# 6694

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Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

# DESCRIPTIVE REPORT

Field No. H-2147 Office No. H-6694

LOCALITY

State Florida

General locality Gulf of Mexico

Locality St. Andrew Bay to Grayton Beach

1941-1947

CHIEF OF PARTY

W.M.Scaife and F.L.Peacock

LIBRARY & ARCHIVES

DATE

B-1870-1 (I

# 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.

Field No. 2441 /	· 	H6694
REGISTER NO.	H-6694	

State FLORIDA General locality Gulf of Mexico - Florida Coast Locality St. Andrews Bay to Grayton Beach Scale 1:20,000 Date of survey Aug.-Sept. , 19.41 Vessel Launches FARIS & HIGGINS Chief of Party \_\_\_\_\_\_\_ Scaife Surveyed by Ship's Officers Protracted by L. J. Walter Soundings penciled by L. J. Walter Soundings in fathoms: feet \_\_\_\_\_ Subdivision of wire dragged areas by \_\_\_\_\_ Inked by \_\_\_\_\_ Verified by ..... Instructions dated June 24 and October 13, 1939, 19 Remarks: This sheet was processed at the Norfolk Processing.

U. S. GOVERNMENT PRINTING OFFICE

#### DESCRIPTIVE REPORT

to accompany

SHEET NO. H-6694

This report covers only the 1941 work. See back part of Desc. Report for report covering the 1947 work

This is one of a series of hydrographic sheets which were sent to this office by the Pensacola Processing Office for processing. Since no descriptive report was written by the field party or the Pensacola Processing Office, the following report is written in lieu of same.

#### INSTRUCTIONS:

This survey was executed under authority of the Director's Instructions for Project HT-236, dated June 24, 1939, and Supplemental Instructions, dated October 13, 1939.

#### LOCALITY:

This is an inshore survey along the coast of Florida and lies approximately from a point south of St. Andrews Bay and Grayton Beach. It extends approximately 1/2 to 1 1/2 miles offshore, and lies between Longitude 85° 41' and Longitude 86° 11'.

#### CONTROL & SIGNALS:

Triangulation previously established furnished the primary control. The secondary control consisted of topographic signals which were gotten from a tracing furnished this office by the Pensacola Processing Office. (from T-6857346 (1941)

#### SURVEY METHODS:

The usual visual method of three-point fixes was used throughout this survey. The soundings were obtained by the 808 type Submarine Signal Corporation Fathometer.

#### SMCOTH PLOTTING:

The sounding records show no entries for barchecks or initial last ficient bar settings. No barcheck corrections were therefore made in the sounding records. The initial setting shown on the fathometer at the beginning of each day was taken to be correct, and corrections were made for any variation from the original setting. Corrections to soundings were also made for fathometer speed variations.

(sandridges)
Attention is directed to shoals appearing near the shoreline.

No bottom characteristics are shown on this sheet, as none were recorded in the sounding records.

#### DISCREPANCIES:

The crossings in some portions of this survey show discrepancies Corrections of 2 to 3 feet, which may be due to the fact that no barcheck applied from corrections were made, or slight displacement of sounding lines. 1947 work

#### DANGERS:

No dangers or wrecks appear on this survey.

#### CHANNELS:

The channel to St. Andrews Bay which runs across the peninsula | Review, par. 6 B. south of Alligator Roint was developed on this survey. It has an effective depth of 2% ft.

#### JUNCTIONS WITH CONTEMPORARY SURVEYS:

This survey joins H-6693 on the west and H-6689 on the south.

Respectfully submitted,

Isadore M. Zeskind

Associate Cartographic Engr.

January 13, 1943 Norfolk Processing Office

Approved and forwarded.

