding pole was used. There were no unusual corrections applied. ✓

I. CONTROL OF HYDROGRAPHY

The hydrography was controlled principally by three-point fixes. The fixes along the shoreline and in narrow inshore channels were plotted by distances from signals or prominent shoreline relief. Also on infrequent occasions when three signals were not available for a fix, mangrove tangents were used and described in the Sounding Volume. ✓

In the inside channels from Little Bokeelia Bay to Frank's Fish Camp un-numbered channel markers were given numbers for the hydrographer's convenience. These numbers are shown on the boat sheet. ✓

J. ADEQUACY OF SURVEY

The survey is complete and adequate to supercede prior surveys for charting. *TP6 Review*

Junction with the adjoining survey is satisfactory, no holidays or excessive differences exist and the depth curves can be accurately drawn. *TP5 Review*

K. CROSSLINES

Fifty-six and three tenths statute miles or 8.2% ✓
crosslines were run with no notable discrepancies.

L. COMPARISON WITH PRIOR SURVEYS

All soundings from H-1480a, 1879-80, 1:20,000 are plotted on the boat sheet in yellow ink and soundings from H-4644, 1927, 1:20,000 are shown in green ink. Comparison with these surveys was made as the soundings were inked on the sheet and the agreement was very good. *P-6 Review*

Comparison was made with sheet H-797a, 1863, 1:40,000 and the following difference was noted: H-797a shows the area in the vicinity of Latitude 26° 41:90 N, Longitude 82° 12:25 W ✓ to be all good water over 6 feet deep. This survey proves that this is not the case and that an extensive shoal reaching a depth of zero feet covers the area. *P6A Review*

M. COMPARISON WITH CHART

A comparison was made with Chart 474, 1:40,000, 15th *P7A Review*
Edition, Revised 3/10/58. The comparison was generally favorable with the following exceptions:

1. The chart shows the part of the six-foot curve near Latitude 26° 41:90 N, Longitude 82° 12:25 W as a continuous arm of the main channel up between the two oyster bars shown. ✓ This survey shows that this curve actually ends at Latitude 26° 41:83 N, Longitude 82° 12:05 W and resumes later as an isolated deep between the two oyster bars.

2. The chart shows a continuous channel of six feet or greater extending up from the south on the East side of Useppa Island and westward between Useppa Island and Mondongo Island. ✓ The six-foot curve on this sheet is drawn through the area of six foot depths south of Pine Island Light 31 to join the two shoal areas and therefore cuts off the indicated channel.

3. This survey discloses an isolated six foot area at ^{6ft shoal} Latitude 26° 40:27N, Longitude 82° 13.35' W which is in the ^{shown on} main channel where the chart shows no shoal. *Chart 474 (10-30-61)*

4. The chart shows a continuous channel inside the six foot curve which runs continuously from the east side of Useppa Island northward and past the east side of Mondongo Island. This survey shows ~~that the area east of Mondongo Island is an isolated deep which is cut off from the main channel by an extensive six-foot area.~~ *less than 6 ft*

M. COMPARISON WITH CHART - Cont.

5. The chart indicates a piling at Latitude 26° 38!6 N, Longitude 82° 13!2 W. In compliance with Item 16, Additional Item Preliminary Review; dated 10 November 1958, a twenty-~~Deleted~~ five minute search was made and no indications were found *from Chart 474(10-30-61)* of the charted piling. It is recommended that the piling be deleted from the chart.

6. The line of three piling charted at Latitude 26° 39!78 N, Longitude 82° 10!30 W no longer exist. *Deleted from Cht 474(10-30-61)*

7. The pile charted at Latitude 26° 39!70 N, Longitude 82° 10!22 W no longer exists. *Deleted from Cht 474(10-30-61)*

8. The pile charted at Latitude 26° 39!66 N, Longitude 82° 10!18 W no longer exists. This pile is the southern one of two and is signal BLO (0346, T-11403) that was destroyed during hydrography. *Delete pile*

9. The overhead power line extending from the north end of Punta Blanca Island to Lacosta Island no longer exists. This was reported under Section F. CONTROL STATIONS. *Deleted from Chart 474(10-31-61)*

N. DANGERS AND SHOALS

No reportable dangers or shoals. ✓

O. COAST PILOT INFORMATION

A Special Coast Pilot Report will be submitted on an area basis. ✓

P. AIDS TO NAVIGATION

Fixed aids to navigation are listed under topographic stations in Section F. CONTROL STATIONS with the following exceptions:

1. Pine Island Sound Daybeacon 34X 1960 was erected while hydrography was in progress and was located by sextant fix and used as signal JOY. The location is recorded in Volume 14 on Page 66.

2. On 6 June 1960, Pine Island Sound Daybeacon 35X (signal BIG) was found knocked over and awash. It is not known if the beacon has been restored.

Q. LANDMARKS FOR CHARTS

No new landmarks located. Landmarks on this sheet were reported on Form 567 by H.C. Applequist on 14 December 1955.

R. GEOGRAPHIC NAMES

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

S. SILTED AREAS

None.

T. BY PRODUCT INFORMATION

None.

U. VELOCITY CORRECTION

A Velocity Correction Abstract is appended.

VNXY.

Non applicable.

Z. TABULATION OF APPLICABLE DATA

1. Boat Sheet H-8195 (SO-1459).*
2. Manuscripts T-11399 and T-11403.*
3. List of Control Stations.
4. Statistics
5. Tide Note
6. Descriptions of Photo-hydro Stations.*
7. Recovery Notes of marked stations.**
8. Tide Records (marigrams).*
9. Fathograms.*
10. Velocity Correction Abstract.
11. Index of Hydrographic Sheets.
12. Approval Sheet.
13. Record of Temperatures, Salinities, and Theroretical Velocities, Form 717.

* submitted under separate cover.
** submitted by Tampa District Office.

Approved & Forwarded by:

Robert C. Munson
Robert C. Munson,
C. O. Ship SOSBEE.

