

# 8873

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FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE  
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. 742-20-2-65 Office No. H-8873

### LOCALITY

State Texas

General locality Galveston Bay

Locality West Bay

1965-66

CHIEF OF PARTY

R. E. Alderman

### LIBRARY & ARCHIVES

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8873

HYDROGRAPHIC TITLE SHEET

H-8873

INSTRUCTIONS - 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.

HFP 20-2-65

State Texas

General locality Galveston Bay

Locality West Bay

Scale 1:20,000 Date of survey 5 Nov. 1965 to 28 Feb. 1966

Instructions dated 25 April 1962 Project No. OPR 428

Instructions dated 4 June 1964

Vessel Skiff 758

Chief of party LCDR. R.E. Alderman

Surveyed by Lt(jg) John B. Jones

Soundings taken by echo sounder, ~~and~~ pole \_\_\_\_\_

Graphic record scaled by Party Personnel

Graphic record checked by Party Personnel

Protracted by J.B. JONES & L.C. GILDEN Automated plot by \_\_\_\_\_

Soundings penciled by L.C. GILDEN

Soundings in ~~fathoms~~ feet at MLW ~~MLLW~~

REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
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HFP 20-2-65 H-8873(1965-66)

A. PROJECT

Work on OPR-428 was done in accordance with Basic Instructions 211-pt, S-2-ECFP, dated 25 April 1962; and Supplemental Instructions C-211, S-2-HFP-219, dated 4 June 1964.

B. AREA SURVEYED

The area covered by this survey is in the general vicinity of Galveston Bay, Texas, and covers the area of West Bay south of latitude 29°16'N and north of Latitude 29°08'N.

Field work on this sheet commenced on 5 November 1965 and was completed on 28 February 1966.

Junction was made on the north with C&GS (See Review Par.5) contemporary survey H-8750 (ECFP 10-3-63) 1963-66

C. SOUNDING VESSEL

All soundings were obtained with Skiff 758.  
The color red was used for day letters.

D. SOUNDING EQUIPMENT

A Raytheon Fathometer DE-723, serial No. 263, 20KC, was used to obtain soundings in depths greater than three feet. A sounding pole was used in depths of less than three feet.

Corrections applied to echo soundings were determined from daily bar checks and simultaneous comparisons. An abstract of these comparisons is tabulated in Appendix B of this report.

No unusual difficulties were encountered with the sounding equipment.

E. SMOOTH SHEET

The smooth sheet was made in the Washington Office by a Projection Ruling Machine. Smooth plotting will be accomplished by Hydrographic Field Party 742.

F. CONTROL

Horizontal control was obtained by the standard three-point sextant fix method. In some instances inside pier slips where it was impossible to see signals, the "See Boat Sheet" method was used.

The photo-hydro signals were furnished on completed manuscripts by Photo Party 756. The Advanced Manuscripts are listed as follows:

|         |           |
|---------|-----------|
| T-10787 | May 1962  |
| T-10790 | May 1961  |
| T-10791 | Oct. 1962 |
| T-10792 | Oct. 1962 |

G. SHORELINE (See Review Par 2)

The shoreline was transferred from Blueline Prints of Advanced Manuscripts that are listed in section F of this report.

The shoreline was verified by the hydrographer.

Shoreline revisions are listed as follows:

- (1) 29° 15.90'N ✓
- 94° 53.95'W

A small earth fill and channel has been constructed in this area. The fill and channel were located by the three-point sextant fix method.

- (2) 29° 15.35'N ✓
- 94° 55.10'W

Several new privately owned wood piers have been constructed in this area. The piers were located by the three-point sextant fix method. The remaining piers in this area were transferred from photos.

6

(3) 29°12.30'N *Concur*

94°59.45'W

The island at this location no longer exists. It was disproved by visual inspection and hydrography.

(4) 29°11.80'N "Jamaica Beach" ✓

94°59.20'W

This area has been completely redeveloped with new channels and slips for small boats. At the completion of this survey the development of the area was continually being expanded by new construction work. The shoreline changes were located by <sup>the</sup> three-point sextant fix method, and the "See Boat Sheet" method. *Changes taken from T-10792(1957-65)*

(5) 29°08.80'N "Sea Isle" ✓

95°02.85'W

This area is also being completely redeveloped and has numerous shoreline changes with more planned in the future. The shoreline changes were located by the three-point sextant fix method, and the "See Boat Sheet" method. *(Change taken from T-10791(1957-65)*

(6) 29°08.10'N "Terramar Beach" ✓

95°03.80'W

This area is also being completely redeveloped similar to the developments in part G (4) & (5) above. The channels were located by the three-point sextant fix method. *(Part of revisions from T-10791(1957-65)*

(7) 29°10.70'N ✓

95°05.50'W

There are two openings in the spoil bank between the Intracoastal Waterway and West Bay. It appears that this area is subject to change because it is a spoil area and fresh spoil was found at this location.

In some cases the low-water line was not defined because of the small range of tide and low tides during the period of the survey. ✓

H. CROSSLINES ✓

Crosslines were run in excess of 8% of the regular system of hydrography.

I. JUNCTIONS

This survey made junction on the north with C&GS contemporary survey H-8750 (ECFP 10-3-63) 1963-66 and with H-9050(1969) on the south. ✓  
The depths at the junction were in agreement.

J. COMPARISON WITH PRIOR SURVEYS (This is a beat sheet Comparison) ✓

The results of this survey were compared with prior surveys H-5489, Oct. 1933 to March 1934, scale 1:20,000; and H-5522, Sept. 1933 to July 1934, scale 1:20,000. In general, good agreement was obtained between this survey and the old survey except for several areas that are listed as follows:

- (1) 29° 15.52' N ✓
- 94° 55.85' W

A zero sounding was obtained at this point.

- (2) See section G(1) ✓
- (3) See section G(2) ✓

- (4) 29° 16.00' N ✓
- 94° 59.20' W

The passage between the Intracoastal Waterway and West Bay near Green Lake is now navigable with a depth of two feet at MLW.

- (5) 29° 15.60' N
- 94° 58.70' W

*Does not exist after verification*

~~A three foot shoal was found at this point.~~

- (6) 29° 15.20' N ✓
- 94° 56.80' W

A three foot shoal was found at this point.

- (7) 29° 14.20' N *Concur*
- 94° 56.90' W

The zero curve at this location on the prior survey was investigated on 2ma day at a -0.4 tide and found to be non-existent. It is recommended that the shoal be deleted from the chart.

- (8) 29° 14.40' N ✓
- 95° 00.90' W

The passage between the Intracoastal Waterway and West Bay near Carancahua Lake has been filled in with spoil.

- (9)  $29^{\circ}12.20'N$  } *Already charted*  
 $94^{\circ}59.35'W$  }

A privately maintained channel has been cut through the shoal area at this location. Also see section G(4) of this report. It is recommended that this channel be charted.

- (10)  $29^{\circ}10.00'N$  ✓  
 $95^{\circ}01.60'W$

Several of the channel markers (posts) listed at this location on the prior survey were found to still be in existence. The markers are rotten, and apparently have not been maintained since the last survey.

- (11)  $29^{\circ}09.00'N$  } *Already charted*  
 $95^{\circ}03.00'W$  }

A privately maintained channel has been cut into the bay at this location. Also see section G(5). It is recommended that this channel be charted.

- (12)  $29^{\circ}08.40'N$  } *Already charted*  
 $95^{\circ}04.00'W$  }

A privately maintained channel has been cut into the bay at this location; however, the channel does not extend out to the six foot depth curve of West Bay. In addition a small spoil area and reef were found south of the channel. Also see section G(6) of this report. It is recommended that this

channel be charted.

