8693

Diag. Cht. No. 1282-2.

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. ECFP-10-5-62 Office No. H-8693

LOCALITY

State Texas

General locality Galveston Bay

Locality Dickinson Bay

1962

CHIEF OF PARTY

S. L. Hollis, Jr.

LIBRARY & ARCHIVES

DATE Feb. 11. 1963

USCOMM-DC 5087

8693

Form 537
(Ed. June 1946)

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER No. H-8693

Field No. ECFP 10-5-62

State TEXAS

General locality GALVESTON BAY

Locality DICKINSON BAY

Scale 1:10,000 Date of survey 25JUNE to 17 OCT. 1962

Instructions dated 211/pt, S-2-ECFP, DATED 25 APRIL 1962

Vessel SKIFF 758, LAUNCH CS-183

Chief of party LCDR. STEVEN L. HOLLIS, JR.

Surveyed by LT. (jg) HARRY W. FLOYD

Soundings taken by fathometer, graphic recorder, hand lead, ~~xxxx~~ SOUNDING POLE

Fathograms scaled by PARTY PERSONNEL

Fathograms checked by PARTY PERSONNEL

Protracted by LT. (jg) HARRY W. FLOYD & GEORGE L. FERNANDES

Soundings penciled by GEORGE L. FERNANDES (ECFP)

Soundings in ~~FATHOMS~~ feet at MLW ~~MKKW~~

REMARKS:

U. S. GOVERNMENT PRINTING OFFICE 16—66520-1

DESCRIPTIVE REPORT
TO ACCOMPANY HYDROGRAPHIC SURVEY H-8693
(Field No. ECFP 10-5-62)
Project OPR-428

SCALE: 1:10,000 EAST COAST FIELD PARTY

CHIEF OF PARTY: LCDR. STEVEN L. HOLLIS, JR.

* *

A. PROJECT

Work on Project OPR-428 was executed in accordance with Instructions 211/pt, S-2-ECFP, dated 25 April 1962.

B. AREA SURVEYED

The area covered by this survey includes Dickinson Bay, Dickinson Bayou, Moses Lake, Dollar Bay and tributaries. The boundaries of this survey are between latitudes 29°24'50" and 29°28'40" (29°00"), and between longitudes 94°51'45" (10") and 94°59'50".

Work on this survey began 25 June 1962 and was completed on 17 October 1962.

This survey makes junction with contemporary survey H-8695 (ECFP 12.5-1-62) on the north. The area east and south of this survey will be surveyed in 1963 by the East Coast Field Party.

Prior Survey H-5394, scale 1:20,000, 1933-34, covers the entire area of this survey.

C. SOUNDING VESSELS

Skiff 758 was used throughout this survey except for one day when Launch CS-183 was used. The following colors were used:

Skiff 758	Red
Launch CS-183	Violet

D. SOUNDING EQUIPMENT

808J Fathometers nos. 113s, 154 and 57-34 were used on Skiff 758. Fathometer no. 113s was used on "a" day thru "g"

D. SOUNDING EQUIPMENT (Cont.)

day, Fathometer no. 15.4 was used on "h" day thru "u" day, and Fathometer no. 57-34 was used on "v" day thru "x" day. A 12 foot sounding pole was used to obtain all soundings less than 3 feet.

The EDOc, no. 13, Depth Recorder was used on Launch CS-183. A 12 foot sounding pole was used to obtain soundings less than 6 feet.

All echo sounding corrections were obtained by daily bar checks and/or simultaneous comparisons.

No unusual difficulties were encountered with the Depth Recorders.

E. SMOOTH SHEET

The smooth sheet projection was made in the Washington Office with the projection ruling machine.

This survey was smooth plotted by the East Coast Field Party.

F. CONTROL

Horizontal Control was obtained by standard visual three-point fix methods, as described in the Hydrographic Manual.

Photo-hydro signals were transferred from Advance Manuscripts T-9799, T-9800, T-9801 and T-9802.

Triangulation dated 1962 was performed by Photo Party 721 and the East Coast Field Party.

Appendix A of this report contains a complete list of control used and the quality and source of control.

G. SHORELINE

The shoreline was transferred from Advance Manuscripts T-9799 and T-9800 dated November 1961, and T-9801 and T-9802 dated April 1962, using standard methods. All shoreline and alongshore features were verified.

Shoreline changes noted by the hydrographer at April Fool Point and at Miller Point are shown in red on the smooth sheet.
Shoreline under constant change due to levee construction.

G. SHORELINE (Cont.)

Also, some new piers between April Fool Point and Eagle Point are shown in red. These changes among the piers were made by Photo Party 721, and are also shown in red on Advance Manuscript T-9800.

H. CROSSLINES

Crosslines were run to the extent of approximately 10 percent of the regular system of sounding lines. Favorable crossings were found.

