AAOS	FORM	76-35
	(3-76)	

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Map No.	Edition No.
TP-00228	L1
Job No.	,
CM-7702	_ <u></u>
Map Classification	
FINAL, FIELD EDITED MAP	
SHORELINE	
LOCALITY	Y
State	
TEXAS	
General Locality	
SABINE PASS TO PASS COVEL	LO
Locality	
CALVESTON ISLAND EAST BEA	CH
<u> </u>	
19 77 TO 19	7 79
REGISTRY IN AR	CHIVES
DATE	

*U.S. GOVERNMENT PRINTING OFFICE:1976-669:248

		- I OF O
NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TP- 00228
	ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS FINAL
	REVISED	JOB РН СМ-7702
PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP EDITION
Coastal Mapping Division	TYPE OF SURVEY	JOB PH-
Atlantic Marine Center, Norfolk, VA	ORIGINAL	MAP CLASS
OFFICER-IN-CHARGE	RESURVEY	SURVEY DATES:
Roy K. Matsushige	REVISED	19TO 19
I. INSTRUCTIONS DATED		
1. OFFICE	2.	FIELD
Aerotriangulation May 10, 1977 Aerotriangulation Oct. 03, 1977 Compilation Feb. 17, 1978 Amendment I Mar. 13, 1978	Premarking	Feb. 3, 1977
		, , , , , , , , , , , , , , , , , , ,
II. DATUMS	OTHER (Secretary)	
I. HORIZONTAL: The 1927 NORTH AMERICAN	OTHER (Specify)	
MEAN HIGH-WATER MEAN LOW-WATER MEAN LOWER LOW-WATER	OTHER (Specity) Gulf Coast Low Wat	er Datum
MEAN SEA LEVEL 3. MAP PROJECTION		
	STATE 4.	GRID(S)
Lambert Conformal Conic	Texas	South Central
1:20,000	STATE	ZONE
III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY	R. Kelly	Mar 1978
METHOD: Analytic LANDMARKS AND AIDS BY	None	
	S. Solbeck	Feb 1978
	S. Solbeck	Feb 1978
	R. Kravitz L. Neterer	July 1978
11111 D 0	NA Neterer	July 1978
1.15 000	NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	J. Roderick	July 1978
CHECKED BY	L. O. Neterer, Jr.	July 1978
METHOD: SHOOTH Fraited and Graphic	NA NA	
SCALE: 1:20,000 HYDRO SUPPORT DATA BY	NA NA	
	L. Neterer	July 1978
	I. Perkinson	Sept. 1979
	C. Blood	Jan 1980 Jan 1980
8. FINAL REVIEW BY	J. Hancock	Dec. 1980
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	J. Hancock	Feb. 1981
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	R. KELLY	JUNE 1981
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	KI i woeke	OCT 1981
NOAA FORM 76-36A SUPERSEDES FORM C&GS 181 SERIES		

NOAA	FORM	76-36B

(3-72)

U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY

TP-00228

1. COMPILATION PH	OTOGRAPHY							· · · · · · · · · · · · · · · · · · ·
Wild R.C.	8"E and	GTHS 88.47m R.C. 10"C	m TYPE	S OF PHO	TOGRAPHY ND		TIME REFE	RENCE
TIDE STAGE REFERE		· · · <u>· · · · · · · · · · · · · · · · </u>	(0) 60	LOR		ZONE		
PREDICTED TIDE		1. 1		NCHROMA	ATIC		ntral	ZST ANDARI
TREFERENCE STATE			1	RARED		MERIC		DAYLIGHT
<u> </u>				7	<u> </u>	90		
NUMBER AND	TYPE	DATE		(CST)	SCALE	 -	STAGE OF	TIDE
77C(I)2564-2. 77E(P)9599-9 Alternate ph	609* otos *	Mar 7,197 Mar 7,197	3		1:40,000 1:30,000	1.4	Mean Low 4 ft. abov	re MLW
Alternate ev	en number	s f ^				Kai	nge of Tid	ie=2.0 It.
				- 1				
				1				
		1	Į			1		
DEMARKS.							·	
There is no photo hydro	tide coord support i	dinated M.H s not requi	.W. infra red.	red ph	otography	for t	nis projec	t, and
2. SOURCE OF MEAN	HIGH-WATER	LINE:						
≿ The mean h	ich water	line was c	omniled f	rom th	ie above 1	isted :	combilatic	
* The mean h	igh water	line was c	ompiled f	rom th	e above l	isted (comp11at10	
					e above l	isted (
photography.	YŁOW-WATER Low water	OR MEAN LOWER	c LOW-WATER	LINE: raphic	ally from			
photography. 3. SOURCE OF MEAN ** The mean (YŁOW-WATER Low water	OR MEAN LOWER	c LOW-WATER	LINE: raphic	ally from			
photography. 3. SOURCE OF MEAN ** The mean (N LOW-WATER Low water ated infr	OR MEAN LOWER line was c ared low wa	ompiled g	LINE: raphic graphy	ally from	the al	oove liste	ed
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3. SOURCE OF MEAN ** The mean : tide coordina 4. CONTEMPORARY SURVEY NUMBER	N ŁOW-WATER Low water ated infra HYDROGRAPH DATE(5)	OR MEAN LOWER line was c ared low wa	ompiled g ter photo	LINE: raphic graphy	ally from	the al	nove liste	ed intermation.)
photography. 3. SOURCE OF MEAN ** The mean (tide coording)	N LOW-WATER Low water ated infr. HYDROGRAPH DATE(S)	OR MEAN LOWER line was c ared low wa	ompiled g ter photo	LINE: raphic graphy	ally from	the al	nove liste	ed intermation.)
photography. 3. SOURCE OF MEAN ** The mean in tide coordinate 4. CONTEMPORARY SURVEY NUMBER 5. FINAL JUNCTION	N LOW-WATER Low water ated infr. HYDROGRAPH DATE(S)	OR MEAN LOWER line was cared low wa	ompiled g ter photo stonly those st	raphic graphy	ally from	the al	mmetric survey	intermation.) EY COPY USED

NOAA FORM 76-36C (3-72)		HIS	TP-00228	NATIONAL OCEA		DEPARTMEN MOSPHERIC NATIONAL	ADMINI	STRATIO
I. X FIELD INSPEC	TION OPER	ATION	FIEL	D EDIT OPERATION				
	OPE	ERATION			NAME			ATE
I. CHIEF OF FIELD	PARTY							1077
				R. Tibbetts			Feb.	1977 1977
3 HODIZONEAL CO	NTROL		RECOVERED BY	R. Tibbetts None			reb.	19//
2. HORIZONTAL CO	NIROL	DOF-MARKED	OR IDENTIFIED BY	D. F.			Feb	1977
			RECOVERED BY	None			,	
3. VERTICAL CONT	ROL		ESTABLISHED BY	None			_	
		PRE-MARKED	OR IDENTIFIED BY	None				
	RE	COVERED (Triang	ulation Stations) BY	None				
4. LANDMARKS AND		LOCATED	(Field Methods) BY	None				
AIDS TO NAVIGA	IION	***************************************	IDENTIFIED BY	None				
			IVESTIGATION					
5. GEOGRAPHIC NA INVESTIGATION	MES	COMPL	ETE BY IC NAMES ONLY					
,		<u> </u>	ESTIGATION					
6. PHOTO INSPECTI	ION			None				
7. BOUNDARIES AN			ON OF DETAILS BY OR IDENTIFIED BY	NA NA				-
II. SOURCE DATA		2011-21-21	<u> </u>	I NA	··			
1. HORIZONTAL CO	NTROL IDE	NTIFIED	· · · · · · · · · · · · · · · · · · ·	2. VERTICAL CO	TROL IDEN	TIFIED		
				NONE				
PHOTO NUMBER		STATION NA	мЕ	PHOTO NUMBER	STA	ATION DESIG	SNATIO	N
77E(P)9609	JACINTO,							
3. PHOTO NUMBERS	Clarificati	on of details)		·				
None								
4. LANDMARKS AND None	AIDS TO N	AVIGATION IDEN	TIFIED					
PHOTO NUMBER		OBJECT NA	<u></u> ме	PHOTO NUMBER		OBJECT N	AME	
5. GEOGRAPHIC NA	MES:	REPORT	X NONE	6. BOUNDARY AN	D 1 IMITS:	REPOR	T IX	NONE
7. SUPPLEMENTAL NO 8. OTHER FIELD RE	MAPS AND one ECORDS (Ske	PLANS) NOT list data submi	tted to the Geodesy D	ivision)			
1-form 76-5	3, 1-for	m 277 Tide	Observations,	1-form 76-52	2, Field	inspect	ion r	eport

