

6493

6493

Form 504
Rev. April 1935
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Topographic }
Hydrographic } Sheet No. H-6493

State Texas

LOCALITY
West Gulf ^{of Mexico} - Brazios Santiago

Project H-214

193 ⁹

CHIEF OF PARTY

G.C. Mattison

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. 11 **H6493**

REGISTER NO. H-6493

State Texas
General locality West Gulf ^{of Mexico} - Brazos Santiago - Gulf of Mexico
Locality ~~Padre Island~~
Scale 1-10,000. Date of survey June 27 to 29 incl., 19 39
Vessel Launch Faris attached to HYDROGRAPHER
Chief of Party G.C. Mattison
Surveyed by Edwin C. Baum
Protracted by M. J. Timmerman
Soundings penciled by M. J. Timmerman
Soundings in ~~fathoms~~ ^{feet}
Plane of reference M.L.W.
Subdivision of wire dragged areas by _____
Inked by Jas. F. Richardson
Verified by Jas. F. Richardson
Instructions dated February 17, 1937, 19 _____
Remarks: Project H-214

Memo by chief of party.

The sheet and accompanying records have been examined and are approved.

The chief of party could not supervise either the field or office work while in progress, but inspected the work after completion in each case. The office work on the sheet and records was done in the Pensacola processing office.

No additional field work is necessary.


G. C. Mattison,
Chief of Party

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
L.O.COLBERT " DIRECTOR

DESCRIPTIVE REPORT
HYDROGRAPHIC SHEET NO.H-6493
WEST GULF
BRAZIOS SANTIAGO
PADRE ISLAND
TEXAS

Project H-214

SHIP HYDROGRAPHER
GALVESTON, TEXAS

G.C.MATTISON
CHIEF OF PARTY

DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet H-6493 (Field No. 11)

WEST -GULF -- BRAZIOS SANTIAGO

Gulf of Mexico

off

Texas Coast

Scale 1-10,000

Season 1939

Instructions dated- - February 17, 1937.

Project H.T.214

Surveyed By; Edwin C. Baum,
Jr. H. & G. E.,
Launch FARIS

Party off: Ship HYDROGRAPHER,
G. C. Mattison,
H. & G. Engr.,
Commanding.

LIMITS:

The limits of this survey are restricted to that critical area lying off-shore and adjacent to Brazios Santiago. this survey constitutes a closely developed strip $\frac{1}{2}$ mile wide and 3 miles long lying parallel to the beach, the inshore limits of which are about 0.6 miles to eastward of Padre Island.

SURVEY METHODS:

The Launch FARIS drawing about 5 feet was used to survey the entire area.

All depths were obtained by handlead, phosphor-bronze center, graduated in fathoms and feet.

Positions were fixed with sextant angles on shore signals located by triangulation or planetable.

COMPARISON WITH PREVIOUS SURVEYS:

This survey agrees favorably with the few scattered sound-
ing shown on chart #1288 (scale 1-80,000).

DISCREPANCIES:

No discrepancies were found.

SHOALS AND DANGERS:

No shoals or dangers were found in this area.

JUNCTURES WITH CURRENT SURVEYS:

Junctures with current work are good. Joins H-6491 to north,
south and west. Joins H-649⁶ to eastward.

CHANNELS, HARBORS, ANCHORAGES:

To enter Brazios Santiago on range provided a least depth
of 36 feet may be carried across the bar.

No harbors or anchorages are afforded within the limits
of this sheet.

GEOGRAPHIC NAMES:

There are no new names on the sheet. All names are well
established.

LANDMARKS:

Submitted separately.

TIDES:

Tides were taken from Automatic Tide Gage No.153 located on
the north jetty at Brazios Santiago. Reducers were scaled directly
from the marigrams. See Directors letter dated June 28,1939 ref.30-F.L.M.;
copy attached.

Respectfully submitted,

Edwin C. Baum

Edwin C. Baum,
Jr. H. & G. E.

Forwarded and Approved:

G. C. Mattison
G. C. Mattison,
Chief of Party.

Ref. No. 30-FLM

June 28, 1939.