(13) 29°08.00 } Already charted  
95°04.55 }

A privately maintained channel has been cut into the bay at this location; however, the channel was not extended out to the six foot depth curve of West Bay. The controlling depth is ~~four~~ <sup>three</sup> feet, not eight feet as reported on the chart. In addition, a spoil area was found to the north side of the channel. It is recommended that this channel be charted.

(14) 29°09.50 *Concur*  
95°07.90

A one foot shoal was found at this location, which could be the result of spoil dumping. Also, to the northeast of this point a 6 foot unmarked channel was found coming out of the Intracoastal Waterway into West Bay. It is recommended that the shoal and channel be charted.

(15) 29°09.10'N ✓  
95°08.60'W

A three foot shoal was found in the spoil area at this location. It is recommended that the area continue to be shown as a spoil area on the chart.

(16) See section G(7).

(17) 29°10.15'N  
95°07.00'W

✓

The reefs reported in this location on the prior survey were not found when the area was developed; however, the area is very shoal. It is recommended that the reefs be deleted from the chart, and the shoal sounding be shown.

(18) 29°12.90'N ✓  
95°00.15'W *Superseded by L-1697(1970), L-1471(1970)*

A least depth of ~~three~~<sup>four</sup> feet was obtained where the Old Intracoastal Waterway cuts through Carancahua Reef. The least depth from the prior survey was five feet. It is recommended that the new depth be charted. The old Intracoastal Waterway that run through the center of West Bay is no longer maintained and has filled in at many places.

*New dredged channel charted*

(19) 29°15.90'N  
94°56.00'W

✓

At this location a least depth of four feet was obtained in the old Intracoastal Waterway. The charted depth is seven feet. It is recommended that the new depth be charted.

The aids marking the old Intracoastal Waterway on the prior survey have not been maintained and cannot be used for navigation.

K. COMPARISON WITH THE CHART (Sec Review Par. 7)

This survey was compared with C&GS Small Craft Chart 152-SC, Galveston Bay to Freeport, Texas, second edition, corrected through NM 40 - October 2, 1965, scale 1:80,000.

Specific changes and additions to the chart are listed as follows:

| Charted Feature | Position                     | Remarks   |
|-----------------|------------------------------|---|
| zero sounding   | 29° 15.52' N<br>94° 55.85' W | see section J(1) (Zero sdg. found)  |
| earth fill      | 29° 15.90' N<br>94° 53.95' W | see section G(1) <i>Applied through T-sheet.</i>  |
| piers           | 29° 15.35' N<br>94° 55.10' W | see section G(2) ✓  |
| shell reef      | 29° 15.34' N<br>94° 55.20' W | bares <sup>2'</sup> 1.5' @ MLW; ✓<br>located on 14y day   |
| submerged pipe  | 29° 15.38' N<br>94° 55.19' W | submerged 0.6' @ MLW; ✓<br>located on 16y day   |
| shell reef      | 29° 15.25' N<br>94° 55.39' W | bares 1.0' @ MLW; ✓<br>located on 48x day   |
| ruins           | 29° 15.39' N<br>94° 57.06' W | iron pipe bares <sup>4</sup> 4.5' @ <sup>H</sup> MLW; found to be 50 ✓<br>meters SW of charted position; located on 54r day |

| <del>Charted</del> Feature | Position                     | Remarks  |
|----------------------------|------------------------------|--|
| shoal                      | 29° 14.20' N<br>94° 56.90' W | see section J(7) - <i>disproved</i>  |
| pile                       | 29° 13.02' N<br>94° 59.92' W | bares 7.5' @ MLW; ✓<br>reported on chart as<br>obstr.; however, a<br>search was made on <i>la</i><br>day and only the pile<br>was found. Recommend<br>that obstr. be deleted<br>from the chart and the<br>piling be charted. |
| submerged pile             | 29° 13.08' N<br>95° 00.03' W | submerged 2.0' @ MLW; ✓<br>found to be 50 meters<br>NE of charted position;<br>located on <i>44ta</i> day.   |
| Jamaica Beach              | 29° 12.20' N<br>94° 59.35' W | see section G(4) and ✓<br>J(9.); the channel is<br>marked by <sup><i>priv maint. buoys</i></sup> <del>pilings</del> located<br>on <sup><i>ta</i></sup> <del>ja</del> day.  |
| Sea Isle                   | 29° 09.00' N<br>95° 03.00' W | see sections G(5) and ✓<br>J(11); THE CHANNEL IS MARKED BY<br>PILINGS LOCATED ON <i>ja</i> AND <i>ka</i> DAYS.   |
| Terramar Beach             | 29° 08.40' N<br>95° 04.00' W | see sections G(6) and ✓<br>J(12); The channel is<br>marked by pilings located<br>on <i>ja</i> day.   |

| Charted Features             | Position                 | Remarks   |
|------------------------------|--------------------------|---|
| Bay Harbor                   | 29°08.00'N<br>95°04.55'W | see section J(13); ✓<br>the channel is marked<br>by pilings located on<br>ka day.   |
| shoal                        | 29°09.50'N<br>95°07.90'W | see section J(14) ✓   |
| pile                         | 29°14.95'N<br>94°58.58'W | bares <sup>4</sup> 4.7' @ MLW;<br>located on 19w day.   |
| pile pipe                    | 29°14.79'N<br>94°59.00'W | pile bares 3.2' @ MLW<br>& iron pipe bares 8.2'<br>@ MLW; they lie NE to<br>SW and 2.0 meters apart;<br>located on 20w day. |
| pipe                         | 29°14.60'N<br>94°58.37'W | bares 5.2' @ MLW; ✓<br>located on 18w day.  |
| pile & <del>iron stake</del> | 29°14.31'N<br>94°58.82'W | bares 5.2' @ MLW; ✓<br>located on 17w day.  |
| pile                         | 29°12.63'N<br>94°59.43'W | bares <sup>5.0</sup> 4.8' @ MLW; ✓<br>located on 27q day.   |
| pile                         | 29°12.83'N<br>94°59.68'W | bares 7.4' @ MLW; ✓<br>located on 15q day.  |
| pile                         | 29°13.30'N<br>95°00.16'W | bares 6.4' @ MLW; ✓<br>located on 22q day.  |
| pile (steel<br>encased)      | 29°13.00'N<br>95°00.00'W | bares 3.6' @ MLW; ✓<br>located on 19q day.  |

| <del>Charted</del> Feature | Position                 | Remarks   |
|----------------------------|--------------------------|---|
| pipe (steel -<br>8" dia.)  | 29°13.02'N<br>95°00.58'W | bares 1.0' @ MLW; ✓<br>located on 11q day.  |
| pipe (steel -<br>6" dia.)  | 50 meters<br>NW of pos.  | bares 1.4' @ MLW; ✓<br>located on 12q day.  |
|                            | 11q                      |   |
| pile                       | 29°12.94'N<br>95°00.54'W | bares 8.4' @ MLW; ✓<br>located on 10q day.  |
| pile                       | 29°12.83'N<br>95°00.33'W | bares 5.0' @ MLW; ✓<br>located on 9q day.   |
| pile                       | 29°12.73'N<br>95°00.18'W | bares 4.0' @ MLW; ✓<br>located on 7q day.   |
| pipe (steel -<br>1" dia.)  | 29°12.65'N<br>95°00.06'W | bares 1.4' @ MLW; ✓<br>located on 6q day.   |
| pile                       | 29°12.60'N<br>94°59.95'W | bares 4.4' @ MLW; ✓<br>located on 5q day.   |
| pile                       | 29°11.99'N<br>95°00.59'W | bares 6.5' @ MLW; ✓<br>located on 1p day.   |
| pile                       | 29°11.88'N<br>95°00.69'W | bares 7.0' @ MLW; ✓<br>located on 2p day.   |
| pile                       | 29°11.84'N<br>95°00.72'W | bares 8.0' @ MLW; ✓<br>located on 3p day.   |
| piles (two)                | 29°11.70'N<br>95°00.90'W | bares 8.0' @ MLW; ✓<br>piles are 1.0 meters<br>apart, NE to SW;<br>located on 4p day. |