	F FIELD	OPERATIONS		NATIONAL	OCEAN	RATIO SURVE
FIELD INSPECTION OPERATION	X FIELI	DEDIT OPERATION				
OPERATION			NAME		DAT	E
. CHIEF OF FIELD PARTY						
	VERED BY	P.B. WALBOL			<u>L4 AUG</u> L4 AUG	$\frac{197}{197}$
	LISHED BY	NONE	1		L4 AUG	131
PRE-MARKED OR IDEN		NONE				
RECO	VERED BY	NA				
. VERTICAL CONTROL ESTABL	LISHED BY	NA				
PRE-MARKED OR IDEN	TIFIED BY	NA	<u> </u>			
RECOVERED (Triangulation S	itationa) BY	P.B. WALBOL			14 AUG	
 LANDMARKS AND LOCATED (Field M AIDS TO NAVIGATION 	•	P. B. WALBO			L4 AUG	
TYPE OF INVESTIGA	TIFIED BY	P. B. WALBO	LT		14 <u>AUG</u>	197
GEOGRAPHIC NAMES COMPLETE						
INVESTIGATION SPECIFIC NAME	S ONLY					
X NO INVESTIGAT	ION					
PHOTO INSPECTION CLARIFICATION OF D	ETAILS BY	NA				
BOUNDARIES AND LIMITS SURVEYED OR IDEN	TIFIED BY	NA				
SOURCE DATA		A VERTICAL CO.	TDOL IDEA	ITIESED.		
. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CO	ALKOE IDEN	ITIFIED		
PHOTO NUMBER STATION NAME		PHOTO NUMBER	ş r	TATION DESIG	NATION	
						•
		j .				
		,				
PHOTO NUMBERS (Clarification of details)	 ;					
•						
Ratio 77E (P) 9606, 9608						
LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED			 -			
P.B. WALBOLT						
PHOTO NUMBER OBJECT NAME		PHOTO NUMBER		OBJECT NA	ME	
OBJECT HAME		PHOTO NOMBER		083201.147	IN E	
9E(P) 9608 1-Micro Tower 2-Building						
3-Building		ľ	}			
4-Light (Texas City Channe						
Outer Range Front						
5-Light (Houston Ship Char						
Outer Range Rear GEOGRAPHIC NAMES: REPORT		6. BOUNDARY AN	D I IMITE.	REPORT	ডিল ১	
SUPPLEMENTAL MAPS AND PLANS		U. DOUNDARY AN	G EIMIT G.	L WEFORT	X N	-176
2 chart sections A & B						
OTHER FIELD RECORDS (Sketch books, etc. DO NOT lis	t deta submit	ted to the Geodesv D	lyision)			
3 Forms 76-53; 7 Forms 76-72, 8 form				eld.		
edit report, Field Film ozalid.	, 0 - 00	, 2 lotins 70	J-,	- , .		•
VOLLAND						

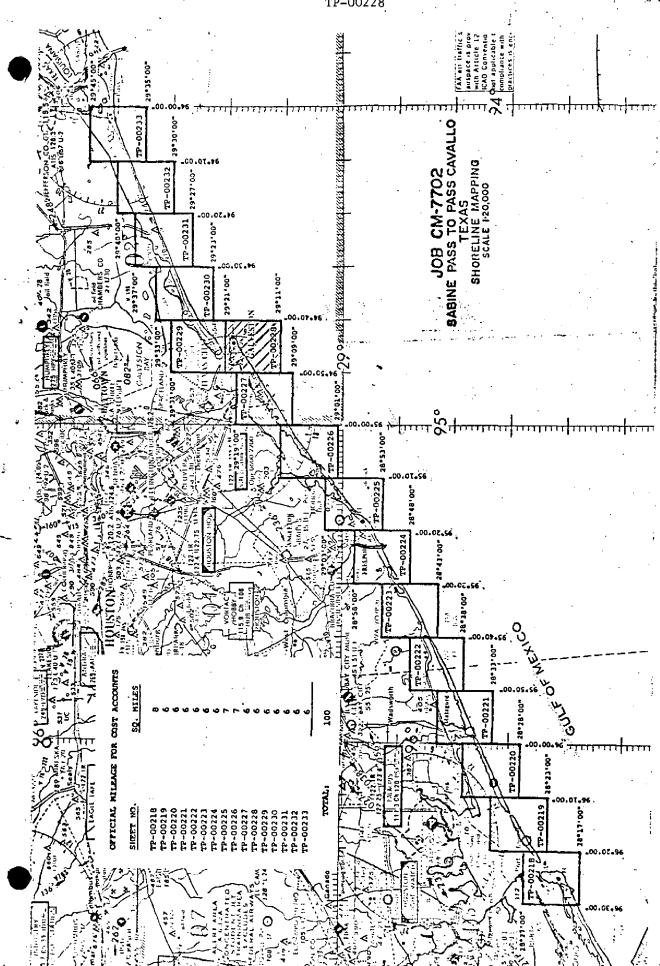
NOAA FORM 76-36D (3-72)

U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

TP-00228

RECO	RD O	F SUR	VEY USE

		RECO	RD OF SURVE	Y USE		
I. MANUSCRI	PT COPIES					
	Со	MPILATION STAGE	S		DATE MANUSCR	IPT FORWARDED
DA	TA COMPILED	DATE	RE	MARKS	MARINE CHARTS	HYDRO SUPPORT
	ion complete Field edit	July, 1978	Class III Supersede	đ	Aug 2, 1978	July 28,197
	it applied ion complete	Jan 1980	Class I		Feb 21, 198	Feb 13,1980
Correction review st	ons made at final tage	Nov. 1980	Class I (A	mended)	Nov 17, 198	•
Final Rev	view	Dec. 1980	Final Map		Feb 27,1981	
II. LANDMAF	RKS AND AIDS TO NAVIGA	TION	<u> </u>			<u> </u>
I. REPOR	RTS TO MARINE CHART D	VISION, NAUTICAL	DATA BRANCH			
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED			REMARKS	
3		Feb 13, 1980	Landmark	s for ch	arts. (Superseded)
1		Feb 13, 1980	Aids for	charts	(Superseded)	
ļ <u>. </u>						
6		Nov 17, 1980	Landmark	s for Cha	arts (Amended)	
1		Nov 17, 1980	Aids for	Charts	(Amended)	······································
					warded: <u>Feb 13/80, I</u> Fion. date forwarded:	
	L RECORDS CENTER DAT		, AERONAUTICAL	L DATA SECT	IION. DATE FORWARDED:	
2. \(\sum \) 3. \(\sum \) 3 50 A0	RIDGING PHOTOGRAPHS; ONTROL STATION IDENTI DURCE DATA (except for G CCOUNT FOR EXCEPTION ATA TO FEDERAL RECOR	FICATION CARDS; eographic Names Re IS:	FORM NOS	5 567 SUBMI	TYED BY FIELD PARTIES.	_
IV. SURVEY	EDITIONS (This section s			pedition is re		
SECOND	TP.	JOB NUMBE (2) PH -			TYPE OF SURVEY	SURVEY
EDITION	DATE OF PHOTOGRAPH			n.	MAP CLASS	FINAL
	SURVEY NUMBER	JOB NUMBE	R		TYPE OF SURVEY	
THIRD	TP	(3) PH			REVISED RE	SURVEY
EDITION	DATE OF PHOTOGRAPH	<u></u>		□n.	MAP CLASS	FINAL
	SURVEY NUMBER	JOB NUMBE	₹		TYPE OF SURVEY	
FOURTH	DATE OF PHOTOGRAPH		fin Fort			SÚRVÉY
EDITION	JA. L OF FILOTOGRAP	DATE OF FI	agy eyii	□	MAP CLASS	DFINAL



SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS

TP-00228

This 1:20,000 shoreline manuscript is one of 16 maps that comprise Project CM-7702 which covers an area from Sabine Pass to Pass Cavallo, Texas. Maps TP-00224 through TP-00233 were field edited and reviewed as Class I. Field edit was canceled via correspondance letter dated July 2, 1980 from the Chief, Photogrammetry Division for maps TP-00218 through TP-00223; these were reassigned to be reviewed and registered as Class III.

The purpose of these maps was to provide contemporary shoreline data in the support of hydrographic operations and to furnish data for nautical chart revision.

The contemporary hydrographic operation, K104-MI-78 & 79, consisted of six, 1:20,000 scale smoothsheets that were verified and registered at the time a final comparison with the shoreline maps was made. The hydrographic survey limits originated at Lat. 29°36', Long. 94°15' and extended Southwest to Lat. 29°09', Long. 95°02', excluding the inshore area of Galveston Bay Entrance, Bolivar Roads.

The field work prior to compilation was accomplished in March, 1977; this involved the establishment of horizontal and vertical control in order to meet aerotriangulation requirements. During this same period, tide observations were field recorded to assist in obtaining tide-coordinated low water photography.