Submitted by,

Edward L. Talbot
Edward L. Talbot,
Ensign, C & G S.

LIST OF SIGNALS

H-8195 SO-1459

North Pine Island Sound

NAME	NUMBER	T-SHEET	Triang. & Topo. Station
ACE	- 03137	- 11403	
AMY	- 03109	- 11403	
ANK	- 03195	- 11403	
ANN	- 9978	- 11399	
ANT	- 9993	- 11399	
ARK	- 03157	- 11403	
ASM	-	- 11403	- ONE (1943) 1955
AXE	- 0341	- 11403	
AZO	- 0351	- 11403	
BAG	- 9927	- 11399	
BAN	- 03177	- 11403	
BAY	- 9940	- 11399	
BEN	- 0331	- 11403	
BET	- 0352	- 11403	
BIG	- 03127	- 11403	- Pine Isd. Sd. Dybn. 35X 1955
BIT	- 03126	- 11403	- " " " " 33X 1955
BLO	- 0346	- 11403	
BOB	- 9966	- 11399	
BOX	- 03121	- 11403	
BOY	- 03185	- 11403	
BUG	- 0368	- 11403	
BUS	- 0330	- 11403	
BUT	- 03132	- 11403	
BUZ	- 0338	- 11403	
CAN	- 0398	- 11403	
CAR	- 0328	- 11403	
CAT	- 0315	- 11403	
COD	- 9971	- 11399	
CON	- 9974	- 11399	
COT	- 03114	- 11403	
COW	- 0309	- 11403	
COX	- 0382	- 11403	
CRY	- 9931	- 11399	
CUX	- 03155	- 11403	
DAD	- 03162	- 11403	
DAN	- 03108	- 11403	
DAR	- 03180	- 11403	
DAY	- 03105	- 11403	- " " " " 33 1955
DIP	- 9965	- 11399	
DIX	- 9953	- 11399	
DOC	- 9934	- 11399	
DOG	- 03193	- 11403	

LIST OF SIGNALS

H-8195 SO-1459

North Pine Island Sound

NAME	NUMBER	T-SHEET	Triang. & Topo. Station
DON	- 03187	-	11403
DOX	- 9985	-	11399
DUO	- 03184	-	11403
EAR	- 0395	-	11403
EAT	- 9979	-	11399
EGG	- 0373	-	11403
EGO	- 03170	-	11403
ELF	- 03176	-	11403
ELK	- 0326	-	11403
EMP	- 03143	-	11403
ERN	- 03173	-	11403
EVA	- 0362	-	11403
FAG	- 0342	-	11403
FEW	- power pole-	-	11399 - bricked direct
FISH	- 0387	-	11403
FIZ	- 9905	-	11399
FLY	- 0356	-	11403
FOX	- 0322	-	11403
GAD	- 9996	-	11399
GAL	- 9981	-	11399
GAM	- 03191	-	11403
GAZ	- 9991	-	11399
GEM	- 03136	-	11403
GET	- 03117	-	11403
GOO	- 0349	-	11403
GOT	- 0325	-	11403
GUS	- 03128	-	11403
GUY	- 03134	-	11403
HAG	- 0329	-	11403
HAM	- 0391	-	11403
HAT	- 03102	-	11403
HER	- 0378	-	11403
HEX	- 9928	-	11399
HID	- 0321	-	11403
HIS	- 9973	-	11399
HOE	- 03182	-	11403
HUG	- 03142	-	11403
HUL	- 03111	-	11403
ICE	- 9963	-	11399 - Pine Isd. Sd. Dybn. 38X 1955
IDA	- 9986	-	11399
ILL	- 03113	-	11403
INN	- 03164	-	11403

LIST OF SIGNALS

H-8195 SO-1459

North Pine Island Sound

NAME	NUMBER	T-SHEET	Triang. & Topo. Station
IRK	- 0377	- 11403	
ISM	- 03158	- 11403	
ISY	-	- 11403	- Pine Island Sound Dybn. 29 1955
IVY	- 9904	- 11399	
JAP	- 03129	- 11403	
JAY	- pile	- 11403	- pricked direct
JIB	- 9968	- 11399	
JIM	- 9967	- 11399	
JOE	- 9933	- 11399	
JOY	- sextant	- 11403	- ((sextant fix Vol. 14, page 66) - Pine Island Sound Dybn 34X 1960
JUG			JUG POINT, 1909-43
KAY	- 03140	- 11403	
KED	- 9921	- 11399	- Pit (1943) 1955
KEL	- 0339	- 11403	
KEN	- 0360	- 11403	
KIM	- 03116	- 11403	
KIP	- pile	- 11399	- pricked direct
LAD	- 0323	- 11403	
LAN	- 9946	- 11399	- Pine Island Sound Dybn 34 1955
LAX	- 9977	- 11399	
LEE	- 0337	- 11403	
LEG	- 03110	- 11403	
LES	- 0374	- 11403	
LEW	- 0345	- 11403	
LIM	- 0390	- 11403	
LIT	- 0332	- 11403	
LOK	- 03190	- 11403	
LOT	- 03156	- 11403	
LOX	- 9922	- 11399	
LUG	- 0357	- 11403	
MAG	- 03169	- 11399	
MAP	- telephone pole	- 11399	- pricked direct
MAR	- 9984	- 11399	
MAS	- 9970	- 11399	
MEL	- 9956	- 11399	
MET	- 0333	- 11403	
MOM	- 03161	- 11403	
MOP	- 9951	- 11399	
MUG	- 9976	- 11399	
MUN	- 03186	- 11403	
MUR	- 03139	- 11403	
NAG	- 03163	- 11403	
NAP	- 03106	- 11403	
NAT	- 0310	- 11403	