Paul C. Whitney

Supervisor, Southeastern District

STATISTICS

## SHEET H-6694

Date	Day Letter	Vol. No.	Positions	Stat. Miles
Aug.14, 41 " 26, " " 27, " " 28, " " 29, " Sept.6, 41 " 7, " " 9, " " 10, " Aug.12, " " 12, " " 12, " " 22, " " 23, " " 24, " " 25, " " 26, " " 27, " " 28, " " 29, " " 30, " Sept.6, " " 7, " " 8, " " 9, " Aug.21, " " 24, "	A-Red B- # C- " D- " E- " F- " G- " A-Red B- " A- (Green) b- " A- Red B- " C'- " D'- " E'- " C'- " K'- " K'- " L'- " M'- " Q'- (Green b'- "	1 1 1 1 1 1 1 1 2 2 3 3 4 4 4 4 4 4 4 4 4 5 5 5 5 5 5 6 7 7 7 7 7 7 8 8 8 8 8 7 7 7 7 8 8 8 8	24 75 66 58 70 25 73 56 45 43 49 18 26 31 110 48 44 63 50 109 22 40 44 47 115 51 49 82	13.5 38.3 32.5 28.8 35.2 18.1 36.0 26.6 21.6 17.8 18.0 8.0 13.9 8.6 39.7 12.6 21.4 40.0 12.2 8.3 26.1 20.1 56.7 25.6 13.5 18.8
	Total		1533	646.7

## LIST OF SIGNALS

<u>Triangulation</u> <u>To</u>	pographic
Bob, 1935 Grand, 1935 Landsend 2, 1935 Long, 1935 Philips Inlet Tank, 1935	Pat (3) Pav Pex Ply Pot
Ridge, 1935 Salt, 1935 Sand, 1935 Tom, 1935 Weiley 2, 1934	Pup (2) Rat Ret Rig Row
Wye, 1935 Rod, 1935) (Low)	Rub (3) Rut San Sig
Topographic	Sil (2) So
Ack Ike Amy Ill Ant It Art Jon Big Joy Bot Kit (2) Boy Lag (3) Cap Las (2) Coo Led Cot Lig Dan Lok Eat Low (2) Eel Lot Egg Ma End Man (2) Fan Mas Fie Mig Fix Mic Fry Mul Gab Nak Gal Nat Get Ned Gus Net Hen New Het No (2) Her Not Him Oil (2) Hog Old	Sol Sot Sta Sty Sum Tag Tan Tar Tim Tin Ton (2) Top Upe (2) Vet (2) Vit War Wat Win Win Yon

# Surveys Section (Chart Division)

# hydrographic survey no. 16694

Records accompanying survey:				
Boat sheets .a; sounding vols	.7 ; w	ire drag	vols. 9;	
bomb vols 9.; graphic recorder	rolls	4.4 9 add	l vol. which contain	
special reports, etc work for	<b>.bo</b> th.66	669 <b>3. 4.</b> 49	• • • • • • • • • • •	
	· • • • • • • • • • • • • • • • • • • •	• • • • • •	• • • • • • • • • • •	
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Number of positions checked		• • • •		
Number of positions revised		• • • •		
Number of soundings recorded		• • • •		
Number of soundings revised (refers to depth only)		• • • •		
Number of soundings erroneous spaced	sly	• • • •		,
Number of signals erroneously plotted or transferred		• • • •		
Topographic details	Time	• • • •	See sheet f	) 0 r
Junctions	Time	• • • • •	1947 WORK	
Verification of soundings from graphic record	Time	••••		•
Verification by	time	••••	Date	
Review by	Time	• • • •	Date	

### TIDE NOTE FOR HYDROGRAPHIC SHEET

\_Division of Hydrography- and Topography:

Division of Charts: Attention: Mr. H. R. Edmonston.

Tide Reducers are approved in 7 volumes of sounding records for

HYDROGRAPHIC SHEET 6694

Locality St. Andrew Bay to Grayton Beach, Gulf of Mexico

Chief of Party: Wm. Scaife in 1941
Plane of reference is mean low water reading
3.7 ft. on tide staff at St. Andrew Bay Entrance, Staff No. 2
5.9 ft. below B.M. 1

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

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

2 K Men

U. S. GOVERNMENT PRINTING OFFICE

FORM M-238

# MEMORANDUM IMMEDIATE ATTENTION

$$\begin{array}{c} \text{SURVEY} \\ \text{DESCRIPTIVE REPORT} \\ \text{PHOTOSTAT OF} \end{array} \begin{array}{c} \text{No. H} \\ \text{No. T} \end{array} \qquad \begin{array}{c} \text{No. H} \\ \text{No. T} \end{array} \qquad \begin{array}{c} \text{received } \textbf{Jan. 19, 1943} \\ \text{registered } \textbf{Jan. 19, 1943} \\ \text{verified } \\ \text{reviewed approved} \end{array}$$

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
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90			

