

TP-01435

TP-01435

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. TP-01435	Edition No. 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 KLEBERG POINT	
1987 TO 19	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
DESCRIPTIVE REPORT - DATA RECORD		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit Atlantic Marine Center, Norfolk, VA OFFICER-IN-CHARGE C. Dale North, Jr.		SURVEY TP. <u>01435</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III Final</u> JOB <u>CM-8605</u> LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Aerotriangulation None Compilation April 18, 1988		Control July 28, 1987	
II. DATUMS			
1. HORIZONTAL: <input checked="" type="checkbox"/> 1983 <input checked="" type="checkbox"/> 1927 NORTH-AMERICAN		OTHER (Specify) _____	
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input checked="" type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify) _____	
3. MAP PROJECTION Lambert Conformal Projection		4. GRID(S) STATE ZONE N.A. N.A.	
5. SCALE 1:20,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY		B. Thornton	Mar. 1988
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Kongsburg Plotter CHECKED BY		B. Thornton D. Norman	Mar. 1988 Mar. 1988
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:20,000 CHECKED BY		D. Miller F. Mauldin N.A. N.A.	Apr. 1988 Apr. 1988
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: Smooth Drafted CONTOURS BY CHECKED BY SCALE: 1:20,000 HYDRO SUPPORT DATA BY CHECKED BY		D. Miller F. Mauldin N.A. N.A. D. Miller F. Mauldin	Apr. 1988 June 1988 Apr. 1988 June 1988
5. OFFICE INSPECTION PRIOR TO Final Review BY		F. Mauldin	June 1988
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		N.A. N.A.	
7. COMPILATION SECTION REVIEW Class III BY		F. Mauldin	June 1988
8. FINAL REVIEW Class III BY		L. O. Neterer, Jr.	July 1988
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		L. O. Neterer, Jr.	Aug. 1988
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		P. Dampsey	Jan 1989
11. MAP REGISTERED - COASTAL SURVEY SECTION BY			

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC 10 (Z) (Z = 153.15mm) Wild RC 10 (B) (B = 152.74mm)		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input checked="" type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE Coordinated Photography		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Central MERIDIAN 90°	
				<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
87 BCN 7399-7405 (odd numbers only)	9-30-87	1425	1:60,000	*	
87 ZR 3278-3280 (even numbers only)	11-10-87	1412	1:60,000	0.1 ft. above MLLW/ 0.2 ft. below MHW	
87 ZR 3264	11-10-87	1351	1:60,000	0.1 ft. above MLLW/ 0.2 ft. below MHW	
Mean Tide Range - Diurnal					

REMARKS * Tidal information for these photographs was not available. Infrared photography was taken at a mid-range stage of tide. Tidal information was based on the tide station at Port Mansfield.

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high-water line was compiled from office interpretation of the above listed compilation/bridging color photographs using stereo instrument methods.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

There was no mean lower-low-water line compiled on this manuscript.

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

NORTH	EAST	SOUTH	WEST
TP-01431 & TP-01432	TP-01436	CM-8706; TP-01437	TP-01434

REMARKS

NOAA FORM 76-36C (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
TP-01435			
HISTORY OF FIELD OPERATIONS			
I. <input checked="" type="checkbox"/> FIELD INVESTIGATION OPERATION <input type="checkbox"/> FIELD EDIT OPERATION			
OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		J. Dunford	Sept. 1987
2. HORIZONTAL CONTROL		J. Dunford	Sept. 1987
RECOVERED BY		N.A.	
ESTABLISHED BY		N.A.	
PRE-MARKED OR IDENTIFIED BY		D. Miller	Sept. 1987
3. VERTICAL CONTROL		N.A.	
RECOVERED BY		N.A.	
ESTABLISHED BY		N.A.	
PRE-MARKED OR IDENTIFIED BY		N.A.	
4. LANDMARKS AND AIDS TO NAVIGATION		N.A.	
RECOVERED (Triangulation Stations) BY		N.A.	
LOCATED (Field Methods) BY		N.A.	
IDENTIFIED BY		N.A.	
5. GEOGRAPHIC NAMES INVESTIGATION		TYPE OF INVESTIGATION	
		<input type="checkbox"/> COMPLETE	
		<input type="checkbox"/> SPECIFIC NAMES ONLY	
		<input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION		CLARIFICATION OF DETAILS BY	N.A.
7. BOUNDARIES AND LIMITS		SURVEYED OR IDENTIFIED BY	N.A.
II. SOURCE DATA			
1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
None		None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS (Clarification of details)			
None			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED			
None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS			
None			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)			
None			

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

TP-01435

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	June 1988	Class III Manuscript		
Final Review	July 1988	Class III Final Map	Jan 1989	Jan 1989

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER pages	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		Jan 1989	Charted landmarks and nonfloating aids to navigation listing

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

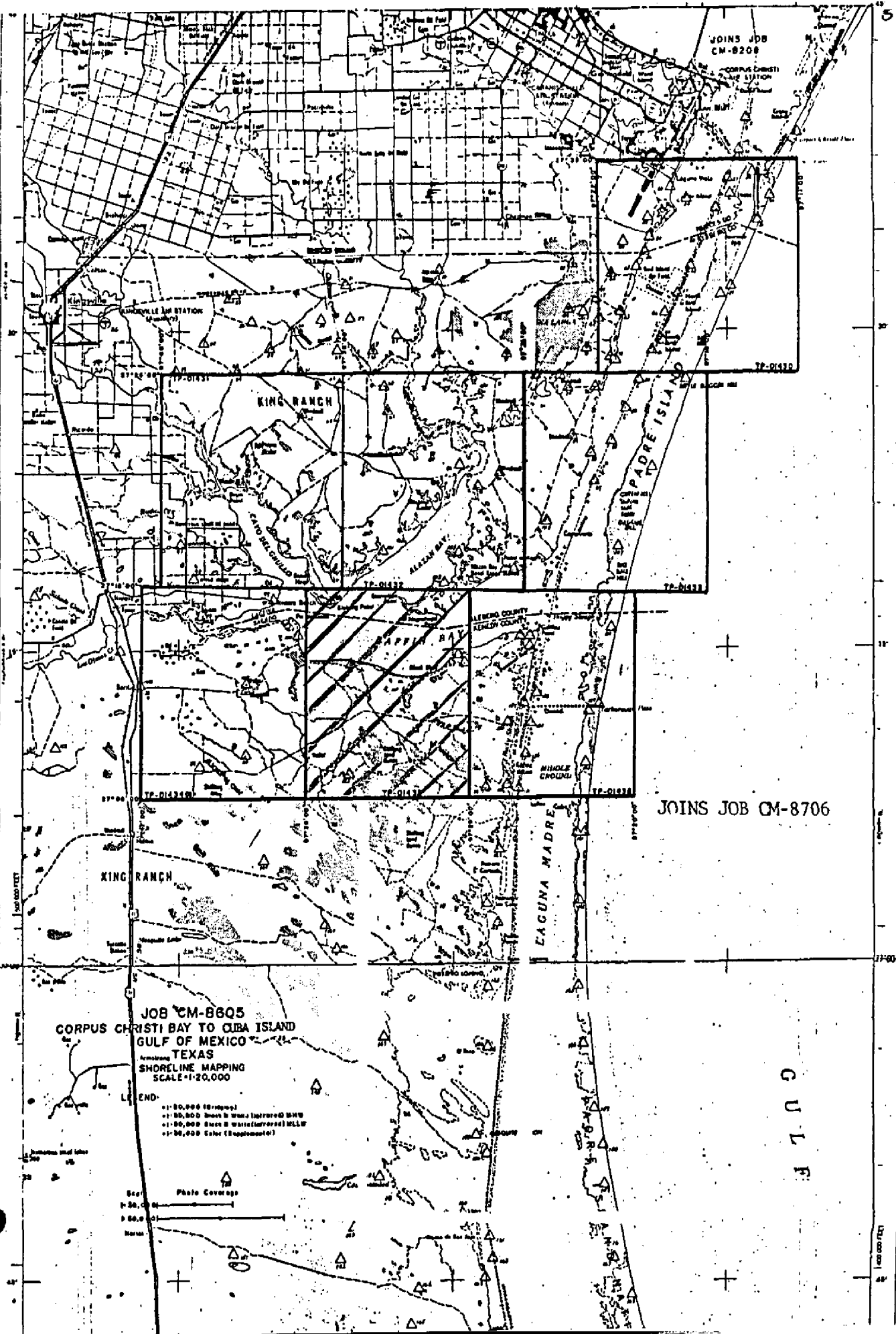
III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
 3. ☐ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
 ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	



JOINS JOB
CM-8208

JOINS JOB CM-8706

JOB CM-8805
CORPUS CHRISTI BAY TO CUBA ISLAND
GULF OF MEXICO
TEXAS
SHORELINE MAPPING
SCALE 1:20,000

- LEGEND:
- 1:50,000 (Shaded)
 - 1:50,000 (Shaded to Water) (Improved MHW)
 - 1:50,000 (Shaded to Water) (Improved MLLW)
 - 1:50,000 (Shaded to Water) (Improved MLLW)

Scale
Photo Coverage
1:50,000
1:100,000

GULF

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-01435

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.

