7818

Diag. Cht. Nos. 1114, 1260, 1261-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. HY-10248 *Office No.* H-7818

LOCALITY

State FLORIDA

General locality Gulf of Mexico

Locality South of St. Marks, Florida

19~~4~~50

CHIEF OF PARTY

George L. Anderson

LIBRARY & ARCHIVES

DATE JAN 18 1954

8-1870-1 (1)

7818

Form 537
(Ed. June 1946)

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-7818

Field No. HY-10248

State FLORIDA

General locality Gulf of Mexico

Locality South of St. Marks, Florida

Scale 1:100,000 Date of survey 5 May-7 December 1950

Instructions dated 26 September 1946; Supplemental - 9 July 1947, 6 October 1948, 15 March 1949

Vessel HYDROGRAPHER

Chief of party George L. Anderson

Surveyed by Ships Officers ~~attached during 1950~~

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

Fathograms scaled by Various ship's personnel under officer supervision

Fathograms checked by Various ship's personnel under officer supervision

Protracted by C.A.J.Pauw

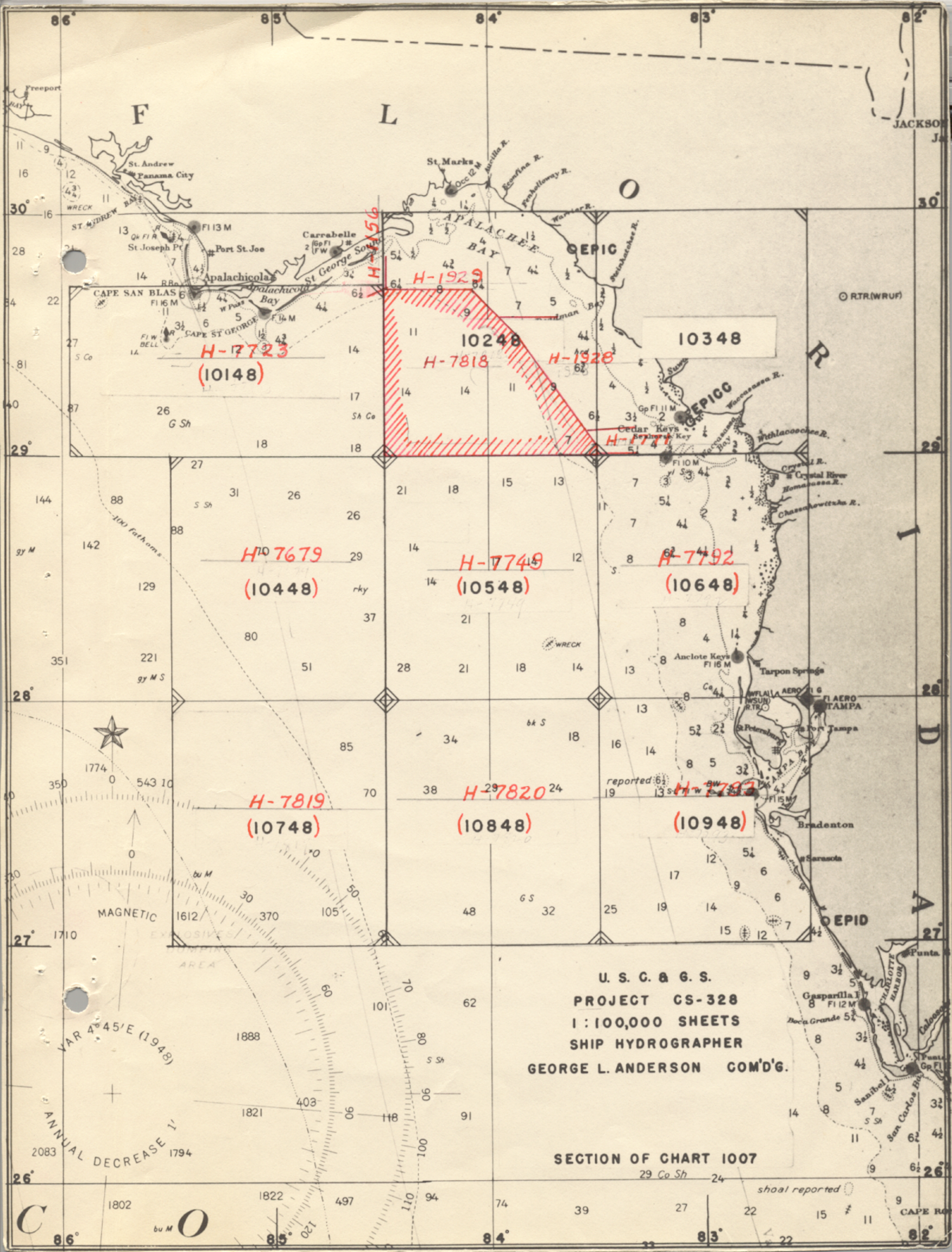
Soundings penciled by C.A.J.Pauw

Soundings in ~~fathoms~~ feet at MLW ~~MLLW~~ and are true depths

REMARKS: Off shore survey - EPI control

Plotted in Seattle Processing Office

U. S. GOVERNMENT PRINTING OFFICE 693019


U. S. C. & G. S.
PROJECT CS-328
1:100,000 SHEETS
SHIP HYDROGRAPHER
GEORGE L. ANDERSON COM'D'G.
SECTION OF CHART 1007
H-7723
(10148)
10248
H-7818
H-1929
H-1928
H-4156
10348
H-1777
H-7679
(10448)
H-7749
(10548)
H-7792
(10648)
H-7819
(10748)
H-7820
(10848)
H-7793
(10948)
VAR 4°45'E (1948)
ANNUAL DECREASE 1'
MAGNETIC
EXPLOSIVES DUMPING AREA
APALACHEE BAY
St. Marks
Apalachicola
Apalachicola Bay
St George Sound
CAPE SAN BLAS
CAPE ST GEORGE
Carrabelle
Port St. Joe
St. Andrew
Panama City
Freeport
Cedar Keys
Anclote Keys
Tarpon Springs
TAMPA
Port Tampa
St Petersburg
TAMPA BAY
Bradenton
Sarasota
Gasparilla I.
Boca Grande
CHARLOTTE HARBOR
Sanibel I.
San Carlos Bay
Crystal River
Withlacoochee R.
Waccasassa R.
Aucilla R.
Econfina R.
Fenholloway R.
100 fathoms
shoal reported
JACKSON
CAPE RO

DESCRIPTIVE REPORT

To Accompany

HYDROGRAPHIC SURVEY H-7818 (HY-10248) Scale 1:100,000

Ship HYDROGRAPHER George L. Anderson
Chief of Party

A. PROJECT

This survey was made under Instructions from the Director to the Commanding Officer, Ship HYDROGRAPHER, for project CS-328 and are dated 26 September 1946; amended by Supplemental Instructions dated 9 July 1947, 6 October 1948 and 15 March 1949.