| Charted Feature               | Position                 | Remarks  |
|-------------------------------|--------------------------|--|
| stake (iron -<br>2" dia.)     | 29°11.58'N<br>95°00.89'W | bares 3.2' @ MLW; ✓<br>located on 5p day.  |
| pipes (3 - iron -<br>2" dia.) | 29°11.48'N<br>95°01.02'W | two bare 1.0' & one ✓<br>bares 5.0' @ MLW;<br>3 meters apart in<br>N to S direction:<br>located on 6p day. |
| stake                         | 29°11.40'N<br>95°01.02'W | awash @ MLW; located ✓<br>on 7p day.   |
| pile                          | 29°11.45'N<br>95°01.21'W | bares 4.6' @ MLW; ✓<br>located on 8p day.  |
| pile                          | 29°11.40'N<br>95°01.21'W | bares 9.0' @ MLW; ✓<br>located on 9p day.  |
| pile                          | 29°11.28'N<br>95°01.06'W | bares 7.0' @ MLW; ✓<br>located on 10p day.   |
| pile                          | 29°11.33'N<br>95°01.27'W | bares 8.0' @ MLW; ✓<br>located on 11p day.   |
| pile                          | 29°11.19'N<br>95°01.36'W | bares 8.0' @ MLW; ✓<br>located on 12p day.   |
| pile                          | 29°11.59'N<br>95°01.95'W | bares 10.2' @ MLW; ✓<br>located on 13p day.  |
| pile                          | 29°11.70'N<br>95°01.78'W | bares 10.2' @ MLW; ✓<br>located on 14p day.  |
| duck blind                    | 29°11.48'N<br>94°59.95'W | bares 4.2' @ MLW; ✓<br>3 meters across, NE<br>to SW; piles are driven                                      |

| <del>Charted</del> Feature | Position                 | Remarks  |
|----------------------------|--------------------------|--|
|                            |                          | & covered with web wire; located on 15p day.   |
| duck blind                 | 29°11.41'N<br>95°00.17'W | bares 4.2' @ MLW; ✓<br>3 meters across, N to S direction; stakes driven & covered; located on 16p day. |
| pile                       | 29°11.82'N<br>95°00.23'W | bares 8.0' @ MLW; ✓<br>located on 17p day.   |
| pile                       | 29°11.74'N<br>95°00.40'W | bares 9.2' @ MLW; ✓<br>located on 18p day.   |
| pile                       | 29°11.82'N<br>95°01.06'W | bares 7.2' @ MLW; ✓<br>located on 19p day.   |
| piles (two)                | 29°12.08'N<br>95°01.28'W | bares 13.2' @ MLW; ✓<br>one meter apart, N to S direction; located on 20p day.                         |
| pile                       | 29°11.98'N<br>95°01.50'W | bares 10.2' @ MLW; ✓<br>located on 21p day.  |
| pile                       | 29°11.60'N<br>95°01.49'W | bares 6.2' @ MLW; ✓<br>located on 22p day.   |
| pile (steel encased)       | 29°11.76'N<br>95°01.70'W | bares 1.2' @ MLW; ✓<br>located on 23p day.   |

(8)

| Charted Feature                 | Position                       | Remarks   |
|---------------------------------|--------------------------------|---|
| piles (two)                     | 10 meters<br>NE of Pos.<br>23p | bares 8.2' @ MLW; ✓<br>10 meters apart, NE<br>to SW; position located<br>on 24p day.                  |
| pile                            | 29°11.72'N<br>95°01.80'W       | bares 6.2' @ MLW; ✓<br>located on 25p day.  |
| pile                            | 29°11.69'N<br>95°02.05'W       | bares 8.8' @ MLW; ✓<br>located on 26P day.  |
| pile                            | 29°11.73'N<br>95°02.00'W       | bares 6.0' @ MLW; ✓<br>located on 27p day.  |
| pile                            | 29°12.07'N<br>95°02.20'W       | bares 7.4' @ MLW; ✓<br>located on 28p day.  |
| pile                            | 29°12.01'N<br>95°02.02'W       | bares 6.0' @ MLW; ✓<br>located on 29p day.  |
| pile                            | 29°12.29'N<br>95°01.70'W       | bares 9.0' @ MLW; ✓<br>located on 30p day.  |
| old channel beacon<br>(leaning) | 29°12.65'N<br>95°00.52'W       | bares 8.0' @ MLW;<br>submerged casting 2<br>meters SW of D.P.,<br>awash @ MLW; located<br>on 31p day. |
| pile                            | 29°12.56'N<br>95°00.44'W       | bares 9.0' @ MLW; ✓<br>located on 32p day.  |
| pile (steel<br>encased)         | 29°11.49'N<br>95°02.10'W       | bares 2.6' @ MLW; ✓<br>bamboo pole extending<br>15' above casing;<br>located on 11-1a day.            |

| <del>Charted</del> Feature | Position   | Remarks  |
|----------------------------|------------|--|
| pile                       | 29°11.12'N | bares 7.8' @ MLW; ✓                                  |
|                            | 95°01.28'W | oyster lease marker # 339A; located on 21h day.      |
| stake (iron)               | 29°13.50'N | bares 4.4' @ MLW; ✓                                  |
|                            | 95°01.09'W | located on 95d day.                                  |
| pile                       | 29°12.83'N | bares 7.7' @ MLW; ✓                                  |
|                            | 94°59.70'W | red reflector around top of pile; located on 5b day. |
| pile                       | 29°13.73'N | bares 11.0' @ MLW; ✓                                 |
|                            | 95°00.62'W | located on 37d day.                                  |
| pile                       | 29°12.38'N | bares 5.0' @ MLW; ✓                                  |
|                            | 94°59.52'W | located on 3d day.                                   |
| shoal                      | 29°09.50'N | see section J(14) ✓                                  |
|                            | 95°07.90'W |  |
| shoal                      | 29°09.10'N | see section J(15) ✓                                  |
|                            | 95°08.60'W |  |
| new channel                | 29°12.20'N | see section J(9) ✓                                   |
|                            | 94°59.35'W |  |
| new channel                | 29°08.40'N | see section J(12) ✓                                  |
|                            | 95°04.00'W |  |
| shoaling                   | 29°12.90'N | see section J(18) ✓                                  |
|                            | 95°00.15'W |  |
| shoaling                   | 29°15.90'N | see section J(19) ✓                                  |
|                            | 94°56.00'W |  |

The following objects were investigated by  
by wire drag:

| Feature  | Position     | Remarks  | <i>Concur in deletion from chart</i> |
|--|--------------|--|--------------------------------------|
| <i>from H-5522 (4937-34)</i><br>pipe (iron -<br>4" dia.) | 29° 16.00' N | dragged for on sa day ✓  |                                      |
|  | 94° 58.80' W | with negative results.   |                                      |
| pile   | 29° 13.08' N | submerged 2.0' @ MLW; ✓  |                                      |
|  | 95° 00.03' W | dragged for on ta day,<br>found 50 meters NE of<br>charted position. |                                      |
| <i>from H-5522 (4937-34)</i><br>old beacon               | 29° 12.68' N | dragged for on <sup>ma</sup> sa day ✓                                |                                      |
|  | 95° 00.42' W | with negative results.   |                                      |
| pile   | 29° 12.02' N | dragged for on va day ✓  |                                      |
|  | 95° 01.34' W | with negative results.<br>31-32va day                                |                                      |

L. ADEQUACY OF SURVEY

This survey is considered adequate to supercede all  
prior surveys.