I. JUNCTIONS

The depths at the junction of the survey listed in Section B are in good agreement and the depth curves can be adequately drawn.

J. COMPARISON WITH PRIOR SURVEYS

There are nine presurvey review items on this sheet.

Presurvey review item E-1 is a post at latitude 29°27'14", longitude 94°55'19". This item was investigated with a modified sweep on "k" day, with negative results. It is recommended this item be deleted from the chart. pos. 14-24 "k" locate subm. obj, etc. see chart 519 ← Subm Pile found

Presurvey review item E-2 is a pile, baring 14 feet at MHW, at latitude 29°27'25", longitude 94°54'58". This item was investigated with a modified sweep on "l" day, with negative results. It is recommended this item be deleted from the chart.

Presurvey review item E-3 is an iron pipe, not smooth plotted baring 5 feet at MHW, at latitude 29°26'35", longitude 94°54'02". This item was investigated with a modified sweep on 13-21 "l" day, with negative results. It is recommended this item be deleted from the chart.

Presurvey review item E-4 is an iron pipe, 52'28" baring 2 feet at MHW, at latitude 29°26'30", longitude 94°~~27'52~~". This item was investigated with a modified sweep on "m" day. This pipe is now submerged. It is located by a detached position, pos. 51, "m" day. A least depth of 3 feet was found. It is recommended this item be retained on the chart. Charts 518, 519

Presurvey review item E-5 is a pipe at latitude 29°26'06", not smooth plotted longitude 94°53'04". This item was investigated with a modified sweep on 27-45 "l" day, with negative results. It is recommended this item be deleted from the chart.

Presurvey review item E-6 is a pipe at latitude 29°26'03", longitude 94°53'08". This item was investigated with a modified sweep on 27-45 "l" day, with negative results. It is recommended this not smooth plotted

J. COMPARISON WITH PRIOR SURVEYS

item be deleted from the chart.

Presurvey review item E-7 is a sunken wreck at latitude 29°25'05", longitude 94°52'45". This item was investigated with a modified sweep on "l" day and "m" day. This item is located by a detached position, pos. 29, "m" day. A least depth of 4 feet was found. This wreck is now broken up and is not considered a danger to navigation, but it is recommended this wreck be retained on the chart. *Chart 518*

Presurvey review item 35 (items E-8 and E-9) are two pipeline markers, "A" and "B". These two pipeline markers were found to be out of their charted positions. Pipeline Marker "A" is located on pos. 53, "b" day. Its present position is at latitude 29°26.49', longitude 94°52.76', and is shown as hydrographic signal ~~CAE~~ MAC on the sheet. Pipeline Marker "B" is located on pos. 52, "b" day. Its present position is at latitude 29°26.83', longitude 94°52.34', and is shown as hydrographic signal ~~MAC~~ CAL on the sheet.

This survey is in good agreement with U. S. Corps of Engineers survey sheets nos. 25 and 26, dated July-October 1962, scale 1:10,000. Bp. 63,343 *Bp. 63,344* *Bp. 63,068*

A comparison was made with prior survey H-5394, scale 1:20,000, dated 1933. There is good general agreement between the contemporary survey and the prior survey, with the following exception:

There is a shoal in Moses Lake in the vicinity of latitude 29°25.8', longitude 94°55.8'. This shoal runs in a northeast-southwest direction and is approximately 600 meters long. A least depth of 0 feet was found. The prior survey and chart 1282 show depths of 2 feet in this area. *charted on 519*

K. COMPARISON WITH THE CHART

The examination of C&GS Chart 1282, 20th edition, 15 October 1962, scale 1:80,000 shows good agreement between the chart and the contemporary survey, except the following:

Shell Island, shown on the chart at latitude 29°27.1', longitude 94°55.5', is no longer in existance. The low water line extends out from the HWL at Miller Point to a point just southeast of the charted position of Shell Island.
Levee now separates Moses Lake from Dickinson Bay.

The depth of the channel to Dickinson Bayou is 8 to 10 feet. *The controlling depth of ~~Dickinson Bayou Channel~~ Dickinson Bayou channel was 6 feet MLW in 1963. (See Chart Letter 732 (1966)*

An oyster bed awash is located on pos. 62, "w" day, approximately 90 meters south of Dickinson Bayou channel at latitude 29°27.73', longitude 94°56.28'. *charted on 519*

K. COMPARISON WITH THE CHART (Cont.)

An oyster bed awash is located on pos. 63, "t" day, approximately 100 meters north of Dickinson Bayou channel at latitude 29°27.68', longitude 94°55.90'. *charted on 519*

L. ADEQUACY OF SURVEY

This survey is complete and is considered adequate to supercede prior surveys.

