

4582

4582

Form 504	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
F. & C. SURVEY	
L. & A.	
State: Florida	Sec. No.
17-5613	
DESCRIPTIVE REPORT.	
Sheet No. 4582	
LOCALITY:	
Gulf Coast	
Anclote Anchorage and	
St. Josephs Sound	
1926	
CHIEF OF PARTY:	
R. P. Eyman	

11  
January 7, 1927.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in  
14 volumes of sounding records for

HYDROGRAPHIC SHEET NO. 4582

Locality: **FLORIDA GULF COAST**

Chief of Party: **R. P. Ryan**

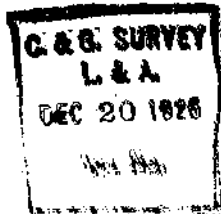
Plane of reference is **MLW**  
**2.7** ft. on tide staff at **Anclote Key**  
**2.0** ft. -----do----- **Dunedin**

For reduction of soundings, condition of records satisfactory  
except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A. M. or P. M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

*G. H. de*

Chief, Division of Tides and Currents.



DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SHEET "f"

ANCLOTE ANCHORAGE

and

ST. JOSEPH'S SOUND

INSTRUCTIONS DATED JUNE 3, 1924

STEAMER HYDROGRAPHER

RAYMOND P. EYMAN

Chief of Party

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET "f"

1. Authority.

The work on this sheet was done in accordance with the orders of The Director to the Commanding Officer of the Steamer Hydrographer, June 3, 1924.

2. Limits of Sheet.

This sheet includes St. Joseph's Sound and Anclote Anchorage. It extends from the south end of Hog Island at Big Pass to parallel  $28^{\circ} 13'$  or the northern limits of the seasons work and extends westward to a little beyond the 12 ft. curve. It joins on to launch sheet "h" of Clearwater Harbor on the south and to ship sheet "C" on the west and joins on to previous surveys on the north. The work on Anclote River was done on a 1:10,000 scale sheet by Mr. Smith.

3. General Description of Coast.

The outside shore lines of Hog Island and Anclote Island are of hard sand and the bottom drops fairly rapidly up to the one fathom curve. The inside of Hog Island and Anclote Keys is of mangrove and has from two to six feet of water up to the mangroves. The shoreline of the mainland is mostly of sand. All these keys are very low and covered with mangroves and other bushes.

4. Bars and Channels.

Near the center of Hog Island as shown on the chart and just south of Sta. Sail a pass has broken through separating the island into two halves. This pass is known as Hurricane Pass. At the west entrance to the pass a sand bar makes off. This bar changes with each storm but at the time of this survey the best water could be found by passing close to the south end of the north half of the island. Another shoal makes off to the eastward

from the north end of the south island. This shoal was formed by the deposit of a dredge which passed through the pass and which is now at work about 1/4 mile south of tri. sta. Curlew. This dredge had to dig a channel for itself as it crossed St. Joseph's Sound and the deposits from this channel account for the shoals about 3/4 mile west of Sta. Air. This dredge was pumping sand from the bottom and filling up the low lands on shore at the time of this survey. It had already pumped up two large islands which are shown on this sheet. About 6 feet of water could be taken through Hurricane Pass at the time of this survey.

Near sta. Jan a large shoal makes off to the northwest. The bottom here is of hard sand and grass and is very uneven with many blind passes and holes. One of these passes begins just north of sta. Jan and passes completely around the north end of Hog Island and joins on to the main channel there. This pass is seldom used as it has no outlet at sta. Jan. One pass which is used considerably by the fishermen from St. Joseph's Sound is marked by Beacon 85 (Jack), Beacon 83 (Con); it will carry about 6 ft and saves the long run around the shoal to the north.

The main entrance to Anclote Anchorage and St. Joseph's Sound is marked by two red buoys. These buoys, especially the outside one change at times of roughweather and can not be followed too closely. The passage will carry eight feet at low tide but there is a 6 ft spot about 400 meters east of the inner buoy which must be avoided. There is also a 7 ft spot north of the channel but this is fairly well out of the way.

A big shoal extends south from Anclote Island to this channel. It is of sand and mud and is covered with grass. A small channel circles around from sta. Chan, past the dock at Anclote light house and then out into the Gulf. It will carry a good 8 ft up to the dock but shoals up to 5 or 6 ft at sta. Gull. This channel is used by the tender of the light house at

600 m.  
in sheet.  
see.  
incl  
Dev  
see

Anclote Key. Near the north end of Anclote Island a large fan shaped shoal makes off and surrounds the north Anclote Keys. It is of mud and sand and covered with grass. There are a few deep spots in this area but none of them amount to anything. Two lines of soundings were run between Anclote Island and the Key to the east of the north end of Anclote Island. Fixes were taken at either end of these lines and the distances off shore estimated between the islands.