RETURN TO

82 R.W.Knox

Pull

Form 587 Ed. Dec. 1930

#### 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.

Field No. \_\_HY\_2147

#### REGISTER NO.

StateFlorida
General locality Gulf Coast
Locality Saint Andrew Bay East Entrance, Westward
Scale 1:20,000 Date of survey 11 March-April 25947
Vessel Ship HYDROGRAPHER
Chief of Party Fred. L. Peacock
Surveyed by E.B. Latham, G.R. Shelton and W.J. Chovan
Protracted by R.C. Richard
Soundings penciled by R.C. Richard
Soundings in fathoms feetFeet
Plane of referenceMIW
Subdivision of wire dragged areas by
Inked by G.S. Hilliard
Verified by G.S. Hilliard
Instructions dated 26 September , 19 46
Remarks:

U. S. GOVERNMENT PRINTING OFFICE

#### DESCRIPTIVE REPORT TO ACCOMPANY

SURVEY H-6694 ADDITIONAL WORK 1947. . . . . . . FIELD NO. HY-2147 St. Andrew Bay East Entrance, Westward.

Fred. L. Peacock, Chief of Party-----Ship HYDROGRAPHER

Surveyed by : E. B. Latham

G. R. Shelton

W. J. Chovan

Scale

1:20,000

#### PROJECT:

C.S. 328, dated 26 September 1946.

#### SURVEY LIMITS AND DATES:

The limits of this survey correspond to the limits of survey H-6694, scale 1:20,000, 1942 with cross lines overlapping survey H-6689, scale 1:40,000, 1942. This survey began on 11 March and ended on 25 April 1947.

#### VESSELS AND EQUIPMENT:

The Ship HYDROGRAPHER'S launches, CS-115 and CS-117 were used on this survey. The launches operated from the ship. Soundings were taken with 808 depth recorders Nos. 101-S and 105-S with the fish mounted alongside the keel of each launch. The range of depth was from 6 to 65 feet.

#### TIDE STATIONS:

Data from the tide station at Beacon Beach, Saint Andrew Bay, were used for reducing sounding taken on 11 March. For the remainder of the survey tide station at Army Pier, Grand Lagoon, St. Andrew Bay was used.

#### **CONTROL STATIONS:**

The basic control was an arc of second order triangulation executed by G. L. Anderson, Chief of Party, in 1935. Supplemental points were located by graphic control executed on aluminum sheets, scale

1:20,000. Control stations YEL and FAR were located by tape traverse and sextant angles from a near-by triangulation station. SAND, 1935. The traverse records have not been found; signals located from boat sheet positions.

SHORELINE AND TOPOGRAPHY: FAR & YEL are about 200 m. and 435 m., respectively, from \$SAND.

The shoreline and topographic details of the area of this sur-T-5524, T+5525 & T-5526

vey were located by Survey Nos. T-552D, T-552l and T-5523, which were

made from air photographs flown in 1934. Tide Gage at Army pier located

from Air Photo. Correction Sheet No. 328

SCUNDINGS:

The soundings were taken with 808 depth recorders on the foot scale. Bar checks were taken at 10-foot intervals throughout the depth range of this survey. Two to three bar checks were taken each day of sounding. These bar checks were used to determine the combined instrumental and velocity corrections to be applied to the soundings. Settlement and squat corrections were determined by the "First Mathod" as described in the Hydrographic Manual, paragraph 553 page 514.

#### CONTROL OF HYDROGRAPHY:

The Hydrography executed during this survey was controlled by three-point fixes on shore objects.

COMPARISON WITH PRIOR SURVEYS: the 1941 work of the present survey.

This survey was made to determine, if possible, corrections to be applied to the 1942 launch survey in the area covered by Survey H-6694. Numerous lines were run crossing the 1942 lines at an angle of about 45 degrees. These lines were extended into the area of the 1942 ship hydrography, Survey H-6689, scale 1:40,000. The soundings were corrected for tide, velocity and instrumental corrections, and

11.

settlement and squat. These corrected soundings were plotted on a redl ine print of the smooth sheet of the 1942 survey. ship soundings were transferred to this print. Comparison between the 1947 launch soundings and the 1942 ship soundings indicate that the ship soundings are correct and need no further corrections. 1942 and 1947 depths at each crossing were listed, starting at the west end of this survey and extending to the east end. depths were subtracted from the 1947 depths and the resulting differences were plotted on cross-section paper, using the differences as abscissas and the 1942 depths as ordinates. A study of the re-Graph revised in sulting graph indicates the following corrections should be applied Wash, Office See note to the 1942 launch soundings to bring them into agreement with the below 1942 ship sounding on Survey H-6689 and the 1947 launch soundings:

Zero correction to 12 feet,

Plus 1 foot to 35 feet,

Plus 2 feet to 38 feet,

Plus 3 feet to 60 feet.