Photo coverage for compilation and aerotriangulation was flown in March, 1977 with the "E" camera at a scale of 1:20,000 and 1:30,000 with panchromatic film. Tide-coordinated black and white infrared photography was taken at mean low water using the "C" camera at 1:40,000 scale.

Analytic aerotriangulation was adequately provided by the Washington Science Center.

Compilation was performed at the Atlantic Marine Center in July 1978, the field edit operation was completed in August 1979 and field edit data was applied in Jan. 1980.

Final review was performed at the Atlantic Marine Center in Dec. 1980. During this operation, amended data concerning Landmarks and Aids to Navigation for charts was processed and forwarded to the Nautical Data Section; this issue is further discussed in the Review Report.

The original base manuscript and all pertinent data were forwarded to the Washington Science Center for final registration. Tide coordinated photography for this project was taken March 7, 1977. Tidal datum depicted on this map is Mean Low Water. Reference should be noted in the National Ocean Survey Directive dated November 28, 1977, that Gulf Coast Low Water Datum is defined as Mean Lower Low Water when the type of tide is mixed and Mean Low Water when the type of tide is diurnal. This Directive is superseded by Federal Register/Vol. 45, No. 207/dated Thursday, October 23, 1980, which changes the name "Gulf Coast Low Water Datum" to "Mean Lower Low Water."

FIELD INSPECTION

TP-00228

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.

See attached report on paneling of control.

Job CM-7702

3. Assignment

In accordance with advanced copy of field instructions, Job CM-7702 dated 1/24/77; Shoreline Mapping: Sabine Pass to Pass Cauallo, Texas was accomplished during February - March, 1977.

Horizontal Control

Recovery of horizontal control was limited to those stations needed to meet aerotriangulation requirements; recovery notes have been submitted for only those stations.

All station requirements as per control diagram were met except Circle Nos. 1; 6; 7; 16 and 18.

Circle No. 1. Could not be placed at the south end of the island as indicated on project diagram due to the unstable condition of the point. It was moved approximately three quarters mile northeast of indicated site, however, in the process of determining a position of this panel, a three point fix was taken on the south side of Pass Cavallo on a large concrete platform. The Fix Point (SAL, 1977) was premarked with array No. 3. Station BM 754 (USE) 1934 could not be recovered. A traverse was run from STATON PIERCE, 1931. Obstruction at the panel site made it impossible to turn through the panel site, so TP-03 is the home station for Circle No. 6.

Station BM 692 (USE) 1932 could not be recovered. A traverse was run from STATION McNEEL, 1854 to Panel site. Both traverses were double run.

Permission could not be obtained to place a panel at STATION LONE, 1934. Permission was received from Mr. Van Scoy of Rockville, Maryland to move the panel to SABINE PASS, Southwest Base, 1874. STATION TURN, 1934 was also photo-identified.

6. Premarking of Control

All stations were marked as reported on control station identification card (Form 152).

8. Tide Observations and Records for Tide-Coordinated Photography Level connection was made to BM 43, 1957; BM 44, 1957 and BM E 168, 1936, before photography and BM 43, 1957 after photography, and was recorded on NOAA Form 76-77. Tape readings were recorded on Form 277 (NOAA 77-53).

13. Report

The field party was instructed by CAM513 to forward data through AMC.

Submitted by,

Robert S. Tibbetts
Chief, Photo Party 62

Photogrammetric Plot Report Sabine Pass To Pass Cavallo, Texas Job CM-7702 March 1978

21. Area Covered

This report covers sixteen 1:20,000 sheet;

TP-00218	TP-00223	TP-00228
TP-00219	TP-00224	TP-00229
TP-00220	TP-00225	TP-00230
TP-00221	TP-00226	TP-00231
TP-00222	TP-00227	TP-00232
		TP-00233

of Sabine Pass To Pass Cavallo, Texas.

22. Method

Four strips of 1:30,000 scale and two strips of 1:20,000 scale panchromatic photography taken with the "E" camera were bridged by analytic aerotriangulation methods and adjusted to ground on the Texas State plane Coordinate System, South Central Zone.

Alternate exposures were used for bridging where possible, because of the 80 percent endlap. Photographs had to be renumbered for strip adjustment program. Tide-coordinated, black-and-white infrared photography 1:40,000 scale taken with the "C" camera at MLW were tied to the 1:20,000 and 1:30,000 scale bridging photography for shoreline compilation of 1:20,000 scale maps, by means of positioning common points to determine the exact ratios. Tie points were used to augment datum between bridging strips. Ruling of manuscripts and plotting of points were done on the Coradomate and forwarded to AMC.

23. Adequacy of Control

In recovering panel number 16 for station Turn, 1934 panel was found to be out of position. It was not known if panel was moved before or after photographing so three substitute stations were established. The panel and three sub. stations were read in bridging strip number one. It was determined in the adjusting of strip one that the panel had not been moved before photographing. Substitute station one and two were not very good image points, therefore they were very difficult to point on in the instrument. Substitute station number three was a good image point and held in the adjustment.

All other control held within the accuracy required by National Standards of maps at 1:20,000 scale.

Closures on strip number five adjustment were slightly high for a third degree adjustment. This is probably because of the narrow models and minimum amount of control (5 stations) for a strip of 41 models.

24. Supplemental Data

Local shoreline on U.S. Geological Survey quadrangles were used to provide elevations for vertical adjustments of bridges.

25. Photography

The photography was adequate as to placement of flight lines, consistant quality, definition and absent of haze.

Submitted by,

Robert B. Kelly

Approved and forwarded:

Non O. Norman

Don O. Norman

Acting Chief, Aerotriangulation Section

KEY TO NUMBERED CONTROL STATIONS USED IN ADJUSTMENT AND CLOSURES

1 SAL, 1977	- .000,000
2 PANEL #1 H-62-01, 1977	.000, .000
3 OSGOOD 2, 1906	006,005
4 SULA, 1934	-4.286, 5.56l
5 CRAB, 1934	3.950, -2.25 4
6 EAST POINT, 1883	-1.260, -2.740
7 PIERCE, 1931 (TARGET #6),1977	430, 2.067
8 MC NEEL, 1852 (TARGET #7),1977	000,000
9 WELL (USE) 1912	.002, .001
10 MOTTO, 1933	.375,549
11 OSTER, 1933	,112,105
12 JACINTO, 1933	.598,338
13 TRAVIS, 1933	1.062, -4.842
14 PARRS GROVE (USE), 1900	043, .079
15 PATTON, 1932	507,104
16 GILCHRIST 2, 1963	.448,675
17 TURN, 1934	1.460, 4.103
1.8 MEAD RM #3, 1963	067, .164
19 SABENE PASS, SOUTH WEST BASE 1874, 1963	.031, .056

	NOAA FORM 76-41							
	(6–75)		DESCRIPTIVE	'E REPORT CONTROL RECORD		OCEANIC AND A	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	N N
	MAP NO.	JOB NO.		GEODETIC DATUM	jo	ORIGINATING ACTIVITY		,
	TP-00228 /	CM-7702	702 ~	N,A, 1927	Ö	Coastal Mapping	Div, Norfolk,	VA
	STATION NAME	SOURCE OF	AEROTRI-	COORDINATES IN FEET	10			
		(Index)	POINT NUMBER	So	A LON	LONGITUDE	KEMARKS	
		290943	`	χ=	\$ 29°18'52,703" "	703" ~	1622,6 (224,7)	
ļ	San, 1933	page 1025	55 ′	<i>ή=</i>	λ 94945 151,	.,081",	1378,4"(240,6)"	
	Galveston Coast Guard,	<u>.</u>	7	χ=	\$ 29°20'01.	.985"	61,1 (1786,2)	
1	t, 1960	page 1063	40	y=	λ 94046,05,559	559 ~	150,0 (1468,8)"	
	' Galveston Municipal	=	7	χ=	φ 29018'49,	,349 °	1519,4'(327.9)'-	
1	Water Tank, 1960 ~	Page 1083 L	583110 _	η= 1	λ 94°46'23,510"	510"	634,45 (984.6) £	
		<u>`</u>		<i>χ=</i>	\$ 29°17'51.	.065" 2	1572.2 (275.1) 2	
1	Wall, 1933 —	Page 1028_	56 L	<i>у</i> =	λ 94046'40,247"	247"2	1086,2"(533.1)"	
	,	=		χ=	\$ 29017124.	598"	757.3 (1090.0) 2	
ı		Page 1004_	572	η= 1	λ 94047'17.	Z"970,	461.02(1158.2)5	
	Calveston, Ice and Cold Storage Commany	‡		zχ	\$ 29018'30,427""-	427""	236.8 (910.5) 2	
1	Stack, 1933.	1081	58 ~ ~	<i>1</i> }=	λ 94047129,705"	705!!	801.6 (817.5) ~-	
	'Galveston, U.S. National	<u>`</u>		=χ	\$ 29°18'18,769"	769いど	577.9 (1269.4)~	
1	Bank Building, Light 1933~	Page 1087-	58′ ~	<i>y=</i>	λ 94047 133.080" 2	7, 1,080	892.72(726.5)~-	
	South Jetty Light, 1933 (Lt has been destroyed	290943 7		=X	φ 29°19'39.	258" "	1208.7"(638.6)"	
1	but platform remains)	page		'n=	λ 94041,32.887"	887"	887.3"(731.6)"	
	East Beach (USE), 1932	290 943 ″		-χ=	\$ 29019'57.771"	771"	1778.7% (68.6)%	
1		Page 1058	46 ~	y=	γ 94°44'09.	.509"	256.62(1362.2)	
)	"Texas City Channel, Cut A. Outer Range	=		=X	\$ 29019'55.804"	804",″	1718.12(129.2)2	
	ht,	Page 1105	47 ~	d=	λ 94044'45.	322" 4	1222.8′ (396.0)	
	COMPUTED BY A. C. Rauck, Jr.		0ATE 7/12/78 V	COMPUTATION CHECKED BY J.]	Moler		DATE 4/14/78 /	
	LISTED BY A. C. Rauck, Jr.		03/50/78V	J.	Moler		DATE 4/12/78'	
	HAND PLOTTING BY J. Roderick		0ATE 7/14/78	HAND PLOTTING CHECKED BY F.	Margiotta		DATE 7/14/78"	
•			SUPERSEDES NO	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE	H IS OBSOLETE.			1