To: The Commanding Officer,
U. S. C. & G. S. Ship Hydrographer,
Box 565,
Galveston, Texas.

From: The Director,
U. S. Coast and Geodetic Survey.

Subject: Tide records.

With reference to your letter of June 20 forwarding tide records for Brazos Santiago and requesting instructions for the reduction of offshore soundings in this area, it is recommended that your tide observations for Brazos Santiago jetty be used for this purpose without time or range correction. Mean low water as determined from your observations corresponds to a reading of 1.6 feet in tide staff at Brazos Santiago jetty.

The portable gage records for this station are being returned to you for use in scaling tide reducers directly from the marigrams. It is believed that this method will be more practicable, as due to the confusion of tide curves on some of the marigrams, satisfactory tabulation of hourly heights would be very difficult, if not impossible. This condition emphasizes the need of changing marigrams at least every two days in areas where the tide is small and erratic.

When the gage on the jetty is removed, records for the Coast Guard station can be used with a time correction of minus one-half hours, a comparison between simultaneous observations at the two stations showing the tide at the Coast Guard station to occur on the average one-half hour later than at the jetty. The difference in range between the two stations is small and can be disregarded. Mean low water corresponds to a reading of 2.7 feet on staff at the Coast Guard station.

When it becomes necessary or convenient to remove the gages at Brazos Santiago, it appears that satisfactory results can be obtained by using observations at the Galveston primary station for reduction of offshore soundings. For this purpose, it can be considered that the tide offshore occurs one hour earlier than at the Galveston primary station. The difference in range can be disregarded. Hourly heights for Galveston for such periods as needed will be furnished upon request.

J. H. Hawley

Acting Director.

STATISTICS

PROJECT HT 214

WEST GULF

HYDROGRAPHIC SHEET NO. H-6493

LAUNCH FARIS

DAY	DATE	MILE (STATUTE)	SOUNDINGS	POSITIONS	DAYS RUN
a	6/21/39	28.0	1372	258	33.7
b	6/28/39	21.5	908	239	31.5
c	6/29/39	15.3	731	184	29.5
TOTAL		<u>64.8</u>	<u>3071</u>	<u>681</u>	<u>94.7</u>

AREA

2.0 Square Statuete Miles.

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H6493**

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

Number of positions on sheet	681
Number of positions checked	7
Number of positions revised	0
Number of soundings recorded	3071
Number of soundings revised	8
Number of soundings erroneously spaced	15
Number of signals erroneously plotted or transferred	0

Date: *June 29, 1940*

Verification by *Jas. F. Richardson*

Time: *21 hrs.*

Review by *J. A. McCormick 7/6/40*

Time: *4 hr.*

HYDROGRAPHIC SURVEY NO. H6493

Smooth Sheet Yes

Boat Sheet Yes

Records; Sounding 2 Vols., Wire Drag Vols., Bomb Vols.

Descriptive Report Yes

Title Sheet Y Yes

List of Signals Yes

Landmarks for Charts (Form 567) No

Statistics Yes

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524) No Yes

Special Chart for Lighthouse Service No
(Circular Nov.30, 1933)

Hydrography: Total Days 3 ; Last Date 6/29/39

Remarks _____

Verification Report H-6493

1. Condition of records - Satisfactory
2. Shoreline and signals are from T-6707 which has not been sent in from the field. (See page 7 of the D.R. of H-6491(1939))
3. Sounding line crossings - Satisfactory
4. Depth curves - the 30 foot depth curve is shown.
5. No junctions were made - this survey is joined by H-6496(1939) on the North, East and South, and on the west by H-6491(1939). These surveys have not been verified.
6. Field plotting - Satisfactory
7. one aid to navigation appears on the survey and its position was revised to confirm to the position given on page one of Vol. 2. Buoy is located at Lat. $26^{\circ} 03'.9$ and Long $97^{\circ} 08'.7$ (Color of buoy obtained from Atlantic Light List 1940).