M. AIDS TO NAVIGATION

The U.S. Coast Guard maintains 27 floating and  
6 fixed aids to navigation within the limits of this  
survey. These aids adequately serve the purpose for  
which they were established.

Many privately maintained aids to navigation  
were found within the limits of this survey.

The following aids are maintained by Jamaica

Beach:

| Position                     | Description   |
|------------------------------|---|
| 29° 12.30' N<br>94° 59.65' W | green temporarily fixed day beacon marking channel; located on 48 <del>1</del> day. |
| 29° 12.40' N<br>94° 59.54' W | red temporarily fixed day beacon marking channel; located on 48 <del>2</del> day.   |
| 29° 12.44' N<br>94° 59.48' W | green temporarily fixed day beacon marking channel; located on 49 <del>1</del> day. |
| 29° 12.09' N<br>94° 59.30' W | orange float marking entrance channel to Jamaica Beach; located on 34ta day.        |
| 29° 12.12' N<br>94° 59.29' W | <i>(means channel to Jamaica Beach)</i><br>same as 34ta day; located on 35ta day    |
| 29° 12.13' N<br>94° 59.32' W | same as 34ta day; located on 36ta day.  |
| 29° 12.23' N<br>94° 59.36' W | same as 34ta day; located on 37ta day.  |
| 29° 12.30' N<br>94° 59.42' W | same as 34ta day; located on 38ta day.  |
| 29° 12.39' N<br>94° 59.44' W | same as 34ta day; located on 39ta day.  |
| 29° 12.38' N<br>94° 59.45' W | same as 34ta day; located on 40ta day.  |

The following aids are maintained by Sea

Isle:

| Position                     | Description   |
|------------------------------|---|
| 29° 09.37' N<br>95° 03.31' W | pile with red diamond shaped reflector on top marking channel into Sea Isle; located on 53ja day. |
| 29° 09.38' N<br>95° 03.30' W | same as 53ja day, except with yellow diamond reflector; located on 54ja day.                      |
| 29° 09.28' N<br>95° 03.25' W | same as 53ja day; located on 55ja day.  |
| 29° 09.20' N<br>95° 03.17' W | same as 54ja day; located on 56ja day.  |
| 29° 09.19' N<br>95° 03.18' W | same as 53ja day; located on 57ja day.  |
| 29° 09.15' N<br>95° 03.10' W | pile marking channel; located on 58ja day.  |
| 29° 09.14' N<br>95° 03.11' W | same as 53ja day; located on 59ja day.  |
| 29° 09.05' N<br>95° 03.06' W | same as 53ja day; located on 60ja day.  |
| 29° 08.97' N<br>95° 02.98' W | same as 54ja day; located on 61ja day.  |
| 29° 08.96' N<br>95° 03.00' W | same as 53ja day; located on 62ja day.  |

| Position     | Description                       |
|--------------|-----------------------------------|
| 29° 08.87' N | same as position 54ja day;        |
| 95° 02.90' W | located on 64ja day.              |
| 29° 08.86' N | same as 53ja day; located on 65ja |
| 95° 02.91' W | day.                              |
| 29° 08.90' N | pile marking channel into Sea     |
| 95° 02.87' W | Isle.                             |
| 29° 08.94' N | pile marking channel into Sea     |
| 95° 02.80' W | Isle.                             |
| 29° 09.29' N | old channel marker awash @ MLW;   |
| 95° 03.23' W | located on 1ka day.               |
| 29° 08.56' N | after range to channel going into |
| 95° 02.67' W | Sea Isle; lighted at night by     |
|              | green light; located on 1qa day.  |
| 29° 08.69' N | front range to channel going into |
| 95° 02.78' W | Sea Isle; lighted at night by     |
|              | green light; located on 2qa day.  |

The following aids are maintained by Terramar

| Beach:       |                                    |
|--------------|------------------------------------|
| 29° 08.33' N | pile marking channel into Terramar |
| 95° 03.98' W | Beach; located on 28ja day.        |
| 29° 08.40' N | same as 28ja day; located on 29ja  |
| 95° 04.00' W | day.                               |
| 29° 08.40' N | same as 28ja day; located on 30ja  |
| 95° 04.00' W | day.                               |

| Position                 | Description                            |
|--------------------------|--|
| 29°08.42'N<br>95°04.04'W | same as 28ja day; located on 31ja day. |
| 29°08.40'N<br>95°04.05'W | same as 28ja day; located on 32ja day. |
| 29°08.45'N<br>95°04.07'W | same as 28ja day; located on 33ja day. |
| 29°08.46'N<br>95°04.06'W | same as 28ja day; located on 34ja day. |
| 29°08.50'N<br>95°04.10'W | same as 28ja day; located on 35ja day. |
| 29°08.49'N<br>95°04.11'W | same as 28ja day; located on 36ja day. |

The following aids to navigation are maintained by Bay Harbor:

|                          |   |
|--------------------------|---|
| 29°08.15'N<br>95°04.69'W | pile marking channel into Bay Harbor; located on 3ka day. |
| 29°08.18'N<br>95°04.68'W | same as 3ka day; located on 4ka day.                      |
| 29°08.03'N<br>95°04.56'W | same as 3ka day; located on 5ka day.                      |
| 29°08.01'N<br>95°04.57'W | same as 3ka day; located on 6ka day.                      |
| 29°07.98'N<br>95°04.51'W | same as 3ka day; located on 7ka day.                      |

| Position                 | Description  |
|--------------------------|--|
| 29°07.95'N<br>95°04.49'W | same as 3ka day; located on 8ka day.   |
| 29°07.91'N<br>95°04.50'W | same as 3ka day; located on 9ka day.   |
| 29°07.90'N<br>95°04.44'W | same as 3ka day; located on 10ka day.  |
| 29°07.86'N<br>95°04.44'W | same as 3ka day; located on 11ka day.  |
| 29°07.86'N<br>95°04.40'W | same as 3ka day; located on 12ka day.  |
| 29°07.86'N<br>95°04.38'W | same as 3ka day; located on 13ka day.  |
| 29°07.83'N<br>95°04.41'W | same as 3ka day; located on 14ka day.  |
| 29°07.77'N<br>95°04.36'W | front range to channel going into Bay Harbor; range is a red diamond shaped day beacon and is not lighted; located on 15ka day.  |
| 29°07.75'N<br>95°04.34'W | rear range to channel going into Bay Harbor; range is a green deamond shaped day beacon and is not lighted; located on 16ka day. |

26

Serious consideration should be given to ✓  
establishing several aids to navigation at the  
southeast part of the sheet (see section J(14))  
in order to mark the small channel coming out of  
the Intracoastal Waterway into West Bay. At the  
present time this channel is unmarked and is only  
100 meters northeast of an unmarked shoal. The  
channel would afford a deeper navigable waterway  
out of the Intracoastal Waterway into lower West  
Bay.

Also, consideration should be given to marking  
a small boat channel through or around Carancahua  
Reef.

#### N. STATISTICS

There were 2556 positions, 407.2 nautical miles  
of soundings, and 38.1 square nautical miles of  
area on this survey. Also, 32 bottom samples were  
taken. ✓

Tide control for this survey was furnished by  
three different tide gages. See Appendix C - "Tidal  
Notes" - for additional information on these stations.

O. MISCELLANEOUS

✓

The West Bay area is starting to develop very rapidly as far as water front houses and boating marinas are concerned. It is anticipated that in the near future all of West Galveston Island will <sup>be</sup> completely developed; consequently, the number of new channel and small boats will greatly increase.