LIST OF SIGNALS

H-8195 SO-1459

North Pine Island Sound

NAME	NUMBER	T-SHEET	Triang. & Topo. Station
NAV	- 0365	-	11403
NAY	- 9930	-	11399
NED	- 03198	-	11403
NEW	- 9994	-	11399
NIG	- 0358	-	11403
NIX	- 9906	-	11399
NOB	- 0343	-	11403
NOR	- 0397	-	11403
NOX	- 03144	-	11403
NUL	- 9902	-	11399
NUT	- 9938	-	11399
OAK	- 9955	-	11399
OBI	- 03194	-	11403
OHM	- 0396	-	11403
OIL	- 9932	-	11399
OLD	- 9941	-	11399
OOT	- 03165	-	11403
ORA	- 03135	-	11403
OSM	- 03146	-	11403
OUT	- 0355	-	11403 - OUT (1943) 1955
OWL	- 0370	-	11403
PAD	- 03123	-	11403
PAM	- 0327	-	11403
PAR	- 03141	-	11403
PAT	- 0335	-	11403
PEE	- 0393	-	11403
PEG	- 9995	-	11399
PET	- 03197	-	11403
PIG	- 03120	-	11403
PIL	- 0324	-	11403
PIN	- pile	-	11403 - pricked direct
PIR	- 03115	-	11403
PIX	- 03133	-	11403
PIZ	- 9992	-	11399
POL	- 9983	-	11399
PUD	- 03145	-	11403
PUM	- 03188	-	11403
QUE	- 03119	-	11403
QUO	- 0318	-	11403
RAH	- 0350	-	11403
RAM	- 9959	-	11399
RAP	- 0394	-	11403
RAY	- 0389	-	11403

LIST OF SIGNALS

H-8195 SO-1459

North Pine Island Sound

NAME	NUMBER	T-SHEET	Triang. & Topo. Station
RIG	- 0336	- 11403	
RIP	- 03124	- 11403	
ROB	-	- 11399	- telephone pole - pricked direct
ROC	- 9937	- 11399	
ROT	-	- 11403	- ROT (1943) 1955
ROY	- 9972	- 11399	
RUE	- 03154	- 11403	
RUM	- 9987	- 11399	
SAL	- 0340	- 11403	
SET	- 9988	- 11399	
SEX	- 0379	- 11403	
SIN	- 03107	- 11403	
SIP	- 0311	- 11403	
SIR	- 03125	- 11403	
SKY	- 0348	- 11403	
SNO	- 9964	- 11399	
SOL	- 0364	- 11403	- SAL (1943) 1955
SON	- 03118	- 11403	
SOP	- 03167	- 11403	
SOS	- 03189	- 11403	
SOT	- pile	- 11399	- pricked direct
SOW	- 0363	- 11403	
SOX	- 9952	- 11399	
SOY	- 0369	- 11403	
STY	- 03192	- 11403	
SUE	- 9962	- 11399	- Pine Island Sound Dybn. 37X 1955
TAL	- 03196	- 11403	
TAN	- 0312	- 11403	
TANK	- Tank	- 11399	- Pine Island Graham Wilson Estate White Tank 1934
TAP	- 03172	- 11403	
TAT	- 0354	- 11403	
TED	- 0359	- 11403	
TEP	- 9915	- 11399	- EDNA 1955
TEX	- 03183	- 11403	
THY	- sextant	- 11403	- sextant Fix Vol. 10, page 46.
TIN	- 0399	- 11403	
TIP	- 0320	- 11403	
TIX	- 03159	- 11403	
TOE	- 0347	- 11403	
TOM	- 9942	- 11399	
TOT	- 03104	- 11403	- Pine Island Sound Dybn. 32 1955
TOY	- 9926(03175)-	- 11399	
TRI	- 0334	- 11403	

LIST OF SIGNALS

H-8195 SO-1459

North Pine Island Sound

NAME	NUMBER	T-SHEET	Triang. & Topo. Station
TRY	- 0308	- 11403	
TWO	- 03112	- 11403	
UGH	- 9944	- 11399	
UNO	- 03179	- 11403	
USE	- 9950	- 11399	
UTE	- 9975	- 11399	
VAL	- 9969	- 11399	
VAN	- 9980	- 11399	
VEE	- 03171	- 11403	
VIA	- 0388	- 11403	
WAD	- 0371	- 11403	
WAR	- 9990	- 11399	
WAT	- 03130	- 11403	- Palmetto Island White Tank 1955
WAX	- sextant	- 11403	- Sextant Fix Vol. 12, page 19.
WHO	- 03166	- 11403	
WID	- 0375	- 11403	
WIL	- 03178	- 11403	
WIN	- 9958	- 11399	
WOO	- 03160	- 11403	
XIT	- 03103	- 11403	- Pine Island Sound Light 31 1955.
YAK	- 9943	- 11399	
YAM	- 9954	- 11399	
ZAG	- 03174	- 11403	
ZAP	- 03100	- 11403	
ZIG	- 9903	- 11399	
ZOO	- 9982	- 11399	
Piling No.	1	- 11399	- pricked direct
"	" 2	- 11399	" "
"	" 5	- 11399	" "
"	" 13	- 11399	" "
"	" 14	- 11399	" "
"	" 15	- 11399	" "
"	" 16	- 11399	" "
"	" 20	- 11399	" "
"	" 21	- 11399	" "
"	" 22	- 11399	" "
"	" 25	- 11399	" "
"	" 12	- 11399	" "

STATISTICS
for
HYDROGRAPHIC SURVEY H-8195 (SO-1459)
Project GS-353 North Pine Island Sound
Skiff No. 735