These corrections not used.

Corrections applied are from a graph which furnishes separate corrections for each sounding day. Graph is filed with the sounding records of H-6693(1941-47)

An abstract of the corrections applied appears on the following

Respectfully submitted,

page (IIa).

George R. Shelton, Lieut. Commander, C. & G. Survey

Respectfully forwarded:

Fred. L. Peacock, Captain, C.& G.S., Chief of Party.

CROSSING CORRECTIONS(FEET)
(applied to 1941 soundings from the 1947 soundings)

Sounding	Days Dates	Correction	Range of Depths
A† B†	8/12/41 8/14/41	0 1 2	0 - 30 30 - 50 50 - deepest
C*	8/22/41	0 1 2	0 - 35 35 - 50 50 - deepest
D,	8/23/41	0 1 2	0 - 20 20 - 45 45 - deepest
E' F' G'	8/24/41 8/25/41 8/26/41	0 1 2	0 - 25 25 - 50 50 - deepest
н•	8/27/41	0 1 2	0 - 24 24 - 32 32 - deepest
J'	8/28/41	0 1 2	0 - 20 20 - 29 29 - deepest
K,	8/29/41	0, 1 2	0 - 20 20 - 37 37 - deepest
M *	9/6/41	0 1 2	0 - 20 20 - 26 26 - deepest
N,	9/7/41	0 1 2	0 - 20 20 - 55 55 - deepest
P'	9/8/41	0 1 2 3	0 - 32 32 - 43 43 - 55 55 - deepest
G H Q	9/9/41	0 1 2 3	0 - 33 33 - 44 44 - 51 51 - deepest

#### TIDE NOTE

Tide data from the auto-portable tide gage at Beacon Beach, Saint Andrew Bay, Latitude 30°06'.2 N, Longitude 85°40'.2 W., were used for reducing the soundings taken on 11 March 1947. Mean low water on the staff was 1.75 feet above zero of the staff.

The data from the auto-portable gage at Army Pier, Grand Lagoon, Saint Andrew Bay, Latitude 30°08'.0 N. Longitude 85°43. 9 W.
were used in reducing the sounding on the remainder of this survey. A value of 1.7 feet was used for mean low water on the staff.

13

## STATISTICS TO ACCOMPANY

## HYDROGRAPHIC SURVEY H - 6694

ADDITIONAL WORK 1947

FIELD NO. HY-2147

VESSEL	DATE	DAY	AOT	POS	STATUTE MILES SCUNDING LINE
CS-115	11 March	<b>a</b>	1	77	16.8
CS-115	10 April	ъ	1	<b>7</b> 5	18.9
CS-115	12 April	C	1&3	175	40•3
CS-115	25 April	đ.	3&4	161	44.0
CS-117	10 April	a	2	49	14.1
CS-117	25 April	ъ	2	106	23.8
	TOTALS	, , , , , , , , , , , , , , , , , , ,		643	157.9
	TOTALO	(:	·		