B. SURVEY LIMITS AND DATES

This survey is off shore from and south of St. Marks, Florida. An index of all adjacent hydrographic sheets is attached.

This survey joins contemporary surveys, as indicated, on the south and on the west. It effects a junction with older surveys in the vicinity of the ten (10) fathom curve on the north and east.

Starting on the northwest and proceeding thru the east, south and west to the point of beginning this survey joins:

1. Survey H-1156, scale 1:20,000, surveyed during 1872.
2. Survey H-1929, scale 1:80,000, surveyed during 1889.
3. Survey H-1928, scale 1:80,000, surveyed during 1889. Review, par. 4.
4. Survey H-1771, scale 1:40,000, surveyed during 1887.
5. Survey H-7749 (1948-50) (HY-10548), scale 1:100,000, surveyed during the 1948 and 1949 field seasons.
6. Survey H-7723 (1948-50) (HY-10148), scale 1:100,000, surveyed during the 1948, 1949 and 1950 field seasons.

In the extreme northwest corner of this sheet the survey does not effect a junction (along the west side) with Survey H-1156. The EPI work in areas, of which this is one, where Project limits are on the beach was carried approximately to the ten (10) fathom curve. Survey H-1156 falls within the limits of Project CS 328 and will be resurveyed at a later date at which time satisfactory junctions will be made with Surveys H-7818 (HY-10248) (1950) and H-7723 (HY-10148) (1948-50) in this area.

The work on this survey was started on 5 May 1950 and was completed on 7 December 1950.

C. VESSEL AND EQUIPMENT

All work on this survey was accomplished by the Ship HYDROGRAPHER. No subparties were operated from the ship on this survey.

The Ship HYDROGRAPHER has a turning radius of 80 to 120 meters depending on the wind and/or current.

All soundings were taken with 808J type Depth Recorders Nos. 131 SG and 132 SG. The sounding unit used is integral feet. The installation of these units was such that either could be used at will and both are considered regular units and neither a standby as in previous seasons.

Frequent simultaneous comparisons with wire soundings were made to obtain corrections and to assure the correct operation of the depth recorders.

The gyroscope compass was used at all times while this survey was in progress. Bearings were taken when proceeding in and out of port and sun azimuths on the working grounds to check on the operation of the compass. The error was found to be negligible.

D. TIDE AND CURRENT STATIONS

The observed tides at the Tampa Bay, Florida, Primary Tide Station located at St. Petersburg was used for the reduction of soundings. (See tidal note for additional information).

No tide or current stations were occupied within the limits of this survey.

E. The Smooth Sheet is being processed by the ~~Norfolk~~ Seattle Processing Office.

F. CONTROL STATIONS

The hydrography on this survey was controlled by two EPI shore stations. Station EPICC was located at Cedar Keys, Florida in Latitude 29° 07' 48".0, Longitude 83° 03' 07".7. Station EPID was located at Venice, Florida in Latitude 27° 04' 53".4, Longitude 82° 26' 47".7. (For detail description of location etc. see applicable report).

The length of base line between EPICC and EPID is approximately 144 statute miles. The least angle of intersection of the arcs on this survey is approximately 31 degrees.

For the control used on the location of fixed buoys off Tampa Bay Entrance and Cape St. George, see cahier Geodetic Computations attached to the EPI report.

G. SHORELINE AND TOPOGRAPHY

This is an off shore survey and no shore line or topography is shown on this sheet.

H. SOUNDINGS

Sounding corrections for velocity of sound and instrumental errors were controlled by adequate serial temperatures and salinities and by frequent simultaneous comparisons using sounding machine No. H-141 with stranded wire over calibrated sheaves.

The effective length of the stylus arm of the 808J type machines was checked. The speed of the machine was checked against the fathogram as described in paragraph 5554 of the Hydrographic Manual. Frequent additional checks were made during the season. The speed of the machine, using the middle reed and counting the number of turns of the stylus arm on the fathom scale, was checked and recorded in the sounding volumes at frequent intervals.

Summaries of all applicable reducers are attached to this report.

I. CONTROL OF HYDROGRAPHY

All hydrography on this sheet is ship hydrography. This work is controlled by the EPI system using stations EPICC and EPID. Special test buoys were planted near shore and on the working grounds to obtain corrections to the EPI distances received during hydrographic operations. For the explanation of the use of these buoys and the correctors derived see the applicable reports. A list of the correctors used to reduce the distances observed on this survey is attached to this report.

J. ADEQUACY OF SURVEY

This survey is complete and adequate to supersede prior surveys for charting. All junctions with contemporary adjoining surveys are satisfactory, no holidays or excessive differences exist. All depth curves can be drawn at the junctions.

K. CROSSLINES

Approximately 10% of the hydrography is crosslines. No excessive discrepancies appear on the boat sheet.

L. COMPARISON WITH PRIOR SURVEYS

Satisfactory junctions were obtained with the modern surveys listed in paragraph B above. This survey supersedes in part the following surveys:

1. Survey H-1156, scale 1:20,000, surveyed during 1872.
2. Survey H-1929, scale 1:80,000, surveyed during 1889. Review, par. 5.
3. Survey H-1928, scale 1:80,000, surveyed during 1889.
4. Survey H-1771, scale 1:40,000, surveyed during 1887.
5. Survey H-1354, scale 1:600,000, surveyed during 1881-82.

The soundings shown on the above surveys are in good agreement with those on the new survey. A detail analysis of the comparison between the old surveys and the new survey will be made after the smooth sheet is plotted. There are several cases where the old and the new surveys are in apparent disagreement (as outlined below). On careful analysis

a very small displacement of either the old and/or the new work would bring the surveys into complete agreement. Your attention is invited to the following examples:

1. *7 fathoms in Lat. 29° 03'.2, Long. 83° 37'.8 which falls in general depths of 55-56 feet on the new survey. A sounding of 50 feet (52 feet on boat sheet) was obtained on the new survey adjacent to the old sounding. * 7¾ fms. (47 ft.) on H-1771 (1882) in agreement with 50 ft. on pres. survey (84 ft.)

