7633

Diag'd. on Diag. Ch. No.1115

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey

HY-4347

Field No. Office No. H-7633

LOCALITY

State

Florida

General locality

Gulf of Mexico
South of St. Andrew Bay Entrance
Locality

And Crooked Island

194 7

CHIEF OF PARTY

F.L.Peacock

LIBRARY & ARCHIVES

DATE

May 22, 1949

B-1870-1 (I)

7633

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-7633

Field No. HX-4347

State	FIORIDA
	GULF OF MEXICO Use for with an smooth wheat
Locality SOUTH	OF ST. ANDREW BAY ENTRANCE AND CROOKED ISLAND
Scale	1:40,000 Date of survey 21 July 1947-15 Sept. 194
	ed26 SEPTEMBER 1946
Vessel	SHTP HYDROGRAPHER
Chief of party	FRED. L. PEACOCK
Surveyed by	G.R. SHELTON, W.J. CHOVAN, J.D. THURMOND
Soundings taker	by fathometer, graphic recorder, hand-lead, wire
Fathograms sca	led byO_ EVANS
Fathograms che	cked by
Protracted by	r.E. Jones
Soundings penc	iled by r.E. Jones
Soundings in	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
REMARKS: Bocs	use of the small area and its location, it is recommended
that conside	ration be given to smooth plotting the work of this sheet
	HY-4147. H-7631 (See Processing Office Addendum)
inked by	. M. M. Rogero
Verified L	y M. M. Rogers
	· · · · · · · · · · · · · · · · · · ·

DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SURVEY FIELD NO. HY-4347

SOUTH OF ST. ANDREWS BAY, FLA.

SCALE 1:40,000 - 1947

Fred. L. Peacock, Chief of Party

Ship HYDROGRAPHER

SURVEYED BY: F.L. Peacock, E.B. Latham, G. R. Shelton, and J.D. Thurmond.

PROJECT: C.S. 328- Instructions dated 26 September 1946

SURVEY LIMITS AND DATES: This survey covers an area between the six and the twelve fathom curves Southeastward from the dredged channel entrance to St. Andrews Bay, Florida.

This Survey was started on 21 July 1947 and was completed on 15

September 1947.

SHEET JUNCTIONS: This survey joins on the NEW with survey No. HY-3247

and HY-31/Hos, on the south with survey No. HY-4147, and on the west with

H-6689, H-6694 and HY-2147.

(1940-47)

(1940-47)

VESSEL AND EQUIPMENT: The Ship HYDROGRAPHER was used on this survey. The ships turning radius varies between 50 and 100 meters, depending on wind conditions.

Soundings were taken with type 898-J depth recorder no. 105-S. The range of depth was from 32 to 34 feet.

TIDE AND CURRENT STATIONS: The portable gage located at the Army Pier, Grand Lagoon, St. Andrews Bay was used for the reduction of soundings. Tide gage No time or range corrections were applied to the observed tides. The location of the gage is: Latitude 30°08'0 and Longitude 85°43'.9. Plane of reference is MLW and is 1.5 feet above the zero of the staff and is Sheet 11.9 feet below B.M. No. 2.

No current stations were occupied.

SMOOTH SHEET: The smooth sheet is being sent to the Norfolk Processing Office for smooth plotting. Because of the small area involved, it is recommended that this sheet be combined with Field Sheet No. HY-4147.H-763((347) See Processing Office Addendum of pan 70. of the Review

CONTROL STATIONS: Shore objects were used for control of this survey, increased except for the two North-South lines at the Eastern limit where survey in a buoys were used. The positions of shore objects are given in a list attached to this report. See Descriptive Report for Sheet HY-4147 for the positions of buoys, a tabulation is also attached to this report.

SHORELINE AND TOPOGRAPHY: Offshore sheet. No Shoreline shown. (Review, par. 1)

SOUNDINGS: Soundings were taken with 808-J type depth recorder, using the foot scale. For corrections see Descriptive for Field Sheet No.HY-4147

CONTROL OF HYDROGRAPHY: Standard methods using three-point fixes on shore objects and buoys were used for control of sounding lines.

ADEQUACY OF SURVEY: This survey is considered adequate within the small area covered.

CROSSLINES: The percentage of crosslines run is 6%. The crossings appear to be in satisfactory agreement.

COMPARISONS WITH PRIOR SURVEYS AND CHARTS: To be made after smooth plot is completed. Review, par. 5 & 6

DANGERS AND SHOALS: No dangers or shoals were found in the area surveyed.