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NOAA FORM 76-41 (6-75)				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	S. DEPARTMENT (OF COMMERCE MINISTRATION
		DESCRIPTIV	DESCRIPTIVE REPURT CONTROL RECORD			
MAP NO. TP-00228	JOB NO. CM-7702	2	GEODETIC DATUM N.A. 1927	GOASTAL MAPPING ACTIVITY	Div	Norfolk, VA
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT	COORDINATES IN FEET STATE TEXAS SOUTH CENTRAL	GEOGRAPHIC POSITION \$\phi\$ LATITUDE \[\text{1.000} \]	REMARKS	RKS
	2 576066				121.5	(1725.8)
√Jacinto, 1933+	Page 1015√	284100	y=	λ 94045'09.213" ~	248.6	(1370.2)
Galveston, Wharf	290943		χ=	φ 29018'19.254" [~]	592.8	(1254.5)
- Comapny Pier 34 Water Tank, 1933	Page 1088	628141	<i>d</i> ≠	λ 94048128.897"	779.8	(839.4)
Houston Ship Channel	, "	> 95	χε	\$ 29°20'08.34"	256.8	(1590.5)
outer Range Front Light, 1963 Page	Page 1092	625156	= <i>f</i> 1	γ 94046'11.10"	299.5	(1319.3)
Galveston Wharf Co. Pier	:	59 ~	χ=	φ 29°18'16.358" <	503.6	(j343.9)v
- 40 Water Tank, 1933	Page 1089		y:	λ 94 ⁰ 48'53.974"ν	1456.6	(162.6)
Galveston Moodys Press /	1		χ=	φ 29°17'34.041" /	1048.1~	(799.2)
Water Tank, 1933	Page 1082	629141	<i>h</i> =	λ 94049'16.628" "	448.8"	(1170.7)
				φ		
			η=	γ		
			=χ	ф		
		·	y≈	γ		
			<i>*</i>	ф		
			ηz.	γ	-	
			χ=	4		
			y=	γ		
			=X	ф		
			<i>d</i> =	χ.	-	
COMPUTED BY A. C. Rauck, Jr.		DATE 4/14/78	COMPUTATION CHECKED BY J.	Moler √	DATE 4/14/78	/78/
,		DATE 3/30/78	LISTING CHECKED BY	Moler /	DATE 4/12/78	787
HAND PLOTTING BY RODELICK		DATE 7/14/78	HAND PLOTTING CHECKED BY F.	Margiotta v	DATE 7/14/78	78 7
		SUPERSEDES NO	ERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	TH IS OBSOLETE.		

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	NOAA FORM 76-41 (6-75)				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	S. DEPARTMENT O	F COMMERCE	$\overline{}$
ئــــــ			DESCRIPTIV	CRIPTIVE REPORT CONTROL RECORD				_
<u> </u>	MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY	IVITY		_
	TP-00228	CM-7702	702	N,A, 1927	Coastal Mapping	ing Division	ι AMC	
<u> </u>	9 2001.440	Γ.	AEROTRI-	COORDINATES IN FEET	GEOGRAPHIC POSITION		2	
		INFORMATION (Index)	POINT	zone South Central		Front M	nns Back M.	
	,	· ,		χe	\$29°16'20,79"	10	(1207.3)	ि
}	CKUCKEII 2, 1974 (field pos.)	Field 76-72		#ĥ	λ94°48'54.19" ~	1462.9 ~	(156.9)	
 ?	HOUSTON SHIP CHANNEL OUTER	Field Pos		χ=	\$29019'28,84".	887.9 ″	(926.4)	т—
Ι.	RANGE REAR LIGHT, 1979 (field pos)			= fi	λ94°45'31,01"~	836.7 ~	(782.2)	
	TEXAS CITY CHANNEL, CUT A	= =		-χ=	\$ 29°20'10.43" -	321.1~	(1526.2)	r -
1	OUTER KANGE FRONT LIGHT,	. :		n = h	2 94°45'19.02"	513.17	(1105.7)	$\overline{}$
	GALVESTON SOUTH JETTY ~	` - -		-χ	\$ 29019'38.21" ~	1176.4	(6.079)	<u> </u>
1	LIGHT, 1979 (field pos.)	*		=ħ	λ94°41'23.74" ~	640.5	(978,4)	7
<u> </u>	NOI	= :		. =X	\$ 29°20'43.63" ~	1343.3 "	(504.0)	_
1	LIGHT, 1979 (field pos.)			πĥ	7 34040,44.45"	1199.1	(419.3)	<u> </u>
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				=ħ	۲		:	
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	COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATE		T
Щ.	LISTED BY C. Blood		DATE V	LISTING CHECKED BY T Dorbingon	1 000	DATE Jan 1	18, 1980	_
L	HAND PLOTTING BY I. Perkinson V		1, ~	HAND PLOTTING CHECKED			١.	
ı			SUPERSEDES NO	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE	CH IS OBSOLETE,			1

COMPILATION REPORT

TP-Q0228

31. DELINEATION

Delineation was by the Wild B-8 stereoplotter. The mean low water line was compiled graphically from tide coordinated infrared low water photography. Control of this photography was by the selection of Shoreline pass points common to these photos and to the compilation photography. Photo hydro-support data was not required, nor prepared.

32. CONTROL:

See the attached Photogrammetric Plot Report, dated March, 1978.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project.

35. SHORELINE AND ALONGSHORE DETAILS:

Alongshore details were delineated by the Wild B-8 stereoplotter and by office inspection of the ratioed photographs.

The mean high water line was office edited and refined from the ratioed photographs after being compiled on the stereo-plotter.

36. OFFSHORE DETAILS:

There was not adequate photographic coverage to completely compile the north jetty at Calveston Entrance. Field data will be furnished during the edit survey to compile this feature.

37. LANDMARKS AND AIDS:

Compilation office prepared work copies of Forms 76-40 were forwarded to the field editor for verification, location and/or deletion. Within the mapped area of this manuscript, there are three charted aids and four landmarks. Only one of the aids could not be compiled and it will require verification and location by the field editor.

38. CONTROL FOR FUTURE SURVEYS

None

39 JUNCTIONS

See the attached form 76-36B, item 5 of the Descriptive Report concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY

Refere to the Photogrammetric Report, dated March, 1978.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S. Geological Survey Quadrangles:

Galveston, Tex. Scale 1:24,000, 1954 photorevised 1969 The Jetties, Texas Scale 1:24,000, 1954 photorevised 1969

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following National Ocean Survey chart No. 11325, scale 1:25,000, 10th edition, Dated September 4, 1976.

TP-00228

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

Joanne Roderick Cartographer

Date: July 20, 1978

Approved:

Jim Byd for

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

ADDENDUM TO THE COMPILATION REPORT

TP-00228

Field edit was adequate.

The Nautical Data Section in Rockville furnished positions for two additional Landmarks, Loran Tower and Radio Tower, Galveston 296 KHZ.

The last 7000 ft. of the North Jetty, not included in the photo coverage, was delineated from five fixed positions submitted by the field editor.

Two piles were field located by photo intersection in the vicinity of Lat. 29°17.4' and Long. 94°47.2', and the area inland from these piles is considered foul with piling. Although this area could not be verified on the photography, it was recommended to include the foul limit.