2. 14 fathoms in Lat. 29° 15'.5, Long. 84° 22'.5 and also in Lat. 29° 15'.5, Long. 84° 28'.2. These soundings are from H-1354. This survey was an off shore survey and the lines were apparently controlled at least in part by Dead Reckoning methods. A shift of the old sounding line would bring the soundings into agreement. 91-93 ft. on pres. survey ✓ See Review, par. 5

3. *9 fathoms in Lat. 29° 33'.8, Long. 84° 01'.2 which falls in general depths of 61-65 feet. A shift of the sounding line on which this sounding was obtained would bring the two surveys into agreement. * Actually 9¾ fms. (59') on H-1929 (1889) from where it originates. Good agreement with pres. depth of 61 ft. considering irregularities in bottom

4. The ten fathom curve along the northern limit of the survey is in agreement with the charted curve when the more detail delineation of the new survey is taken into account. Along the northeast and east edge of the survey there appears to be a displacement to the eastward on the new survey. The closer spacing of the lines on the new survey insures a correct delineation and the soundings used in drawing the curves on the old survey in some cases appear to be isolated shoals with the ten fathom curve falling to the eastward.

M. COMPARISON WITH EXISTING CHARTS

This survey has been compared with Chart 1007, print date 3 March 1950; Chart 1114, print date 15 August 1949; Chart 1259, print date 28 March 1949; Chart 1260, print date 13 February 1950; Chart 1261, print date 10 October 1949. The surveys discussed above are the source of the hydrography shown on these charts. No additional discussion is necessary.

N. DANGERS AND SHOALS

All charted dangers and shoals were found as charted or shoaler depths were found except for those listed in paragraphs L, M, N, above.

P. AIDS TO NAVIGATION

No floating or fixed aids to navigation fall within the limits of this survey.

U. MISCELLANEOUS

This survey is one of many being made from the ship based at Saint Petersburg, Florida. Due to the necessity for EPI tests at frequent intervals at known point, because of the weather, attempts to reduce the runs to and from port to a minimum, and related factors the planning of the work to be accomplished necessarily took in the entire project instead of concentrating on any one sheet. The concentration of lines around the test buoys resulted from the frequent EPI tests. Most of the hydrography on Survey H-7792 (10648) (1948-50) and H-7793 (10948) (1948-50) was accomplished on the runs to and from the outer limits of the project.

Z. TABULATION OF APPLICABLE DATA

The data listed below was forwarded to the Officer in Charge, Norfolk Processing Office as indicated:

Pkg. No.	Date	Data
--	10/26/49	1 cahier - Fixed Buoy Computations

The copies of the reports on the various phases of the work accomplished in 1950 together with the sounding volumes, fathograms, boat sheet and related material will be forwarded as they are processed.

The data listed below was forwarded direct to the Washington Office:

Date	Data
3/18/49	Location data for Station EPICC
5/18/50	Report on Calibration of Registering Sheaves in Library
11/1/50	Report of Settlement and Squat

Z. (Cont.)

1/9/51	Season's Report for 1950	
1/15/51	EPI Correctors for 1950	
1/17/51	Report on Velocity Corrections for 1950	H-7871
1/18/51	Report on Initial and Instrumental Corrections for 1950	

J. E. Waugh
LCdr., USC&GS

APPROVAL SHEET

The field work accomplished on this survey was under my immediate supervision. Daily inspection of the records, fathograms and boat sheet was made as the survey progressed.

The records, reports and boat sheet as submitted to the Norfolk Processing Office have been reviewed by me and are approved. The survey is considered complete and adequate and no additional field work is recommended.

George L. Anderson
Commander, USC&GS
Commanding Officer
Ship HYDROGRAPHER

7818

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
USC&GSS HYDROGRAPHER, BOX 1259
ST. PETERSBURG 1, FLORIDA

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

29 January 1951

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

Subject: Status of Processing of Records on
Survey H-7818

The boat sheet, sounding volumes, descriptive report and related records, for Survey H-7818 (HY-10248) are being forwarded to you under separate cover. This survey (1950) has been completed.

Personnel aboard the Ship HYDROGRAPHER have completed the processing of the records as indicated.

1. All fathograms scanned and check scanned under officer supervision.

2. All sounding correctors entered and checked. The soundings have been reduced but not checked.

3. All EPI correctors entered and checked. The corrected distances have been computed and checked.

Volume No. 19 (the last volume) is being held aboard pending receipt of the tide reducers for December. It will be forwarded when completed.

George L. Anderson
George L. Anderson
Commander, USC&GS
Commanding Ship HYDROGRAPHER

cc: Director

CONTROL

Plotted ; Checked

Tri. : Checked

Topo : Drawn

Hydro : Checked

Shoreline : Inked:

PROJECTION

Computed Depth Curves by

Checked Desc. Rpt. by

SHEET NO.

Field Hy-10248

Reg. H-7818

7818

Vol. No.	RECORDS				SMOOTH SHEETS		DATA RECEIVED	REMARKS
	Sounding							
	Tide reducers		Soundings					
	Ent.	Ck'd	Reduced	Ck'd	Pos. Protr'td	Sndgs Penciled		
1	Field	Field	Field					
2	"	"	"					
3	"	"	"					
4	"	"	"					
5	"	"	"					
6	"	"	"					
7	"	"	"					
8	"	"	"					
9	"	"	"					
10	"	"	"					
11	"	"	"					
12	"	"	"					
13	"	"	"					
14	"	"	"					
+	"	"	"					
16	"	"	"					
17	"	"	"					
18	"	"	"					
19	"	"	"					

Received ______ Locality ______ SHEET NO. Scale 1: ______

Completed ______ Ship ______ Field ______

To Washington ______ Ch. of Party ______ Reg. H- ______

RAR, VISUAL, WD ______ Inst. Dated ______ Proj. No. CS- ______

Triangulation Data

Comp. ______ Checked ______

Topo Sheets Required ______

RECORDS

Vol. No.	Bomb		Soundings						
	Ck'd with Abstract	Ck'd with Sndg	S T & D		I & S		Fathograms		Final Vel
			Ent.	Ck'd	Ent.	Ck'd	Scaled	Rescaled	

M-2188-1(2)

CONTROL PROJECTION SHEET NO.

Plotted ; Checked Computed _____ Depth Curves by _____ Field Hy-10248

Tri. _____ : _____ Checked _____ Desc. Rpt. by _____ Reg. H-7818

Topo _____ : _____ Drawn _____

+ Hydro _____ : _____ Checked _____

Shoreline _____ : Inked : _____

7818

Vol. No.	RECORDS: Sounding — Tide reducers: Ent.	RECORDS: Sounding — Tide reducers: Ck'd	RECORDS: Soundings: Reduced	RECORDS: Soundings: Ck'd	SMOOTH SHEETS: Pos. Protr'td	SMOOTH SHEETS: Sndgs Penciled	DATA RECEIVED	REMARKS
		Recd - 1-29-51						
		✓ 1- Boat sheet.						
		✓ 18- Sounding Vols.						
		✓ 2 - Descr. Reports —						
		✓ 1 - cohier - E.P.I. plotting abstracts —						
		Recd - 1-31-51						
		✓ 29 - Envelopes of Fathograms -					(1A thru 28FA)	
		Recd - 3-5-51						
+		✓ 1- Sdg. Vol. #19						
		✓ 1 Smooth Sheet						

M-2188-1(2)

Received 1-29-51 Locality S. of St. Marks, Florida SHEET NO. Scale 1: 100,000

Completed ______ Ship Hydrographer. Field Hy-10248

To Washington ______ Ch. of Party Geo. L. Anderson - Reg. H- 7818

~~RAR, VISUAL, WD~~ E.P.I. Inst. Dated ______ Proj. No. CS- 328

Triangulation Data Topo Sheets Required ______

Comp. ______ Checked ______

RECORDS

Vol. No.	Bomb		Soundings						
	Ck'd with Abstract	Ck'd with Sndg	Vel. ~~S T & D~~ Corr.		I & S		Fathograms		Final Vel
			Ent.	Ck'd	Ent.	Ck'd	Scaled	Rescaled	
1			Field	Field	Field	Field	Field	Field	
2			"	"	"	"	"	"	
3			"	"	"	"	"	"	
4			"	"	"	"	"	"	
5			"	"	"	"	"	"	
6			"	"	"	"	"	"	
7			"	"	"	"	"	"	
8			"	"	"	"	"	"	
9			"	"	"	"	"	"	
10			"	"	"	"	"	"	
11			"	"	"	"	"	"	
12			"	"	"	"	"	"	
13			"	"	"	"	"	"	
14			"	"	"	"	"	"	
15			"	"	"	"	"	"	
16			"	"	"	"	"	"	
17			"	"	"	"	"	"	
18			"	"	"	"	"	"	
19-		Not recieved from field → Recd - 3-5-51					"	"	

M-2188-1(2)

H 7818(1950)

HY 10248

Gulf of Mexico
South of St. Marks, Florida.

Processing Office Notes.

Smooth sheet.
The projection and EPI arcs and the revised arcs were made by the Washington Office.

Survey Buoys.
These buoys were used by the field party for determining and checking EPI corrections. Sounding lines were not tied to the buoys and were not adjusted to them. The buoys were plotted from a photostat copy of the list of distances to Cedar Keys (CC) and Venice (D), 1950 work, sent from the Washington Office. EPI Sta. Deckle Beach was not used for control on this sheet.

Sounding lines.
Many adjustments were made in the sounding lines to make the positions consistent with time, course and crossings. These adjustments were noted in the sounding records.

Soundings near Buoy 28.
In this locality the scale of the survey was enlarged to 1/ 50 000 by projecting the positions on tracing paper. Soundings were plotted on the tracing from which selected soundings were transferred to the smooth sheet. Tracing attached hereto.

Bottom.
There are small irregularities in depth, up to 4 or 5 feet, thruout the area of the survey, as is characteristic of other sheets of this project in corresponding depths. In the report for H 7792 (1948) Page 6 it is said that " numerous sand shoals which are unstable in character appear over the entire area" of H 7792. It is evident that the same is true of H 7818.(1950)
Neglecting these small irregularities the depths increase gradually as you proceed offshore. The shoalest water 39 and ~~41~~ 40 feet are at the northwest and northeast corners of the sounded area and the deepest water 114 feet at the southwest corner.

Edgar E. Smith
Cart. Engr. 12/31/53

VELOCITY CORRECTIONS

For Type 808 J Depth Recorder - Velocity of sound 820 fathoms per second

NOTE: All corrections additive unless otherwise indicated

SURVEYS: H-7723 (10146); H-7818 (10248); H-7792 (10543); H-7820 (10548); H-7793 (10943).

PERIOD: 2 May through 13 May 1950.

FEET			FATHOMS		
From	Depth To	Corrn.	From	Depth To	Corrn. (0.1)
00.0	25.0	0.0	00.0	4.6	0.0
25.1	54.5	0.5	04.7	10.6	0.1
54.6	88.5	1.0	10.7	20.8	0.2
88.6	196.0	1.5	20.9	33.3	0.3
196.1	200.0	2.0			

PERIOD: 18 May through 27 May 1950.

FEET			FATHOMS		
From	Depth To	Corrn.	From	Depth To	Corrn. (0.1)
00.0	22.0	0.0	00.0	04.1	0.0
22.1	45.9	0.5	04.2	09.0	0.1
46.0	72.2	1.0	09.1	16.3	0.2
72.3	100.1	1.5	16.4	20.4	0.3
100.2	131.5	2.0	20.5	22.0	0.4

PERIOD: 5 June through 29 July 1950.

FEET			FATHOMS		
From	Depth To	Corrn.	From	Depth To	Corrn. (0.1)
20.9	40.0	0.5	4.5	7.5	0.1
40.1	59.5	1.0	7.6	12.0	0.2
59.6	79.0	1.5	12.1	15.5	0.3
79.1	102.0	2.0	15.6	20.5	0.4
102.1	130.0	2.5	20.6	26.5	0.5
130.1	157.5	3.0	26.6	32.0	0.6
157.6	160.0	3.5	32.1	38.5	0.7
			38.6	45.5	0.8
			45.6	57.0	0.9
			57.1	67.0	1.0

VELOCITY CORRECTIONS

For Type 808 J Depth Recorder - Velocity of sound 820 fathoms per second

NOTE: ALL corrections additive unless otherwise indicated

SURVEYS: H-7723 (10148); H-7818 (10248); H-7792 (10648); H-7820 (10848); H-7793 (10948); H-7821 (20149); Chart 1007.

PERIOD: 6 December through 15 December 1950

FEET

Depth From	Depth To	Corrn.
00.0	27.5	0.0
28.0	59.0	0.5
59.5	90.0	1.0
90.5	121.5	1.5
122.0	150.5	2.0
151.0	162.0	2.5

FATHOMS

Depth From	Depth To	Corrn. (0.1)
7.0	11.5	0.1
11.6	17.5	0.2
17.6	23.5	0.3
23.6	29.0	0.4
29.1	34.8	0.5
34.9	40.4	0.6
40.5	46.2	0.7
46.3	52.2	0.8
52.3	59.0	0.9
59.1	67.5	1.0
67.6	77.0	1.1
77.1	88.0	1.2
88.1	131.5	1.3
131.6	151.0	1.2
151.1	160.0	1.1

FATHOMS

Depth From	Depth To	Corrn. (0.2)
0.0	11.5	0.0
11.6	23.5	0.2
23.6	34.8	0.4
34.9	46.2	0.6
46.3	59.0	0.8
59.1	77.0	1.0
77.1	151.0	1.2
151.1	160.0	1.0

FATHOMS

Depth From	Depth To	Corrn. (0.5)
0.0	25.0	0.0
25.1	54.0	0.5
54.1	160.0	1.0

INSTRUMENTAL CORRECTIONS

1950

Abstract of Instrumental Corrections including the correction for Settlement and Squat.

Surveys: Chart 1007; H-6548; H-7723 (10148); H-7749 (10548); H-7792 (10648); H-7793 (10948); H-7818 (10248); H-7819 (10748); H-7820 (10848); H-7821 (20149); H-7871 (10150); H-7872 (20150); H-7873 (20250).

FOOT SCALES

Fath. No.	Date	Scales:	A	B	C	D
131 SG	2 - 27 May	Speed:	120 RPM and over			
		Corrn:	- 0.5	- 0.5	+ 2.0	+ 4.0
		Speed:	106 RPM to 119 RPM incl.			
		Corrn:	- 1.0	- 1.0	+ 1.5	+ 3.5
		Speed:	105 RPM and under			
		Corrn:	- 1.5	- 1.5	+ 1.0	+ 3.0
	5 June - 15 December	Speed:	120 RPM and over			
		Corrn:	0.0	+ 0.5	+ 2.5	+ 4.5
		Speed:	106 RPM to 119 RPM incl.			
		Corrn:	- 0.5	0.0	+ 2.0	+ 4.0
		Speed:	105 RPM and under			
		Corrn:	- 1.0	- 0.5	+ 1.5	+ 3.5

FATHOM SCALES

131 SG	2 - 27 May		CORRECTORS TO 0.1 FATHOM			
		Speed:	108 RPM and over			
		Corrn:	- 0.1	- 0.7	+ 1.9	+ 4.0
		Speed:	107 RPM and under			
		Corrn:	- 0.2	- 0.8	+ 1.8	+ 3.9
			CORRECTORS TO 0.2 FATHOM			
		Speed:	All speeds			
		Corrn:	- 0.2	- 0.8	+ 1.8	+ 3.8

Comp: JEW
CK: MSK
WRK

FATHOM SCALES

Path. No.	Date	Scales:	A	B	C	D
131 SG	2 - 27 May		CORRECTORS TO 0.5 FATHOM			
		Speed:	All speeds			
		Corrn:	- 0.5	- 1.0	+ 2.0	+ 3.5
	5 June		CORRECTORS TO 0.1 FATHOM			
	15 December	Speed:	108 RPM and over			
		Corrn:	- 0.1	+ 0.4	+ 2.4	+ 4.3
		Speed:	107 RPM and under.			
		Corrn:	- 0.2	+ 0.3	+ 2.3	+ 4.2
			CORRECTORS TO 0.2 FATHOM			
		Speed:	All Speeds			
		Corrn:	- 0.2	+ 0.2	+ 2.2	+ 4.2
			CORRECTORS TO 0.5 FATHOM			
		Speed:	All speeds			
		Corrn:	- 0.5	0.0	+ 2.0	+ 4.0

FOOT SCALES

132 SG	2 May -	Speed:	120 RPM and over			
	0231 19 May	Corrn:	- 0.5	- 1.5	0.0	+ 1.5
		Speed:	106 RPM to 119 RPM incl.			
		Corrn:	- 1.0	- 2.0	- 0.5	+ 1.0
		Speed:	105 RPM and under			
		Corrn:	- 1.5	- 2.5	- 1.0	+ 0.5
	0232 19 May -	Speed:	120 RPM and over			
	0952 19 May	Corrn:	+ 1.0	+ 8.0		
		Speed:	106 RPM to 119 RPM incl.			
		Corrn:	+ 0.5	+ 7.5		
		Speed:	105 RPM and under			
		Corrn:	0.0	+ 7.0		

Comp: JEW
Ck: NET
WRK

FOOT SCALES

Fath. No.	Date	Scales:	A	B	C	D
132 SG	1210 19 May- 20 September	Speed:	120 RPM and over			
		Corrn:	+ 0.5	- 0.5	+ 0.5	+ 2.5
		Speed:	106 RPM to 119 RPM incl.			
		Corrn:	0.0	- 1.0	0.0	+ 2.0
		Speed:	105 RPM and under			
		Corrn:	- 0.5	- 1.5	- 0.5	+ 1.5
	23 September 15 December	Speed:	120 RPM and over			
		Corrn:	0.0	- 0.5	0.0	+ 2.0
		Speed:	106 RPM to 119 RPM incl.			
		Corrn:	- 0.5	- 1.0	- 0.5	+ 1.5
		Speed:	105 RPM and under			
		Corrn:	- 1.0	- 1.5	- 1.0	+ 1.0

FATHOM SCALE

2 May - 0231 19 May		CORRECTORS TO 0.1 FATHOM			
	Speed:	108 RPM and over			
	Corrn:	0.0	- 1.0	0.0	+ 1.8
	Speed:	107 RPM and under			
	Corrn:	- 0.1	- 1.1	- 0.1	+ 1.7
1210 19 May - 20 September		CORRECTORS TO 0.1 FATHOM			
	Speed:	108 RPM and over			
	Corrn:	0.0	- 0.7	+ 0.2	+ 1.7
	Speed:	107 RPM and under			
	Corrn:	- 0.1	- 0.8	+ 0.1	+ 1.6
		CORRECTORS TO 0.2 FATHOM			
	Speed:	All Speeds			
	Corrn:	- 0.2	- 0.8	0.0	+ 1.6
		CORRECTORS TO 0.5 FATHOM			
	Speed:	All speeds			
	Corrn:	0.0	- 1.0	0.0	+ 1.5

Comp: JEW
Ck: NET
WRK

FATHOM SCALE

Fath. No.	Date	Scales:	A	B	C	D
132 SG	23 September 15 December		CORRECTORS TO 0.1 FATHOM			
		Speed:	108 RPM and over			
		Corrn:	+ 0.1	- 0.3	+ 1.3	+ 3.1
		Speed:	107 RPM and under			
		Corrn:	0.0	- 0.4	+ 1.4 (2)	+ 3.2 (0)
			CORRECTORS TO 0.2 FATHOM			
		Speed:	All speeds			
		Corrn:	0.0	- 0.4	+ 1.2	+ 3.0
			CORRECTORS TO 0.5 FATHOM			
		Speed:	All speeds			
		Corrn:	0.0	- 0.5	+ 1.0	+ 3.0
205 (NMC-1) Visual & Chart	2 May - 15 December	Speed:	CORRECTORS TO 0.5 FATHOM All Speeds			
		Corrn:	All Scales: 0.0			

Comp: JEH
Ck: WRK

EPI FINAL CORRECTIONS (Sheet No. 1)