DATE	DAY LETTER	VOLUME NUMBER	NUMBER OF POSITIONS	STATUTE MILE OF SOUNDINGS
9/30/59	a	1	123	28.17
10/14/59	b	1	160	32.20
10/22/59	c	2	102	16.44
10/27/59	d	2	35	4.5
11/5/59	e	2	87	16.21
11/10/59	f	3	86	13.8
11/11/59	g	3	119	22.54
11/12/59	h	3 & 4	139	21.0
11/16/59	j	4	100	15.5
11/17/59	k	4	54	9.7
11/23/59	l	4 & 5	105	18.86
11/24/59	m	5	112	18.51
12/11/59	n	5	90	12.42
4/22/60	p	6	143	24.84
4/25/60	q	6	56	18.17
4/26/60	r	6 & 7	124	23.46
4/27/60	s	7	132	27.25
4/28/60	t	7	111	13.6
5/2/60	u	8	150	23.57
5/3/60	v	8	121	16.1
5/4/60	w	9	132	15.18
5/5/60	x	9	123	23.23
5/9/60	y	10	115	24.03
5/10/60	z	10	122	21.73
5/11/60	aa	10 & 11	128	24.84
5/12/60	ba	11	44	8.74
5/13/60	ca	11	138	26.4
5/16/60	da	12	85	11.84
5/17/60	ea	12	100	14.14
5/18/60	fa	12	114	17.5
5/19/60	ga	13	82	9.66
5/20/60	ha	13	88	11.96
5/23/60	ja	13	87	12.65
5/25/60	ka	13 & 14	115	15.64
5/26/60	la	14	95	14.14
5/31/60	ma	14	59	8.05
6/1/60	na	14 & 15	86	10.81
6/2/60	pa	15	130	12.3
6/3/60	qa	15	108	9.9
6/6/60	ra	15	46	2.99
6/7/60	sa	15	33	3.45
Grand Total			4179	675.70

Area = 21.61 square statute miles.

TIDE NOTE

for

H-8195 80-1459

The portable tide gage on the boat dock at Pineland Fish Camp, Pine Island, Florida was used to control the survey. No time or height correction was applied to observed tides.

The gage is located at Latitude $26^{\circ} 39.50'$ N., Longitude $82^{\circ} 09.25'$ W. and 3.0 feet on the staff was used as Mean Low Water.

ABSTRACT OF BAR CHECKS

Skiff No. 735

H-8195

80-1459

Depths in feet		4	5	6	8	10	11	12	Gain	Initial Vol.	Page	Remarks	
Dates	Day Letter	Velocity Correction in Feet						Bet					
9/30/59	a				None				7	0.6	1	Fath.	
10/14/59	b		0.0	0.0	0.0	0.0			7	0.6	1	No.	
10/22/59	c		0.0	0.0	0.0	0.0			7	0.6	2	140-SP	
10/27/59	d		0.0	0.0	0.0	0.0		0.0	7	0.6	2	used	
11/5/59	e		0.0	0.0	0.0	0.0			7	0.6	2	thru	
11/10/59	f		0.0	0.0	0.0				7	0.6	3	5	
	f		0.0	0.0	0.0				7	0.6	3	5	
11/11/59	g		0.0	0.0	0.0				7	0.6	3	25	
11/12/59	h		0.0	0.0	0.0				7	0.6	3	26	
11/16/59	i		0.0	0.0	0.0				7	0.6	3 & 4	15035	
	j		0.0	0.0	0.0	0.0			7	0.6	4	thru	
	j		0.0	0.0	0.0	0.0			7	0.6	4	n-day;	
11/17/59	k				None				7	0.6	4	47	
11/23/59	l		0.0	0.0	0.0	0.0			7	0.6	4	other.	
	l		0.0	0.0	0.0	0.0			7	0.6	4	57-35	
11/24/59	m		0.0	0.0	0.0	0.0		0.0	7	0.8	4	thru	
12/11/59	n		0.0	0.0	0.0	0.0			7	0.6	4	70	
	n		0.0	0.0	0.0	0.0			7	0.6	4	sa-day.	
4/22/60	p			0.0	None				7	0.6	5	23	
4/25/60	q			0.0	0.0				7	0.4	5	20	
4/26/60	r			0.0	None				7	0.4	6		
4/27/60	s	0.0	0.0	0.0	0.0	0.0			7	0.4	6	13	
4/28/60	t				0.0	0.0			7	0.4	7	26	
5/2/60	u				None				7	0.6	7		
5/3/60	v				None				7	0.6	7		
5/4/60	w				None				7	0.6	8		
5/5/60	x	+0.2		0.0	None				7	0.6	8		
5/9/60	y				None				5	0.6	8		
5/10/60	z		0.0	0.0	-0.2	+0.2			5	0.6	8	62	
	z		0.0	0.0	0.0	0.0		0.0	6	0.6	10	Poor	
	z		0.0	0.0	0.0	0.0		0.0	6	0.6	10	59	

Attachment No. 4.