Respectfully submitted,

*John B. Jones III*  
John B. Jones III  
Lt. USESSA

APPENDIX A

List of Signals

Hydrographic Survey H-8873 (HFP 20-2-65) 1965-66

|     |         |     |                     |
|-----|---------|-----|---------------------|
| ABE | T-10787 | FLY | T-10791             |
| ACE | T-10792 | GAL | T-10791             |
| ADD | T-10791 | GAT | <u>Gator</u> , 1933 |
| BAG | T-10787 | GET | T-10790             |
| BAY | T-10787 | GOT | T-10792             |
| BED | T-10791 | HAT | T-10791             |
| BIG | T-10792 | HER | T-10791             |
| BIL | T-10790 | HOP | T-10791             |
| BOX | T-10790 | HUB | T-10791             |
| CAB | T-10787 | HUT | T-10787             |
| CAT | T-10791 | ICE | T-10791             |
| COP | T-10792 | ITS | T-10791             |
| COW | T-10791 | IVY | T-10791             |
| DAY | T-10787 | JAK | T-10787             |
| DIP | T-10791 | JAR | T-10791             |
| DIX | T-10791 | JAY | T-10790             |
| DOG | T-10792 | JOB | T-10792             |
| EAR | T-10787 | JOY | T-10792             |
| EAT | T-10791 | KEN | T-10791             |
| EEL | T-10791 | KEY | T-10792             |
| EGG | T-10792 | KID | T-10790             |
| FAT | T-10787 | LAD | T-10791             |
| FIG | T-10792 | LAX | T-10792             |
| FIX | T-10790 | MAG | T-10792             |

APPENDIX A (con't)

|     |   |     |                                    |
|-----|---|-----|------------------------------------|
| MAN | T-10791   | USE | West Bay 3 ( <u>USE</u> ),<br>1900 |
| MAX | T-10791   |     |                                    |
| MOP | T-10792   | VAL | T-10792                            |
| NOR | T-10791   | VEX | T-10791                            |
| OAK | T-10791   | VIM | T-10792                            |
| OFF | T-10792   | WAD | T-10791                            |
| PAD | T-10791   | WAS | T-10792                            |
| PAL | T-10792   | WAX | T-10791                            |
| PAR | T-10787   | WEE | T-10792                            |
| PIN | T-10790   | WES | West Bay Beacon 25,<br>1933        |
| PIT | T-10792   | WOO | T-10787                            |
| REA | Galveston - Freeport<br>Range B Rear Light,<br>1963         |     |                                    |
| RAG | T-10791   | YAK | T-10791                            |
| RAN | Galveston - Freeport<br>Range D Rear Light,<br>1963         |     |                                    |
| RAT | T-10791   | YES | T-10792                            |
| RIG | T-10792   | YET | T-10792                            |
|     |   | ZEK | T-10787                            |
| ROT | T-10792   | ZOO | T-10791                            |
| SAL | T-10791   |     |                                    |
| SIR | T-10791   |     |                                    |
| SOX | T-10792   |     |                                    |
| TAN | T-10791   |     |                                    |
| TAX | hydro., 26w day   |     |                                    |
| TOM | hydro., <del>1da day</del> Positions 35, 49, 50, 53, ja day |     |                                    |
| TUB | T-10792   |     |                                    |

APPENDIX B

Corrections to Echo Soundings

Hydrographic Survey H-8873 (HFP 20-2-65) 1965-66

Corrections to be applied to "a" day through  
"va" day.

Skiff 758

| Echo Recorder   | Depth (ft.)    | Correction (ft.) |
|-----------------|----------------|------------------|
| DE-723, No. 263 | 0.0 to 10.0    | 0.0              |
|                 | 10.1 to deeper | +0.2             |

Note: All depths greater than 10.0 feet are in  
the Intracoastal Waterway.

APPENDIX C

Tidal Note

Hydrographic Survey H-8873 (HFP 20-2-65) 1965-66

Tide control for the survey was furnished by tide gages at Alligator Point, Jamaica Beach, and Offatts Bayou.

(1). Alligator Point

Gage Location: Lat. 29°09.95'N

Long. 95°07.88'W

Gage Type: Pressure Recording

Staff: Vitrified Scale; MLW corresponds to 1.9 feet on the staff.

Corrections: No time or height correction were applied.

Time Meridian: 90th

Zone: All of the southwest end of the sheet from a line connecting a point at lat. 29°12.70'N, long. 95°02.00'W to another point at lat. 29°11.10'N, long. 95°00.80'W.

(2). Jamaica Beach

Gage Location: Lat. 29°11.98'N

Long. 94°59.25'W

Gage Type: Portable Automatic

Staff: Vetrified Scale; MLW corresponds to 1.8 feet on the staff.

Corrections: No time or height corrections were applied.

Time Meridian: 90th

Zone: All of the area southwest of a line connecting a point at lat. 29° 17.10'N, long. 94° 58.00'W and lat. 29° 14.70'N, long. 94° 55.90'W to the Alligator Point Zone.

(3). Offatts Bayou

Gage Location: lat. 29° 17.00'N  
long. 94° 51.52'W

Gage Type: Portable Automatic

Staff: Vitrified Scale; MLW corresponds to 3.3 feet on the staff.

Corrections: No time or height corrections were applied.

Time Meridian: 90th

Zone: All of the northeast end of the sheet from a line connecting a point at lat. 29° 17.10'N, long. 94° 58.00'W to another point at lat. 29° 14.70'N, long 94° 55.90'W.

APPENDIX D

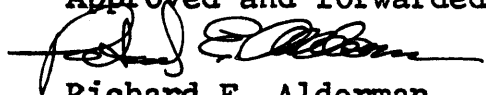
Approval Sheet to Accompany  
Hydrographic Sheet H-8873 (HFP 20-2-65) 1965-66

The field and office work was accomplished under my supervision.

The hydrography and descriptive report was done by Lt. John B. Jones III.

The report and records for this survey are complete and adequate to the best of my knowledge.

Approved and forwarded,



Richard E. Alderman  
LCDR., USESSA  
Officer-in-charge

CORRECTIONS IN FEET, FATHOMS

10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
110  
120  
130  
140  
150  
160  
170  
180  
190

FROM BEGINNING OF  
SHEET TO COMPLETION  
FIELD CHECK DATES  
NOV 1945  
JAN 1946

CORRECTIONS DEPTH  
-.0814 3.0'  
+.093 6.0'  
+.0.1 10.0'

|  |  |
|--|--|
| FORM C&GS-17<br>(4-42)                       | U.S. DEPARTMENT OF COMMERCE<br>COAST AND GEODETIC SURVEY |
| VELOCITY CORRECTIONS                         |  |
| Ship <u>SKIFF #758</u>                       |  |
| Comd. <u>KDR R.E. ALDERMAN</u>               |  |
| These corrections are to be used             |  |
| between                                      | 19__ and 19__  |
| in the locality <u>WEST BAY</u>              |  |
| <u>GALVESTON, TEXAS</u>                      |  |
| for hydrographic surveys Nos. <u>HFD 202</u> |  |
| <u>SHEET 20-2-65</u>                         |  |

CORRECTIONS TO BE USED

DEPTHS IN FATHOMS  
0.0 0.0  
10.0 0.0  
DEEPER +0.2

NOTE: ALL DEPTHS DEEPER THAN 8.0' ARE  
IN INTERCOASTAL WATERWAY.

