

7907

Diag. Cht. No. 1257-2

CS-336

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey ..... HYDROGRAPHIC .....

Field No. SO-05251 ..... Office No. H-7907 .....

LOCALITY

State ..... FLORIDA .....

General locality ANCLOTE RIVER .....

Locality VICINITY OF TARPON SPRINGS .....

194 51

CHIEF OF PARTY

J. D. Thurmond .....

LIBRARY & ARCHIVES

DATE ..... SEPTEMBER 28, 1953 .....

B-1870-1 (1)

7907

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-7907

Field No. S0-05251

State Florida

General locality Anclote River  
Florida West Coast

Locality vicinity of  
Anclote River Tarpon Springs

Scale 1:5,000 Date of survey 25 April to  
18 May 1951

Instructions dated 2 March 1949

Vessel Ship SOSBEE - Skiff No. 735

Chief of party J. D. Thurmond

Surveyed by I. R. Rubottom

Soundings taken by fathometer, graphic recorder, ~~hand level~~ & Pole

Fathograms scaled by D. C. R.

Fathograms checked by D. C. R. & R. W. L.

Protracted by ALPHA G. ATWILL

Soundings penciled by ALPHA G. ATWILL

Soundings in ~~athoms~~ feet at MLW ~~XXXXXX~~

REMARKS: This folder contains a report from the Tampa Photogrammetric  
Office.

*ALS*

## DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SURVEY NO. H -7907 (SO-05251)

Anclote River, Tarpon Springs, Fla.

Scale 1:5,000 25 April to 18 May 1951

U.S.C. &amp; G.S.S. SOSBEE James D. Thurmond, Comdg.

## A. PROJECT:

This survey accomplished under Project CS-336 in accordance with Instructions dated 2 March 1949.

## B. SURVEY LIMITS AND DATES:

This survey covers the Anclote River and all Channels and Bayous in the vicinity of Tarpon Springs, Florida, and extends upstream in the river to longitude 82° 44'.00.

Junction was made with sheet <sup>(H-7906(1951))</sup> SO-05151 in the Anclote River in longitude 82° 46'.1.

Field work began on 25 April 1951 and ended 18 May 1951.

## C. VESSELS AND EQUIPMENT:

The hydrography was accomplished with 25 foot skiff No. 735. The skiff was powered with two Johnson 10 horsepower outboard motors and operated from the Ship SOSBEE basing at Tarpon Springs, Florida. Only one motor was used, except in the larger bayous.

The soundings were recorded with Portable depth recorders, Model 808G, No. 140-SP. Depths too shoal to record accurately (usually under 3 feet), were obtained with a sounding pole.

## D. TIDE AND CURRENT STATIONS:

Tidal data obtained from portable tide gage No. H-301, established in the Anclote River about  $\frac{1}{2}$  mile N. W. of Tarpon Springs, Florida, were used to reduce all soundings.

No Current Stations were occupied within the limits of this survey.

## E. SMOOTH SHEET:

Compilation of the smooth sheet <sup>WQS</sup> ~~will be~~ accomplished by the Norfolk, Virginia, Processing Office.

## F. CONTROL:

Triangulation stations are all on the North American 1927 datum and consist of the following:

PON-(Tarpon Springs Muni. Tank, (PON, 1925) Geographic position from page 203, Dunnellon to Naples, Florida.

TAR-(Tarpon Springs Muni. Tank (TAR, 1925) Geographic position from page 203, Dunnellon to Naples, Florida.

Topographic Stations were obtained from the following:

<u>Reg. No.</u>	<u>Date</u>	<u>Method of Location</u>
T-5818 -	1943 -	Air Photographic
SO-A-51 (Resurvey 1952) -	1951 -	Graphic Control

The majority of Control stations were located by graphic control on sheet SO-A-51. In some of the relative unimportant corners or the bayous the graphic control stations were supplemented by natural objects scaled from topographic sheet T-5818. *Graphic Control surveys SO-A-51 and Resurvey 1952 of SO-A-51 have been destroyed.*

A list, containing the geographic positions and a brief description of these objects, is attached to this report.

## G. SHORELINE AND TOPOGRAPHY:

*bp 50746 (1952) and 1952 resurvey of SO-A-51 (See T.P. Review)*

The shoreline was transferred from ~~sheet T-5818~~. Some changes in the shoreline were made during the course of the hydrographic survey and are sketched on the Boat Sheet. Most of these changes seemed to be due to inaccurate transfer from the 1:10,000 scale sheet to the 1:5,000 scale Boat Sheet.

## H. SOUNDINGS:

Hydrography was accomplished by use of 808 portable depth recorder mounted in the 25 foot skiff with transceivers placed inside and on the bottom of the skiff.

The depth recorder was adjusted to read correct depth by adequate bar checks and adjustment of the initial setting.

The spring at the head of Spring Bayou was investigated with a hand lead, since the opening was too small to obtain soundings with the Fathometer. In depths much greater than 18 to 20 feet the opening appeared to be extremely small and crooked. A lead line of 160 ft. in length was used, but the lead continued to sink and all available line was spent on the lead line. (The line was later stretched out on the pier and measured with a steel tape.)

*sdg rol. records 215ft*

## H. SOUNDINGS CONT.:

No further attempt was made to reach the bottom of the opening, since local advice was that the spring was like an inverted syphon extending eastward clear into Lake Butler.

## I. CONTROL OF HYDROGRAPHY:

Hydrography was Controlled by 3-point sextant fixes on signals located by triangulation, graphic control or air photographic Compilation, with the following exceptions.

1. The river Channel east of new highway U.S. 19.
2. The long finger-like extension at the southwest corner of Kreamer Bayou.
3. The small bayou at the western side of Witcomb Bayou.