M. AIDS TO NAVIGATION

A separate report (form 567) on fixed aids to navigation, dated 24 July 1962, has been sent to the Washington Office by the East Coast Field Party.

The 1962 Light List correctly lists all aids to navigation. All aids adequately serve the purpose for which they were established.

The aids to navigation marking Dickinson Bayou Channel are located 20 to 50 meters outside the centerline of the channel and mariners not familar with this area should exercise caution.

On 20 July 1962 Felton's Fiesta Marina established the following private aids to navigation. All the markers listed below are single piles with a white reflector and baren 12 feet at MHW.

Marker No. 1	Lat.	29°27'38"
	Long.	94°55'29"
Marker No. 2	Lat.	29°27'41"
	Long.	94°55'41"
Marker No. 3	Lat.	29°27'44"
	Long.	94°55'54"
Marker No. 4	Lat.	29°27'48"
	Long.	94°55'56"

The private aids listed above align with can buoy "9" in Dickinson Bayou Channel to mark a channel leading to Felton's Fiesta Marina.

On the same date the following private aids to navigation were established to mark the entrance to the marina. The markers listed below are single piles baring 10 feet at MHW.

M. AIDS TO NAVIGATION (Cont.)

Lat. 29°28'44" Long. 94°56'20"	Red reflector tape
Lat. 29°28'44" Long. 94°56'21"	White reflector tape
Lat. 29°28'41" Long. 94°56'20"	Red reflector tape
Lat. 29°28'41" Long. 94°56'21"	White reflector tape
Lat. 29°28'38" Long. 94°56'20"	White reflector tape

Maintenance on all the above private aids to navigation is to be seasonal.

N. STATISTICS

Vessel	No. of Positions	Nautical Miles Of Soundings
Skiff 758	1655	209.9
Launch CS-183	90	16.3
Total	1745	226.2

Total Area of Survey - 18.0 square nautical miles

59 bottom samples were obtained on this survey.

One tide station was used for control of this survey. This was a portable automatic gage located at Eagle Point in San Leon, Texas.

For plane of reference of tide staff and the location of this gage, see Appendix C, "Tidal Note", of this report.

Submitted by,

George L. Fernandes

George L. Fernandes
Cartographer, C&GS

INDEX OF APPENDICES

APPENDIX A

LIST OF SIGNALS

TRIANGULATION STATIONS

BUB	-	Houston Ship Channel Light 48, 1962
DEB	-	Houston Ship Channel Light 50, 1962
DOLL	-	Dollar Point 2, 1960
FOOL	-	Fool, 1933-61
GUM	-	Houston Ship Channel Light 47, 1962
JAY	-	Dickinson Bayou Channel Light 2, 1962
PEG	-	Houston Ship Channel Light 49, 1962
PIN	-	Dickinson Bayou Channel Light 14, 1962
ROT	-	Red Fish Bar Outer Range Front Light, 1962

APPENDIX A (Cont.)

LIST OF SIGNALS

PHOTO-HYDRO SIGNALS

T-9799	T-9800	T-9801	T-9802
ABE IVY	BOX ODD	ACT FUN	BIG LIT
BUM KIM	DOG SAM	COO LOP	CAT LIZ
CAB MOW	EST SIC	ELF OWL	DIP MON
CUE MUM	GUL TOY	TAX	EGO OIL
CUR NAY	LEO VIA		FLY SIR
EAR NOR	MIL WEN		HOE SOL
EGG PAD	NUT WHY		ITS WIN
EVA PAL	YES		YAK
FAT PRO			
FEZ SOW			
FOG STY			
FOP TEX			
HOP USE			
IDA WEE			
IRK WIT			
ZIG			

HYDROGRAPHIC STATIONS

GAL RAT
MAC SIT

APPENDIX B

ABSTRACT OF CORRECTION TO ECHO SOUNDINGS

FATHOMETER DEPTH (ft.)	CORRECTION (ft.)
Skiff 758	
"a" day thru "g" day	
Fathometer 808J - 1138	
2.0 to 12.0	+0.4
12.1 to 14.0	+0.6
14.1 to 16.0	+0.8
16.1 to 21.0	+1.0
21.1 and deeper	+1.2
"h" day thru "p" day	
Fathometer 808J - 154	
All Depths	+0.4
"q" day thru "u" day	
Fathometer 808J - 154	
2.0 to 12.0	+0.4
12.1 to 14.0	+0.6
14.1 to 16.0	+0.8
16.1 to 21.0	+1.0
21.1 and deeper	+1.2
"v" day thru "x" day	
Fathometer 808J - 57-34	
All Depths	0.0
Launch CS-183	
"a" day	
Depth Recorder EDO 255c-13	
3.0 to 16.0	-0.4
16.1 to 20.0	-0.2
20.1 and deeper	0.0

APPENDIX C

TIDAL NOTE

GAGE LOCATION:	Eagle Point, San Leon, Texas Latitude 29°29.80' Longitude 94°54.71'
GAGE TYPE:	Portable Automatic
STAFF:	Mean Low Water corresponds to 2.2 feet on the staff.
CORRECTION:	No height correction was applied to the results obtained from the gage in reducing soundings. No time correction was applied in reducing soundings north of latitude 29°27', but south of this latitude a time correction of -1.5 hours was applied.