ABSTRACT OF BAR CHECKS

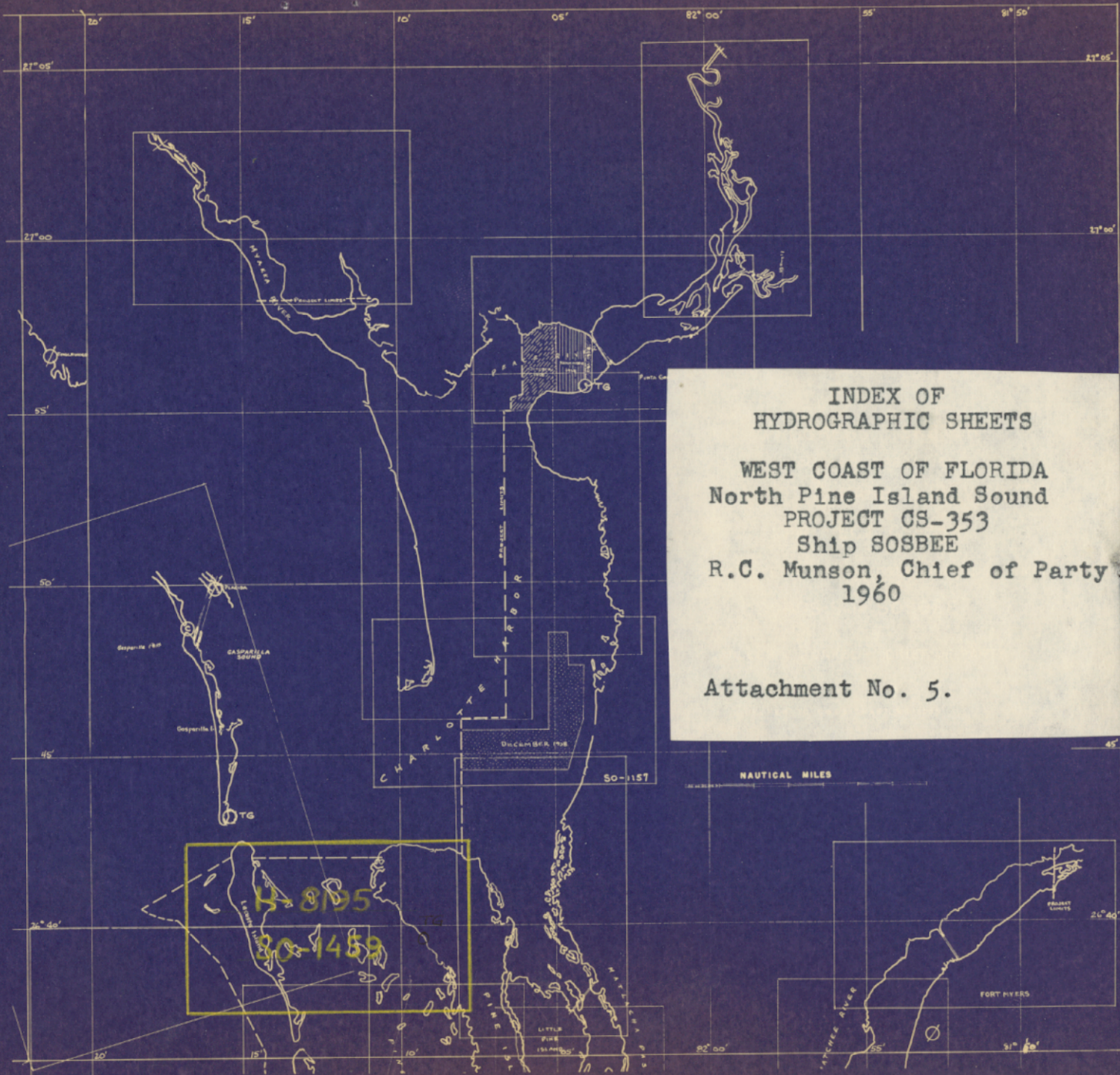
Skiff No. 735

H-8195

80-1459

Depths in Feet		4	5	6	8	10	11	12	Gain	Initial	Vol.	Page	Remarks	
Dates	Day Letter	Velocity Correction in Feet							Set					
5/11/60	aa	0.0	0.0	0.0	0.0	0.0			6	0.6	11	20		
5/12/60	ba	0.0	0.0	0.0	0.0	0.0		0.0	6	0.6	11	25		
5/13/60	ca		0.0	0.0	0.0	0.0	0.0		6	0.6	11	35	*L.L.-	
5/16/60	da	0.0	0.0	0.0	0.0	0.0		0.0*	6	0.6	12	23	Comp.	
5/17/60	ea	0.0	0.0	0.0	0.0	0.0	0.0*		6	0.6	12	24	*L.L.Comp.	
5/18/60	fa	0.0	0.0	0.0	0.0	0.0	0.0*		6	0.6	12	48	*L.L.Comp.	
5/19/60	ga	0.0	0.0	0.0	0.0	0.0	0.0*		6	0.6	13	3	*L.L.Comp.	
5/20/60	ha	0.0	0.0	0.0	0.0	0.0		0.0	6	0.6	13	25		
5/23/60	ja	0.0	0.0	0.0	0.0	0.0			6	0.6	13	62		
5/25/60	ka	0.0	0.0	0.0	0.0	0.0			6	0.6	13	64		
5/26/60	la	0.0	0.0	0.0	0.0	0.0		0.0	6	0.6	14	22		
5/31/60	ma	0.0	0.0	0.0	0.0	0.0		0.0	6	0.6	14	43		
6/1/60	na	0.0	0.0	0.0	0.0	0.0		0.0	6	0.6	14	58		
6/2/60	pa	0.0	0.0	0.0	0.0				6	0.6	15	31		
6/3/60	qa				None						15			
6/6/60	ra				None						15			
6/7/60	sa				None						15			
Mean		0.0	0.0	0.0	0.0	0.0	0.0	0.0						

Velocity Correction is 0.0 feet for the entire sheet.



INDEX OF
 HYDROGRAPHIC SHEETS

 WEST COAST OF FLORIDA
 North Pine Island Sound
 PROJECT GS-353
 Ship SOSBEE
 R.C. Munson, Chief of Party
 1960

 Attachment No. 5.

Attachment No. 5.

Approval Sheet

This survey is complete and adequate and no further field work is recommended. The Chief of Party consulted with the hydrographers and inspected the boat sheet and records daily during the execution of the survey.

The records are approved and have been forwarded to the Norfolk Processing Office.

The boat sheet is approved and will be forwarded to the Washington Office.