DATA TO ACCOMPANY

SURVEY H-6694 ADDITIONAL WORK 1947. . . . . FIELD NO. HY-2147

Depth at Crossings in Feet

59       63       4       49       52       3       46       50       4         59       62       3       46       47       1       47       53       6         56       62       6       42       42       0       52       56       4         54       58       4       35       35       35       0       52       57       5         52       56       4       26       28       2       51       55       4         52       56       4       26       28       2       51       55       4         53       56       3       13       30       5       43       47       4         56       60       4       33       36       3       50       54       4         57       60       3       46       49       3       53       56       3         57       60       3       3       45       48       3       50       54       4         59       62       3       45       48       3       50       55       55       55       55       55 </th <th>1948</th> <th>1947</th> <th>Dif.</th> <th>*1948</th> <th>1947</th> <th>Dif.</th> <th>1942</th> <th>1947</th> <th>Dif.</th> <th>٠</th> <th></th>	1948	1947	Dif.	*1948	1947	Dif.	1942	1947	Dif.	٠	
52     56     4     24     18     18     10     42     44     47     1       50     53     57     5     12     18     12     0     42     44     47     45       52     56     4     30     31     1     42     45     43       52     56     4     38     39     1     45     48       53     58     5     40     40     40     47     48     50       54     58     5     40     40     42     48     51     50     51       54     52     4     41     43     42     49     55     53     56       57     2     44     45     1     48     53     56     53     56       57     57     60     45     51     6     53     56     56     57       56     61     5     50     51     2     55     59     4       55     58     3     46     48     2     55     59     4	59 55 55 55 55 55 55 55 55 55 55 55 55 5	62 8 6 6 7 0 0 0 1 2 3 6 3 1 2 2 3 1 1 7 3 7 1 3 4 6 5 1 1 3 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	36443343333452894341203355634424254	49 46 23 56 3 25 3 46 39 55 15 35 55 56 56 56 57 56 60 60 60 60 60 60 60 60 60 60 60 60 60	47 42 57 57 57 57 57 57 57 57 57 57 57 57 57	2153363200015434346112443352000	47 52 51 50 50 50 50 50 50 50 50 50 50 50 50 50	536750746554355540515151999887803959447558	454044334455333334443333342416322		

DATA TO ACCOMPANY

SURVEY H-6694 ADDITIONAL WORK 1947. . . . . FIELD NO. HY-2147

Depth at Crossings in Feet

1942 1947 Dif. 1942 1947 Dif. 1942 1947 Dif.	
52     57     5     48     50     2     52     56     4       49     53     4     50     52     3     55     59     3       449     53     4     50     53     55     59     3     3       43     46     3     53     55     2     56     59     3     3       43     46     3     43     53     55     2     56     59     3     3     51     55     59     3     3     56     59     3     3     3     51     55     59     3     3     51     55     59     3     3     51     55     59     3     3     51     55     59     3     3     51     55     59     3     3     51     55     59     3     3     51     55     59     3     3     51     55     59     3     3     51     55     59     3     3     44     48     49     44     48     49     44     48     49     44     49     44     49     44     49     44     44     49     44     44     44     49     44	

DATA TO ACCOMPANY

SURVEY H-6694 ADDITIONAL WORK 1947. . . . . FIELD NO. HY-2147

Depths at Crossings in Feet

1943	1947	Dif.	1948	1947	Dif.	194%	1947	Dif.
52 54 54 54 54 54 54 54 55 55 55 55 55 55	57 57 1 57 8 43 9 43 44 44 85 54 65 85 85 95 85 75 65 34 94 44 37 85 85 95 85 75 65 34 94 44 37 85 85 85 85 85 85 85 85 85 85 85 85 85	531252310514245342444872353322101224221133322	37 37 38 43 44 44 45 55 56 55 48 48 48 48 48 48 48 48 48 48 48 48 48	3989444444444495555555555555544444444444	211222231444522662253111004353243244210010124	29 33 31 31 32 33 34 36 30 30 31 31 32 32 33 34 36 36 36 36 36 36 36 36 37 38 38 38 38 38 38 38 38 38 38 38 38 38	30 34 32 33 34 35 36 6 18 5 28 29 31 32 33 36 04 24 36 37 50 50 51 47 51 52 7 45 49 04 18 6 02 52 8 30 30 18 52 8 53 8 64 64 64 65 8 65 8 65 8 65 8 65 8 65	121122113053331112002224223122034012023011211

DATA TO ACCOMPANY

SURVEY H-6694 ADDITIONAL WORK 1947. . . . . FIELD NO. HY-2147

Depth at Crossings in Feet

	1947	Dif.	1948	1947	Dif.	
39 43 27 30 30 31 32 33 33 33 33 32 33 33 33 34 41 37 38 36 34 32 30 30 30 31 31 31 31 31 31 31 31 31 31 31 31 31	42 41 40 12 28 28 30 30 33 33 33 33 33 33 33 33 33 33 33	31201122110111112231244211111130114211220121	31 32 37 37 38 44 18 37 36 38 88 39 44 14 39 88 88 49 44 49 38 88 39 44 44 44 44 44 44 44 44 44 44 44 44 44	32 33 38 44 44 49 88 88 99 04 24 64 24 04 04 14 34 64 34 24 14 14 24 47 74 54 65	12013253222123553223343333343345	
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## Hydrographic Surveys (Chart Division)