COAST PILOT INFORMATION: The ship anchored twice at the west end of the sounded area and three times in the central portion. The bottom is sandy and has good holding qualities.

No current observations were made, however, the principal current encountered was that due to wind action.

TABULATION OF APPLICABLE DATA: Same as Listed under Sheet No HY-4148 (H63631) (441) T&S and Fathometer corrections were forwarded 20 April 1948. Trecorded in Desc. Report of H-7631 (1947)

Respectfully Submitted

Frank G. Johnson, Comdr. USC&GS.

Respectfully Forwarded

George L. Anderson, Comdr. USC&GS

Chief of Party.

STATISTICS FOR HYDROGRAPHIC SHEET HY-4347

SHIP HYDROGRAPHER

PROJECT CS-328

							J
VOL.	DAY LETTER	DATE ?	S	OUNDINGS	NO. OF	POS.	STATUTE MILES OF SOUNDING LINE
1	Α -	July	21	CP	23		, 16.8
1	B⊬	July	31	CP	100		61.2
1	C '	Aug.	1	CP	31		16.8
2	C ·	Aug.	1	CP	35		15.2
2	D ·	Aug.	2	CP	171		80.8
3	Ē	Aug.	3	CP	154		80.8
4	F:	Sept.	14	CP	48		31.5
4	G⊬	Sept.	15	CP	128		66.1
5	G ∠	SEPT.	15	CP .	16		9.2
TOTA	LS				706	•	378.4
NUMBER OF SERIAL TEMPERATURES OBSERVATIONS							

H-7633(1347) LIST OF SURVEY BUOYS USED IN SURVEY, FIELD NO. HY-4347

STATION	LATITUDE AND LONGITUDE	SECONDS IN METERS
AZO	29° 431 85° 381	387.3 982.0
PIX	29° 581 85° 361	67.1 702.7
RIO	29° 55° 85° 36°	719.9 693.6
SHE /	29° 521 85° 361	1240.8 694.6
TOM	29° 50' 85° 36'	130.0 688.6
VEX	29° 471 85° 361	918.7 684.1
WAR	29° 441 85° 361	1590.0 677.8
YAM	29° 421 85° 361	607.4 688.2
Z00 /	29° 391 85° 361	1555.8 704.1

For Method of location see "Report to Accompany Buoy Traverse Adjustments", Dated 9 October 1947. CS-328

TIDAL NOTE H-7633 (1947)

(not shown on smooth sheet)

The portable tide gage located at the Army Pier, Grand Lagoon, St. Andrews Bay, Florida was used for the reduction of all soundings. No time or range corrections were applied to the observed tides. The location of the gage is: Lat. 30 08.0 North and Long. 85 43.9 West. The plane of Mean Low Water is 1.5 feet above the zero of the tide staff and is 11.9 ft. below B.M. No. 2.

TRIANGULATION AND TOPOGRAPHIC STATIONS USED

VJAB	∠ EAR	(ydro) ANY	TAIL	JIS,	ROOK	TOE	POT	TAN	SAM	ARM	HUR	> NAME
29-59	29-52	30-02	30-08	30-10	29-58	29-49	30-04	30-04	30-03	30-06	30-04	LATITUDE
1212.5~ (635.0)	466.9 (1380.5)	216.2 ^v (1 6 31.3)	989.2 · (858.3)	158.85 (1688.7)	1600.0 (247.5)	302.2 (1545.2)	1049.5 (798.0)	636.1 (1211.4)	1806.4	1346.0 (501.5)	1507.5	MC B
85-32	85-23	85-34	85-37	6 85-41	85-31	85-18	85-37	85-35	85-35	85-43	85-39	LONGITUDE
478.5 (1129.9)	871.7 (738.6)	720.2' (887.4)	443.9 / (1162.1)	939.2' (666.2)	130.7 (1478.0)	1204.0 (406.0)	638.1 (969.0)	1461.1 (145.9)	320.4 (1286.9)	311.0 (1295.2)	333.0 (1273.0)	B DP
Geographic Positions, Revised 11/5/42 Page 634 Jed, 1935 (d.m.) (Cots recorded in Vol. 2, Pgs. 35 \$57)	Geographic Positions, Revised 11/5/42 Page 634 St. Joseph Point -3 1934 (d.m.) St. Joseph Point, Rear Range Beacon, 1935	Geographic Positions Revised 11/5/12 Page 634 (recorded on 1933.21,3431, 161.2) Andy, 1935 (d.m.) A Andy notused, object nearby cut in from Ship	Geographic Positions Revised 11/5/42 Page 100 (Millville, Taller Concrete Stack 1934 (n.d.)	Geographic Positions Revised 11/5/42 Page 99 St. Andrews, Municipal Tank 1934 (N.d.)	Scaled from Topographic Sheet Field No. E-1947 (T-7011 a, 1947)	Air Photo Compilation No. T-5586 (Stack at St. Joe Paper Mill)	Established 1930 by R.D. Horne "Rear Bar Range", #335, Page 15 (Descriptive Report HY-1146)	Topographic Sheet Registry No. T-5517, (Descriptive Report HY-2447)	Topographic Sheet Registry No. T-5517, (Descriptive Report HY-2447)	Topographic Sheet Field No. HY-C-1947 (Descriptive Report HY-2447)	Topographic Sheet HY-D-1947 (Descriptive Report HY-2447)	FROM