Approved By,

Robert C. Munson

Robert C. Munson
Chief of Party

RECORD OF TEMPERATURES, SALINITIES, AND THEORETICAL VELOCITIES

Ship or party SOSBEE Robert C. Munson, Chief of party. Feb 12 May, 1960
 Locality North Pine Island Sound, Florida Project C5-353 Survey No. 50-1459

Date	Time 75° Hour.	Latitude and Longitude	Depth	TEMP. AT DEPTH		SPECIFIC GRAVITY		AT TEMP.		Salinity	Velocity at temp.	CORRECTIONS		Velocity (theoretical)	Therm. No.	Hydro. No.	Remarks (weather, bottom, etc.)
				Obs.	Cor.	Obs.	Cor.	Sal.	Pres.								
5/12	10 39	26° 39.30'	Bottom FEET 13 B	24.8	24.8	1.0225	1.0248	—	24.8	33.4	1531.2	M/S. -1.8	M/S. 1529.4	84950	1127	W. - bc Wing. SW 3 Bottom - fine S. brk. Sh.	
	10 45		Surface	25.2	25.2	1.0226	1.0250	—	25.2	33.7	1532.2	M/S. -1.4	M/S. 1530.8	84950	1127		
5/20	11 17	26° 39.30'	12.88	28.0	28.0	1.0210	1.0242	—	28.0	32.7	1538.7	M/S. -2.4	M/S. 1536.3	84950	1127	calm - clear - heavy Bottom: fine S	
	11 04	26° 13.07'	surface	28.3	28.3	1.0206	1.0238	—	28.3	32.1	1537.4	M/S. -3.0	M/S. 1536.4	84950	1127		
6/1	10 05	26° 40.88'	14.08	26.4	26.4	1.0211	1.0238	—	26.4	32.1	1535.0	M/S. -3.1	M/S. 1531.9	84950	1127	calm - clear	
	10 14	26° 41.83'	surface	26.4	26.4	1.0210	1.0237	—	26.4	32.0	1535.0	M/S. -3.2	M/S. 1531.8	84950	1127	Bottom: fine S	

No. 10
 Observed by L. J. Talbot
 Verified by R. E. S. Gallaway
 Computed by R. M. Munson
 Checked by

* If depth recorded is bottom indicate thus: 995 B
 † Express in parts/1000. If by titration indicate thus: 34.16 T

NORFOLK PROCESSING OFFICE
ADDENDUM
To Accompany

HYDROGRAPHIC SURVEY H-8195 (So-1459)

GENERAL

The bottom in the area of this survey, particularly in the shoaler depths, is extremely irregular. Soundings at crossings are in generally good agreement but there are a great many areas of sandwaves, lumps, potholes, and grass so dense the true bottom is blanked out on the fathogram, causing some question as to the reliability of the fathometer readings. Where these grassy conditions occurred, the hydrographer obtained a great many pole soundings, how-ever, the number was not extensive enough in some instances to give coverage without relying on fathometer soundings.

There are also a great many narrow sloughs and channels whose limits and continuity could not be followed because of a lack of soundings, or because of minor displacement due to the erratic times and courses usually associated with skiff work in shoal water. *Limits of sloughs and channels transferred to smooth sheet from photographs where hydrographic information inadequate.*

It is believed that air-photographs will prove useful during verification for delineating the limits of channels, out-lining shoal areas, and as a guide for smoothing depth curves. It is also believed that pole soundings should be inked first in grassy areas so they may be used as a guide for correcting, or possibly rejecting questionable fathometer soundings.

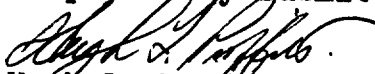
STATION DESCRIPTIONS

Descriptions for some of the photo-hydro stations were omitted on the smooth sheet as they were not furnished this Office.

Station Descriptions added from Desc. Cards where available.

Norfolk, Va.
16 May 1961

Respectfully submitted,


Hugh L. Proffitt
Cartographer

GEOGRAPHIC NAMES

Survey No.

Name on Survey	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On Chart No.</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On previous survey No.</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On U. S. quadrangle Maps</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">From local information</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On local Maps</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">P. O. Guide or Map</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Rand McNally Atlas</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">U. S. Light List</div> </div>										
	A	B	C	D	E	F	G	H	K	BAN	
Narrows Cove	not to be applied to Hydro Sheet 1										
Murdoch Bayou	474										2
Primo Bay	474										3
Useppa Oyster Bar	not to be applied to Hydro Sheet 4										
Mondonga Rocks	"	"	"	"	"	"	"	"	"	"	5
THE Narrows	"	"	"	"	"	"	"	"	"	"	6
Platt Pt.	474										7
Water Turkey Bayou	not to be applied to Hydro Sheet 8										
Buzzard Roost	not to be applied to Hydro Sheet 9										
Wood Key	"	"	"	"	"	"	"	"	"	"	10
The White Stop	"	"	"	"	"	"	"	"	"	"	11
Big Jim Creek	✓										12
Foster Bayou	✓										13
Cat Key	not to be applied to Hydro Sheet 14										
Cove Key	"	"	"	"	"	"	"	"	"	"	15
Black Key	"	"	"	"	"	"	"	"	"	"	16
Coon Key	"	"	"	"	"	"	"	"	"	"	17
Little Bokeelia Bay	474									✓	18
Back Bay	474										19
Jug Creek	474										20
Shell Cut	474										21
Allen Creek	✓										22
Tom Bay	✓										23
Pelican Pass	474										24
Jug Creek Shoal	474										25
Wilson Cut	✓										26
Rocky Channel	1255										27

G. B. Ba
16 May 62
see attached note

GEOGRAPHIC NAMES

Survey No. H-8195

Name on Survey	Source										Number	
	A	B	C	D	E	F	G	H	K	BEN		
Cabbage Key	x									x		1
Lacosta Island	x									x		2
Mondongo Island	x											3
Patricio Island	x											4
Pelican Bay	x											5
Pine Island	x											6
Pine Island Sound	x											7
Pine land	x											8
Point Blanco	x	<i>(atand. town name not physical features)</i>								x		9
Useppa Island	x											
												11
												12
												13
Punta Blanca I.	✓											13
Middle Key		<i>(not to be used for charting)</i>										14
Bird Key												
Primo Pt.	N											16
Part Island	✓											17
Broken Islands	✓	<i>(incorrect on sheet.)</i>										18
Little Bokeelia I.	✓									✓		19
Bokeelia I	✓									✓		20
BOKEELIA	✓											21
Josslyn I.	✓	<i>incorrectly named on sheet</i>										22
Rat Key		<i>(not to be used for charting)</i>										23
Orange Pass	✓											24
	474											25
												26
												27