# HYDROGRAPHIC SURVEY NO. H-6694, Ad. Wk. 1947

## Records accompanying survey:

Boat sheets .2...; sounding vols. 4....; wire drag vols. .0...; bomb vols. .0...; graphic recorder rolls .6...; special reports, etc. 2 Red line prints of Survey H-6694.Ad. W. in. two parts

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

Number of positions on sheet	•••••
Number of positions checked	337
Number of positions revised	.24.
Number of soundings revised (refers to depth only)	49
Number of soundings erroneously spaced	667
Number of signels erroneously plotted or transferred	
Topographic details	Time lb hrs.
Junctions	Time .5.0.
Verification of soundings from graphic record  ECRICATION  Verification by S.S. HILLIARD Total time	Time 33 thrs.  5/ 9757 for Boundings
Verification by G. S. HILLIARD Total time	400 hrs Date JAN. 3, 149
Reviewed by ADimomore Time	

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#### TIDE NOTE FOR HYDROGRAPHIC SHEET

#### 

November 12, 1947

Division of Charts: H. W. MURRAY

Plane of reference approved in 4 volumes of sounding records for

HYDROGRAPHIC SHEET 6694 (Additional work)

Locality - St. Andrew Bay, Gulf Coast, Florida

Chief of Party: F. L. Peacock in 1947
Plane of reference is mean low water, reading

1.6 ft. on tide staff at Beacon Beach

17.5 ft. below B. M. 3 (1930)

1.5 ft. on tide staff at Army Pier, Grand Lagoon

4.0 ft. below B. M. 1 (1947)

Height of mean high water above plane of reference is 0.9 foot.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

U. S. SOVERNEENT PRINTING OFFICE 154327

#### DIVISION OF CHARTS

#### REVIEW SECTION - NAUTICAL CHART BRANCH

#### REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-6694

FIELD NO. 2241 & HY-2147

Florida, Gulf of Mexico, St. Andrew Bay to Grayton Beach Surveyed in August-September 1941, Scale 1:20,000 March-April 1947 Project Nos. HT-236 & CS-328

Soundings:

Control:

808 Fathometer

Sextant fixes on shore signals

Chief of Party - W. M. Scaife, F. L. Peacock
Surveyed by - J. C. Tribble, W. B. Page, E. B. Latham,
- G. R. Shelton, and W. J. Chovan
Protracted by - L. J. Walter, R. C. Richard
Soundings plotted by - L. J. Walter, R. C. Richard
Verified and inked by G. S. Hilliard
Reviewed by - T. A. Dinsmore - January 27, 1949
Inspected by - R. H. Carstens

#### 1. Shoreline and Signals

The shoreline originates with air photographic surveys T-5520, T-5521, T-5523, T-5524, T-5525 and T-5526(1934-35).

The signals are from graphic control surveys T-6857 a & b (1941), T-7055, T-7057 and T-7069 (1947). The fixes for hydrographic signal UM are recorded in the sounding records of the present survey.

### 2. Sounding Line Crossings

Depths at crossings are generally in good agreement. Differences of 2-3 feet in depths of 50-60 feet occur in a few places. Such differences are attributed to slight inaccuracies in the corrections applied to the soundings of the 1941 work. The method of determining these corrections is explained fully on pages 10 and 11 of the Descriptive Report and the range of the corrections is included therein.

#### 3. Depth Curves and Bottom Configuration

Except for delineation of the low-water line, the depth curves are complete. It was impracticable for the hydrographer to determine the low-water line because of its proximity to the shoreline and the low range of tide (1.3 ft.)

Sand ridges and troughs occur throughout most of the inshore area. Except for the undulations caused by these features, the bottom is smooth and slopes rather abruptly from the high-water line to depths of 30 feet. Minor bottom irregularities are noted in depths of 60 feet.

#### 4. Junctions with Contemporary Surveys

Adequate junctions were effected with H-5783 (1935) in the entrance to St. Andrew Bay and with offshore survey H-6689 (1941) on the south.

The junctions with H-6693 (1941-47) on the northwest and H-7173 (1947) on the southeast will be considered in the reviews of those surveys.

#### 5. Comparison with Prior Surveys

### a. H-514(1855) 1:20,000 H-1373a & b (1877) 1:40,000

These early reconnaissance surveys show sounding lines spaced about one and one-half miles apart, running normal to the shoreline and terminating in inshore depths of about 16 feet. The meager comparison afforded between the prior and present soundings shows no appreciable change of bottom in offshore depths. Several inshore changes, however are noted, the most important of which results from the dredged channel in lat. 30°07', long. 85°44', which did not exist at the time of the prior surveys.