~~TAB~~  
✓ JBS  
18 JAN 1966

(For deep water add a 0 to these figures)

PH-5910

ECFP 20-2-65

Report by

PHOTO PARTY 756

to

HYDROGRAPHIC FIELD PARTY 742

\*\*\*\*\*

A. PURPOSE AND SCOPE OF SUPPORT:

In accordance with instructions to the officer-in-charge of the Hydrographic Party, dated April 25, 1962 and supplemented June 4, 1964, and instructions to the officer-in-charge of the Photo Party dated September 12, 1962, photo hydro support was performed by Photo Party 756. ✓

B. CONTROL:

Hydrographic control consisted of triangulation, photo-hydro stations, tellurometer traverse stations, and natural objects cut-in by these lines. Photo-hydro stations were located in accordance with Photogrammetry Instruction No. 45. ✓

C. PHOTOGRAPHY:

1962 Single Lens photographs were used to locate photo-hydro stations. Difficulty was encountered using this method as the radial plot lines did not give a large intersection angle. Pass Points could not be held to prick the stations directly through from the photographs. Any stations in doubt were cut-in from traverse stations on the north side of West Bay. ✓

D. DISPOSITION OF DATA:

Cromaflex positives were transmitted to the Hydrographic Field Party with control plotted and inked on their respective manuscripts. No three letter names were assigned to the signals by this party. ✓

BS 20-2-65

LIST OF SIGNALS

WEST BAY

\*\*\*\*\*  
TRIANGULATION:

| <u>NAME</u>    | <u>ORIGIN</u>                               | <u>MANUSCRIPT</u>  |
|----------------|---|--------------------|
| <del>WES</del> | WEST BAY BEACON 25, 1933                    | <del>T-10787</del> |
| <del>BAY</del> | <del>WEST BAY BEACON 17, 1933</del>         | <del>T-10791</del> |
| GAT            | GATOR, 1933                                 | T-10787            |
| RAN            | GALVESTON-FREEPORT RANGE D REAR LIGHT, 1963 | T-10787            |
| USE            | WEST BAY 3 (USE), 1900                      | T-10787            |
| REA            | GALVESTON-FREEPORT RANGE E REAR LIGHT, 1963 |                    |

TOPOGRAPHIC STATIONS

| T-10787 | T-10790 | T-10791 | T-10792 |
|---------|---------|---------|---------|
| ABE     | BIL     | ADO     | ACE     |
| BAG     | BOX     | BED     | BIG     |
| CAB     | FLX     | CAT     | COP     |
| DAY     | GET     | DIP     | ROT     |
| EAR     | JAY     | EEL     | TUB     |
| FAR     | KID     | GAL     | SKY     |
| FAT     | PIN     | HAT     | VET     |
| HUT     |         | HER     | VIM     |
| JAK     |         | HUB     | WEE     |
| LIP     |         | ICE     |         |
| WOO     |         | ITS     |         |
| ZEK     |         | KAR     |         |
| BAY     |         | KEN     |         |
|         |         | KEY     |         |

PHOTO HYDRO STATIONS

| T-10787 | T-10790 | T-10791 | T-10792 |
|---------|---------|---------|---------|
| WAS     | EAT     | ANN     | ART     |
| YES     | FIX     | COW     | EGG     |
|         | GET     | DLX     | FIG     |
|         | HOP     | EAT     | GOT     |
|         | IVY     | FLY     | HUT     |
|         |         | GAS     | JOB     |
|         |         |         | JOY     |
|         |         |         | KEY     |
|         |         |         | LAX     |
|         |         |         | MAG     |
|         |         |         | MOP     |
|         |         |         | OFF     |
|         |         |         | OIL     |
|         |         |         | PAL     |
|         |         |         | PIT     |
|         |         |         | RIG     |
|         |         |         | SOX     |
|         |         |         | VET     |
|         |         |         | YET     |
|         |         |         | NIG     |

Respectfully Submitted,  
*Dale M. Fuller*  
Dale M. Fuller

TIDE NOTE FOR HYDROGRAPHIC SHEET

February 16, 1967

~~NORTH PACIFIC DIVISION~~ Atlantic Marine Center

Plane of reference approved in  
11 volumes of sounding records for

HYDROGRAPHIC SHEET 8873

Locality: Galveston Bay, Texas

Chief of Party: R. E. Alderman (1965, 1966)

Plane of reference is mean low water

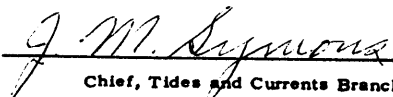
Tide Station Used (Form C&GS-681):

Alligator Point, Texas  
Jamaica Beach, Texas  
Offatts Bayou, Texas

Height of Mean High Water above Plane of Reference is as follows:

|                 |          |
|-----------------|----------|
| Alligator Point | 1.0 foot |
| Jamaica Beach   | 1.0 foot |
| Offatts Bayou   | 1.1 feet |

Remarks

  
Chief, Tides and Currents Branch

GEOGRAPHIC NAMES

Survey No. H-8873

| Name on Survey        | <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On Chart No.</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On previous survey No.</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On U. S. quadrangle Maps</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">From local information</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On local Maps</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">P. O. Guide or Map</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Rand McNally Atlas</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">U. S. Light List</div> </div> |   |   |   |   |   |   |   |   |  |    |
|-----------------------|--|---|---|---|---|---|---|---|---|--|----|
|                       | A  | B | C | D | E | F | G | H | K |  |    |
| Alligator Pt.         |  |   |   |   |   |   |   |   |   |  | 1  |
| Caranabua Point       |  |   |   |   |   |   |   |   |   |  | 2  |
| Caranabua Reef        |  |   |   |   |   |   |   |   |   |  | 3  |
| Galveston Island      |  |   |   |   |   |   |   |   |   |  | 4  |
| Greens Lake           |  |   |   |   |   |   |   |   |   |  | 5  |
| Hoeckers Point        |  |   |   |   |   |   |   |   |   |  | 6  |
| Intracoastal waterway |  |   |   |   |   |   |   |   |   |  | 7  |
| North Deer Island     |  |   |   |   |   |   |   |   |   |  | 8  |
| South Deer Island     |  |   |   |   |   |   |   |   |   |  | 9  |
| Maggies Point         |  |   |   |   |   |   |   |   |   |  | 10 |
| Maggies Cove          |  |   |   |   |   |   |   |   |   |  | 11 |
| Snake Island          |  |   |   |   |   |   |   |   |   |  | 12 |
| Snake Island Cove     |  |   |   |   |   |   |   |   |   |  | 13 |
| Sea Isle              |  |   |   |   |   |   |   |   |   |  | 14 |
| Terramar Beach        |  |   |   |   |   |   |   |   |   |  | 15 |
| McAllis Pt            |  |   |   |   |   |   |   |   |   |  | 16 |
| Bird Island Cove      |  |   |   |   |   |   |   |   |   |  | 17 |
| Shell Island Pt       |  |   |   |   |   |   |   |   |   |  | 18 |
| Bird Islands          |  |   |   |   |   |   |   |   |   |  | 19 |
| Jumbile Cove          |  |   |   |   |   |   |   |   |   |  | 20 |
| Caranabua Cove        |  |   |   |   |   |   |   |   |   |  | 21 |
| Ook Bayou             |  |   |   |   |   |   |   |   |   |  | 22 |
| Butterowe Bayou       |  |   |   |   |   |   |   |   |   |  | 23 |
| Dana Cove             |  |   |   |   |   |   |   |   |   |  | 24 |
| Lake Como             |  |   |   |   |   |   |   |   |   |  | 25 |
| Hoeckers Cove         |  |   |   |   |   |   |   |   |   |  | 26 |
| Tucker Bayou          |  |   |   |   |   |   |   |   |   |  | 27 |

Names approved  
May 25, 1967  
Frank W. Peckett

GEOGRAPHIC NAMES

Survey No.