In these cases the trend of the Channels were followed and positions spotted on the Boat Sheet from topographic features.

## J. ADEQUACY OF SURVEY:

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

## K. CROSSLINES:

Crosslines were run in the bayous and in wider portions of the river channels and discrepancies were not over 1 foot.

## L. COMPARISON WITH PRIOR SURVEYS:

Comparison with H-4574, Scale 1:10,000: *see TP5 of Review*

Comparison with this survey is impractical since extensive dredging operations have been made subsequent to the survey.

## M. COMPARISON WITH CHART:

Comparison with Chart 1257 is rather difficult since the scale is small and relatively few soundings are charted. *see TP6 of Review*

## N. DANGERS AND SHOALS:

1. Wreck baring  $\frac{1}{2}$  ft. at M.L.W. near middle of extensive 6 shoal area in latitude  $28^{\circ} 09' .40$ , Longitude  $82^{\circ} 45' .54$ .
2. Rock baring 1 ft. at M.<sup>L</sup>.W. on west edge of easterly dredged channel into Spring Bayou, latitude  $28^{\circ} 09' .28$  longitude  $82^{\circ} 45' .91$ .
3. Rocks awash at M.<sup>H</sup>.W. at southwestern corner of narrow channel in latitude  $28^{\circ} 09' .24$ , longitude  $82^{\circ} 45' .93$ .  
*vicinity of*

## N. DANGERS AND SHOALS: (CONT.)

4. Rocks baring 2 feet at M.L.W. at southeastern corner of narrow channel in latitude  $28^{\circ} 09'.22''$  longitude  $82^{\circ} 45'.92''$ .

## O. COAST PILOT INFORMATION:

A thorough Coast Pilot investigation of the area was made in 1948 and no addition or corrections are found on this survey.

## P. AIDS TO NAVIGATION:

All Aids to Navigation have been reported on form 567.

## Z. TABULATION OF APPLICABLE DATA:


Previously forwarded:

1. Non-floating Aids to Navigation, form 567.

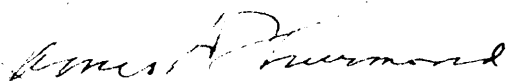
Attached to this report:

1. Statistics
2. Tidal Note
3. List of Signals

Submitted by,

  
Ira R. Rubottom  
Commander, C&GS

Approved and Forwarded:

  
James D. Thurmond  
Commander, C&GS  
Comdg. Ship SOSBEE

### TIDAL NOTE

Portable tide gage No. H-301, was established in the Anclote River about  $\frac{1}{2}$  mile N. W. of Tarpon Springs, in Latitude  $28^{\circ} 09'.55$  N., Longitude  $82^{\circ} 46'.05$  W.

Data obtained from the gage were used to reduce all soundings taken on this sheet.

The zero of the tide<sup>staff</sup> was 2.5 feet below the mean low water plane of reference and was furnished by the Washington, D. C. Office in letter dated 9 February 1951, ref. No. 36-rcb.

### VELOCITY CORRECTIONS

No Velocity Corrections were applied. Fathometer initial set to read true depths, by adequate Bar Checks.

LIST OF SIGNALS  
H-7907

TRIANGULATION STATIONS

IRK ANCLOTE RIVER, CUT E RANGE, REAR LIGHT, 1952  
PON TARPON SPRINGS, MUNICIPAL TANK (PON,1925), 1934-52  
TAC VICTOR CHEMICAL WORKS, STACK, 1952  
TAN VICTOR CHEMICAL WORKS, TANK (ELEVATED), 1952  
TAR TARPON SPRINGS, MUNICIPAL TANK (TAR, 1925), 1934-52

RECOVERABLE TOPOGRAPHIC STATIONS

(SOURCE SO-A-51 Re-vised 1952)

Blu	Dal	Hop	Job	Ked	Lag	Lax	Mal	Mil	Nip	Oar
Oat	Odd	Ram	Raw	Red	Rim	Rot	Spi	tax	Ten	Tow
Vex	Wes	Yel								

TOPOGRAPHIC STATIONS

(SOURCE SO-A-51 Re-vised 1952)

Act	Add	Aim	Alp	Amy	Ark	Bat	Big	Bum	Cam	Cul
Dud	Dun	Eat	Egg	Ego	Era	Far	Few	Fin	Gal	Gam
Gob	Gor	Hag	Hem	Hub	Ion	Jap	Joy	Jut	Ken	Lad
Lam	Lip	Man	Mar	Mat	New	Nub	Old	Orb	Out	Rad
Paw	Pit	Rig	Ron	Sag	Sal	Set	Sew	Tid	Vim	Why
Yes	Zoo									

TOPOGRAPHIC STATIONS

(SOURCE SO-A-51 Not recovered in 1952)

Bob Dif

AIR-PHOTO FEATURES

(SOURCE T-5818)

Low



ADDENDUM  
To Accompany

HYDROGRAPHIC SURVEY H-7907 (Field No. So-05251)

SHORELINE

The shoreline was penciled on the smooth sheet in the Tampa Photogrammetric Office and inked in this Office. Several notes have been entered on the sheet pointing out apparent discrepancies and there are instances where positions fall inside the shoreline. All indications point to a questionable placement of shoreline as the control appears to be entirely adequate.

See  
TP 1  
of  
Review

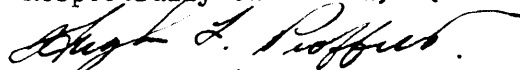
In the body of the Tampa descriptive report, there is a statement that the shoreline was adjusted to revisions as shown on So-A-51 (revised), however, it is apparent that major differences remain to be reconciled. These revisions were transferred in pencil by this office.