The 90th meridian time was used at this tide station.

APPENDIX D

APPROVAL SHEET TO ACCOMPANY

Hydrographic Sheet H-8693 (ECFP 10-5-62)

Project OPR-428

were ~~was~~ The records, corrections and all field and office work supervised by LCDR. Steven L. Hollis, Jr.

The boat sheet and records were inspected at least once a week by LCDR. Steven L. Hollis, Jr.

The descriptive report was written by Lt. (jg) Harry W. Floyd and George L. Fernandes.

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

Approved and forwarded,

Pentti A. Stark

Pentti A. Stark
LCDR. C&GS
Officer-in-Charge

FORM CD-121 (9-22-59)
(PRES. BY A.O. 206-10)

UNITED STATES GOVERNMENT

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

53

Memorandum

In reply refer to: (1963)
2221-20-13e

TO : Chief, Nautical Chart Division

DATE: January 25, 1963

FROM : Chief, Marine Data Division

SUBJECT: New Charts 518 and 519, Galveston Bay, Texas

Submitted is information for use in the office and not for publication or release to the general public.

Low water datum of the Corps of Engineers is 1.2 feet lower than the present C&GS low water datum (1941--59). Add 1.2 feet to the soundings on the Engineers' surveys to refer them to our present datum.

C&GS low water datum of the 1933--36 hydrographic surveys is 0.4 foot lower than the present C&GS low water datum (1941--59). Add 0.4 foot to the soundings on C&GS 1933--36 surveys to refer them to our present datum.

Kenneth S. Ulm

Charts
Ad 12/11/63 Hdrws 518
Applied 6/25/64 519
1282
No. Corr. 9-29-64 C.J.K. 152-B

Note: Above Morgan Pt: Accept C of E soundings and depth legends on channel surveys as given - make no correction to them before application to charts, except as necessary to bring them into agreement with our modern field hydro. HPS 6/6/63

(Tides Branch states C&GS has not observed tidal data in Houston Ship Channel above Morgan Pt - Tabbs Bay. They recommend above treatment.)

In Galveston Bay South of Morgan Pt. Reference
1. Accept CE datum for channel legends, tabulations, and sdgs adjacent to channel in channel surveys. 2. Apply the 1.2 ft correction to CE area surveys except in charted dredged channels, to bring them into agreement with modern C&GS datum. HPS

53

JAN 28 1963

October 1963

TEXAS

The difference between sea-level datum of 1929 (SLD) and mean low water (MLW) for each location where the tidal bench marks and the geodetic bench marks of the precise level net have been connected by spirit levels is given below:

Bench mark elevations above sea-level datum of 1929 may be obtained by applying the tabular difference to the published elevations above mean low water, subtracting the difference when positive and adding the difference when negative.

INDEX MAP NUMBER	LOCALITY	SLD-MLW FEET
2	Sabine Pass (U. S. Coast Guard Station)	0.76
4	Galveston (Pleasure Pier)	0.99
5	Galveston, Galveston Channel	0.52
6	Port Bolivar, Bolivar Peninsula	0.59
7	Rollover-Gilchrist, East Bay, Bolivar Peninsula	0.09
9	Round Point, Trinity Bay, Galveston Bay	-0.21
12	Morgan Point, Galveston Bay	-0.09
13	Clear Lake, Harris County Park	-0.63
14	Eagle Point, Galveston Bay	0.06
15	Causeway, East End of West Bay, Galveston Bay	0.50
16	Carancahua Reef, West Bay, Galveston Bay	-0.17
17	San Luis Pass, West Bay, Galveston Bay	0.56
18	Freeport Harbor	0.75
19	Port O'Connor, Matagorda Bay	-0.51
21	Camp Hulen (West of Palacios), Trespalacios Bay	-0.35
22	El Campo Club, Carancahua Bay	-0.40
23	Port Lavaca and Lavaca Causeway, Lavaca Bay	-0.44
24	Port Aransas (U. S. Engineer Wharf), North End of Mustang Island	0.51
25	Aransas Pass, Redfish Bay	-0.17
26	Rockport, Aransas Bay	-0.62
28	Corpus Christi, Corpus Christi Bay	-0.32
29	Nueces Bay	-0.42
31	Padre Island (South End)	0.93
32	Port Isabel, Laguna Madre	0.79

USCOMM-CGS-DC

MAY 1964
PUBLISHED AND PRINTED BY:
U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
WASHINGTON D.C.