Jas. I. Richardson

Remarks

Decisions

	Remarks	Decisions
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GEOGRAPHIC NAMES

Survey No. **H6493**

Name on Survey	A,	B,	C,	D	E	F	G	H	K	
	On Chart No.	On previous survey No.	On U. S. Quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
<u>Padre Island</u>										1
<u>Brazos Island</u>										2
<u>Brazos Santiago</u>										3
<u>Gulf of Mexico</u>										4
										5
	Names underlined in red approved									6
	by L. Heck on 7/17/40									7
										8
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MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

No. H **H6493**
~~No. T~~

received **June 10, 1940**
registered **June 14, 1940**
verified
reviewed
approved

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
20			
22			
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62			
63			
82			
83			
88			
90			

RETURN TO

82	T. B. Reed
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✓ JBR

LAC
HCC

TIDE NOTE FOR HYDROGRAPHIC SHEET

June 25, 1940

Division of Hydrography and Topography:

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

Tide Reducers are approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 6493

Locality Entrance to Brazos Santiago, Gulf of Mexico

Chief of Party: G. C. Mattison in 1939

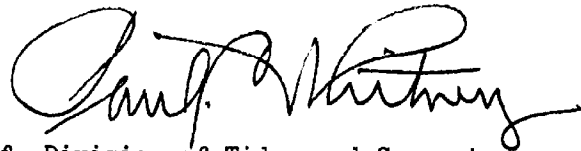
Plane of reference is mean low water reading

1.6 ft. on tide staff at Brazos Santiago, North Jetty

6.1 ft. below B.M. 1

Height of mean high water above plane of reference is 1.1 feet.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

DIVISION OF CHARTS

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6493 (1939) FIELD NO. 11

Texas, Gulf of Mexico, Brazos Santiago
Surveyed in June 1939, Scale 1:10,000
Instructions dated February 17, 1937 (HYDROGRAPHER)

Soundings:
Hand lead.

Control:
Three point fixes on shore signals.

Chief of Party - G. C. Mattison.
Surveyed by - E. C. Baum.
Protracted by - M. J. Timmerman.
Soundings plotted by - M. J. Timmerman.
Verified and inked by - J. F. Richardson.
Reviewed by - J. A. McCormick, July 6, 1940.
Inspected by - H. R. Edmonston.

1. Shoreline and Signals.

Shoreline and topographic signals are from T-6707 (1939).

2. Depth Curves.

Satisfactory.

3. Sounding Line Crossings.

Satisfactory.

4. Junctions with Contemporary Surveys.

Junctions with H-6491 (1939) on the west and with H-6496 (1939) on north, east and south will be considered in the reviews of those surveys.

5. Comparison with Prior Surveys.

H-1485b (1881), 1:40,000.

Development on the present survey is about 100 times the intensity of that on H-1485b. The area is changeable and close agreement between surveys is not to be expected. However, differences do not exceed 5 feet. The present survey supersedes H-1485b in the common area.

6. Comparison with Chart 1286 (New Print of Nov. 3, 1939).

a. Hydrography.

Depths charted in the area covered by the present survey are from H-1485b, discussed in the preceding paragraph, and from frequent surveys by the U. S. Engineers. Controlling depth in the jetty channel was reported by the Engineers to be 31 feet as of June, 1939. This does not conflict with depths on the present survey.

b. Aids to Navigation.

The position of Lighted Buoy No. 2 on the survey is approximately 200 meters west of the charted position. Either position satisfactorily marks the channel.

7. Condition of Survey.

Satisfactory.

8. Compliance with Instructions for the Project.

Satisfactory.

9. Additional Field Work Recommended.

None.

10. Superseded Surveys.

H-1485b in part.

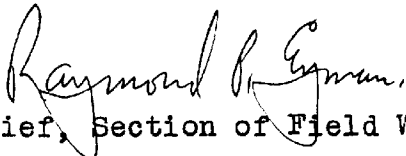
Examined and approved:



T. B. Reed,
Chief, Section of Field Records.



Chief, Division of Charts.



Chief, Section of Field Work.



Chief, Division of H. & T.

Applied to chart, 1288 - Nov. 1940 - J.H.S.

" " " 1117 " 1940 - J.H.S.

46493 Applied to Chart, 898 June 1969 M.C.W.