All bridges were transferred in pencil from So-A-51 except the one at Lat. 28-09.45' Long. 82-45.45'. Lacking any other source, this was transferred from T-5818.

See  
TP 1  
of  
Re-  
view

Due to an oversight on the part of the writer, shoreline revisions were not transferred from SO-A-51 to adjoining survey H-7906. It is requested this be done in Washington. *shoreline has been transferred to H-7906 from Sp 50747 (1952).*


Respectfully submitted,



Hugh L. Proffitt  
Cartographer.

Norfolk, Va.  
24 Sept. 1953

Approved & Forwarded:



Roswell C. Bolstad  
Supervisor, S.E. District.

STATISTICS

For Hydrographic Survey H- 7907 (SO-05251)

Project CS-336

Scale 1:5,000

U.S.C. & G.S.S. SOSBEE James D. Thurmond, Comdg.

Day Letter	Vol. No.	Date	Number of Positions	Mile Soundings		Pole Sdgs.
				Nautical	Statutes	
a	1	25 Apr. 1951	122	9.0	10.4	112
b	1	26 " "	118	6.9	7.9	75
c	1 & 2	27 " "	212	13.1	15.0	110
d	2	1 May "	95	5.5	6.3	85
e	2	2 " "	108	7.1	8.2	103
f	3	16 " "	61	3.2	3.7	74
g	3	18 " "	79	3.8	4.4	185
Totals	3	25 Apr. 1951 to 18 May 1951	795	48.6	55.9	744

Area = 1.1 Square Statute miles

REPORT

TO ACCOMPANY

HYDROGRAPHIC SURVEY H-7907 (Field No. SO-05251)

E. SMOOTH SHEET

The projection was received in the Tampa Photogrammetric Office on 3 November 1952, for applying shoreline and control.

Reference letter dated 23 October 1952, from the Director; 711-mkl; and from Supervisor, Southeastern District, dated 27 October 1952.

The shoreline (see Item G) was applied to the projection by Mr. R. R. Wagner and verified by Mr. W. A. Rasure. The type of shoreline was indicated by F for MHW, ap for apparent shoreline and bkhd for bulkheads.

*See P1 of Review.*

*Shoreline was replotted from Op 50746 (1952) in Washington Office.*

All control stations were plotted by dms and dps. In plotting the control, it was necessary to apply a scale factor due to distortion of the projection.

F. CONTROL STATIONS

The control stations were plotted by Mr. R. R. Wagner and checked by Mr. I. I. Saperstein. The stations are as follows:

<u>Triangulation Stations</u>	<u>Date</u>	<u>Chief of Party</u>
ANCLOTE RIVER CUT E RANGE REAR LIGHT (IRK)	1952	JEW
TARPON SPRINGS MUNICIPAL TANK (PON)	1934	GLA
TARPON SPRINGS MUNICIPAL TANK (TAR)	1934	GLA
VICTOR CHEMICAL WORKS TANK (TAN)	1952	JEW
VICTOR CHEMICAL WORKS STACK (TAC)	1952	JEW

<u>Topographic Stations</u>		<u>Date</u>	<u>Method of Location</u>
	<u>Field No.</u>		
BLU	Resurvey SO-A-51	1952	Planetable
*BOB	Survey SO-A-51	1951	"
DAL	Resurvey SO-A-51	1952	"
*DIF	Survey SO-A-51	1951	"
HOP	Resurvey SO-A-51	1952	"
KED	" "	"	"
LAG	" "	"	"
LAX	" "	"	"
MAL	" "	"	"
MIL	" "	"	"
NIP	" "	"	"
OAR	" "	"	"
OAT	" "	"	"
ODD	" "	"	"
RAM	" "	"	"
RAW	" "	"	"
RED	" "	"	"
RIM	" "	"	"
ROT	" "	"	"
SPI	" "	"	Theodolite
TAX	" "	"	"
TEN	" "	"	"
VEX	" "	"	Planetable
WES	" "	"	"
YEL	" "	"	"
TOW	" "	"	"

Hydrographic Stations

	<u>Field No.</u>		
ACT	Resurvey SO-A-51	"	"
ADD	" "	"	"
AIM	" "	"	"
ALP	" "	"	"
AMY	" "	"	"
ARK	" "	"	"

<u>Hydrographic Stations</u>	<u>Field No.</u>	<u>Date</u>	<u>Method of Location</u>
BAT	Resurvey SO-A-51	1952	Planetable
BIT	" "	"	"
BUM	" "	"	"
CAM	" "	"	"
CUL	" "	"	"
DUD	" "	"	"
DUN	" "	"	"
EAT	" "	"	"
EGG	" "	"	"
EGO	" "	"	"
FRA	" "	"	"
FAR	" "	"	"
FEN	" "	"	"
FIN	" "	"	"
GAL	" "	"	"
GAM	" "	"	"
GOB	" "	"	"
GOR	" "	"	"
HAG	" "	"	"
HEM	" "	"	"
HUB	" "	"	"
ION	" "	"	"
JAP	" "	"	"
JOB	" "	"	"
JOG	" "	"	"
JUT	" "	"	"
KEN	" "	"	"
LAD	" "	"	"
LAM	" "	"	"
LIP	" "	"	"
**LOW	Scaled from T-5818	1941	Radial Plot
MAN	Resurvey SO-A-51	1952	Planetable
MAR	" "	"	"
NAT	" "	"	"
NEW	" "	"	"
NUB	" "	"	"
OLD	" "	"	"
ORB	" "	"	"
OUT	" "	"	"
PAD	" "	"	"

<u>Hydrographic Stations</u>	<u>Field No.</u>	<u>Date</u>	<u>Method of Location</u>
PAW	Resurvey SO-A-51	1952	Planetable
PIT	" "	" "	" "
RIG	" "	" "	" "
RON	" "	" "	" "
SAG	" "	" "	" "
SAL	" "	" "	" "
SET	" "	" "	" "
SEW	" "	" "	" "
TID	" "	" "	" "
VIM	" "	" "	" "
WHY	" "	" "	" "
YES	" "	" "	" "
ZOO	" "	" "	" "

\*Stations had been destroyed prior to time of resurvey. They are plotted on smooth sheet from position on SO-A-51 and are shown in red pencil. They should be used with caution.