Along the entire east side of Anclote Anchorage and St. Joseph's Sound the one fathom curve is about two miles off shore. The bottom is of soft mud and is covered with grass. Just west of tri. sta. Clear there is deep water close inshore but this has been dredged out by the dredge working in this area and constructing the Dunedin Isles.

There is a dredged channel from tri. sta. Ace to tri. sta. Cent. It is marked by the range tri. sta. Cent, tri. sta. In. A rock was found in this channel and shown on sheet "g" of Anclote River.

Near tri. sta. Ace there is a wreck shown on the old chart. This wreck was searched for with a drag constructed on the launch but nothing was found. The dragged area is shown on sheet "g". This area is used as an anchorage by local sponge fishermen in bad weather and none of them knew anything about a wreck in this vicinity.

Another channel leads from tri/ sta. Out to tri. sta. Cone and is very narrow and crooked. It is marked by 4x4 stakes with pointer arms and is used by small boats passing out the north entrance to Anclote Anchorage. It will carry about 4 ft draft.

The North entrance to Anclote Anchorage is partly shown in this sheet, and will carry about 6 or 7 ft draft at low tide. It is used considerably by the local sponge fishermen. The deeper water of Anclote Anchorage is about one mile wide and about  $3\frac{1}{2}$  miles long. It is well

protected from the seas and fairly well protected from the Wind. During this work the Hydrographer was anchored off sta. Duk in 12 ft of water.

From 6 to 7 ft draft can be taken down St. Joseph's Sound to sta. Off. At this point the bottom shoals up and it would not be safe to take more than 5 ft further.

About 400 meters N.W. of tri. sta. Sea there is a boiling spring where the water boils up above the surface of the surrounding water in calm weather. Several soundings were taken in this area. They are plotted and marked by a prick point on the smooth sheet. The position number and depth of sounding is shown to one side with a pencil mark connecting it with the sounding.

At position 97<sup>y</sup>, just west of sta. Rain there is a 8' sounding shown between a 10' and a 15' sounding. This area was developed on sheet "D". *not sufficient development to repeat 8.* A.L.S. 2

#### 5. Survey Methods.

No new methods were used in making this survey. The control was furnished by triangulation and topography. The boat used was the ships launch and the party ordinarily consisted of one officer, one recorder, one Q.M. taking left angle, one coxswain, leadsman and the launch engineer.

Much of the shoal area north of Hog Island and close to the mainland had to be done at high tide and this accounts for the broken lines in this area.

Respectfully submitted,

*Jack C. Sammons*

Jack C. Sammons, Lieut.(j.g.).

STATISTICS SHEET NO. 1

Date (1926)	Letter	Volume	Positions	Soundings	Miles Statute	Vessels
June 9th.....	a	1	36	198	5.3	Launch
June 10th.....	b	1	108	588	16.5	Launch
June 11th.....	c	1	100	547	16.5	Launch
June 23rd.....	d	1-2	75	448	11	Launch
June 24th.....	e	2	196	1151	28.3	Launch
June 25th.....	f	2-3	132	793	22	Launch
June 26th.....	g	3	71	386	10	Launch
June 28th.....	h	3-4	117	664	17.5	Launch
June 29th.....	i	4	160	902	26.5	Launch
June 30th.....	j	4-5	145	807	24.0	Launch
July 1st.....	k	5	160	915	26.5	Launch
July 2nd.....	l	5	72	411	11.75	Launch
July 8th.....	m	6	191	1117	31.7	Launch
July 15th.....	n	6-7	161	950	25	Launch
July 16th.....	p	7	72	337	9.2	Launch
August 2nd.....	q	7	65	476	13.5	Launch
August 3rd.....	r	7-8	159	888	23	Launch
August 4th.....	s	8	90	490	13	Launch
August 5th.....	t	8-9	179	1001	29.5	Launch
August 6th.....	u	9	84	474	15	Launch
August 12th.....	v	9-10	139	732	21.5	Launch
August 17th.....	w	10	100	565	16	Launch
August 18th.....	x	10-11	155	828	23	Launch
August 20th.....	y	11	106	530	16	Launch
August 24th.....	z	11	64	336	11	Launch
August 25th.....	a'	12	120	658	19	Launch
August 26th.....	b'	12	153	858	27	Launch
August 30th.....	c'	13	75	595	12	Launch
August 31st.....	d'	13	130	586	17	Launch
September 1st..	e'	13	47	238	7.5	Launch
September 2nd..	f'	14	20	91	2	Launch
September 10th..	g'	14	9	9	0.25	Launch
September 28th..	h'	14	17	48	1	Launch
<b>Totals</b>	<b>33</b>	<b>14</b>	<b>3526</b>	<b>19,377</b>	<b>549.0</b>	



Verification Report on Sheet No. 4582.