SEASON 1950

SHIP HYDROGRAPHER G.L. ANDERSON, COMMANDING

From	To	Corr. CC	Remarks
1950	1950		
May 2	May 3		
2100	1300	-3.0	
May 3	May 3		Eqpt.
1301	1600	-1.8	Adjust.
May 3	May 3		
1601	2300	-2.0	
May 3	May 4		
2301	0600	-2.2	
May 4	May 4		
0601	1200	-2.4	
May 4	May 4		
1201	1900	-2.6	
May 4	May 5		
1901	0100	-2.8	
May 5	May 5		
0101	0800	-3.0	
May 5	May 5		
0801	1400	-3.2	
May 5	May 5		
1401	2100	-3.4	
May 5	May 6		
2101	0300	-3.6	
May 6	May 6		
0301	1000	-3.8	
May 6	May 6		
1001	2000	-4.0	
May 6	May 7		
2001	1600	-3.8	
May 7	May 8		
1601	0900	-3.6	
May 8	May 9		
0901	0400	-3.4	
May 9	May 10		
0401	0400	-3.2	
May 10	May 11		
0401	2300	-3.0	
May 11	May 12		
2301	1200	-2.8	

From	To	Corr. D	Remarks
1950	1950		
May 2	May 3		
2100	1300	-3.0	
May 3	May 3		Eqpt.
1301	1430	-0.8	Adjust.
May 3	May 3		
1431	2000	-1.0	
May 3	May 4		
2001	0100	-1.2	
May 4	May 4		
0101	0700	-1.4	
May 4	May 4		
0701	1200	-1.6	
May 4	May 4		
1201	2000	-1.8	
May 4	May 5		
2001	1500	-2.0	
May 5	May 8		
1501	0300	-2.2	
May 8	May 11		
0301	1800	-2.4	
May 11	May 12		
1801	1200	-2.2	

MTI FINAL CORRECTIONS

SEASON 1950

SHIP HYDROGRAPHER — G.L. ANDERSON, COMMANDING

From	To	Corr. CC	Remarks	From	To	Corr. D	Remarks
1950	1950			1950	1950		
May 18	May 27			May 18	May 19		
1400	1400	-1.2		1400	2200	-1.0	
				May 19	May 27		
				2201	1400	-1.2	
June 5	June 14			June 5	June 14		
1000	1300	-1.0		1000	1300	-1.4	
June 20	June 20			June 20	June 24		
1200	2400	-2.0		1200	1600	-1.2	
June 21	June 24			June 24	June 26		
0001	2400	-1.8		1601	2400	-1.4	
June 25	June 29		Eqpt.	June 27	June 29		
0001	1300	-1.0	Changed	0001	0200	-1.6	
				June 29	June 29		
				0201	1300	-1.8	
July 6	July 9			July 6	July 8		
2000	1300	-1.2	Ship Ret. to St.	2000	0500	-1.8	
July 10	July 15		Petersburg	July 8	July 8		
1700	1300	-0.8	during trip	0501	2400	-2.0	
				July 9	July 9		
				0001	1300	-2.2	Ship Returned to St. Peters-
				July 10	July 15		burg during tri
				1700	1300	-1.4	
July 20	July 21			July 20	July 20		
1300	1400	-1.0		1300	1600	-2.0	
July 21	July 23			July 20	July 25		
1401	2000	-1.2		1601	0000	-1.8	
July 23	July 26			July 25	July 26		
2001	0600	-1.4		0001	0600	-2.0	

Comp: JPL
CHK: EAD

EPI FINAL CORRECTIONS (Sheet No. 2)

SEASON 1950

SHIP HYDROGRAPHER G.L. ANDERSON, COMMANDING

From	To	Corr. CC	Remarks	From	To	Corr. D	Remarks
July 26 0601	July 26 1800	-1.2		July 26 0601	July 27 1000	-2.2	
July 26 1801	July 27 0800	-1.0		July 27 1001	July 28 0300	-2.0	
July 27 0601	July 27 2200	-0.8		July 28 0301	July 28 2100	-1.8	
July 27 2201	July 28 1400	-0.6		July 28 2101	July 29 1300	-1.6	
July 28 1401	July 29 0600	-0.4					
July 29 0601	July 29 1300	-0.2					
Aug. 9 1300	Aug. 10 0400	-1.2		Aug. 9 1300	Aug. 10 1700	-2.0	
Aug. 10 0401	Aug. 11 0000	-1.0		Aug. 10 1701	Aug. 11 1700	-1.8	
Aug. 11 0001	Aug. 11 1700	-0.8		Aug. 11 1701	Aug. 13 2000	-1.6	
Aug. 11 1701	Aug. 17 1200	-1.0		Aug. 13 2001	Aug. 15 2200	-1.8	
				Aug. 15 2201	Aug. 16 1000	-2.0	
				Aug. 16 1001	Aug. 16 1800	-2.2	
				Aug. 16 1801	Aug. 17 0100	-2.0	
				Aug. 17 0101	Aug. 17 0800	-1.8	
				Aug. 17 0801	Aug. 17 1200	-1.6	
Aug. 23 1300	Aug. 26 2400	-0.8	Ship Ret. to port due to Hurricane	Aug. 23 1300	Aug. 26 2400	-2.1	

Comp: JPL
Chk: EAD

NPI FINAL CORRECTIONS (Sheet No. 6)

SEASON 1950

SHIP HYDROGRAPHER — G.L. ANDERSON, COMMANDING

From	To	Corr. CC	Remarks	From	To	Corr. D	Remarks
Nov. 24 1200	Nov. 25 1200	-1.4		Nov. 24 1200	Nov. 25 0600	-2.0	
Nov. 25 1201	Nov. 28 1200	-1.6		Nov. 25 0601	Nov. 27 0200	-1.8	
Nov. 28 1201	Nov. 29 0600	-1.4		Nov. 27 0201	Nov. 30 1300	-1.6	
Nov. 29 0601	Nov. 30 0000	-1.2					
Nov. 30 0001	Nov. 30 1300	-1.0					
Dec. 6 1200	Dec. 6 1600	-0.4		Dec. 6 1200	Dec. 6 2000	-2.2	
Dec. 6 1601	Dec. 6 2400	-0.6		Dec. 6 2001	Dec. 7 0600	-2.0	
Dec. 6 2401	Dec. 7 0300	-0.8		Dec. 7 0601	Dec. 7 1800	-1.8	
Dec. 7 0301	Dec. 7 0800	-1.0		Dec. 7 1801	Dec. 14 1800	-1.6	
Dec. 7 0801	Dec. 7 1400	-1.2					
Dec. 7 1401	Dec. 7 1900	-1.4					
Dec. 7 1901	Dec. 8 0100	-1.6					
Dec. 8 0101	Dec. 8 0600	-1.8					
Dec. 8 0601	Dec. 8 1400	-2.0					
Dec. 8 1401	Dec. 9 0500	-1.8					
Dec. 9 0501	Dec. 9 2100	-1.6					
Dec. 9 2101	Dec. 10 1100	-1.4					
Dec. 10 1101	Dec. 11 0300	-1.2					
Dec. 11 0301	Dec. 11 1800	-1.0					
Dec. 11 1801	Dec. 12 1000	-0.8					