APPROVAL SHEET

H-7633(1947)
FIELD SHEET NO. HY-4347

This survey was made in 1947 under the supervision of Fred. L. Peacock Chief of Party. After due consideration, it is recommended that the work on this sheet be added to the smooth sheet covering field survey No. HY-4147. H-763! (1947) (See Processing Office Addendum)

The boat sheet and sounding records have been examined and are approved.

George L. Anderson, Comdr. USC&GS. Chief of Party. 3 December 1948.

Memo. to Lt. Comidi. Anderson:

The attached instrumental corrections sheets for the 1055 should be used instead of the ones attached to Vols. 1, Surveys HY-4147 & HY-4247. Additional information came to light after the original instrumental corrections were entered.

In addition, the 1035 correction for 30 May should be -2.5 ft. for the C'scale & -7.5 ft. for the D'scale.

V. H. Marlin

Instrumental Corrections

8085 # 1055
Foot Scales

Vols.1-5 HY-4347

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DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7633

FIELD NO. HY-4347

Florida, Gulf of Mexico, South of St. Andrew Bay Surveyed in July - Sept., 1947 Scale 1:40,000 Project No. CS-328

Soundings:

Control:

808 Fathometer

Sextant fixes on shore signals and buoy signals

Chief of Party - F. L. Peacock
Surveyed by - G. R. Shelton, W. J. Chovan, J. D.
Thurmond
Protracted by - P. E. Jones
Soundings plotted by - P. E. Jones
Verified and inked by - M. M. Rogers
Reviewed by - T. A. Dinsmore, July 21, 1949
Inspected by - R. H. Carstens

1. Shoreline and Signals

The shoreline originates with air photographic surveys T-5516, T-5517 and T-5520 (1935), supplemented by revisions to these sheets shown on Bps. 41519, 41647 and 41643 (1946).

The origin of the signals is adequately covered 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 bottom is relatively smooth and of moderate slope. Depths range from 30 to 74 feet.

4. Junctions with Contemporary Surveys

Adequate junctions were effected with the following surveys:

H-7631 (1947) on the south H-6689 (1941) on the west H-6694 (1941-47) on the northwest H-7173 (1946-47) on the north

Project surveys on the northeast and southeast are not yet accomplished.

5. Comparison with Prior Surveys

These prior surveys cover the area of the present survey. Several bottom changes have taken place during the 65-90 years intervening between the prior and present surveys. In the vicinity of lat. 30° 03.25', long. 85° 40.60', prior depths of 67 and 69 feet (chart 489) are now superseded by depths of 60 feet. The shoaling here has moved the 60-ft. depth curve about 400 meters seaward.

Major shoaling is indicated in the vicinity of lat. 30° 02.05', long. 85° 38.05', where a well-supported least depth of 36 feet on the present survey falls between depths of 50-60 feet on the prior surveys.

The 34-ft. sounding (Chart 1263) in lat. 29° 54.77', long. 85° 31.35', originating with H-1265a, falls in present depths of 44 feet. In this vicinity, other prior soundings of 37-39 feet fall in present depths of 42-43 feet. Close development on the present survey clearly indicates that this area has deepened from 3 to 10 feet since the prior survey of 1875. The prior soundings therefore should be disregarded.

Except for the bottom changes described above no other important differences were noted between prior and present depths.

A few bottom characteristics have been carried forward from the prior surveys. With these additions, the present survey supersedes the prior surveys.