George D. Bace
Geographic Names Section
30 October 1961

George D. Bace
26 March 1962

BEN

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. 8195

Records accompanying survey: Smooth sheets .1...;
 boat sheets .1...; sounding vols. .15...; wire drag vols.;
 Descriptive Reports .1...; graphic recorder envelopes .20...;
 special reports, etc. 1-Blackline Impression T-11399
 1-Boat Sheet Overlay

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

Number of positions on sheet	4176
Number of positions checked	73
Number of positions revised	2
Number of soundings revised (refers to depth only)	163
Number of soundings erroneously spaced	0
Number of signals erroneously plotted or transferred	0
Topographic details	Time 2 hr
Junctions	Time 3 hr
Verification of soundings from graphic record	Time 4 hr
Special adjustments	Time 0

Verification by *George F. Merrill* Total time 364 Date 1-21-62

Reviewed by *G. Jeskind* Time 52 Date 3/7/62

17 May 1962

Due to the disagreement between our Sept. 1961 field investigation report, the USGS quad "Bokeelia", 1958, and previous T sheets; hence a great number of names listed on Form 197 should not be applied to this Hydro Sheet. These discrepancies are now pending action by the U.S. Board on Geographic Names.


Geographic Names Section

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~DIVISION OF COAST AND GEODETIC SURVEY~~

9 August 1961

Division of Charts: R. H. Carstens

Plane of reference approved in
15 volumes of sounding records for

HYDROGRAPHIC SHEET 8195

Locality North Pine Island Sound, Florida

Chief of Party: R. C. Munson (1959 & 1960)
Plane of reference is mean low water, reading
3.0 ft. on tide staff at Pineland Fish Camp, Pine Island, Florida
3.9 ft. below B. M. 1 (1959)

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

Condition of records satisfactory except as noted below:

Burt W. Wilcox
Chief, Tides and Currents Branch

~~Chief, Division of Tides and Currents~~

OFFICE OF CARTOGRAPHY

REVIEW SECTION -- NAUTICAL CHART DIVISION

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8195

FIELD NO. SO-1459

Florida, West Coast, North Pine Island Sound

SURVEYED: September 1959 - June 1960

SCALE: 1:10,000

PROJECT NO. CS-353

SOUNDINGS: 808 Depth Recorder
Sounding Pole

CONTROL: Sextant fixes
on shore signals

Chief of Party ----- R. C. Munson
Surveyed by ----- B. S. Woodruff, G. N. Orr,
E. L. Talbot, R. M. Davidson, and
D. F. S. Galloway, III
Protracted by ----- F. Bean
Soundings plotted by ----- F. Bean
Verified and inked by ----- G. F. Merrill
Reviewed by ----- I. M. Zeskind
Inspected by ----- R. H. Carstens

DATE 3-7-62

1. Description of the Area

This is a survey of the northern part of Pine Island. The bottom is fairly irregular with shoals, flats, deeps, oyster bars, and ridges contributing to the bottom irregularity. Several natural channels indent the bottom. A number of small islands, the majority of which are covered by mangrove, fall within the area of the present survey.

2. Control and Shoreline

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

The shoreline originates with unreviewed photogrammetric survey T-11399 and T-11403 of 1953-55, supplemented by corrections to the shoreline transferred in red to the smooth sheet from the boat sheet of the present survey.

3. Hydrography

Depths at crossings are in good agreement. The usual depth curves are adequately delineated. The 3-foot curve was drawn to better delineate the bottom configuration. Photographs used in compiling the photogrammetric surveys covering the area of the present survey were used as an aid in drawing some of the curves. In general the development of the bottom configuration and least depths was adequate.

4. Condition of Survey

A. The sounding records and Descriptive Report are complete and comprehensive.

B. The smooth plotting was accurately done.

5. Junctions

Adequate junctions were effected with H-8194 (1956-57) on the north and H-8555 (1960) on the south.

6. Comparison with Prior Surveys

- A. H-797a (1863), 1:40,000
 H-797b (1867), 1:20,000
H-1480a (1879-80), 1:20,000

These early reconnaissance surveys cover the area of the present survey. A comparison between the prior and present surveys reveals changes in shoreline and bottom configuration which are attributed to natural and artificial causes, such as the action of the current on the bottom, the accreting or eroding of the shoreline, and dredging operations. In general only 1-2 foot differences in depths are noted, except in several areas where differences of as much as 4 feet are found. An example of this latter difference in depths occurs in latitude $26^{\circ} 41.52'$, longitude $82^{\circ} 13.08'$, where a prior depth of 1 foot falls in present depths of 5 feet. Accretion and erosion of the shorelines of some of the islands falling within the area of the present survey are noted. An example of this occurs on Punta Blanca Island whose shoreline has eroded about 1/2 mile at its northwest end and has accreted about 80 meters at its southwest end. A former island in the vicinity of latitude $26^{\circ} 41.0'$, longitude $82^{\circ} 10.5'$ now forms part of the mainland.

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

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

This survey covers the portion of the present survey which extends about 1/2 mile east of Punta Blanca Island and the area between this island and the eastern shore of La Costa Island. A comparison between the prior and present surveys reveals only minor differences of 1-2 feet in depths.

The present survey is adequate to supersede the prior survey.

7. Comparison with Chart 474 (Latest print date 10-30-61)

A. Hydrography

The charted hydrography originates principally with the previously discussed prior surveys which need no further consideration, with the U. S. Corps of Engineers' surveys (Bps 33299-301) of 1938 supplemented by a few soundings from the present survey prior to verification and review. The charted spoil areas originate with the U. S. Corps of Engineers' survey (Bp 60713-14) of 1961, which were accomplished subsequent to the present survey.