Comp: JPL
Calc: GCS

HYT FINAL CORRECTIONS (Sheet No. 7)

SEASON 1950

SHIP HYDROGRAPHER G.L. ANDERSON, COMMANDING

From	To	Corr. CC	Remarks
Dec. 12 1001	Dec. 13 0200	-0.6	
Dec. 13 0201	Dec. 13 2100	-0.4	
Dec. 13 2101	Dec. 14 1800	-0.6	

Comps JPL
Chk: WGM

STATISTICS FOR HYDROGRAPHIC SURVEY H-7818 (1950)

Ship HYDROGRAPHER

Project CS 328

Volume Number	Day Letter	Date 1950	Number of Positions	Statute Miles of Soundings
1	A	5 May	26	51.9
1	B	6 May	5	8.8
1	C	11 May	37	69.5
1 & 2	D	19 May	61	113.7
2	E	26 May	19	38.3
2	F	27 May	14	28.8
2	G	6 June	84	162.1
3	H	8 June	15	25.1
3 & 4	J	9 June	105	195.9
4	K	13 June	79	152.6
4 & 5	L	21 June	118	211.6
5 & 6	M	22 June	170	243.4
6 & 7	N	23 June	147	273.3
7 & 8	P	24 June	139	272.5
8 & 9	Q	25 June	166	271.2
9 & 10	R	26 June	151	273.4
11 & 12	S	27 June	142	267.6
12 & 13	T	28 June	130	236.1
13	U	29 June	7	16.1
13	V	7 July	103	191.0
13 & 14	W	8 July	100	166.6
14 & 15	X	11 July	99	187.3
15 & 16	Y	12 July	134	249.3
16 & 17	Z	13 July	141	269.0
17 & 18	AA	14 July	139	258.6
18	BA	15 July	15	29.9
19	CA	21 July	77	147.2
19	DA	22 July	9	16.1
19	EA	6 Dec.	7	11.3
19	FA	7 Dec.	28	49.4
	TOTAL:		2,467	4,487.6

TOTAL NUMBER OF SIMULTANEOUS COMPARISONS 18

TOTAL NUMBER OF TEMPERATURE AND SALINITY OBSERVATIONS 7

TOTAL AREA SURVEYED 2,099 Square Statute Miles

7818

TIDE NOTE

Tide Station: Tampa Bay Florida Primary (St. Petersburg, Florida)

Latitude: 27° 46'

Longitude: 82° 38'

Plane of reference: MLW

Time correction: Minus one hour

Height correction: None

Hourly heights and highs and lows were furnished by the Washington Office. Time and height corrections applied in the field as indicated in the Director's Letters of 13 January 1949, reference 36-tmo and 19 June 1950, reference 36-tmo.

GEOGRAPHIC NAMES

Survey No. H-7818

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
Florida		} for title							BGN.	1
Gulf of Mexico										2
St. Marks										3
										4
Apalachee Bay										5
										6
										7
										8
				Names approved 1-28-54 L. Heck						9
										10
										11
										12
										13
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										26
										27

M 234

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H-7818...

Records accompanying survey:

Boat sheets ..1..; sounding vols. ..19..; wire drag vols. .....;

bomb vols. .....; graphic recorder rolls 29 Env;

special reports, etc. 1 Smooth Sheet; 1 Descriptive Report; 1 Cahier EPI

Plotting Abstracts;.....

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

Number of positions on sheet		2467
Number of positions checked		17
Number of positions revised		—
Number of soundings revised (refers to depth only)	add'l shoal sdgs. scanned from fgms. at uneven time intervals →	417
Number of soundings erroneously spaced		30
Number of signals erroneously plotted or transferred		—
Topographic details	Time	—
Junctions	Time	28
Verification of soundings from graphic record	Time	30

Verification by Chester F. Kupiec..Total time 201.. Date Feb. 14, 1955

Reviewed by...J. A. Dinsmore..... Time 24... Date 18 Mar. 1955

M-2232-1

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7818 FIELD NO.-HY-10248

Florida, Gulf of Mexico, South of St. Marks, Florida

Project - CS-328

Surveyed - May and Dec. 1950 Scale 1:100,000

Soundings: Control:

808 Fathometer E. P. I.

Chief of Party - G. L. Anderson
Surveyed by Ships Officers
Protracted by - C. A. J. Pauw
Soundings plotted by - C. A. J. Pauw
Verified and inked by C. F. Kupiec
Reviewed by - T. A. Dinsmore 18 March 1955
Inspected by - R. H. Carstens

1. Shoreline and Control

There is no shoreline within the limits of this offshore survey.

The survey was controlled by Electronic Position Indicator stations established on the west coast of the Florida Peninsula. The control is described in the Descriptive Report.

2. Sounding Line Crossings

Depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves are adequately delineated. The non-standard brown curve has been added in selected localities to emphasize minor irregularities in the bottom.

The bottom is characterized by numerous sand ridges and troughs differing from 1 to 8 ft. with the surrounding terrain. Depths on the evenly sloping bottom range from 40 to 113 ft.

4. Junctions with Contemporary Surveys

An adequate junction was effected with H-7749 (1948-50) on the south. The junction with H-7723 (1948-50) on the west will be considered in the review of that survey. No contemporary surveys are registered on the north and east. At these limits, however, present survey and charted depths are in harmony.

5. Comparison with Prior Surveys

H-1354 (1881-82), 1:600,000
H-1771 (1887), 1:40,000
H-1928 (1889), 1:80,000
H-1929 (1889), 1:80,000

The area covered by the present survey was for the most part previously unsurveyed. Only a few soundings from the above early reconnaissance surveys fall within the present survey area. A comparison of the prior and present depths reveals only a few minor differences of 3-9 ft. in depths of 50-90 ft. These differences are attributed to the irregularities in the bottom in some instances and in others to errors in position of the prior dead-reckoning sounding lines.

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

6. Comparison with Chart 1114 (Drawing No. 10, March, 1955)

A. Hydrography

Charted hydrography originates entirely with the present survey subsequent to verification. No discrepancies are noted between the charted and smooth-sheet depths.

B. Aids to Navigation

No aids to navigation are charted in this offshore area. No dangers to navigation are revealed by the survey.

7. Condition of Survey

a. The sounding records are complete; the Descriptive Report covers all matters of importance.

b. The smooth plotting was accurately and neatly done.

c. Portions of several day's fathograms were rescanned during verification in order to include numerous shoal soundings which occurred at uneven time intervals. The additional soundings ranging from 3-5-ft. shoaler than plotted depths were recorded in the sounding volumes and added to the smooth sheet by the verifier.

8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

9. Additional Field Work

This is an excellent basic survey and no further field work is required.

Examined and Approved:

H. R. Edmonston
Chief, Nautical Chart Branch

E. R. McCarthy
Acting Chief, Chart Division

J. C. Bull
Chief, Hydrography Branch

Earl O. Heaton
Chief, Division of Coastal Surveys

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. Apr. 1950

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Coastal Surveys~~ 3 February 1954

Division of Charts: R. H. Carstens

Plane of reference approved in
19 volumes of sounding records for

HYDROGRAPHIC SHEET 7818

Locality West Coast of Florida

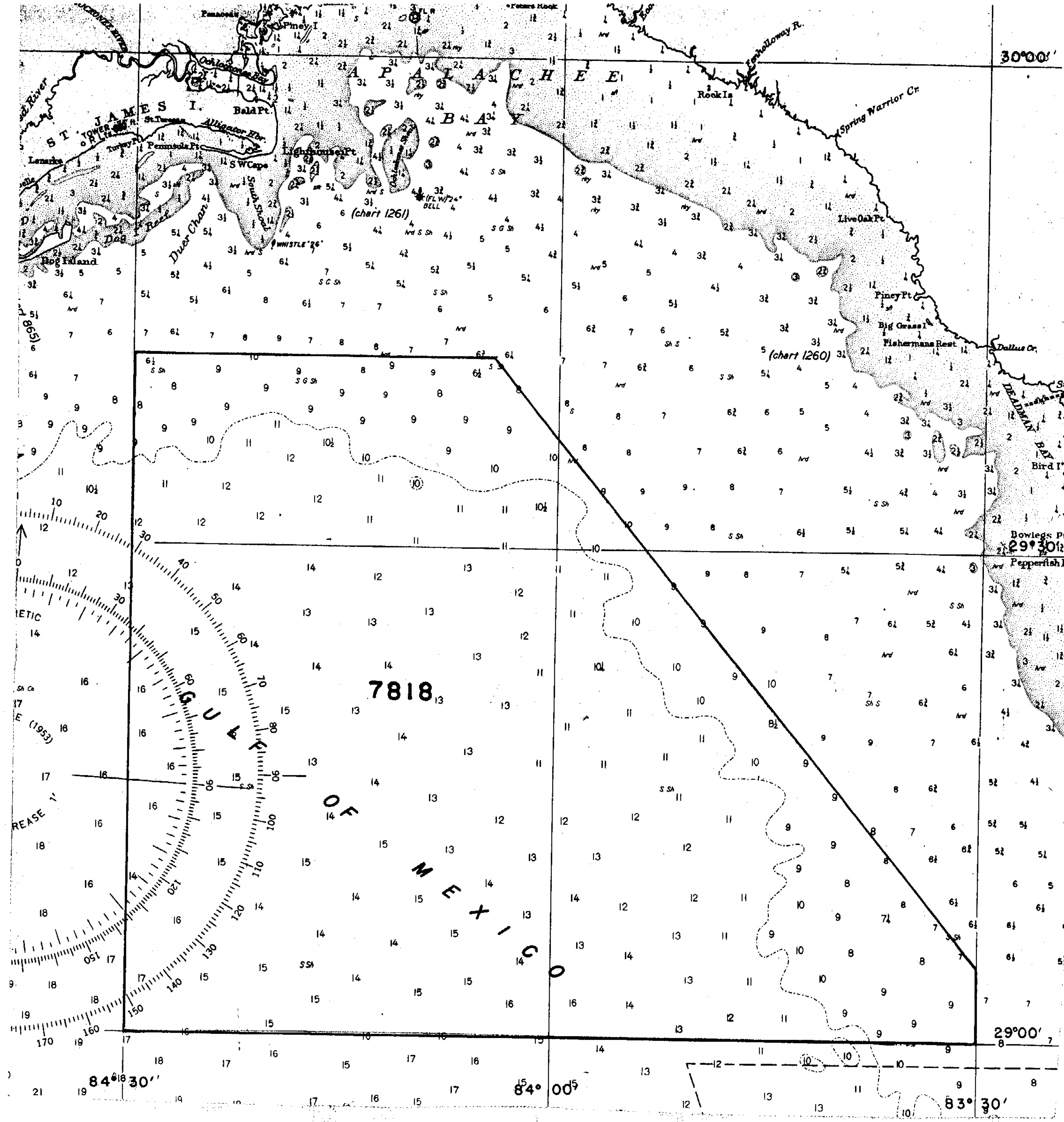
Chief of Party: G. L. Anderson in 1950
Plane of reference is mean low water, reading
3.3 ft. on tide staff at St. Petersburg, Fla.
5.5 ft. below B. M. 4 (1925)

Height of mean high water above plane of reference is 1.4 feet.

Condition of records satisfactory except as noted below:

E. C. McKay
Section of Tides
Chief, Division of Tides and Currents.

U. S. GOVERNMENT PRINTING OFFICE 877033



7818
GULF OF MEXICO
APALACHEE BAY
ST. JAMES I.
Dog Island
Duer Chan
South Shoal
S W Cape
Peninsula Pt
Alligator Hbr.
Bald Pt.
Lighthouse Pt
Lanark
Turkey Pt
(chart 1261)
(chart 1260)
Rock Is
Fenholloway R.
Spring Warrior Cr.
Live Oak Pt.
Piney Pt.
Big Grass I.
Fishermans Rest
Dallus Cr.
DEADMAN BAY
Bird I.
Bowlegs Pt.
Pepperfish K.
30°00′
29°30′
29°00′
84°30′
84°00′
83°30′

NAUTICAL CHARTS BRANCH

SURVEY NO. H-7818

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
3/26/54	1261	H. Burgoyne	Before ~~After~~ Verification and Review
2-23-55	1114	J. H Eaton	Comp. app'd. ~~Before~~ After Verification and Review
6/28/55	1003	H. E. MacSween	~~Before~~ After Verification and Review Same chart 1114
1-21-59	1007	R. K. DeLawder	~~Before~~ After Verification and Review Same Chart 1003
6-3-59	1261	M. Rogers	Completely applied ~~Before~~ After Verification and Review. ✓ RKD
21 Apr 60	1259	Tuttle	~~Before~~ After Verification and Review Full.
6/17/63	1260	J. McMillan	~~Before~~ After Verification and Review Revised C&GS Chart applied soundings full application
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.