\*\*Stations were not relocated on the resurvey. They were plotted on smooth sheet from position on T-5818 (1941) and are shown in green pencil. They should be used with caution.

G. SHORELINE AND TOPOGRAPHY

The shoreline was taken from Planimetric Map T-5818, dated August 1941, scale 1:10,000; and U. S. Engineers' photographs dated 15 February 1948, scale 1:10,000; and Resurvey SO-A-51. The photographs were controlled by holding to common points and features on a 1:5,000 enlargement of the planimetric and resurvey sheet. These enlargements were made with a ratio reflecting projector. Extensive changes were made from what appears on T-5818 in the upper reaches of the river. In this area, railroad and points common were used to control the photographs.


*See Note  
Pg. 3 TP3  
of this Descript.  
Report.*

Four (4) bridges were omitted and should be added upon completion of the smooth plotting of the hydrography. The source of information for these bridges should be Resurvey SO-A-51 and T-5818 (1941)

Bridges shown  
on H 7907

  
Robert H. Wagner, Carto. Photo, Aid

APPROVED AND FORWARDED:

  
J. E. Waugh, Chief of Party

FORM 537a  
(9-24-47)

DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

REGISTER NO. T -

TOPOGRAPHIC TITLE SHEET

FIELD NO. SO-A-51

Each Planetable and Graphic Control Sheet should be accompanied by this form, completed so far as practicable, when forwarded to the Washington Office.

STATE Florida

GENERAL LOCALITY W. Coast of Florida

LOCALITY Anclote River - Tarpon Springs

SCALE 1-10,000 DATE OF SURVEY February, 19 51

VESSEL Ship SOSBEE

CHIEF OF PARTY J. D. Thurmond

SURVEYED BY I. R. Rubottom

INKED BY I. R. Rubottom

HEIGHTS IN FEET ABOVE MHW OR  TO GROUND  TO TOPS OF TREES

CONTOUR APPROXIMATE CONTOUR FORM LINE INTERVAL \_\_\_\_\_ FEET

PROJECT NUMBER GS-336

REMARKS  
  
Graphic Control Sheet for location of additional Control for Hydrography, relocation of Nonfloating Aids to Navigation and location of Landmarks for Charts, Anclote River and Tarpon Springs, Florida.  
*This graphic control survey has been destroyed.*



DESCRIPTIVE REPORT.

To Accompany Sheet T 7907 (SO-A-51)

Anclote River and Tarpon Springs, Florida.

Scale 1-10,000

February 1951

U.S.C.& G.S.S. SOSBEE, James D. Thurmond, Comdg.

A. PROJECT:

This survey accomplished under Project CS-336 in accordance with Instructions dated, 2 March 1949.

B. SURVEY LIMITS AND DATES:

This survey covers the Anclote River from its mouth to and including new highway U.S. 19.

The work was accomplished during February 1951.

C. CONTROL:

Third order triangulation stations consisting of three water tanks in Tarpon Springs were used for control in that vicinity. Triangulation stations TARPON, 1934 and PALMETTO KEY, 1910, located near the mouth of Anclote River, were used for control in that vicinity. Graphic Control was carried down the river between these points.

No unusual methods were employed and no traverses were run.

D. LANDMARKS:

Landmarks recommended for charting:

Tarpon Springs Municipal Water Tanks (3).

Greek Orthodox Church Spire, Tarpon Springs.

Steel Water Tank at Factory on North Side of River.

Stack at Factory on North Side of River.

S.E. Chimney Hotel (Upham House) near mouth of River.

These objects have been reported separately on Form 567.

E. REVISIONS:

No revisions were made in the shoreline.

F. NEW NAMES:

No new names are recommended.

G. LIST OF PLANETABLE POSITIONS:

All Recoverable Topographic Stations have been listed separately on Forms No. 524.

All Nonfloating Aids for Charts have been submitted on Form No. 567.

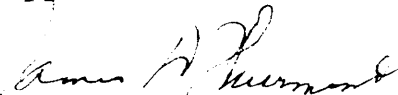
A complete list of all planetable positions determined on this sheet is attached to this report.

Submitted by,



Ira R. Rubottom  
Commander, C. & G.S.

Approved and Forwarded:



James D. Thurmond  
Commander, C. & G.S.  
Commanding Ship SOSBEE.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. SO-A-51 (Resurvey)

REGISTER NO.

State FLORIDA

General Locality WEST COAST OF FLORIDA

Locality ANCLOTE RIVER

Scale 1:10,000 Date of survey JULY-AUGUST, 1952

~~Sheet~~ TAMPA FIELD UNIT

Chief of party J. E. WAUGH

Surveyed by WILLIAM A. RASURE

Inked by ROBERT R. WAGNER

Heights in feet above MHW to ground ~~to tops of trees~~

~~Horizontal approx. in feet from low tide to ground~~

Instructions dated SEE REPORT, 19    

Remarks: GRAPHIC CONTROL SURVEY TO VERIFY THE LOCATION OF

HYDROGRAPHIC SIGNALS IN THIS AREA

GPO 268853

*Applied to H-7906 and H-7907(1951) and graphic control survey then destroyed.*

*The following ranges were shown on survey SO-A-51 (Resurvey):*

<i>From</i>	<i>To</i>	<i>Range</i>
<i>Anclote R. Cut B Range Rear Lt</i>	<i>Anclote R. Cut A &amp; B Range F Lt 9</i>	<i>287°06'T</i>
<i>Lt 22</i>	<i>Anclote R Cut C Range R Lt</i>	<i>145°58'T</i>
<i>Lt 36</i>	<i>Anclote R Cut E Range R Lt</i>	<i>137°25'T</i>