The records conform to the requirements of the General Instructions except that no notes were made when fices were corrected in plotting the smooth sheet, questionable soundings were neither appraised nor rejected, and at position 13 f there is a lapse of 7 minutes and 20 seconds in time that is unexplained.

The sounding line crossings are adequate.

Considerable imagination may be employed in drawing the depth curves as dredging operations were in progress at the time of this survey and there is no information concerning what they were doing or what they intended to do in regard to channels or dredged depths. The field party drew the curves both inside and outside the controlling depths so their work is not dependable.

The plotting was accurately done but the position numbers were placed so close to the positions that many of them were obliterated when the soundings were inked.

There were a large number of errors in the plotting of soundings. These were due either to carelessness or ignorance.

The six foot spot east of the inner red buoy should have been further developed. The Chart shows 5 1/2 ft.

Questionable notes ~~and~~ soundings at positions 46 e, 16 c, 152 b', and 119' are noted on the smooth sheet.

April 14, 1927

C. E. Christopherson

IN REPLY ADDRESS THE DIRECTOR  
U. S. COAST AND GEODETIC SURVEY  
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO NO. 11-DRM

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

May 17, 1927.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4582

Anclote Anchorage and St. Josephs Sound, Florida

Surveyed in 1926

Instructions dated June 3, 1924 (HYDROGRAPHER)

Chief of Party, R. P. Eyman.

Surveyed by J. C. Sammons.

Protracted and soundings plotted by J. C. Sammons.

Verified and inked by C. E. Christopherson.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of development satisfy the requirements of the General Instructions except that more development should have been made off the north and south ends of Anclote Keys. Also more soundings should have been taken in Hurricane Pass.
3. The plan and extent of the survey satisfy the requirements of the specific instructions.
4. The information is sufficient for drawing the usual depth curves except off the north and south ends of Anclote Keys, where due to the insufficient development the curves had to be approximated.
5. The sounding line crossings are adequate.
6. The usual field plotting was done by the field party and is open to the following objections:
  - (a) The position numbers were placed too close to the positions.
  - (b) Explanatory notes should have been made in the record when fixes were corrected in plotting.
  - (c) Many errors in the plotting of soundings.
7. The junction with H. 4577 is satisfactory.

The junction with H. 4581 on the west will be taken up when that sheet is reviewed.

8. No additional work is necessary here at present; but if work is extended to the northward a few more lines should be run off the north end of Anclote Keys.
9. Attention is called to the charted wreck off the entrance to Anclote River in Lat.  $26^{\circ} 10 \frac{1}{2}'$ , Long.  $82^{\circ} 49 \frac{1}{2}'$ . In view of the information obtained from local fishermen (see descriptive report, page 3) it seems reasonable to suppose that the wreck may have disintegrated or sunk since it was first reported. However, in the absence of a more detailed examination in this vicinity (the drag work on H. 4574 cannot be considered as conclusive proof) and the fact that positive information was received at the time it was reported (see letter 284 - 1921), it is recommended that for the present the wreck symbol be retained on the charts.
10. Character and scope of surveying - good.  
Field drafting - fair.
11. Reviewed by A. L. Shalowitz, May, 1927.

Approved:

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Chief, Section of Field Records (Charts)

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Chief, Section of Field Work (H. & T.)

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

C. & G. SURVEY  
L. & A.  
DEC 20 1926  
Ann. No.

REG. NO. 4582

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.

Field No. "f"

REGISTER NO. 4582

State Florida

General locality Gulf Coast of Florida

Locality Anclote Anchorage and St. Josephs Sound

Scale 1/20,000 Date of survey June-Sept. 1926

Vessel Steamer Hydrographer

Chief of Party Raymond P. Eymen

Surveyed by J. C. Sammons

Protracted by J. C. Sammons

Soundings penciled by J. C. Sammons

Soundings in ~~fathoms~~ feet

Plane of reference M.L.W.

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated June 3rd 1924

Remarks: