NOAA FORM 76-35 (6-80)

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

DESCRIPTIVE REPORT

THIS MAP EDITION WILL NOT	BE FIELD EDITED			
Map No.	Edition No.			
TP-01431	1			
Job No.				
CM-8605				
Map Classification				
CLASS III, FINAL				
Type of Survey SHORELINE				
LOCALITY				
State				
TEXAS				
General Locality				
CORPUS CHRISTI BAY TO CUBA ISLAND				
Locality				
CAYO DEL GRULLO				
/				
1987 TO 19				
REGISTERED IN ARCHIVES				
DATE				

NOAA FORM 76-36A U. S. DEPARTMENT OF CONMERCE	1 7	0.7.40.7
NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	TYPE OF SURVEY	SURVEY TP. 01431
	ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS III Final
	REVISED	лов км. СМ-8605
PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP EDITION
Coastal Mapping Unit	TYPE OF SURVEY	JOB PH
Atlantic Marine Center, Norfolk, VA	ORIGINAL	MAP CLASS
OFFICER-IN-CHARGE	☐ RESURVEY	SURVEY DATES:
	REVISED	19 TO 19
C. Dale North, Jr.	<u> </u>	
I. INSTRUCTIONS DATED		FIELD.
1. OFFICE	 	FIELD
Aerotriangulation None Compilation April 18, 1988	Control	July 28, 1987.
II. DATUMS		
1983 1. horizontal: X 1927 north american	OTHER (Specify)	
MEAN HIGH-WATER MEAN LOW-WATER MEAN LOWER LOW-WATER MEAN SEA LEVEL	OTHER (Specify)	
3. MAP PROJECTION	4.	GRID(S)
	STATE	ZONE
Lambert Conformal Projection	N.A.	N.A.
5. SCALE	STATE	ZONE
1:20,000	<u> </u>	<u> </u>
	T	
OPERATIONS 1. AEROTRIANGULATION BY	B. Thornton	Mar. 1988
METHOD: Analytic LANDMARKS AND AIDS BY		Mar. 1988
2. CONTROL AND BRIDGE POINTS PLOTTED BY	B. Thornton	Mar. 1988
METHOD: Kongsberg Plotter CHECKED BY	D. Norman	Mar. 1988
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	R. Kravitz	May 1988
COMPILATION CHECKED BY	F. Mauldin	May 1988
INSTRUMENT: Wild B-8 CONTOURS BY	N.A.	
scale: 1:20,000 CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	R. Kravitz	May 1988
CHECKED BY	F. Mauldin	June 1988
METHOD: Smooth Drafted CONTOURS BY	N.A.	
CHECKED BY HYDRO SUPPORT DATA BY	R. Kravitz	May 1988
SCALE: 1:20,000 CHECKED BY	F. Mauldin	June 1988
5. OFFICE INSPECTION PRIOR TO Final Review by	F. Mauldin	June 1988
6. APPLICATION OF FIELD EDIT DATA	N.A.	
7. COMPILATION SECTION REVIEW Class III BY	N.A. F. Mauldin	June 1988
8. FINAL REVIEW Class III BY	L. O. Neterer, Jr	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	L. O. Neterer, Jr	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	P. Demoray	Feb. 1989
II. MAP REGISTERED - COASTAL SURVEY SECTION BY		
NOAA FORM 76-36 A SUPERSEDES FORM C&GS 181 SERIES	· · · · · · · · · · · · · · · · · · ·	

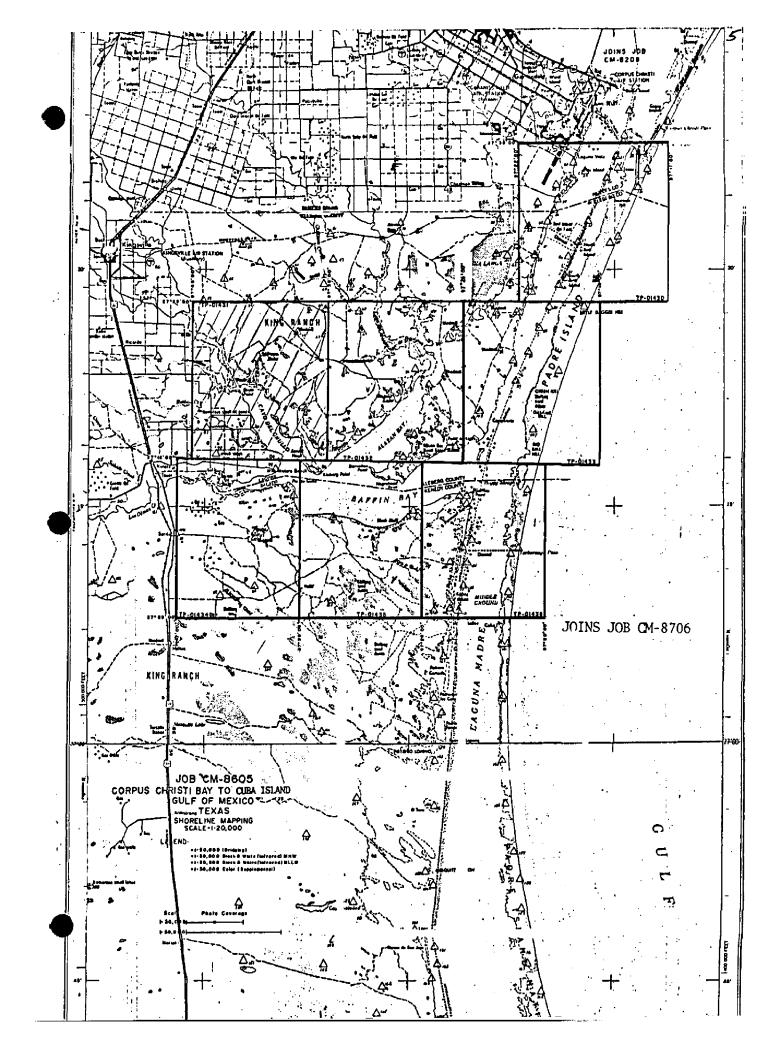
NOAA FORM 76-36B (3-72)	СОМ	TP-0143	1	IIC AND ATMOSPHERIC	NT OF COMMERCE ADMINISTRATION L OCEAN SURVEY
1. COMPILATION PHOTOGRAPHY					
CAMERA(S) Wild RC 10(B) Wild RC 10(Z) (Z = 153.		· · · · · ·	PHOTOGRAPHY GEND	TIME REF	ERENCE
TIDE STAGE REFERENCE PREDICTED TIDES REFERENCE STATION RECORDS TIDE Coordinated Photo		(C) COLOR (P) PANCHRO		Central MERIDIAN 90°	X STANDARD
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE O	F TIDE
*87 BCN 7350-7351 **87 BCN 7359-7363 ***87 ZR 3266-3268 **Odd numbers only ***Even numbers only	09-30-87 09-30-87 11-10-87	1346 1359 1351	1:60,000 1:60,000 1:60,000	* 0.1 ft. abov 0.2 ft. belo	WHM wo
REMARKS*Tidal information raphy was taken at a mi station at Port Mansfie	dlevel stage				
2. SOURCE OF MEAN HIGH-WATER The mean high-water l listed compilation/br	ine was compi				
3. SOURCE OF MEAN LOW-WATER There was no mean low	er low-water	line compi	ledion this r	nap.ey	ا هنر المالية

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.) SURVEY NUMBER DATE(S) SURVEY COPY USED SURVEY NUMBER DATE(S) SURVEY COPY USED 5. FINAL JUNCTIONS south TP-01434 EAST WEST NORTH No Survey TP-01432 TP-01435 No Survey REMARKS

NOAA FORM 76-36C (3-72)	TP-01 History of Field	431	U. S. DEPARTME NIG AND ATMOSPHERIC NATIONA		TIO
I. X FIELD KOMEKKANAK OPE		D EDIT OPERATION		_	-
	ERATION		NAME	DATE	
1. CHIEF OF FIELD PARTY		J. Dunford		Cont	005
	RECOVERED BY	N.A.	,, ,	Sept. 1	5 67
2. HORIZONTAL CONTROL	ESTABLISHED BY	D. Miller		Sept. 1	987
•	PRE-MARKED OR IDENTIFIED BY	D. Miller		Sept. 1	
	RECOVERED BY	N.A.			
3. VERTICAL CONTROL	ESTABLISHED BY	N.A.			
	PRE-MARKED OR IDENTIFIED BY	N.A.			
R	ECOVERED (Triangulation Stations) BY	N.A.			
4. LANDMARKS AND	LOCATED (Field Methods) BY	N.A.			
AIDS TO NAVIGATION	IDENTIFIED BY	N.A.			
	TYPE OF INVESTIGATION				
5. GEOGRAPHIC NAMES	COMPLETE				
INVESTIGATION	SPECIFIC NAMES ONLY				
	X NO INVESTIGATION	<u></u>			
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	N.A.	·	<u> </u>	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.		<u> </u>	
II. SOURCE DATA		<u> </u>			
1. HORIZONTAL CONTROL IDE	NTIFIED	ĺ	NTROL IDENTIFIED		
Paneled		None	 		
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DES	I GN A TION	
3. PHOTO NUMBERS (Clarificate None 4. LANDMARKS AND AIDS TO N					
None	,				
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT	NAME	
	·				
5. GEOGRAPHIC NAMES:	REPORT X NONE	6. BOUNDARY AN	D LIMITS: REPOR	NON X	E _
7. SUPPLEMENTAL MAPS AND	PLANS				
None		<u>. </u>			
 OTHER FIELD RECORDS (Sk Form 76-53 	etch books, etc. DO NOT list data submit	ted to the Geodesy D	ivision)		
2 Forms 75-82A					

NOAA FO	RM 76-36D	RECO	TP-01431 RD OF SURVE		U. S. DEPARTME! AND ATMOSPHERIC	NT OF COMMERCE ADMINISTRATION
I. MANUS	CRIPT COPIES					
	co	MPILATION STAGE	s		DATE MANUSCRI	PT FORWARDED
	DATA COMPILED	DATE	RE	MARKS	MARINE CHARTS	HYDRO SUPPORT
Compil	lation Complete	June 1988	Class III	Manuscript		
Final	Review	June 1988	Class III	, Final Map	Jan 1989	Jan 1989
II. LANDA	ARKS AND AIDS TO NAVIGA	TION None			. <u>l</u>	L
1. REP	ORTS TO MARINE CHART D	IVISION, NAUTICAL	DATA BRANCH			
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED		RE	MARKS	<u> </u>
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						<u>, , , , , , , , , , , , , , , , , , , </u>
-						
=	REPORT TO MARINE CHART					
III. FEDE	RAL RECORDS CENTER DAT	ГА	·			
۱. [X]	BRIDGING PHOTOGRAPHS;	₩ DUPLICATE	BRIDGING RERO	ят. 5-40 🗓 сомрит	ER READOUTS.	
	CONTROL STATION IDENT	IFICATION CARDS;	FORM NO	S 567 SUBMITTED 6	BY FIELD PARTIES.	
3.	SOURCE DATA (except for C ACCOUNT FOR EXCEPTION		port) AS LISTED (IN SECTION II, NOA/	A FORM 76-36C.	
4. []	DATA TO FEDERAL RECO	RDS CENTER. DAT	E FORWARDED:			_
IV. SURV	EY EDITIONS (This section s			p edition is registere	ed)	
SECOND	SURVEY NUMBER	јов мимве (2) РН -			TYPE OF SURVEY	SURVEY
EDITION			ELD EDIT		MAP CLASS	
	Į.			Du. Du	. 🗆 ıv. 🗀 v.	FINAL

IV. SURVEY	EDITIONS (This section shall	be completed each time a new n	nap edition is registered)
	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
SECOND	TP(2)	PH	REVISED RESURVEY
EDITION	DATE OF PHOTOGRAPHY	DATE OF FIELD BOIT	MAP CLASS
	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
THIRD	TP - (3)	РН	REVISED RESURVEY
EDITION	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS
	<u> </u>		□II. □III. □IV. □V. □FINAL
	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
FOURTH	TP(4)	PH	REVISED RESURVEY
EDITION	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS
	<u> </u>	<u></u>	☐II. ☐III. ☐IV. ☐V. ☐FINAL



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-01431

This 1:20,000 scale map is one of seven maps in project CM-8605, Corpus Christi Bay to Cuba Island, Texas, the project includes Baffin Bay. The project extends from latitude 27° 08' 00" north to latitude 27° 38' 00" and longitude 97° 11' 00" west to longitude 97° 47' 00".

Field work prior to compilation was accomplished during September 1987. It consisted of premarking triangulation stations to satisfy aerotriangulation requirements.

Photographic coverage was provided in September 1987 with color film at 1:60,000 scale using the "B" camera (focal length 152.74 millimeters) and in November 1987 with infrared film at 1:60,000 scale using the "Z" camera (focal length 153.15 millimeters).

Analytic aerotriangulation was performed at the Washington Science Center in March 1988.

Compilation was performed at the Atlantic Marine Center from office interpretation of the 1:60,000 color and infrared photography in June 1988.

Final review was accomplished at the Atlantic Marine Center in July 1988. A Chart Maintenance Print for Marine Chart Branch and Notes to the Hydrographer Print for the Hydrographic Branch were prepared and forwarded.

This map is to be registered as a Class III, Final Map.

The original base manuscript and all pertinent data were forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

TP-00551

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

AEROTRIANGULATION REPORT CM-8605 CORPUS CHRISTI BAY TO CUBA ISLAND, TEXAS MARCH 1988

21. Area Covered

This report covers the area from Corpus Christi Bay, down to Cuba Island including Baffin Bay and Alazan Bay. The project consists of seven 1:20,000-scale sheets; TP-01430 through TP-01436.

22. Method

Four strips of 1:60,000-scale color photographs were bridged by analytical aerotriangulation methods using the STK comparator. The bridging strips were adjusted to ground using the General Integrated Analytical Triangulation Program (GIANT). Pre-marked control stations were used as horizontal control. Common points were transferred between strips to ensure adequate junctioning.

Ratio values were determined for the bridging photographs and the 1:60,000-scale MHW, MLLW and Mid Range infrared photographs. A copy of these values and a sketch of the photo coverage are attached to this report.

The base manuscripts were plotted on the Kongsberg plotter. The positions are in the Texas South, State Plane Coordinate System. This is a Lambert conformal conic projection. All positions are based on NAD 1983. In addition, 10mm ticks depicting NAD 1927 projection intersections were plotted at twice the interval of the NAD 1983 projection intersections.

23. Adequacy of Control

The control was adequate and meets the National Ocean Service requirements. A listing of closures to control is attached.

24. Supplemental Data

USGS topographic quadrangles were used to obtain vertical control for bridging. NOS Nautical Charts were used to locate aids and landmarks.

Photography 25.

The coverage, overlap, and quality of the photographs were adequate for the job.

Submitted by,

Brian Thornton

Approved and Forwarded:

On O. Norman Chief, Aerotriangulation Unit

Ratio Values

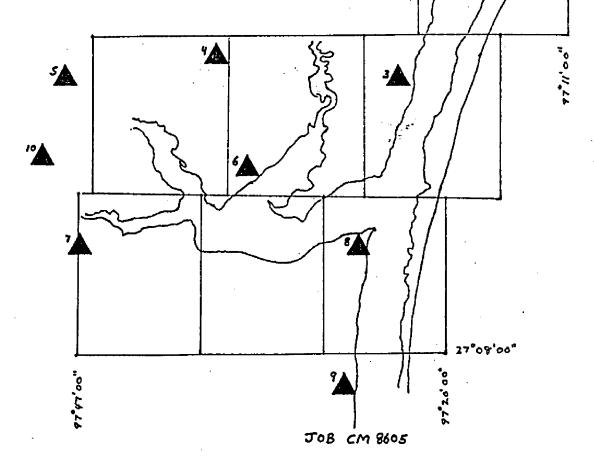
CM-8605

1:60,000 Bridging Photographs	RATIO VALUE
87 B(NC) 7312-7338 87 B(NC) 7344-7352 87 B(NC) 7355-7371 87 B(NC) 7397-7411	2.95 2.95 2.95 2.95
MHW 1:60,000 Black and White Infrared	
87 Z(R) 2763-2787	2.92
Mid Range 1:60,000 Black and White Infrared	
87 Z(R) 3247-3255 87 Z(R) 3262-3270 87 Z(R) 3276-3282	2.90 2.89 2.91
MLLW 1:60,000 Black and White Infrared	
87 Z(R) 3230-3242	2.91

FIT TO CONTROL

STATION NAMES	POINT NO.	VALUES IN FEET X Y
1. Laguna Madre N.Base, RM3	338101	+0.7 -1.1
2. Hardpan	332100	-0.6 +0.9
3. Sordo	326100	-0.3 +0.9
4. Pipe 1987	348100	-0.9 +2.3
5. Kleberg 2	352101	+2.2 +1.1
6. Agua	365100	-0.7 -1.1
7. Los Olmos 2	411101	-0.4
8. 140 Use	320100	-1.7 -0.7
9. Con	312100	+1.0 -0.3
10. Loyola RM3	355101	+0.6 -0.4

- I LAGUNA MADRE NORTH BASE, RM3
- 1 HARDPAN
- 3 SORDO
- 4 PIPE 1987
- 5 KLEBERG A
- 6 AGUA
- 7 LOS OLMOS 2
- 8 140 USE
- 9 CON
- 10 LOYOLA RM3



CORPUS CHRISTI BAY TO CUBA ISLAND

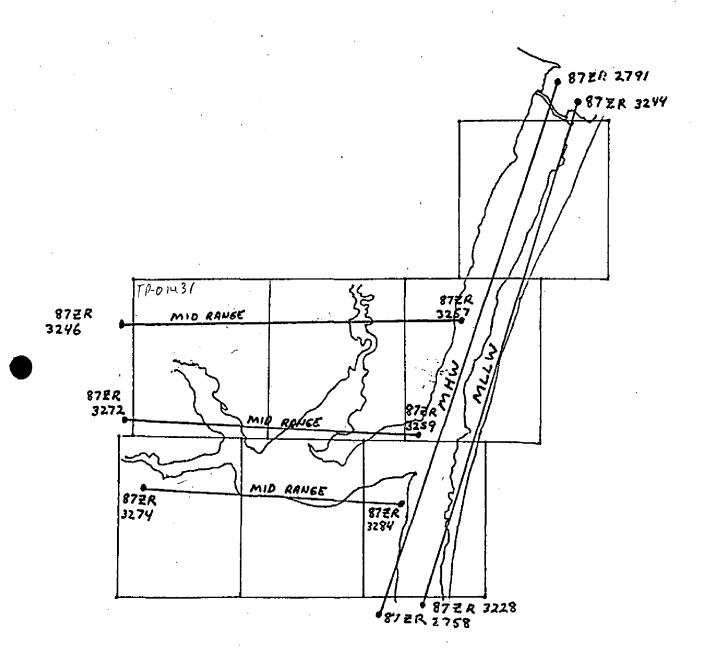
HORIZONTAL CONTROL

STRIP-1 878 (NC) 7312-7338 (EVEN # 30/1/) STAIP-2 870(NC) 7344- 7352 STRIP-3 878(NC) 7355-7371 (odd #3 only) STRIP-4 878 (NC) 7397-7411 (odd = ouly) STRIP 2 STRIP 3 STRIP 4

> JOB CM-860S CORPUS CHRISTI BAY TO CUBA ISLAND TEXAS

> > Bridsivg Photography
> > 1: 60,000

SHORELINE MAPPING



JOB CM-8605 CORPUS CHRISTI BAY TO CURA IS., TEXAS INFRARED PHOTOGRAPHY I: 60,000 SHORELINE MAPPING

NOAA FORM 76-41				S.U	U.S. DEPARTMENT OF COMMERCE
		DESCRIPTIV	RIPTIVE REPORT CONTROL RECORD		
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY	/ITY Coastal Mapping
TP-01431	CM-8605	505	1983 NA	AMC,	
`	Sound OF	AEROTRI-	COORDINATES IN FEET		
STATION NAME	INFORMATION (Index)	ANGULATION POINT NUMBER	srare Texas zone South	φ LATITUDE λ LONGITUDE	REMARKS
	Field	2001006	X=		
PIPE, 1987 ~	Froject Book /	00T0#6	-ĥ	λ 97° 36' 15.791" <	
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			=ĥ	γ	
			εX	ф	
			±ĥ	۲	
			= χ	ф	
			=ĥ	٧	***************************************
			<i>=</i> χ	ф	
			≠ĥ	γ	
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			=ĥ	٧	
			<i>=</i> χ	φ	
			=ĥ	٧	
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			=ĥ	γ	
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			≖ĥ	γ	
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			y:	_~~	
COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATE
LISTED BY R. R. Kravitz		DATE 4/27/88	LISTING CHECKED BY F. Mauldin		DATE 5/26/88
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE
		SUPERSEDES NO	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	CH IS OBSOLETE.	

COMPILATION REPORT

TP-01431

31. DELINEATION:

Delineation was accomplished using Wild B-8 stereo instrument compilation methods. Instrument compilation was used to delineate shoreline, alongshore, and interior detail based upon office interpretation of the 1:60,000 scale bridging/compilation color photographs.

Due to the lack of significant change in tide levels in the back bay areas, the infrared photography for this map was flown at a mid range stage of tide based on the gage at Port Mansfield. The infrared ratio photographs were used to assist in the interpretation of the shoreline. There was no mean lower low water line compiled on this map.

All photographs used to compile this map are listed on NOAA form 76-36B. The photography was adequate.

32. CONTROL:

The horizontal control was adequate. Refer to the Aerotriangulation Report, dated March 1988.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable to this project. Drainage was compiled from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The apparent mean high water line was compiled from office interpretation of the 1:60,000 scale bridging/compilation color photographs. Infrared ratio photographs were used to assist in the interpretation of the shoreline.

36. OFFSHORE DETAILS:

Offshore detail was compiled by instrument methods using the 1:60,000 scale bridging/compilation color photographs.

37. LANDMARKS AND AIDS:

Within the limits of this map, there were no charted aids to navigation and the charted landmarks could not be located photogrammetrically.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Refer to the Data Record Form 76-36B, item 5, of the Descriptive Report.

40. HORIZONTAL AND VERTICAL ACCURACY:

See item #32.

46. COMPARISON WITH EXISTING MAPS:

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

Riviera Beach, Texas; dated 1952, photorevised 1975; scale 1:24,000 Kleberg Point, Texas; dated 1951, photorevised 1975; scale 1:24,000 Riviera Beach NW, Texas; dated 1952, photorevised 1975; scale 1:24,000

Riviera Beach NE, Texas; dated 1951, photorevised 1975; scale 1:24,000

Riviera, Texas; dated 1979; scale 1:24,000 Ricardo, Texas; dated 1979; scale 1:24,000

47. COMPARISON WITH NAUTICAL CHARTS:

11308; 14th edition; dated October 20, 1984; scale 1:40,000 SC

TP-01431

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Robert R. Kravitz

Cartographic Technician

May 6, 1988

Approved:

James L. Byrd, Jr.

Chief, Coastal Mapping Unit

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8605 (Corpus Christi Bay to Cube Island, Texas)

TP-01431

Cayo del Grullo

Drum Point

Fernando Creek

Jaboncillos Creek

Loyola Beach (locality)

Neubauer Point

Pinto Creek

Radicha Creek

Sandy Hook

Approved:

Charles E. Harrington Chief Geographer

Nautical Charting Division

Charting and Geodetic Services

REVIEW REPORT SHORELINE

TP-01431

61. GENERAL STATEMENT:

See Summary included with this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with USGS quadrangles:

KLEBERG POINT, TEXAS, dated 1951, photorevised 1975, RICARDO, TEXAS, dated 1979, RIVIERA, TEXAS, dated 1979, RIVIERA BEACH, TEXAS, dated 1952, photorevised 1975, RIVIERA BEACH NE, TEXAS, dated 1951, photorevised 1975, and RIVIERA BEACH NW, TEXAS, dated 1952 photorevised 1975, all six are 1:24,000 scale.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEY:

There is no contemporary hydrographic survey within the limits of this map.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following NOS Chart:

11308, 14th edition, dated October 20, 1984, scale 1:40,000 SC.

TP-01431

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted by:

Lowell O. Neterer, Jr.

Final Reviewer July 1988

Approved for forwarding:

Billy N. Barnen

Billy H. Barnes

Chief, Quality Assurance Group, AMC

Approved:

Chief, Photogrammetric Production Sect. Chief, Photogrammetry Branch

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPOR	OF SURVEY NO	
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INSTRUCTIONS

- A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

 1. Letter all information.

- 2. In "Remarks" column cross out words that do not apply.

 3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
		························	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
<u> </u>			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
	<u>_</u>		Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
 			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
-			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
		1	Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
		!	Drawing No.
-+-			
			