| Name on Survey     | Source |   |   |   |   |   |   |   |   |  |    |
|--------------------|--------|---|---|---|---|---|---|---|---|--|----|
|                    | A      | B | C | D | E | F | G | H | K |  |    |
| Starvation Cove    |        |   |   |   |   |   |   |   |   |  | 1  |
| Mentzell Bayou     |        |   |   |   |   |   |   |   |   |  | 2  |
| Melager Cove       |        |   |   |   |   |   |   |   |   |  | 3  |
| Auzston Bayou      |        |   |   |   |   |   |   |   |   |  | 4  |
| Hance Bayou        |        |   |   |   |   |   |   |   |   |  | 5  |
| Anderson Ways      |        |   |   |   |   |   |   |   |   |  | 6  |
| Alligator Head     |        |   |   |   |   |   |   |   |   |  | 7  |
| Shell Island       |        |   |   |   |   |   |   |   |   |  | 8  |
| Bay Harbor         |        |   |   |   |   |   |   |   |   |  | 9  |
| West Bay           |        |   |   |   |   |   |   |   |   |  | 10 |
| Ostermayer Bayou   |        |   |   |   |   |   |   |   |   |  | 11 |
| Three Cedars Bayou |        |   |   |   |   |   |   |   |   |  | 12 |
| Big Marsh          |        |   |   |   |   |   |   |   |   |  | 13 |
| Chocolate Bay      |        |   |   |   |   |   |   |   |   |  | 14 |
|                    |        |   |   |   |   |   |   |   |   |  | 15 |
|                    |        |   |   |   |   |   |   |   |   |  | 16 |
|                    |        |   |   |   |   |   |   |   |   |  | 17 |
|                    |        |   |   |   |   |   |   |   |   |  | 18 |
|                    |        |   |   |   |   |   |   |   |   |  | 19 |
|                    |        |   |   |   |   |   |   |   |   |  | 20 |
|                    |        |   |   |   |   |   |   |   |   |  | 21 |
|                    |        |   |   |   |   |   |   |   |   |  | 22 |
|                    |        |   |   |   |   |   |   |   |   |  | 23 |
|                    |        |   |   |   |   |   |   |   |   |  | 24 |
|                    |        |   |   |   |   |   |   |   |   |  | 25 |
|                    |        |   |   |   |   |   |   |   |   |  | 26 |
|                    |        |   |   |   |   |   |   |   |   |  | 27 |

Approved by:  
 Chas. E. Harrington  
 Staff Geographer  
 5-22-1974

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H-8873

Records accompanying survey: 742-20-2-65 Smooth sheets .1...;  
 boat sheets .1...; sounding vols. .11...; wire drag vols. .0...;  
 Descriptive Reports .1...; graphic recorder envelopes <sup>1 Cahier-Fathograms</sup> .7...;  
 special reports, etc. ....  
 .....

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

|   |             |
|---|-------------|
| Number of positions on sheet                            | .. 2556     |
| Number of positions checked                             | ... 300     |
| Number of positions revised                             | ... 33      |
| Number of positions revised<br>(refers to depth only)   | .....       |
| Number of soundings/erroneously spaced                  | .....       |
| Number of signals erroneously plotted<br>or transferred | .....       |
| Topographic details                                     | Time 30 hrs |
| Junctions   | Time 8 hrs  |
| Verification of soundings from<br>graphic record        | Time 4 hrs  |
| Special adjustments                                     | Time .....  |

Verification by *Allan K. Schugeld* Total time 192 hrs Date 5/1/67  
 Allan K. Schugeld

Reviewed by *Fannie B. Powers* Time 112 Date 6-6-74  
~~95~~

*Inspection Cassens* 27 7/12/74  
*Corrections after inspection 13 hrs August 1974 Powers*



## 2. Shoreline and Control

The origin of control is adequately covered in Part F of the Descriptive Report.

The shoreline originates with advanced photogrammetric manuscripts T-10787, T-10790, T-10791, and T-10792 of 1957-65. The shoreline from 1965 photographs west of long.  $95^{\circ}07.5'$  on T-10790 was not checked as the T-sheet could not be located. The islet in lat.  $29^{\circ}12.3'$ , long.  $94^{\circ}59.45'$  on T-10791 was disproved by the hydrographer and therefore is not shown. Revisions appearing in red are by the hydrographer.

## 3. Hydrography

- A. Depths at crossings are in good agreement.
- B. The usual depth curves are adequately delineated except the low water line which was not delineated in some areas because of the small range in tide.
- C. The development of the bottom configuration and the investigation of least depths are considered adequate.

## 4. Condition of the Survey

The smooth plotting, sounding records, and Descriptive Report are adequate and conform to the requirements of the hydrographic manual except that the Descriptive Report was excessively detailed in listing piles, stakes, shoals, etc. readily apparent on the smooth sheet and requiring no additional remarks.

## 5. Junctions

The junction with H-8750 (1963-66) on the north is discussed in the review of that survey. The junction with unreviewed survey H-9050 (1969) on the south will be discussed in the review of that survey. No contemporary survey junctions with the present survey on the northwest. However, present survey depths are in general harmony with charted depths in that area.

6. Comparison with Prior Surveys

- A. H-931 (1867)  
H-932 (1867)

These surveys have been compared with and are superseded by the surveys discussed below. Further consideration is not necessary in the present review.

- B. H-5489 (1933-34), 1:20,000  
H-5522 (1933-34), 1:20,000

A comparison between prior and present depths reveals most of the bottom has remained unchanged since 1933. However minor differences of  $\pm 1$  foot is evident. Offshore islets on the prior surveys have completely changed or are non-existing on the present survey. These changes are attributed to natural causes.

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

7. Comparison with Chart 887-SC (latest print date Nov. 10, 1973)

A. Hydrography

The charted hydrography originates with the previously discussed prior surveys which require no further consideration, supplemented by the partial application of depths from the present survey boat sheet and smooth sheet after verification and before review. Several duck blinds, stakes, and piles located by the hydrographer are not presently charted.

Attention is directed to the following:

1. Items indicated on Bp 88818 by the reviewer as having been charted subsequent to the date of the present survey, supersede the present survey information and should be retained on the chart.
2. The following items charted from the boat sheet information should be revised as indicated:

| <u>Item</u>         | <u>Charted Position</u>  | <u>From Smooth Sheet Data</u>                    |
|---------------------|--|--|
| (a) Pile            | lat. 29°08.12', long. 95°04.64'                                    | Delete   |
| (b) Islet           | lat. 29°08.15', long. 95°04.63'                                    | Revise position                                  |
| (c) Two pipes       | lat. 29°07.77', long. 95°05.3'<br>lat. 29°07.77', long. 95°05.2'   | Revise positions                                 |
| (d) Two duck blinds | lat. 29°07.68', long. 95°05.13'<br>lat. 29°07.74', long. 95°04.97' | Revise positions                                 |
| (e) Duck blind      | lat. 29°07.77', long. 95°04.87'                                    | Revise position                                  |
| (f) Pile            | lat. 29°08.90', long. 95°03.05'                                    | Delete   |
| (g) Two piles       | in the vicinity of lat. 29°10.43'<br>long. 95°01.1'                | Revise position ✓                                |
| (h) Pile            | lat. 29°11.41', long. 95°00.16'                                    | Duck blind ✓                                     |
| (i) Pile            | lat. 29°11.47', long. 94°59.94'                                    | Duck blind ✓                                     |
| (j) Pile            | lat. 29°15.77', long. 94°54.82'                                    | Relabel stake ✓                                  |
| (k) Pipe            | lat. 29°13.32', long. 94°58.23'                                    | Relabel pipes ✓                                  |
| (l) Pile            | lat. 29°13.08', long. 95°00.03'                                    | Label subm pile                                  |
| (m) Pipe            | lat. 29°13.25', long. 95°00.31'                                    | Revise position<br>and name                      |
| (n) Two piles       | in the vic. of lat. 29°11.77'<br>long. 95°01.68'                   | Show one pile<br>Symbol-Retain<br>description. ✓ |
| (o) Two piles       | in the vic. of lat. 29°11.71'<br>long. 95°01.79'                   | Revise position ✓                                |

3. The pile charted in lat. 29°12.02', long. 95°01.33' from H-5489 (1933-34) was disproved by a chain drag investigation and should be disregarded. ✓

4. The dolphin charted in lat. 29°12.55', long. 95°00.42' from T-8947 should be described as a pile in accordance with the final smooth sheet data.