HORIZONTAL CONTROL DATA

by the
Coast and Geodetic Survey
NORTH AMERICAN 1927 DATUM

TEXAS VOL VI PAGE 1197

QUAD 290943 STATION 1069,1070
TEXAS
LATITUDE 29°00' TO 29°30'
LONGITUDE 94°30' TO 95°00'
DIAGRAM NO 15-7 HOUSTON

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: DICKINSON BAYOU CHANNEL LT 2 YEAR: 1963

STATE: Texas LOCALITY: Galveston Bay Channel Lights

Third-ORDER Triangulation SOURCE: G-13298 FIELD SKETCH: Texas 170

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH (FOR Δα) ANGLE	MARK
STATE: Texas ZONE: SC CODE: 4204	x 3,305,296.79 y 615,251.54	+ 2 00 36	
STATE: ZONE: CODE:	x y		

GEODETIC DATA	POSITION		SECONDS IN METERS	ELEVATION
	LATITUDE: 29° 27' 45".058	NORTH	1387.3	METERS
	LONGITUDE: 94 53 49.820	WEST	1342.4	FEET

TO STATION	GEODETIC AZIMUTH (From south)	DISTANCE (Meters)
STATION COMPUTED FROM: EAGLE POINT, WEST PASS, DOLLAR POINT 2		

Form 525b (11-8-55) U.S. DEPARTMENT OF COMMERCE - COAST AND GEODETIC SURVEY

DESCRIPTION OF TRIANGULATION INTERSECTION STATION

NAME OF STATION: DICKINSON BAYOU CHANNEL LIGHT 2

CHIEF OF PARTY: George E. Verrendoe YEAR: 1963 STATE: Texas COUNTY: Galveston

Description, including sketch of object:

Located in the central part of Galveston Bay, at the mouth of Dickinson Bayou, about midway between Dollar Point and Eagle Point, on the north side of the channel. The light atop a red box on a Dolphin. The light was observed on. No. 7642 in the 1962 Light List.

Described by George E. Verrendoe

Coast-DC 34313

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: DICKINSON BAYOU CHANNEL LT 14 YEAR: 1963

STATE: Texas LOCALITY: Galveston Bay Channel Lights

Third-ORDER Triangulation SOURCE: G-13298 FIELD SKETCH: Texas 170

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH (FOR Δα) ANGLE	MARK
STATE: Texas ZONE: SC CODE: 4204	x 3,297,800.23 y 612,900.45	+ 1 59 54	
STATE: ZONE: CODE:	x y		

GEODETIC DATA	POSITION		SECONDS IN METERS	ELEVATION
	LATITUDE: 29° 27' 24".389	NORTH	750.9	METERS
	LONGITUDE: 94 55 15.505	WEST	417.8	FEET

TO STATION	GEODETIC AZIMUTH (From south)	DISTANCE (Meters)
STATION COMPUTED FROM: EAGLE POINT, WEST PASS, DOLLAR POINT 2		

Form 525b (11-8-55) U.S. DEPARTMENT OF COMMERCE - COAST AND GEODETIC SURVEY

DESCRIPTION OF TRIANGULATION INTERSECTION STATION

NAME OF STATION: DICKINSON BAYOU CHANNEL LIGHT 14

CHIEF OF PARTY: George E. Verrendoe YEAR: 1963 STATE: Texas COUNTY: Galveston

Description, including sketch of object:

Located in the central part of Galveston Bay, at the mouth of Dickinson Bayou about 0.6 mile north of Miller point, on the north side of the channel. The light atop a red box on a dolphin. The light was observed on. No. 7643 in the 1962 Light List.

Described by George E. Verrendoe

Coast-DC 34313

FORM 197
(3-16-55)

GEOGRAPHIC NAMES

Survey No. H-8693

Name on Survey	A: On Chart No. 1285	B: On previous survey No.	C: On U. S. quadrangle Maps	D: From local information	E: On local Maps	F: P. O. Guide or Map	G: Rand McNally Atlas	H: U. S. Light List	K: BGN	
April Fool Point	x									1
Dickinson Bay	x									2
Dickinson Bayou	x									3
Dollar Bay	x									4
Dollar Point	x								x	5
Edwards Point	x								x	6
Galveston Bay	x									7
Miller Point	x									8
Moses Bayou	x									9
Moses Lake	x									10
Salt Bayou				x						11
Salt Lake				x						12
Shell Point				x						13
Silo Bayou				x						14
Windmill Bayou				x						15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Geographic Names Section
25 February 1963

RHC

FORM C&GS-712
(4-62)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

TIDE NOTE FOR HYDROGRAPHIC SHEET

4/8/63

Nautical Chart Division: R. H. Carstens

Plane of reference approved in
10 volumes of sounding records for

HYDROGRAPHIC SHEET 8693

Locality Dickinson Bay, Texas

Chief of Party: S. L. Hollis Jr. (1962)

Plane of reference is Mean low water, reading

2.2 ft. on tide staff at Eagle Point

11.5 ft. below B. M. 1 (Eagle Point 1932)

Height of mean high water above plane of reference is: 0.9 ft.

Condition of records satisfactory except as noted below:

J. M. Symons
Chief, Tides and Currents Branch

USCOMM-DC 16543-P62

Form 946

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. 8693

Records accompanying survey: Smooth sheets 1;
boat sheets ~~2~~; sounding vols. 10; wire drag vols. ;
Descriptive Reports 1; graphic recorder envelopes 9;
special reports, etc. .....
.....

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

		verifier	reviewer
Number of positions on sheet		1745	
Number of positions checked		175	12
Number of positions revised (Positions accepted from H-8693)		0	3 on T-9800 1 on T-9799
Number of soundings revised (refers to depth only)		1	
Number of soundings erroneously spaced		0	
Number of signals erroneously plotted or transferred		0	
Topographic details	Time	2	4 hrs.
Junctions	Time	0	2 hrs.
Verification of soundings from graphic record	Time	16	1 hr.
Special adjustments (Photogrammetry changing signal POS. on T-sheets)	Time	0	

Verification by Theresa Anne Ware Total time 192 (Started) 3/17/66 (Finished) Date 4/21/66

Reviewed by S. Rose Time 96 hrs. Date 7-5-'66

US COMM C&GS DC

H-8693 (1962)

Items for Future Pre-Survey Reviews

The bottom in the area of the present survey appears to be relatively stable except in localized areas and also where man-made changes are taking place. Dredging, spoiling, and filling are actively changing the area with time.

Position index Lat. 292, Long. 0950
Bottom change index 3
Use Index 9
Resurvey cycle 25 yrs.

OFFICE OF MARINE SURVEYS AND MAPS

MARINE CHART DIVISION

HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO. H-8693 FIELD NO. ECFP-10-5-62

Texas, Galveston Bay, Dickinson Bay

SURVEYED: June 25, 1962 through October 17, 1962

SCALE: 1:10,000 PROJECT NO.: OPR-428

SOUNDINGS: 808 and EDO Depth Recorders, Sounding Pole CONTROL: Sextant fixes on shore signals

Chief of Party	S.L. Hollis, Jr.
Surveyed by	H.W. Floyd
Protracted by	H.W. Floyd
	G.L. Fernandes
Soundings Plotted by	G.L. Fernandes
Verified and Inked by	T.A. Ware
Reviewed by	S. Rose
	Date: July 5, 1966
Inspected by	D.E. Westbrook

1. Description of the Area

This survey covers Dollar Bay, Moses Lake, Dickinson Bayou, Dickinson Bay, and extends eastward into Galveston Bay to the Houston Ship Channel. The bottom slopes gently from April Fool Point and Dollar Point eastward to depths of 10-ft. at the edge of the Houston Channel. Dickinson Bayou Channel bisects the survey from east to west. Channels and pipeline areas are well marked. Changes in the shoreline often occur due to dredging of new channels and extensive levee construction.

2. Control and Shoreline

The source of the control is adequately described in the Descriptive Report. The shoreline originates with Photogrammetric Manuscripts T-9799(1960-62), T-9800 (1960-62), T-9801 (1960-62), and T-9802 (1960-62). These manuscripts contain a note that they were reviewed in 1964. However, the Division of Photogrammetry has advised that additional review of these surveys is necessary. Two islets shown on T-9800, one in lat. 29°28.22', long. 94°55.52' and the other in lat. 29°28.26', long. 94°55.56' were described as nonexistent by the hydrographer (pos. 3, 4, and 6 U-day) and are not shown on the present survey.

3. Hydrography

A. Depths at sounding line crossings are in good agreement.

B. The usual depth curves were adequately delineated. The zero depth curve was only partially surveyed because of the shallow foreshore and small tidal range.

C. The development of the bottom configuration and the investigation of least depths are considered adequate.

4. Condition of the Survey

The field plotting, sounding records, and the Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual.

5. Junctions

Adequate junctions were effected with H-8695 (1962) on the north and east. The junction with H8745 (1963-65) on the south and east will be discussed in the review of that survey.

6. Comparison with Prior Surveys

A. H-324 (1852), 1:20,000

A comparison with this prior survey was made in the review of H-5394 (1933-34), thus it need not be discussed here.