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7702 (Sabine Pass to Pass Cavallo, Texas)

TP-00228

Bolivar Roads

East Beach

Fort Crockett

Galveston

Galveston Island

Gulf of Mexico

North Jetty

South Jetty

Stewart Beach

Approved by:

Charles E. Harrington Chief Geographer, C3x5

PHOTOGRAMMETRIC OFFICE PRE-HYDRO AND FIELD EDIT REVIEW $$\mathsf{TP}\text{-}00228$$

1. PROJECTION AND GRIDS	2. TITLE	5. HORIZONTAL CONTROL	11. DETAIL POINTS AND PASS POINTS
I ON J. 2. SHORELINE	L.O.N.J.	L.O.N.J.	L.O.N.J.
2. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	20. WATER FEATURES
L.O.N.J.	L.O.N.J.	L.O.N.J.	*
S. BRIDGES	16. AIDS TO NAVIGATION	17. LANDMARKS	18. and 26. ALONGSHORE AND OTHER
N.A.	L.O.N.J.	L.O.N.J.	L.O.N.J.
, and 30, ALONGSHORE AND OTHER CULTURAL FEATURES	PROCESSED RATIOS	. 27, ROADS	28. BUILDINGS
L.O.N.J.	N.A.	L.O.N.J.	L.O.N.J.
RAILROADS	23, and 25, CONTOURS AND SPOT	33. GEOGRAPHIC NAMES	34. JUNCTIONS
N.A.	N.A.	L.O.N.J.	L.O.N.J.
LEGIBILITY OF THE MANUSCRIPT	36. FIELD EDIT OZALID	10. PHOTOGRAMMETRIC PLOT REPORT	37. COMPILATION REPORT
L.O.N.J.	L.O.N.J.	L.O.N.J.	L.O.N.J.
D. REVIEWER	,	SUPERVISOR	
Lowell O. Neterer	, Jr. July 26, 1978	Albert C. Rauck, Jr.	•

I. REMARKS

- PHOTOGRAMMETRIC OFFICE POST-HYDRO AND FIELD EDIT REVIEW

3. MANUSCRIPT NUMBERS	FORMAT STICK-UP	4. MANUSCRIPT SIZE	5. HORIZONTAL CONTROL
	С.В.	C.E.B.	C.B.
7. PHOTO HYDRO STATIONS	9. PLOTTING OF SEXTANT FIXES	12. SHORELINE	13. LOW-WATER LINE
C.B.	C.B.	C.E.B.	С.В.
14. ROCKS, SHOALS, ETC.	15. BRIDGES	. 16. AIDS TO NAVIGATION	17. LANDMARKS
C.B.	C.B.	С.В.	C.E.B.
18. PHYSICAL FEATURES	19. CULTURAL FEATURES	20. WATER FEATURES	PIPELINES, CABLES, ETC.
C.B.	C.B.	C.B.	C.B.
24. and 25. CONTOURS AND SPOT ELEVATIONS	27. ROAD\$	28. BUILDINGS	29. RAILROADS
C.B.	C.B.	C.B.	C.B.
33. GEOGRAPHIC NAMES	34. JUNCTIONS	38. FIELD EDIT PHOTOGRAPHS	36. FIELD EDIT OZALID
C.B.	RANGE LINE?	C.B.	C.B.
37. FIELD EDIT REPORT	GEOGRAPHIC FIX POSITIONS	39. FIELD FORMS	APPROVED TIDES
С.В.	C.B.	С.В.	C.B.
COMPILER D	ATE 40. REVIEWER	DATE St	JPERVISOR
I.Perkinson Sept	. 26,1979 Charles	Blood Jan. 1980	Albert C. Rauck

43. REMARKS

FIELD EDIT REPORT, Map TP - 00228 JOB CM - 7702, Sabine Pass to Pass Cavallo

51. METHODS

This edit was done by inspection from skiff, by Government Truck, and by foot:

CSI cards 28-01, 02, and 03 show the position of two (2) outside piles of an area foul with piles.

All questions were investigated and answered.

Five (5) fixes were observed along the North Jetty as requested, and one (1) fix was taken to position a wreck that is adjacent to the Jetty.

52. ADEQUACY OF COMPILATION

The compilation appears very good, and will be complete and adequate upon application of this edit.

54. RECOMMENDATIONS

All objects called "outfalls" on this Map should be "stairs"; please refer to report for Map TP - 00227.

56. GEOGRAPHIC NAMES

No new names were discovered during this investigation.

57. LANDMARKS AND AIDS TO NAVIGATION

Landmarks and Aids were inspected from seaward by the cooperation of Captain James S. Midgley, Commanding Officer, NOAA Ship MT. Mitchell.

Several recommendations on the interior side of this Map are shown by Chart Sections A and B. One Landmark Building is recommended for Charting, as it is of benefit when entering the harbor from seaward. Objects that do not show well from seaward are so indicated on the Map.

Texas City Channel, Cut A, Outer Range Front Light new position was determined by intersection, and the rear light was verified by intersection. The new location of Houston Ship Channel Outer Range Rear Light was determined by intersection. Both of the above new locations are also shown on photo 9608. It will be possible to determine the azimuth of each range by inverse method.

The lights at the end of both the North and South Jetties were located by intersection:

58. FIELD EDITOR
Field Edit was done by Philip B. Walbolt and Ralph
A. Harrell.

14 August 1979 Submitted by:

Philip B. Walbolt Chief, Photo Party 63 Pg. 1 of 7

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	U.S. DEFART MENT OF COMMERCE AND ATMOSPHERIC ADMINISTRATION		Nov. 10	1980			METHOD AND DATE OF LOCATION	(See instructions on reverse side)		OFFICE								•	77C(I) 2566	/ March 19//			i -				
	ATMOSPHER			and	seaward to determine their value as landmarks.				LONGITUDE	// D.P.Meters	44.45	[1199.Í	23.74	640.5	19.02	513.1	31,01	836.7	11.10	299.5	45.322	1222.8					
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	FOR CHARTS		LOCALITY	Galves	ermine the		1927	POSITION	UDE	D.M. Meters	43.63	1343.3	38.21	1176.4	10.43	321.1	28.84	887.9	08.34	256.8		1718.1					
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	NONFLOATING AIDS		roffice)	Va.	1 1	SURVE		TP-	DESCRIPTION	landmark or alc os, where appli		Jetty Light,		etty Ligh	l, Cut A Light, 1)	nel Outer 1979	7777	nel Outer	, 1965		20.7					
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	5 Form \$67	5 rocm 307.	RTED ISED	ETED.	ects	o Z		14		(Record :		Galve		Galve	Texas		Houst	1,cang	Houst	Kange	Texas	9			 		
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TYPE OF ACTION	RESPONSIBLE PERSONNEL	PERSONNEL	ORIGINATOR
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TOUTIONS OR FRANCISCO AND/OR VENTTED	I. PERKINSON	NC	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW			T QUALITY CONTROL AND REVIEW GROUP
ACT(VITIES	J. HANCOCK	HANCOCK (FINAL REVIEW)	REPRESENTATIVE
11	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE O (Consult Photogrammetric Instructions No. 64,	OR ENTRIES UNDER METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	-
OFFICE		FIELD (Cont'd)	
교 조 =	(including month, ograph used to	entry of method of date of field work	metric rield positions** require method of location or verification, field work and number of the photo-
identify and locate the Sbject. EXAMPLE: 75E(C)6042 8-12-75	ject.	graph used to locate EXAMPLE: P-8-V 8-12-75 74L(C)2982	to locate or identity the object. 3-8-V 3-12-75 74L(C)2982
DETERM! plicable	NED OR VERIFIED data by symbols as follows: P - Photogrammetric Vis - Visually	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is angulation station is recovered Rec.' with date of recovery.	ION STATION RECOVERED Imark or aid which is also a tristation is recovered, enter 'Triang. date of recovery.
1 - Triangulation 5 - F 2 - Traverse 6 - T	Field identified Theodolite		•
tion 7 - n 8 -	Planetable Sextant	<pre>III. POSITION VERIFIED VISUAL Enter 'V+Vis.' and date.</pre>	VERIFIED VISUALLY ON PHOTOGRAPH Vis.' and date.
sitions*	require entry of method of of field work.	EXAMPLE: V-Vis. 8-12-75	
EXAMPLE: F-2-6-L 8-12-75		**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control establishe	POSITIONS are dependent upon control established
*FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods.	d by field obser- round survey methods.		ā,

NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND Existing stock should be destroyed upon receipt of revision. Pg. 2 of 7

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MENT OF COMMEDCE	OCEANIC AND ATMOSPHERIC ADMINISTRATION	DATE		(see back)		METHOD AND DATE OF LOCATION	(See instructions on reverse side)		OFFICE	77C(1) 2567	7 Mar. 1977							77C(I) 2566	Mar.						
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	•	REPORTING UNIT	Coastal Mapping I	HAVE HAVE NOT	JOB NUMBER	•	CM-7702	DESCRIPTION	Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)		ing, Light, 1933)	Feature was Not investigated	of Landmark value and was incorrectly submitted on Form 76-40 dated Sept. 1	1979 from this reporting unit.			•	Field editor did inspec from Seaward and indica	two Landmark TANKS cannot be	guished from the recommends as Tanks.					
9	Form 567.	RTED	ISED ETED /	ects	ON.				(Record r			Featu	of La	1979				Field from	two I	distin sent;					
NOAA FORM 76	(8-74) Replaces C&GS Form 567.	TO BE CHARTED	TO BE REVISED TO BE DELETED	The following objects	OPR PROJECT NO.	`	K-104	;	CHARTING	BUILDING	(rigured)				,				TANKS						

FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods.	EXAMPLE: F-2-6-L 8-12-75	sitions	1 1	ation 5 - 6 -	F - Field P - PI L - Located Vis - V - Verified	I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols	# # # # # # # # # # # # # # # # # # #	identify and locate the ∵bject. EXAMPLE: 75E(C)6042 8-12-75	an an	OFFICE IDENTIFIED AND LOCATED OBJECTS			ACTIVITIES	AND REVIEW GROUP AND FINAL REVIEW		FUSITIONS DETERMINED AND/OR VERIFIED	 	OBJECTS INSPECTED FROM SEAWARD		TYPE OF ACTION	
ed by field obser- ground survey methods.		require entry of method of of field work.	Planetable Sextant	Field identified Theodolite	P - Photogrammetric Vis - Visually	VERIFIED by symbols as follows:		oject.	(including month,		(Consult Photogrammetric Instructions No. 64,		_ J. HANCOCK (FINA		I. PERKINSON	P. WALBOLT	TANKS were inspected from Seaward and redeletion by Photo Party.	ded to be listed	Building was Not inspected from Seaward	NAME	RESPONSIBLE PERSONNEL
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ods.	<pre>iC FIELD POSITIONS are dependent in part, upon control established</pre>		SUALLY ON PHOTOGRAPH		station is recovered, enter 'Triang. date of recovery. riang. Rec.	N RECOVERED	32	ed to locate or identify the object. P-8-V 8-}2-75	method of location or verification, field work and number of the photo-	field positions** require			REPRESENTATIVE	M REVIEWER AND REVIEW GROUP	OFFICE ACTIVITY REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE	OTHER (Specify)	HYDROGRAPHIC PARTY	PHOTO FIELD PARTY	ORIGINATOR	

NOAA FORM 75-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

Pg. 3 of

, .e	IVITY IV		.	REVIEW GRP.	9 personnel)			CHARTS	AFFECTED		1323 -		=		Ξ		=	=		=		:	=		=			30	
	DRIGINATING ACTIVITY	GEODETIC PARTY PHOTO FIELD PARTY	COMPILATION ACTIVITY	OUALITY CONTROL, & REVIEW GRP	(See reverse for responsible		E OF LOCATION	on reverse side)	· ·	FIELD	F-V-Vis 11	777 770	Ę.	,	. =		Triangulation Recovered	F-V-Vis	OULY	Triangulation	necovered . 1979	Viš	17 July 1979		-				
	OCEANIC AND ATMOSPHERIC ADMINISTRATION		Nov. 10	1980		 	METHOD AND DATE OF LOCATION	(See instructions on reverse side)	-	OFFICE	77C(I) 2568 7		77C(I) 2566, 7 Mar. 1977					77C(I) 2568	nar.	-11		:		•	=				
	U.S. DEPAKIJO D ATMOSPHER			sland	as landmarks.				LONGITUDE	// D.P. Meters	17.4	471	23.2	626	42.6	1149	2	┿┵	359	┞┸┸	448.8	45.7	1234	57.0	1539		-		
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	NATIONAL OC	FOR C	LOCALITY	 Galv	stermine th		1927	Pos	LATITUDE	D.M.Meters	29.6	912	23.9	737 /	42.6	1313	49.349		1309	34.041	1048.1	38.8	1196	37.6	1159				
	Z	LANDMARKS FOR CHARTS			sward to de	DATUM	N.A.	·	LAT	, ,		29-16		$\frac{29-18}{}$	`	29-18	20-18		29-17	,	29-17	`	29-17	l	29-17				
			STATE	Texas	spected from sec	SURVEY NUMBER	`	TP-00228		navigation. Io, in perenthoses,		,						 	!	er	,		-						
		{	767	, טבע ;	X been in	SURVEY		TP-0	NO.	ark or aid to tere applicab		!					\ \			Press Water						•			
			REPORTING UNIT	AMC Norfolk, Va.	디	JOB NUMBER		CM-7702	DESCRIPTION	(Record resson for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)			:	360 Ft.			(Galveston Municipal Water Tank, 1960)			(Galveston Moodys Pr Tank, 1933)									
07 7E 1100 1 1000	(B-74)	Replaces C&GS Form 567.	X TO BE CHARTED TO BE REVISED	TO BE DELETED	The following objects	OPR PROJECT NO.		K - 104		NAME Show t		SPIRE	TALLEST /			STACK	(Gz		TANK	(G. Tai	TANK		TANK	```	TANK	.		·	

FIELD POSITIONS are determined by field observations based entirely upon ground survey met	A. Field positions required focation and date of EXAMPLE: F-2-6-1		- S dat	Enter the number and date (including month, day, and year) of the photograph used to identify and locate the bject. EXAMPLE: 75E(C)6042 FIELD	OFFICE		FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		C. C. DOS DETERMINED AND/OR VERIEIED	OBJECTS INSPECTED FROM SEAWARD	TYPE OF ACTION	
ned by field obser- ground survey methods.	require entry of method of of field work.		OR VERIFIED a by symbols as follows: Photogrammetric - Visually Field identified Theodolite	cated Objects e (including month, otograph used to bject	(Consult Photogrammetric Instructions No. 64, FIELD (Cont'd)	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'		I. PERK	P. WALBOLT	These previously charted Landmarks were ed only as physically existing in their position.	NAME	RESPONSIBLE PERSONNEL
entirely, or in part, upon by photogrammetric methods.		ے ہ	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is angulation station is recovered Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75	8. Photogrammetric field entry of method of locate of field work ar graph used to locate EXAMPLE: P-8-V 8-12-75 74L(C)2982	FIELD (Cont'd)	METHOD AND DATE OF LOCATION'	HANCOCK (FINAL REVIEW)	PERKINSON	. T10	field inspect charted code		PERSONNEL
in part, upon control established hetric methods.	POSITIONS are dependent	ISUALLY ON PHOTOGRAPH date.	ON RECOVERED aid which is also a tri- is recovered, enter 'Triang. recovery.	mmetric field positions** require method of location or verification, field work and number of the photoed to locate or identify the object. P-8-V 8-12-75 74L(C)2982			QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	OFFICE ACTIVITY REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE	HYDROGRAPHIC PARTY GEODETIC PARTY OTHER (Specify)	CKICINATOR	

NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION,

Pg. 4 of

NOAA FORM 76-	07:						DEPART	ENT OF COMMERCE	STISSES SWIFTANISION	CTIVITY.
(8-74)			NY	NAT	NATIONAL OCEANIC	ANIC AND	ATMOSPHER	OCEANIC AND ATMOSPHERIC ADMINISTRATION	HYDROGRAPHIC PARTY	ARTY
Replaces C&GS Form 567.			LAN	MARKS	בחל אטר	(K 1.5)			GEODETIC PARTY	ı,
X TO BE CHARTED TO BE REVISED	· ·	REPORTING UNIT (Field Parry, Ship or Office) Coastal Mapping Div.	vi .		LOCALITY		,	Nov. 10	COMPILATION ACTIVITY TINAL REVIEWER QUALITY CONTROL & REVIEW GRP.	IVITY L&REVIEW GRP
The following objects	HAVE NO	FOIK, Va.	Texas	word to de	Galveston	on Island ir value as far	nd Jandmarks.	1980	(See reverse for responsible personnel)	NCH ible personnel)
OPR PROJECT NO.	NON BOF	ER	BER SURVEY NUMBER DATUM	DATUM		1				
	 		(N.A. 19	1927			METHOD AND DATE OF LOCATION	E OF LOCATION	
K - 104	CM-7702		TP-00228		POSITION	NO		(See instructions on reverse side)	on reverse side)	CHARTS
		DESCRIPTION		LATITUDE	-upe	LONGITUDE	TUDE			AFFECTED
CHARTING	(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in perent	etion of landmark or a	Record resson for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in perentheses)	•	// D.M. Meters	•	// D.P. Meters	OFFICE	FIELD	
TOWER	Galveston Inner Dredging Range I	Galveston Inner Bar North Side Dredging Range Front Daybeacon	Side /	29-20	29.1 896	94-46	57.2 154237	77C(I) 2566 7 Mar. 1977	F-V-Vis 17 July 1979	11323 / 11325
TOWER	Galveston Inner Bar Dredging Range Front	יי נט	south Side / Daybeacon	29-20	25.1	97-76	54.0 1458	£ ::	II.	=
RADIO TOTO TOTO TOWER	North one of	two		29–18	53.6	94-48	16.8′	77C(I) 2567 ~ 7 Mar. 1977	11	=
RADIO / TOWER	South one of two	two		29-18	51.4	94-48	19.0 < 512 <	н	11	ı.
RADIO TOWER	(Galveston Co Radio Mast,	Coast Guard, 1960)		29-20	01.985	97 76	05.559 150.0	77C(I) 2566, 7 Mar. 1977	Triangulation Recovered Aug. 1979	E
LORAN * _	Formerly Galveston Light discontinued	veston Light, tinued May 1979	621	29–19	44.12	94-46	09.64	· L	ו יי	ε
RADIO * TOWER	Galveston 290	296 KH ₂		29-19	40.57	77-76	20.19	++	п	ŧ
AERO RBN		1,		29-20	01.6 /	94-45	21.8 / 589 /	н	n	n.
MICRO TOWER	South West one	ne of two		29-19	753	74-45	14.0 377.	n	11	Ξ
* These po	These positions from Mr.	r. Daily (C-322)	322)							31

8-12-75 *FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey meth	A. Field positions* require location and date of fie EXAMPLE: F-2-6-L	tion 7 - n 8 -	d lation 5 -	FIELD i. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols F - Field P - Photogrammet L - Located Vis - Visually	EXAMPLE: 75E(C)6042 8-12-75	DENTIFIED AND e number and year) of the		ACTIVITIES	AND BEVIEW GROUP AND FINAL REVIEW		POSITIONS DETERMINED AND/OR VERIFIED		OBJECTS INSPECTED FROM SEAWARD ins	TYPE OF ACTION	
en'	require entry of method of example: e of field work.	Planetable III. POSITION V Sextant Enter 'V+V	tified	s as follows:	ect. graph us EXAMPLE:	month,	Consult Photogrammetri	I. HANCOCK (FINAL REVIEW)		I. PERKINSON	PWALEBOLT	ed position.	These previously charted Landmarks winspected only as physically existing in	NAME	RESPONSIBLE PERSONNEL
photogrammetric methods.	V-Vis. 8-12-75	ON VERIFIED VISUALLY ON PHOTOGRAPH	Triang. Rec. 8-12-75	ION STATI	ed to locate or identify P-8-V 8-12-75 74L(C)2982	—h ₩	TE OF LOCATION'	REPRESENTATIVE	★ REVIEWER	OFFICE ACTIVITY REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE	GEODETIC PARTY OTHER (Specify)	in their chart- 日 HYDROGRAPHIC PARTY	ORIGINATOR	

NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION,

Pg. 5 of

Pg. 5 of	СТІУІТҮ	ואזץ. דץ	YTIY	LA REVIEW GRP.	ible personnel)			CHARTS	ARFECTED		11323	11367	=			=							-	32	s
	ORIGINATING ACTIVITY	HYDROGRAPHIC PARTY GEODETIC PARTY PHOTO FIELD PARTY	COMPILATION ACTIVITY	OUALITY CONTROL & REVIEW GRP.	(See reverse for responsible personnel)		E OF LOCATION	on reverse side)		FIELD	Triangulation		и			17 July 1979									
	U.S. DEPARTMENT OF COMMERCE		DATE Nov. 10				METHOD AND DATE OF LOCATION	(apis agravar no anomorniam sac)		OFFICE	77C(I) 2567	7 Mar. 1977	11		14									,	
	S. DEPARTA			and	· landmarks.				LONGITUDE	D.P. Meters	28.897	779.8	53.974	1456.6	12.5	338									
	U SANIC AND	ARTS		Galveston Island	eir value as			POSITION	LONG	•		94-48		94-48		94-47									
	TIONAL OC	FOR CH	LOCALITY	Galve	stermine th		1927	- 1	LATITUDE	D.M. Meters	19.254	592.8	16.358	503.6	41.1	1266		i	j						
	2	LANDWARKS FOR CHARTS			sward to de	₩ DATC	N.A.		LATI	•		29-18		29-18		29=18							. <u> </u>		
		LAN	STATE	Texas	HAVE NOT [X] been inspected from seaward to determine their value as landmarks	EY NUMBER		TP-00228		id to nevigation. Icable, in perentheses	34 /		(40						,		;			•	
		:	Office)	ing Div. Va.	T 🗓 been	SURV		I.F.	NOLL	ndmark or ai , where appl	o. Pier 34		o. Pier 40												
			REPORTING UNIT (Field Party, Ship or Office)	Coastal Mapping AMC Norfolk, Va	HAVE HAVE NO	JOB NUMBER	(((((((((((((((((((CM-//02	DESCRIPTION	(Record reason for defetion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	(Galveston Wharf Co.	talls tool	(Galveston Wharf'Co.												
	-40	Form 567.	RTED /	TED		o				(Record re Show tries	(Galv	1	(Galv											<u>-</u> .	
	NOAA FORM 76-40	Replaces C&GS Form 567.	X TO BE CHARTED	TO BE DELETED	The following objects	OPR PROJECT		K - 104	1	NAME	i	TANK		TANK		TANK			:						

I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as F - Field P - Photogrammetric L - Located Vis - Visually V - Verified l - Triangulation 5 - Field identified 2 - Traverse 6 - Theodolite 3 - Intersection 7 - Planetable 4 - Resection 8 - Sextant A. Field positions* require entry of met location and date of field work. EXAMPLE: F-2-6-L 8-12-75	OFFICE 1. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the bject. EXAMPLE: 75E(C)6042 8-12-75	INSTRUCTION	FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	POSITIONS DETERMINED AND/OR VERIFIED	These pre- onjects inspected only ed position.	TYPE OF ACTION	
s as follows: tric mhen a lan Rec.' with Rec.' with EXAMPLE: ified ified iii. POSITION V Enter 'V+V ENTER WHETR entirely, or by photogramm	FIELD (Cont'd) B. Photogra entry of date of graph us EXAMPLE:	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,)	P. WOLBOLT I. PERKINSON	se previously charted Landmarks were field d only as phisically existing in their chart- ion.	NAME	RESPONSIBLE PERSONNEL
dmark or aid which is also a tri- station is recovered, enter 'Triang. date of recovery. Triang. Rec. 8-12-75 ERIFIED VISUALLY ON PHOTOGRAPH 's.' and date. V-Vis. 8-12-75 IC FIELD POSITIONS are dependent in part, upon control established etric methods.	<pre>mmetric field positions** require method of location or verification, field work and number of the photo- ed to locate or identify the object. P-8-V 8-12-75 74L(C)2982</pre>		X REVIEWER QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE	EPHOTO FIELD PARTY GEODETIC PARTY GEODETIC PARTY OTHER (Specify)	ORIGINATOR	

NOAA FORM 75-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND.

Pg. 6 of

72 71 000					;				FE: 0 0
(8-74)	T		TAN.	TONAL OCE	NIC AND A	T MOSPHER	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	ORIGINATING ACTIVITY	CTIVITY
Replaces C&GS Form 567		c ,	MARKS	LANDMARKS FOR CHARTS	RTS			MYDROGRAPHIC PARTY GEODETIC PARTY MPHOTO FIELD PARTY	A R . 4
ATO BE CHARTED	TED REPORTING UNIT	STATE		LOCALITY			DATE	COMPILATION ACTIVITY	1417
TO BE REVISED		Div.				ব !	Nov. 10	FINAL REVIEWER	L&REVIEW GRP.
The following	bjects HAVE HAVE NOT	been inspected from seaward to determine their value as fandmarks.	ward to de	termine their	Galveston island ine their value as fandn	land fandmarks.	11980	(See reverse for responsible personnel)	nch ible personnel)
OPR PROJECT NO.	NON BOL		DATUM						
		,	N.A.	1927		•	METHOD AND DA	METHOD AND DATE OF LOCATION	
K - 104	CM-7702	TP-00228		POSITION	NO		(See Instructions	(See instructions on reverse side)	CHARTS
	DESCRIPTION	z	LATITUDE	UDE	LONGITUDE	, noe			AFFECTED
CHARTING NA≭E	(Record reason for defetion of landmark or aid to navigation. Show triangulation station names, where applicable, in perentheses)	k or aid to navigation. • applicable, in perentheses	, ,	// D.M.Meters	,	// D.P.Meters	OFFICE	FIELD	
ELEVATOR	(Elevator, 1931)		29-18	24.645 758.8 9	94-48	03.518 94.9	77C(1) 2567 7 Mar. 1977	F-V-Vis / 17 July 1979	11323 ⁻ 11325
	charted Lar tly omitted	ndmark that was from the Class I							
ELEVATOR	New elevator of Landmark Value located approx. 900 Ft. West of previously of charted ELEVATOR.	k Value located previously տե	29-18	24.8	87-76	14.0 379 [~]	77C(I) 2567 7 Mar. 1977	L-P-5 / 77E 9606	11323 / 11325 /
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			}						
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	RESPONSIBLE PERSONNEL	RSONNEL	
TYPE OF ACTION	NAME		ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD	Elevators were not inspected from seaward but were verified; as physically existing at the charted position.	from seaward but were ing at the charted	X PHOTO FIELD PARTY HYDROGRAPHIC PARTY GEODETIC PARTY OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED	P. WALBOLT		FIELD ACTIVITY REPRESENTATIVE
	I. PERKINSON	V .	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW			☐ QUALITY CONTROL AND REVIEW GROUP
ACTIVITIES	I. HANCOCK C	I. HANCOCK (FINAL REVIEW)	REPRESENTATIVE
	INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE OF LOCATION	THOD AND DATE OF LOCATION	
OFFICE			
Enter the number and date (including month,	e (including month,		method of location or verification,
<pre>day, and year) of the photograph used to identify and locate the bject.</pre>	object.	date of field work graph used to local	date of field work and number of the photo- graph used to locate or identify the object.
EXAMPLE: 75E(C)6042		EXAMPLE: P-8-V	
8-12-75		8-12-75	•

- I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: Field Located P - Photogrammetric Vis - Visually
- Verified
- Triangulation Field identified
- Traverse Intersect ion
 - Theodolite
- Resect ion
- Planetable
- Sextant
- Field positions* require entry of method of EXAMPLE: ocation and date of field work.

F-2-6-L

8-12-75

*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.

74L(C)2982

II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a tri-

angulation station is recovered, enter 'Triang. EXAMPLE: Rec. ' with date of recovery.

Triang. Rec. 8-12-75

III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V+Vis.' and date.

EXAMPLE: V-Vis. 8-12-75

**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.

NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

NOAA FORM 76-40			A Z	TIONAL OCE	ANIC AND	S. DEPART ATMOSPHE	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	ORIGINATING ACTIVITY	ARTY
Replaces C&GS Form 567.		,	LANDMARKS	FOR CHARTS	\RTS			GEODETIC PARTY	> -
X TO BE CHARTED TO BE REVISED	,	fice)		LOCALITY			RATE 10	COMPILATION ACTIVITY	rivity .
TO BE DELETED		B DIV.		- - Galv	Galveston Teland	։1 գում	1980	COAST PILOT BRANCH	LAREVIEW GR
The following objects	Sects HAVE X HAVE NOT	been inspected from	award to de	seaward to determine their value as landmarks	ir value as	landmarks		(See reverse for responsible personnel)	sible personnel)
OPR PROJECT NO	D. JOB NUMBER			1	,				
			N.	A. 1927			METHOD AND DA	WETHOD AND DATE OF LOCATION	=
K = 104	1	TP-00228		POSITION	- 1		(See Instructions	s on reverse side)	CHARTS
CHARTING	DESCRIPTION (Record reason for deletion of landmark or sid to navigation.	TION mark or sid to navigation,	LATI	LATIT UDE	의	TUDE //	OFFICE	FIELD	AFFECTED
	Show triangulation station names, where applicable, in perentheses)	where applicable, in perentheses)	٥	D.M. Meters	•	D.P. Meters			
MICRO*				27.5		9.70	77C(I) 2566	L-P-5	11323
TOWER	North East one of t	two	29-19	978	24-46	208	7 Mar. 1977	77E′9608	11325
				52.2		23.1	Ξ	=	=
BUILDING*~	Elevator shaft atop roof	roof	29–18	,9091	94-45	623			
				12.7		36.3			
BUILDING*	•	,	29–2ó	391,	94-46	. 086	=	=	:
	•]] 			
			:						
		-	:						
			-					·	
		•							
,									
•	Recommended as Land Mt. Mitchell in cor	as Landmarks by Hydro Ship in correspondence with							34
*	Mt. Mitchell in correspondence with	respondence with							

	4,
TYPE OF ACTION NAME	ORIGINATOR
WARD NOAA Ship Mt. Mitchell, CAPT. J.S. Midgley	□ PHOTO FIELD WHYDROGRAP □ GEODETIC P □ OTHER (Speci
	FIE
B. Kravitz	OFFICE ACTIVITY REPRESENTATIVE
	X REVIEWER
W GROUP AND FINAL REVIEW	
ACTIVITIES I I. Hancock, (Final Review RE	REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	TE OF LOCATION'
OFFICE DENTIFIED AND LOCATED OBJECTS FIELD (Cont'd) 8. Photogrammetric field po	Cont'd) Photogrammetric field positions** require
the number and date (including month, entry of date of)	y of method of location or verification, of field work and number of the photo-
graph used to EXAMPLE: P-8-17	h used to locate or identify the object. PLE: P-8-V 8-12-75 74L(C)2982
I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field P - Photogrammetric L - Located Vis - Visually V - Verified II. TRIANGULATION STATION RECOVERED When a landmark or aid which is angulation station is recovered Rec. with date of recovery. EXAMPLE: Trlang. Rec.	TRIANGULATION STATION RECOVERED when a landmark or aid which is also a triang angulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Trlang. Rec.
ation 5 - Field identified 6 - Theodolite	8-12-75
- Planetable III. POSITION Enter 'V+'	ON VERIFIED VISUALLY ON PHOTOGRAPH 'V+Vis.' and date.
B 	
**PHOTOGRAMMETRIC FIELD POSITION CO	**PHOTOGRAMMETRIC FIELD POSITIONS are dependent
*FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods.	rammetric methods.

NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

☆ U.S.GPO:1975-0~865-080/1155

SHORELINE

61. GENERAL STATEMENT:

See the Summary included in this Descriptive Report for general information.

A specific problem encountered during compilation was defining the limits for mapping and investigating Landmarks and Aids to Naviagation in the Galveston Bay Entrance area. Varied interpretations of the project instructions, at different compilation stages and during field edit, caused unverified and inaccurate data to be forwarded to Nautical Charts. This problem was discovered during final review and amended data was submitted to the Nautical Data Section. This data consisted of a Chart Letter dated 11/14/80, a set of revised 76-40 forms and a revised Class I maintenance print.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with the aforementioned U.S.G.S. quadrangles listed in item #46 of the Compilation Report. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Contemporary hydrographic survey OPR-K104-MI-78 excluded the inshore area of Galvestone Bay Entrance, Bolivar Roads from Lat. 29°26', Long. 94°40' to Lat. 29°16', Long. 94°50'. However, a Coast Pilot and Chart Corrections Report was performed in the area in Sept. 1979; this operation only pertained to updating Landmarks and Aids to Navigation and did not include any pertinent shoreline information.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison with Chart 11324, 1:25,000 scale, 18th Ed., Aug. 30/80 revealed several omissions. Four areas in the foreshore and one area extending from a groin (see list of approximate positions) are charted as submerged groins or ruins. These features were not compiled nor field investigated.

Approximate positions of offshore features not accounted for:

Lat.

Long.
29°17'50''
94°46'39"

29°17'01'' 94°47'47

29°16'52'' 94°48'01"

Lat. Long. 29⁰16'43" 94⁰48'14'' 94048103" 29⁰16'43"

ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with Project instructions, and meets the requirements for Bureau Standards and National Standards of Map Accuracy.

Submitted by:

Geny Harwork Jerry Hancock Final Reviewer

Approved for forwarding:

Billy H. Barnes

Chief, Photogrammetric Branch, AMC

Chief, Photogrammetric Branch, Rockville

Walter S. Simmons

Chief, Photogrammetry Division



U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL OCEAN SURVEY

DATE:

Nov. 14, 1980

TO:

Jim Daily, C-322

FROM:

Jerry Hancock, CAM 52x1

SUBJECT:

Amended 76-40 Forms for Proj. K-104,

Job CM-7702, Sabine Pass to Pass Cavallo, Texas

Attached is a completed set of 76-40 Forms (Nonfloating Aids or Landmarks for Charts) for TP-00228, Calveston Island. This supersedes the previous forms dated Sept. 18 and 19, 1979. At the final review stage several errors concerning omissions, classification, and field activity were discovered that changed the status for some of the Landmarks. This revised data should account for the Landmarks within this Class I manuscript.