5. The pipe charted in lat. 29°13.21', long. 95°00.29' was not investigated on the present survey and has been retained as a submerged pipe.

Except as noted above the present survey is adequate to supersede the charted hydrography within the common area.

B. Controlling Depths

The charted controlling depths are based on information from the United States Power Squadrons and other private sources subsequent to the present survey.

C. Aids to Navigation

Several aids to navigation have been established or relocated subsequent to the date of the present survey.

The aids presently charted adequately mark the features intended.

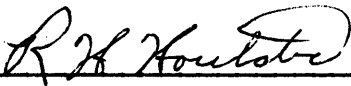
8. Compliance with Instructions

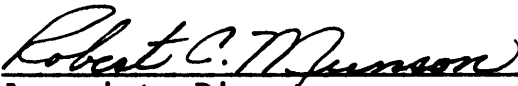
This survey adequately complies with the Project Instructions.

9. Additional Field Work

This is a good basic survey and no additional field work is recommended.

Examined and Approved:

  
\_\_\_\_\_  
Chief  
Marine Chart Division

  
\_\_\_\_\_  
Associate Director  
Office of Marine Surveys and Maps

H-8873

Information for Future Pre-Survey Reviews

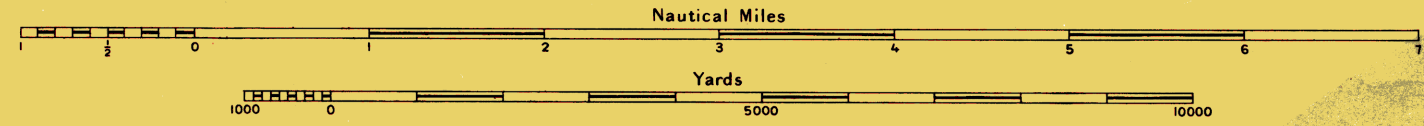
Most of the bottom has remained unchanged since the prior surveys. However minor differences of  $\pm 1$  foot are evident in some instances.

| <u>Position Index</u> |              | <u>Bottom Change</u> | <u>Use</u>   | <u>Resurvey</u> |
|-----------------------|--------------|----------------------|--------------|-----------------|
| <u>Lat.</u>           | <u>Long.</u> | <u>Index</u>         | <u>Index</u> | <u>Cycle</u>    |
| 290                   | 0951         | 3                    | 2            | 50 Years        |
| 291                   | 0950         | 3                    | 2            | 50 Years        |
| 291                   | 0951         | 3                    | 2            | 50 Years        |

# GALVESTON BAY AND APPROACHES

Mercator Projection  
Scale 1:80,000 at Lat. 29°20'

SOUNDINGS IN FEET  
AT MEAN LOW WATER



**CHOCOLATE BAYOU CHANNEL**  
The controlling depth was 7 feet for a width of 100 feet in the privately dredged channel from the Intracoastal Waterway through Chocolate Bay to Chocolate Bayou Channel except for a depth of 6 feet in the right quarter at the entrance curves; a depth of 7 feet for a width of 100 feet to the Monsanto Chemical Plant, a distance of 7.8 miles. July 1966

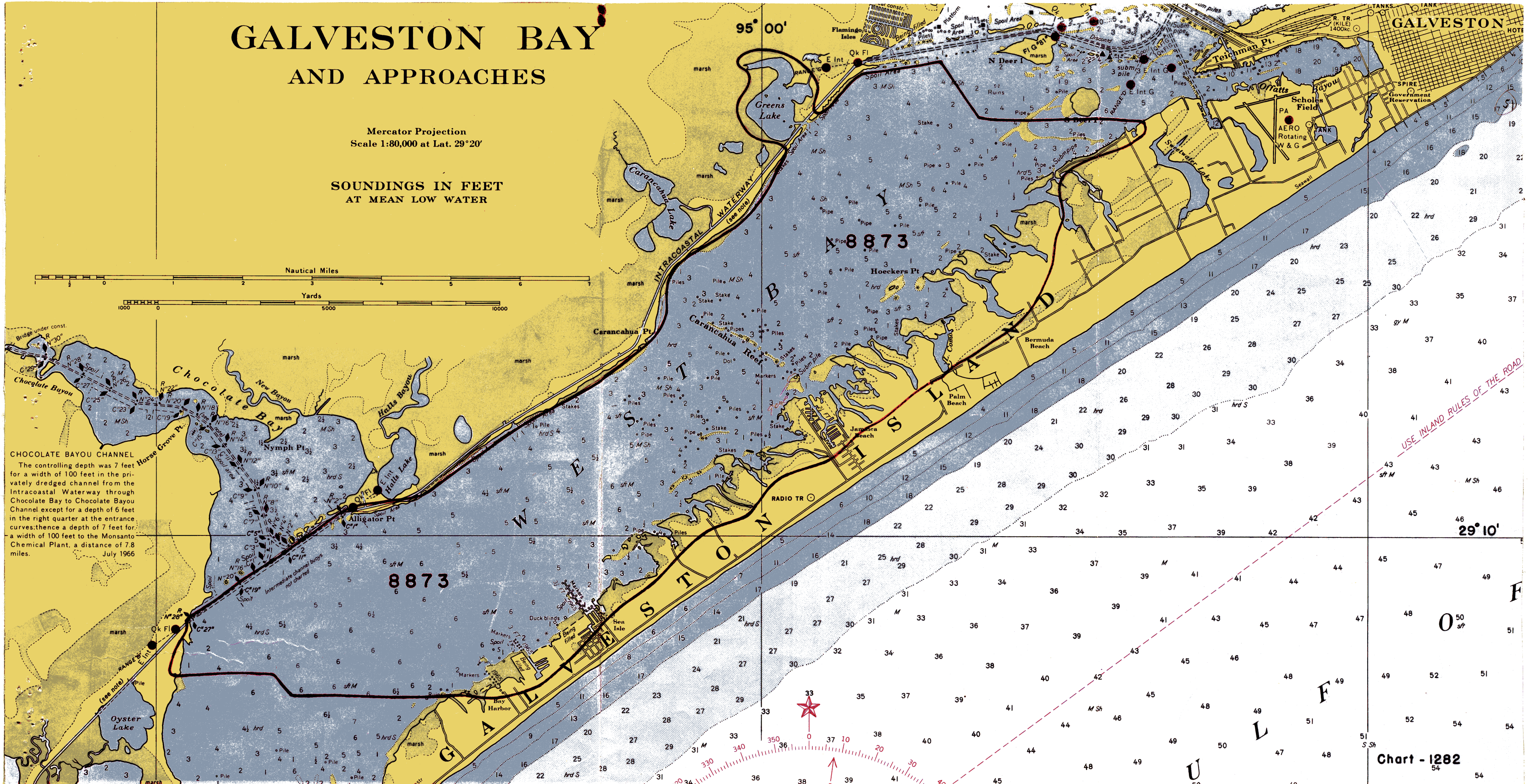


Chart - 1282  
54



518 Exam No Carr  
Sub 5-19-67

Considered as fully ggd till after Keen  
Present Hydro from by 69324 of Boat sheet

(50)

|       |      |    |      |            |               |
|-------|------|----|------|------------|---------------|
| 886   | Exam | No | Carr | Subs 11-67 | same as above |
| 887   | "    | "  | "    | "          | "             |
| 1525e | "    | "  | "    | "          | "             |
| 1282  | "    | "  | "    | "          | "             |