B. H-5394 (1933-34), 1:20,000

A comparison between this prior survey and the present survey indicates that the bottom in the area of the present survey has remained relatively stable for over a century, except for dredging and spoiling.

Recent levee construction has changed the shoreline considerably between Miller Point and Shell Point. April Fool Point changed considerably between the 1852 and the 1933 surveys, however, it has held relatively stable since 1933. The present survey shows several marinas and a dredged channel through Dickinson Bay and Dickinson Bayou, which did not exist at the time of the prior survey.

The present survey adequately supersedes this prior survey within the common area.

7. Comparison with Chart 518, 2d Ed., Nov. 29, 1965
Chart 519, 1st Ed., Jan. 3, 1966
Chart 1282, 24th Ed., Apr. 18, 1966

A. Hydrography

The charted hydrography originates with the boat sheet and unverified smooth sheet of the present survey supplemented by information from the U.S. Corps of Engineers and Notices to Mariners.

Attention is directed to the following:

1. The levee under construction on chart 519 in lat. 29° 26.9', long. 94°55.5' and the large disposal area immediately to the northward originate with 1965 Corps of Engineers Bp 67406 subsequent to the date of the present survey and should be retained on the chart.

519 OK Off.
518 OK
152-3C OK BSM

2. The sunken wreck on chart 519 in lat. 29°27.40', long. 94°54.67' originates with Notice to Mariners No. 33 of 1964 subsequent to the date of the present survey and should be retained on the chart.

519 OK Off
518 OK
152-3C Page B and C OK BSM

3. The sunken wreck on chart 519 in lat. 29°27.26', long. 94°55.35' originates with the boat sheet of the present survey. The survey records state that only the keel of the wreck remains and a least depth of 3-ft. was recorded. The sunken wreck symbol should be replaced by a 3-ft. sounding and note Wk as shown on the present survey.

519 appd Off
152 Appd BSM
B+C

4. The sign on chart 519 in lat. 29°27.45', long. 94°55.98' apparently originates with the advance manuscript of T-9800 (1960-62). A later version of T-9800 shows the sign to be submerged, and the present survey reflects this information. The feature should be charted as a submerged pile.

519 appd Off
152 B+C Appd BSM

5. The Subm. pile on chart 519 in lat. 29°27.83', long. 94° 56.27' was originally charted as a pile bare at MHW from the present survey. Chart letter no. 1333 of 1965 from the U.S. Power Squadrons states that the pile could not be seen and, from that information it was subsequently charted as a submerged pile. This feature should remain charted as a submerged pile.

519 OK Off.
152 B+C OK BSM

6. The two pipeline markers on chart 518, Marker "A" in lat. 29°26.82', long. 94°52.33', and Marker "B" in lat. 29°26.49', long. 94°52.78 are labeled in reverse. The southwesterly marker should be labeled "A", and the northeasterly marker labeled "B" as shown on the present survey.

518 No correct Off.
519 No corr BSM
152 B+C No Corr BSM

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

B. Controlling Depths

The controlling depth in Dickinson Bayou was 6-ft. for a width of 60-ft. in April 1965 according to a note on chart 519 from chart letter no. 732 of 1966 subsequent to the date of the present survey.

C. Aids to Navigation

The aids to navigation in the area of the present survey are in substantial agreement with their charted positions and adequately mark the features intended.

Dickinson Bayou Channel Light "A" and Light "B" on chart 519 in the vicinity of lat. 29°27.6', long. 94°55.7' were established through Notice to Mariners No. 6 of 1966 subsequent to the date of the present survey.