## b. H-5024(1930) 1:10,000 H-5783(1935) 1:10,000

H-5024 overlaps a small portion of the present survey at the extreme southeast. The most noticeable differences between prior and present depths occur in lat. 30°05.35', long. 85°41.33', and lat. 30°05.12', long. 85°40.81', where prior depths of 14 feet and 11 feet, respectively, are now superseded by depths of 11 feet and 7 feet.

H-5783 covers the approaches and entrance to St. Andrew dredged channel. A comparison of prior and present depths reveals some bottom changes. The 30-ft. depth curve delineating the ridges which flank the channel entrance now protrudes about 400 meters farther offshore. In the vicinity of the two entrance buoys, prior depths of 37 feet are now superseded by depths of 30 feet. Considerable shoaling has occurred over the area southward and southeastward of the channel entrance where prior depths of 30 to 39 feet are now superseded by depths of 28 to 33 feet. Only minor differences of 1 - 2 ft. are noted between prior and present depths northwestward of the channel.

Except for bottom characteristics which have been carried forward, the present survey is adequate to supersede the prior surveys within the common area.

# 6. Comparison with Chart 489 (Latest print date 6/9/47) 869 (" " 9/8/47) 1263 (" " 9/13/48) 1264 (" " 9/15/47)

#### A. Hydrography

Charted hydrography originates principally with the present survey prior to verification and review. Most of the smooth sheet soundings have been revised during verification and therefore supersede the charted depths.

A few soundings are charted in the vicinity of St. Andrew dredged channel from Corps of Engineers blue-prints 43124-27(1947). These soundings are subsequent to and supersede present survey depths within the common area.

#### B. Dredged Channels

Present survey depths in the St. Andrew dredged channel are slightly deeper than the charted controlling depth of 24 feet (Chart Letter 807, 1948). The charted controlling depth is subsequent to and supersedes present survey depths.

### C. Aids to Navigation

The aids to navigation appearing on the present survey were located in 1941. As most of these aids have been subsequently changed in character or position, a comparison with the present chart would serve no useful purpose. The charted positions of aids adequately mark the features intended.

#### Condition of Survey 7.

- The sounding records and Descriptive Report are a. complete.
- The verifiers report indicates that little attention was given to the proper spacing of soundings during the smooth plotting of the 1941 work. More than 600 soundings, many of which occurred at uneven time intervals were replotted because of erroneous spacing.
- Sufficient bar checks were not made during 1941 to adequately provide corrections for the reduction of soundings of that season's work. The purpose of the additional work of 1947 was to determine corrections for the 1941 work.
- No bottom characteristics were obtained on this inshore survey.

#### Compliance with Project Instructions 8.

The survey adequately complies with the Project Instructions except as noted under paragraph 7 d.

#### 9. Additional Field Work

With the bottom characteristics retained from the prior surveys, this survey is considered basic and no additional field work is recommended.

Examined and approved:

Chief, Nautical Chart Branch

Chief, Section of Hydrography

Casper M. Durgin Chief, Division of Charts

Chief, Division of Coastal Surveys

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App	r/ie	d to	chart	1264	before	review	1-27-43	H.F.S.	
			<u>.</u>	1263			2-15-43	K.R.	
							3-4-43		

# NAUTICAL CHARTS BRANCH

SURVEY NO. 16694 Additional work

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
12/12/47	489	S.a. Mc you	Before After Verification and Review Partially
9-9-49	1263	Sec. M. Slass	Three soundings at entrance channel  Mesore After Verification and Review Critical
10-31-49	489	m eylasson	Before After Verification and Review Completely Gypt
2-21-50	1115	m eglasson	Before After Verification and Review 70 Critical Con
3-3-50	869	mcglasson	Before After Verification and Review Completely Office
4-3-50	868	m eglasson	Before After Verification and Review Completely Ogist.
11-9-53	1115	En M Brough	Betwee After Verification and Review Coupletely Cytyl
12/2/14	1263	Defeating "	Fully angled thru Chart 86 9  Before After Verification and Review
5/33/68	/263-64	D.F. hundbarg	-Before After Verification and Review Brought Overlap
9/23/68	1264	D.E. Lundborg	Before After Verification and Review Completely April.
9/23/68	1115	DE Lordbrig	Brought overlap of 1115 into agreeant with 1264

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