ADDENDUM TO  
DESCRIPTIVE REPORT FOR SO-A-51 (Resurvey 1952)  
TAMPA FIELD UNIT

A. PROJECT:

The work on this survey consisted of the relocation of signals shown on Survey SO-A-51, 1:10,000. It was undertaken on Instructions addressed to LCDR J. E. Waugh, dated 4/2/52, reference 71-aal; and Supplemental Instructions for Project CS-336 addressed to the Commanding Officer, Ship SOSBEE, dated 4/2/52, reference 22/MEK, S-2-50. These latter instructions were amended by letter to the Commanding Officer, Ship SOSBEE, dated 4/18/52, reference 21/MEK, S-1-50.

B. SURVEY LIMITS AND DATES:

This survey covers the Anclote River from its entrance to and including new U. S. Highway 19.

The work was accomplished between 16 July - 27 August 1952.

C. CONTROL:

In order to verify the location of the signals on this survey it was necessary to have additional control. A breakdown of the existing schemes of triangulation was made along the Anclote River to furnish this additional control.

Fifteen (15) stations were located. Six (6) stations were located with less than third order accuracy along the upper reaches of the Anclote River. (Reference 1952 Triangulation Report)

Recovered stations:

<u>Name</u>	<u>Date</u>	<u>Chief of Party</u>
PALMETTO KEY	1910	G. H. R.
TARPON	1934	G. L. A.
TARPON SPRINGS MUNICIPAL TANK (TAR 1925)	1934	G. L. A.
TARPON SPRINGS MUNICIPAL TANK (PON 1925)	1934	G. L. A.

Recovered stations:

<u>Name</u>	<u>Date</u>	<u>Chief of Party</u>
TARPON SPRINGS MUNICIPAL TANK (LAKE BUTLER)	1934	G. L. A.
Y 146	1934	FLA. GEOD. SURVEY

Stations established by this party:

ANCLOTE RIVER CUT B RANGE REAR LIGHT  
ANCLOTE RIVER CUT A RANGE REAR LIGHT  
ANCLOTE RIVER CUT A & B RANGE FRONT LIGHT 9  
EDD 90 (USE-1935)  
ANCLOTE RIVER LIGHT 17  
PINELLAS-PASCO COUNTY LINE MONUMENT  
LEISNER  
WOOD  
ANCLOTE RIVER CUT C RANGE REAR LIGHT  
MEYERS COVE  
VICTOR CHEMICAL WORKS TANK (ELEVATED)  
VICTOR CHEMICAL WORKS STACK  
VICTOR CITIZENS OIL COMPANY TANK  
FERGUSON  
ANCLOTE RIVER CUT E RANGE REAR LIGHT

Stations established less than third order:

ANCLOTE RIVER LIGHT 48  
BRADLEY  
TEN  
BRIDGE  
TARPON SPRINGS GREEK CHURCH SPIRE  
BAYOU (Three-point fix)

D. LANDMARKS:

No change.

E. REVISIONS:

The original Survey SO-A-51 was returned to this party for analysis and additional work if found necessary. Your attention is invited to the following:

1. Due to the congestion of signals on this survey it was decided to construct a new projection and do a complete resurvey.

2. All signals were recovered and relocated with exception of the following: Signals BOX, CRY, DIF, ZAG, JOE, LOW, FOG and BOB had been destroyed since the date of the original survey. Station JAP was not positively recovered; however, the gable of the house which was believed to be the one used in hydrography was cut in but should be used with caution.

3. ALWORTH CHANNEL DAYBEACON 2 and 3 were established since the date of the original survey. All fixed aids to navigation and designated as signals should be used with caution as they have been serviced by the Coast Guard since the date of the original survey.

4. Short stretches of shoreline were rodded in throughout the sheet in order to help make an adjustment of the planimetric survey.

This resurvey agrees fairly well with T-5818 and it is believed the shoreline from T-5818 can be applied with very little difficulty.

*Shoreline on H-7906 and H-7907 of 1951 was replotted from Bps 50746-7 (1952) in Wash. and is shown in brown.*

5. It was noted that the shoreline and signals located by photogrammetric methods were being used from enlargements of T-8361 which necessitated a four diameter enlargement. A study of T-8361 revealed that numerous details were displaced during delineation due to the scale involved. An example of this displacement is Signal RED which was the cupola of a church. The position of RED as determined on this survey agrees with the building as shown on T-5818. In order to show the building on T-8361 the compiler was forced to displace it from its true position, therefore it will not check with the resurvey.

6. It is recommended that the shoreline be applied from T-5818 making necessary revisions on the smooth sheet from later survey. This will require only a two diameter enlargement.

*see note #4 above.*

F. NEW NAMES:

No change.

G. LIST OF PLANETABLE POSITIONS:

A composite list of all planetable positions determined on this resurvey is attached. In addition, revised cards (Form 524) for all recoverable topographic stations and Form 567 for Landmarks and Non-floating Aids are being submitted. This composite list of signals shows the several positions of common points on the numerous surveys of this area; unless otherwise noted, the 1952 locations should be used.

*Composite  
list filed  
with photogram-  
meters  
Cards (form 524)  
filed in photo-  
grammetry  
under sheets  
H-7907 and  
H-7906.*

*William A. Rasure*  
William A. Rasure, Photogrammetrist

APPROVED AND FORWARDED:

See attached approval sheet

J. E. Waugh, Chief of Party

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
WASHINGTON

711-aal

26 August 1952

To: Lt. Comdr. Joseph E. Waugh  
U. S. Coast and Geodetic Survey  
P. O. Box 1689  
Tampa, Florida

Subject: Photogrammetric manuscripts, Project Ph-91,  
R. S. Nos. 449 to 455, inclusive

The subject manuscripts upon completion at Tampa should be forwarded to this office for examination and for copying; they will then be sent promptly to the Norfolk Processing Office. Copies of the manuscripts will be furnished our Nautical Chart Branch so that the map corrections can be applied to the nautical charts. Please include in the descriptive reports for these manuscripts all information necessary for the Norfolk Processing Office to apply the signals and shoreline to the smooth hydrographic sheets.

The planetable revision on Project Ph-91 need not be forwarded to the Washington Office, but should be sent directly to the Norfolk Processing Office.

/s/ Robert W. Knox  
Acting Director

cc: CO, Ship SOSBEE

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To: Superviros, SE District

Page 2  
10/3/52

It will be necessary to make minor corrections to the original surveys due to the revisions made in and/or on these graphic control resurveys and also on Surveys No. T-8361 (1943), T-8379 (1943), T-7101 (1948), T-7103 (1948), CS-372 (1949) and CS-374 (1949). The high water line has been rodded in at various set-ups on the graphic control resurvey for SO-A-51 to assist in making these adjustments. They should be helpful in the area covered by the 1:5,000 hydrographic survey. Several common points are found on the various surveys and also should assist in making these adjustments.

J. E. Waugh  
LCDR, USC&GS  
Officer in Charge

JEW:mb

cc: Ch. Div. of Photo.  
CO Ship SOSBEE

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Tampa Photogrammetric Office  
Box 1689 Tampa Florida

3 October 1952

To: Supervisor, Southeastern District  
U. S. Coast and Geodetic Survey  
418 Post Office Building  
Norfolk 10, Virginia

Subject: Records for Project CS-336 (Ph-91)

Reference: Letter from the Director dated 8/26/52;  
ref. 711-aal

The first of the graphic control resurveys are being forwarded to you under separate cover. The other resurveys will be forwarded as they are processed.

Although the Director did not call for recommendations in the area covered by the graphic control resurveys, the following comments are offered as a help in preparing the smooth sheets for the area north of approximate Latitude  $27^{\circ} 52\frac{1}{2}'$ . All signals that could be recovered in this area were either verified or relocated on planetable sheets using standard graphic control methods. Please refer to each individual resurvey for detailed discussion. An addendum has been added to each report covering the Tampa Field Unit's part of the survey.

It is suggested that after the signals have been plotted on the smooth sheets in the usual manner that they should be used in transferring the detail from the photogrammetric surveys. In the area to the south of approximate Latitude  $27^{\circ} 52\frac{1}{2}'$  where 1952 photography is available a new radial plot was laid. Differences were found to exist between the old plot and this new one. It is reasonable to suppose since minor differences were found between the photogrammetric surveys compiled in 1938, the revisions made in 1943, 1948, 1949 and the recompilation made in 1952, that similar differences will exist in this area to the north of Latitude  $27^{\circ} 52\frac{1}{2}'$ . It is suggested that the 1:10,000 planimetric surveys (T-5818 and Revision Survey 449) be used where possible for the shoreline detail in this area and that the photogrammetric surveys be fitted into the signals as plotted.

APPROVAL SHEET FOR RESURVEY SO-A-51

Graphic Control Survey SO-A-51 is approved as submitted and no additional work is recommended.

You are respectfully referred to attached copies of correspondence, Paragraph E of this report and Paragraphs E, F and G for Hydrographic Survey H-7906 and H-7907.



---

J. E. Waugh, Chief of Party

RHC

# TIDE NOTE FOR HYDROGRAPHIC SHEET

~~DIVISION OF COASTAL SURVEYS~~

14 October 1953

Division of Charts: R. H. Carstens

Plane of reference approved in  
3 volumes of sounding records for

HYDROGRAPHIC SHEET 7907

Locality Anclote River, Florida

Chief of Party: J. D. Thurmond in 1951  
Plane of reference is mean low water, reading  
2.5 ft. on tide staff at Tarpon Springs  
10.6 ft. below B. M. 1 (1926)

Height of mean high water above plane of reference is 1.9 feet.

Condition of records satisfactory except as noted below:

*E. C. McKay*  
Section of Tides

Chief, Division of Tides and Currents.

GEOGRAPHIC NAMES

Survey No. H-7907

Name on Survey										
	A	B	C	D	E	F	G	H	K	
	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		
<u>Florida</u>									B-G-N	1
<u>Anclote River</u>										2
<u>Tarpon Springs</u>			(city)							3
<u>Kreamer Bayou</u>									B-G-N	4
<u>Tarpon Bayou</u>										5
<u>The Canal</u>										6
<u>Minetta Bayou</u>										7
<u>Spring Bayou</u>										8
<u>Whitcomb Bay</u>										9
<u>Chesapeake Pt.</u>										10
										11
										12
										13
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										26
										27

Names underlined in red are approved  
10-28-53, L. Heck

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H-7907...

Records accompanying survey:

Boat sheets ..1...; sounding vols. .3....; wire drag vols. ....; bomb vols. ....; graphic recorder rolls 4. Env.; special reports, etc. 1 Smooth Sheet; 1 Descriptive Report; 38 Recoverable Station Cards;.....

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

Number of positions on sheet	.....	..795
Number of positions checked	.....	46
Number of positions revised	.....	✓
Number of soundings revised (refers to depth only)	.....	✓
Number of soundings erroneously spaced	.....	✓
Number of signals erroneously plotted or transferred	.....	✓
Topographic details	Time	..60 hr.
Junctions	Time	..5 hr.
Verification of soundings from graphic record	Time	..20

Verification by *J. F. Gallahan*... Total time 17.0 hr. Date 12 Feb 54

Reviewed by *Stirni*..... Time 32..... Date Mar 2, 1954

*Stirni - Shrs*

DIVISION OF CHARTS

REVIEW SECTION \* NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7907

FIELD NO. SO-05251

Florida, Florida West Coast, Anclote River vicinity of  
Tarpon Springs

Project CS-336

Surveyed - April - May 1951

Scale 1:5,000

Soundings:

Control:

808 Fathometer  
Sounding Pole

Sextant fixes on  
shore signals

Chief of Party - J. D. Thurmond  
Surveyed by - I. R. Rubottom  
Protracted by - A. G. Atwill  
Soundings plotted by - A. G. Atwill  
Verified and inked by - J. T. Gallahan  
Reviewed by - I. M. Zeskind 3-2-54  
Inspected by - R. H. Carstens

1. Shoreline and Control

The shoreline on the present survey shown in brown originates with Bp. 50746 (1952), which was compiled from single lens photographs taken in 1948 on a scale of 1:20,000. The shoreline, bridges and inshore detail shown in red on the present survey originates with the 1952 resurvey of graphic control survey SO-A-51. These graphic control surveys have been destroyed, as all essential information contained thereon has been transferred to the present survey and to survey H-7906 (1951).

The control originates with triangulation stations established or recovered in 1952 and topographic stations shown on the 1952 resurvey of graphic control survey SO-A-51.

2. Sounding Line Crossings

Depths at crossings are in good agreement.

3. Bottom Configuration and Depth Curves

The usual depth curves were adequately delineated.

This is a survey of Anclote River and adjoining Bayous. Flats, shoals and deeps are noted throughout the survey. The submarine spring located in Spring Bayou is an interesting phenomena. The source of this spring is believed to be Lake Butler which lies to the eastward.

4. Junctions with Contemporary Surveys

The present survey extends to the limits of the project on the east. The junction with H-7906 (1951) on the west will be considered in the review of that survey.

5. Comparison with Prior Surveys

A. H-1594 (1884) 1:10,000

This is a survey of Tarpon Bayou and Whitcomb Bay which cover that portion of the present survey which lies south of the Anclote River. A comparison between the prior and present surveys reveals changes in bottom configuration which are attributed to natural and artificial causes, such as the action of the current on the bottom, dredging operations and the reclaiming of land. The present depths in general have deepened as much as 5 ft., as for example in lat.  $28^{\circ}08.72'$ , long.  $82^{\circ}45.87'$ , where a prior depth of 2 ft. falls in present depths of 7 ft.

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

B. H-4574 (1926) 1:10,000

A comparison between the prior and present surveys reveals changes in the bottom configuration which are attributed to natural and artificial causes, such as action of the current on the bottom, dredging operations, the construction of bulkheads and the reclaiming of land. An example of these differences in depths between the prior and present surveys occurs in lat.  $28^{\circ}08.62'$ , long.  $82^{\circ}45.88'$  where a prior depth of 13 ft. falls in present depths of 6 - 7 ft. A change in the area caused by dredging operations occurs in the vicinity of lat.  $28^{\circ}09.10'$ , long.  $82^{\circ}45.75'$ , where canals have been dug and land has been reclaimed. The controlling depths on the present survey in the waterways not maintained by the U. S. Corps of Engineers are as follows:

Controlling  
Depths - ft.

4

Location

From Bn. 42 north of Chesapeake Pt.  
to the southern limits of Whitcomb Bay.



- 4 Anclote River between the bridges in long.  $82^{\circ}45.43'$  and long.  $82^{\circ}44.43'$ .
- 3 Anclote River from bridge in long.  $82^{\circ}44.43'$  to the eastern limits of the present survey.

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

6. Comparison with Chart 1257 (Latest print date 2-1-54)

A. Hydrography

The charted hydrography originates with H-4574 (1926) and the U. S. Corps of Engineers' surveys of 1926. The following differences between the charted and present survey hydrographic information are noted:

1. The soundings charted in Tarpon Bayou and Whitcomb Bay are 1-6 ft. shoaler than present depths.
2. The overhead power cable charted in lat.  $28^{\circ}09.0'$ , long.  $82^{\circ}45.9'$  from chart letter 653, 1953, was not located on the present survey. This feature was charted subsequent to the present survey.

The present survey supersedes the charted information within the common area.

B. Aids to Navigation

Because of the small scale of the chart, the existing aids to navigation are not shown on the chart.

C. Dredged Channels

Present survey depths in the dredged channel in Anclote River between the western limits of the survey and Tarpon Springs is in harmony with the charted controlling depth of 8 ft.

7. Condition of Survey

- a. The sounding records and Descriptive Report are complete and comprehensive.
- b. The smooth plotting was accurately done.