8. Compliance with Instructions

This survey adequately complies with the Project Instructions

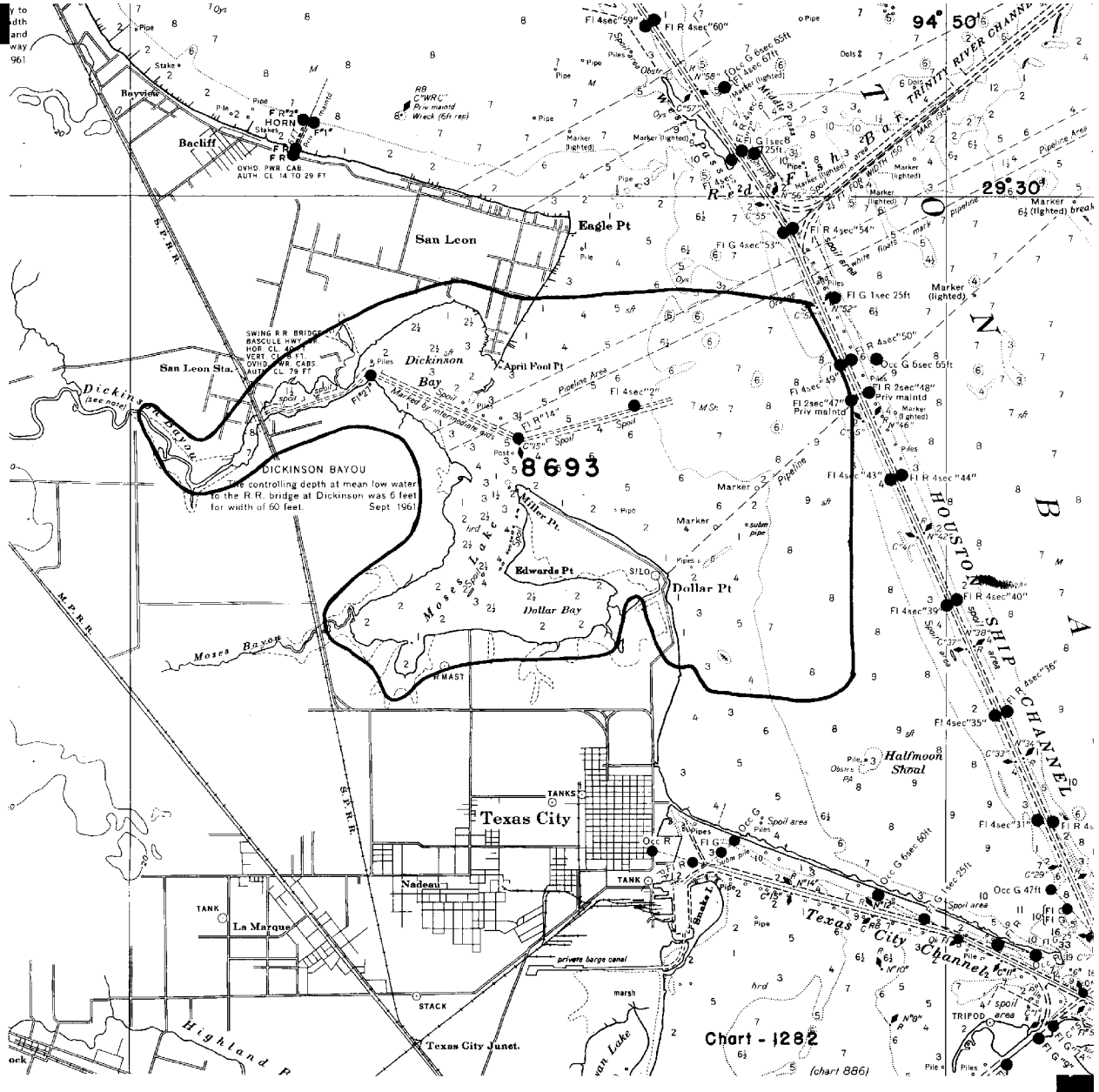
9. Additional Field Work

This is an excellent basic survey and no additional field work is recommended.

Examined and Approved:

Chief
Marine Chart Division

for Associate Director
Office of Marine Surveys and Maps


94° 50'
29° 30'
Bacliff
Bayview
San Leon
Eagle Pt
San Leon Sta.
Dickinson Bay
April Fool Pt
Dickinson Bayou
DICKINSON BAYOU
The controlling depth at mean low water to the R.R. bridge at Dickinson was 6 feet for width of 60 feet. Sept. 1961
8693
Miller Pt.
Edwards Pt
Dollar Pt
Dollar Bay
Moses Lake
Moses Bayou
Halfmoon Shoal
Texas City
Nadeau
La Marque
Texas City Junct.
Texas City Channel
HOUSTON SHIP CHANNEL
TRINITY RIVER CHANNEL
Chart - 1282
(chart 886)

NAUTICAL CHARTS BRANCH

SURVEY NO. H-8693

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
5-17-63	1282	John P. Weis	Before ~~After~~ Verification and Review Part Applied critical corrections only (Area 3 E) (Inspected 2/21/73) DH
9/5/63	518	C Helwer	Before ~~After~~ Verification and Review Fully appd
6/25/64	519	H. Quinby	Before ~~After~~ Verification and Review Fully applied.
5-22-64	152-13	D.J. Kennon	" " " " Partially applied
9-17-64	152-B	C. Kupiec	Before ~~After~~ Verification and Review Partially Applied
8/14/73 12-12-72 ajs	519	D. Williams	~~Before~~ After Verification and Review Inspected Fully Applied to Dwg #10
8/14/73 2/17/73 ajs	152-SC	S. Martof	~~Before~~ After Verification and Review 2nd Inspection Fully Applied to Dwg #11 B and C
12-12-72 8/14/73 ajs	518	D. Williams	~~Before~~ After Verification and Review, Inspected Fully Applied to Dwg #11
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

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