The pile located on photogrammetric survey T-11403 (1953-55) in latitude 26° 39.75', longitude 82° 10.26', is not shown on the present survey. No reference to this pile is made in the sounding volumes and it is not shown on the boat sheet. The pile is believed to be the one referred to by the hydrographer (Item M-7 of the Descriptive report) who states that it no longer exists.

Except for the spoil areas and the controlling depth through the intracoastal waterway channel mentioned in paragraph B below, the present survey is adequate to supersede the charted hydrography.

B. Controlling Depths

The charted controlling depth of 8 feet in the intra-coastal waterway channel in Pine Island Sound between Light "52" and day beacon "74", originates with the U. S. Corps of Engineers' survey (Bp 60713-14) of 1961. These

surveys were accomplished subsequent to the present survey after dredging of the channels.

C. Aids to Navigation

The locations and nomenclature of the charted aids to navigation originate with chart letters 687 and 929 of 1961. The aids were applied to the chart subsequent to the present survey. In their charted positions, the aids adequately mark the features intended and supersede the aids shown on the present survey.

8. Compliance with Project Instructions

The survey adequately complies with the project Instructions.

9. Field Work Recommended

This is an excellent basic survey and no additional work is recommended

Examined and Approved:

Marvin T. Pankson

Chief,
Nautical Chart Division

J. T. Jarman

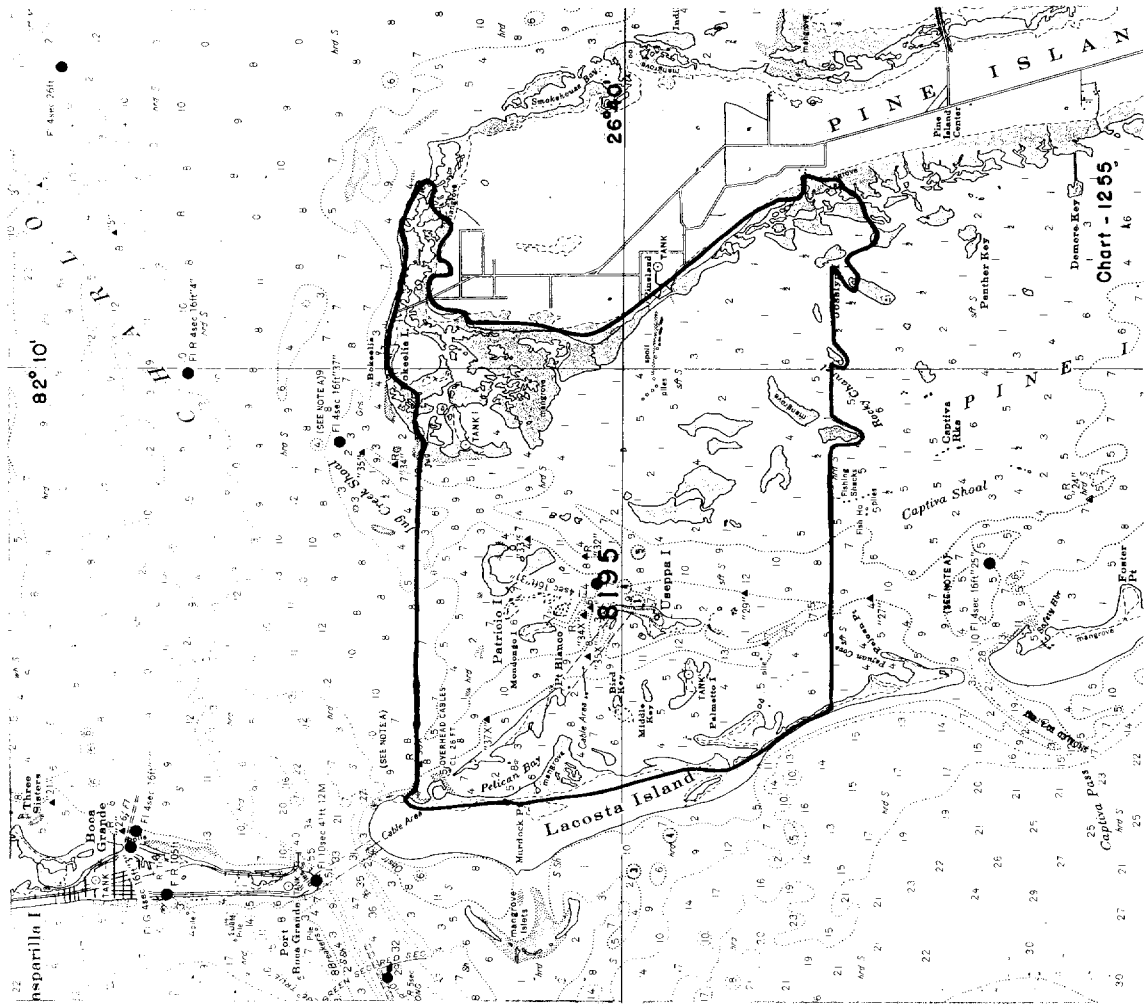
Assistant Director,
Office of Cartography

Charles W. Clark

Projects Officer,
Operations Division

May Skellett

Assistant Director,
Office of Oceanography



NAUTICAL CHARTS BRANCH

SURVEY NO. H-8195

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
16 June 61	1255	<i>Michols</i>	Before After Verification and Review <i>Critical exam. only.</i>
20 June 61	857A 857A	"	Before After Verification and Review <i>Complete application</i>
6 July 61	474	"	Before After Verification and Review <i>✓ 20th 2-9-61</i>
26 Mar 62	856A 856B	"	Before After Verification and Review <i>Complete.</i>
20 Apr 62	1255	"	Before After Verification and Review <i>Thru 856 A & B, above.</i>
1-6-64	857-A	G.R. Johnson	Before After Verification and Review thru 856-B
2-24-69	857-A	R.A. Lillis	<i>Fully appld</i> Before After Verification and Review thru 856-B
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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.