8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

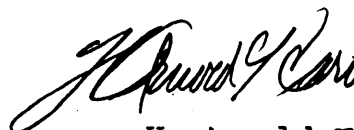
9. Additional Field Work Recommended

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

Examined and approved



H. R. Edmonston  
Chief, Nautical Chart Branch



H. Arnold Karo  
Chief, Division of Charts



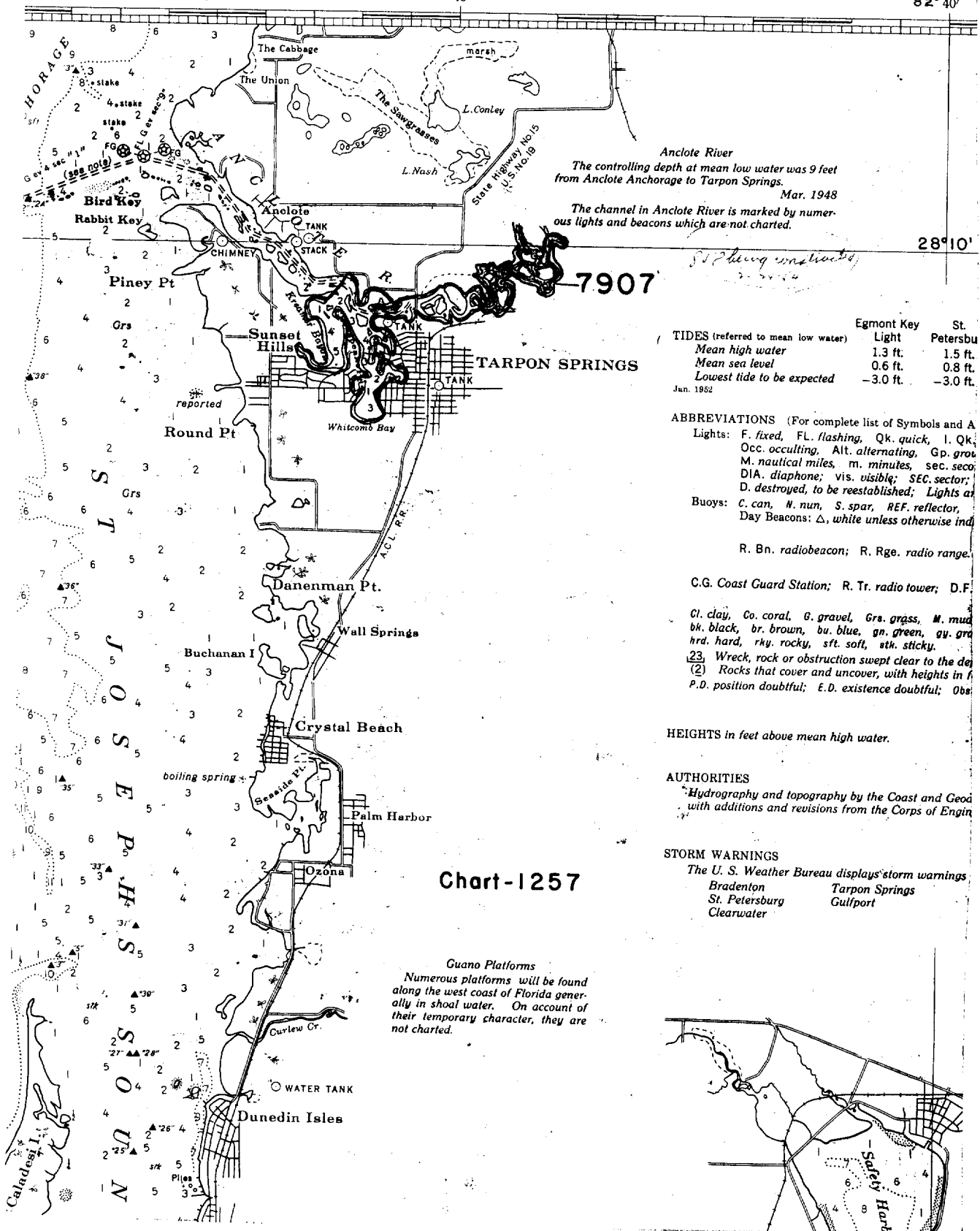
G. R. Fish  
Chief, Section of Hydrography



Earl O. Heaton  
Chief, Division of Coastal Surveys

82° 45'

82° 40'



**Anclote River**  
 The controlling depth at mean low water was 9 feet from Anclote Anchorage to Tarpon Springs. Mar. 1948

The channel in Anclote River is marked by numerous lights and beacons which are not charted.

28° 10'

TIDES (referred to mean low water)	Egmont Key Light	St. Petersburg
Mean high water	1.3 ft.	1.5 ft.
Mean sea level	0.6 ft.	0.8 ft.
Lowest tide to be expected	-3.0 ft.	-3.0 ft.

Jan. 1952

**ABBREVIATIONS** (For complete list of Symbols and A)

Lights: F. fixed, FL. flashing, Qk. quick, I. Qk. occulting, Alt. alternating, Gp. group, M. nautical miles, m. minutes, sec. seconds, DIA. diaphone; vis. visible; SEC. sector; D. destroyed, to be reestablished; Lights and

Buoys: C. can, M. nun, S. spar, REF. reflector, Day Beacons: Δ, white unless otherwise indicated

R. Bn. radiobeacon; R. Rge. radio range.

C.G. Coast Guard Station; R. Tr. radio tower; D.F.

Cl. clay, Co. coral, G. gravel, Grs. grass, M. mud, bk. black, br. brown, bu. blue, gn. green, gy. gray, hrd. hard, rky. rocky, sft. soft, stk. sticky.

(23) Wreck, rock or obstruction swept clear to the depth of 23 feet  
 (2) Rocks that cover and uncover, with heights in feet  
 P.D. position doubtful; E.D. existence doubtful; Obs.

HEIGHTS in feet above mean high water.

**AUTHORITIES**

Hydrography and topography by the Coast and Geodetic Survey, with additions and revisions from the Corps of Engineers.

**STORM WARNINGS**

The U. S. Weather Bureau displays storm warnings at Bradenton, Tarpon Springs, St. Petersburg, and Gulfport Clearwater.

**Chart-1257**

**Guano Platforms**  
 Numerous platforms will be found along the west coast of Florida generally in shoal water. On account of their temporary character, they are not charted.