6. Comparison with Chart 489 (Latest print date 6/9/47) Chart 1263 (Latest print date 9/13/48)

A. Hydrography

Charted hydrography is sparse and originates with the previously discussed surveys which need no fur-

H-7633 (1947)-3-

ther consideration. The charted soundings are superseded by the present survey.

B. Aids to Navigation

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

7. Condition of Survey

- a. The sounding records and Descriptive Report are complete.
- b. The smooth plotting was well done.
- c. Two lines of soundings (1-20a and 5-17c, green) which originate with the present survey are plotted along the eastern limits of H-7631(1947).

8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

9. Additional Field Work

This is a basic survey and no additional field work is required.

Examined and approved:

H. R. Edmonston Chief, Nautical Chart Branch

Chief, Section of Hydrography

Chief, Division of Coastal Surveys

Casper M. Durgin

Chief, Division of Charts

LIST OF SIGNALS

for

HYDROGRAPHIC SURVEY H-7633 (1447) Field No. Hy-4347

TRIANGULATION STATIONS

SIL - St. Andrews Municipal Tank, 1934

TAIL - Millville Southern Craft Corp. Talle Concrete Stack, 1934

POT - Rear Bar Range, 1930-35

JAB - Jed, 1935 (Two cuts recorded in Sdg. Vol. 2, Pgs. 35. \$57)

EAR - St. Joseph Point, Rear Range Beacon, 1935

JŒ

ROOK

TOPOGRAPHIC STATIONS Source: Scaled positions in Descriptive Report.

HUR SAM

ARM

TAN

HYDROGRAPHIC STATIONS

ANY - Cuts indexed in sounding vols. (Vol. 2, pgs. 21; 34 & 39)

SURVEY BUOYS Source: Report to accompany buoy traverse adjustments.

AZO RIO TOM WAR ZOO

PIX SHE VEX YAM

ADDENDUM

To Accompany

HYDROGRAPHIC SURVEY H-7633 (Field No. Hy-4347)

The recommendation of the Officer-in-Charge to plot this work on H-7631 was not followed as some of the hydrography and most of the control fell off the limits of that sheet.

Control

Contrary to the Descriptive Report, signal ANY was not triangulation station Andy, 1935. This signal was plotted from cuts found in the sounding vols. (Vol. 2, pgs. 21, 34 & 39)

Comparison with Chart

There is a general agreement with charted soundings with the following exceptions:

Chart 489 -

Lat. 30°-03.2' Long. 85°-40.45' - Charted 67' sounding falls in 60' soundings.

Lat. 30°-03.3' Long. 85°-40.7' - Charted 69' sounding falls in 60' sounding.

Lat. 30°-02.0' Long. 85°-38.0' - Attention is directed to an area shoaling to 361 falling in a charted depth of over 501. Review, par. 5

Chart 1263

Lat. 29°-54.7' Long. 85°-31.4' - Development in this area failed to show a charted 34' sounding falling in 44' of water.

Respectfully submitted,

Hugh L. Proffitt Cartographer

Norfolk, Virginia March 9, 1949

Approved and forwarded.

Earl O. Heaton

Supervisor, S.E. Dist.

GEOGRAPHIC NAMES Survey No. 1176	33 -	Chart Of	The or	D D	or local stor	Or loca Mot	2 O Guide of	Mad Herall	J.S. Light	<i>š</i> /
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Gulf of Mexico										2
St. Andrew Bay									USGB	3
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Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. 11.26.33

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Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. June 1937

TIDE NOTE FOR HYDROGRAPHIC SHEET

12 April 1949

Division-of-Hydrography-and-Topography+

Division of Charts: R. H. Carstens

Plane of reference approved in 5 volumes of sounding records for

HYDROGRAPHIC SHEET 7633

Locality St. Andrews Bay, Florida

Chief of Party: F. L. Peacock in 1947
Plane of reference is mean low water, reading
1.5 ft. on tide staff at Army Pier, Grand Lagoon, St. Andrew Bay
11.9 ft. below B. M. 2 (1947)

Height of mean high water above plane of reference is 1.3 feet.

Condition of records satisfactory except as noted below:

E.C.Mc/Kay

Section
Chief, Division of Tides and Currents.

U. S. GOVERNMENT PRINTING OFFICE 75667

NAUTICAL CHARTS BRANCH

survey no. 117633

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
9-9-49	1263	yn eglasson	Before After Verification and Review Control
10-31-49	489	Mylasson	Before After Verification and Review Completely Oppid.
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A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.