25. Photography

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

Submitted by,

Brian Thornton

Brian Thornton

Approved and Forwarded:

Don O. Norman

Don O. Norman

Chief, Aerotriangulation Unit

Ratio Values

CM-8605

1:60,000 Bridging Photographs RATIO VALUE

87 B(NC) 7312-7338	2.95
87 B(NC) 7344-7352	2.95
87 B(NC) 7355-7371	2.95
87 B(NC) 7397-7411	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	2.90
87 Z(R) 3262-3270	2.89
87 Z(R) 3276-3282	2.91

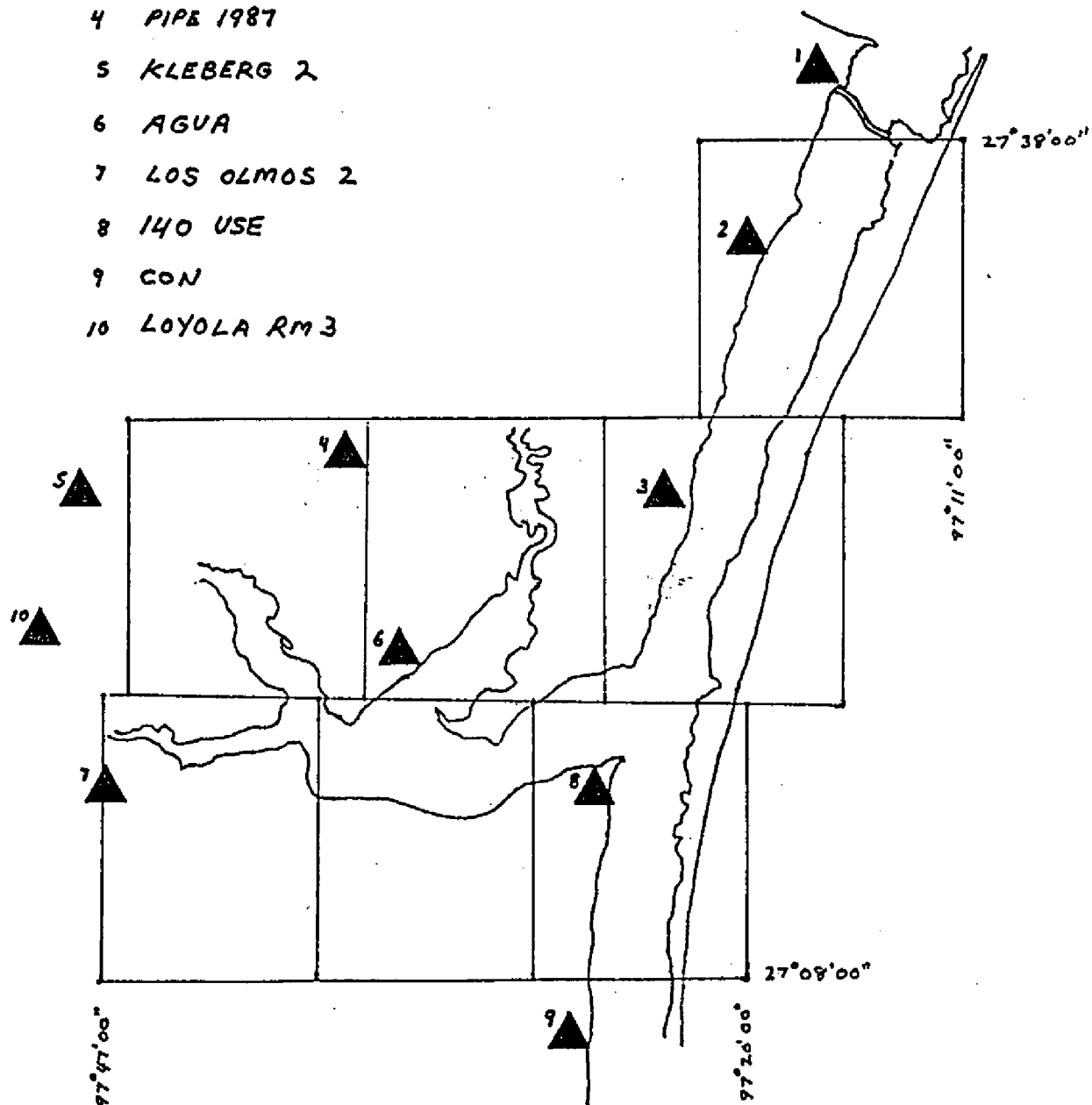
MLLW 1:60,000 Black and White Infrared

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	-1.6
8. 140 Use	320100	-1.7	-0.7
9. Con	312100	+1.0	-0.3
10. Loyola RM3	355101	+0.6	-0.4

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



JOB CM 8605

CORPUS CHRISTI BAY TO CUBA ISLAND
TEXAS

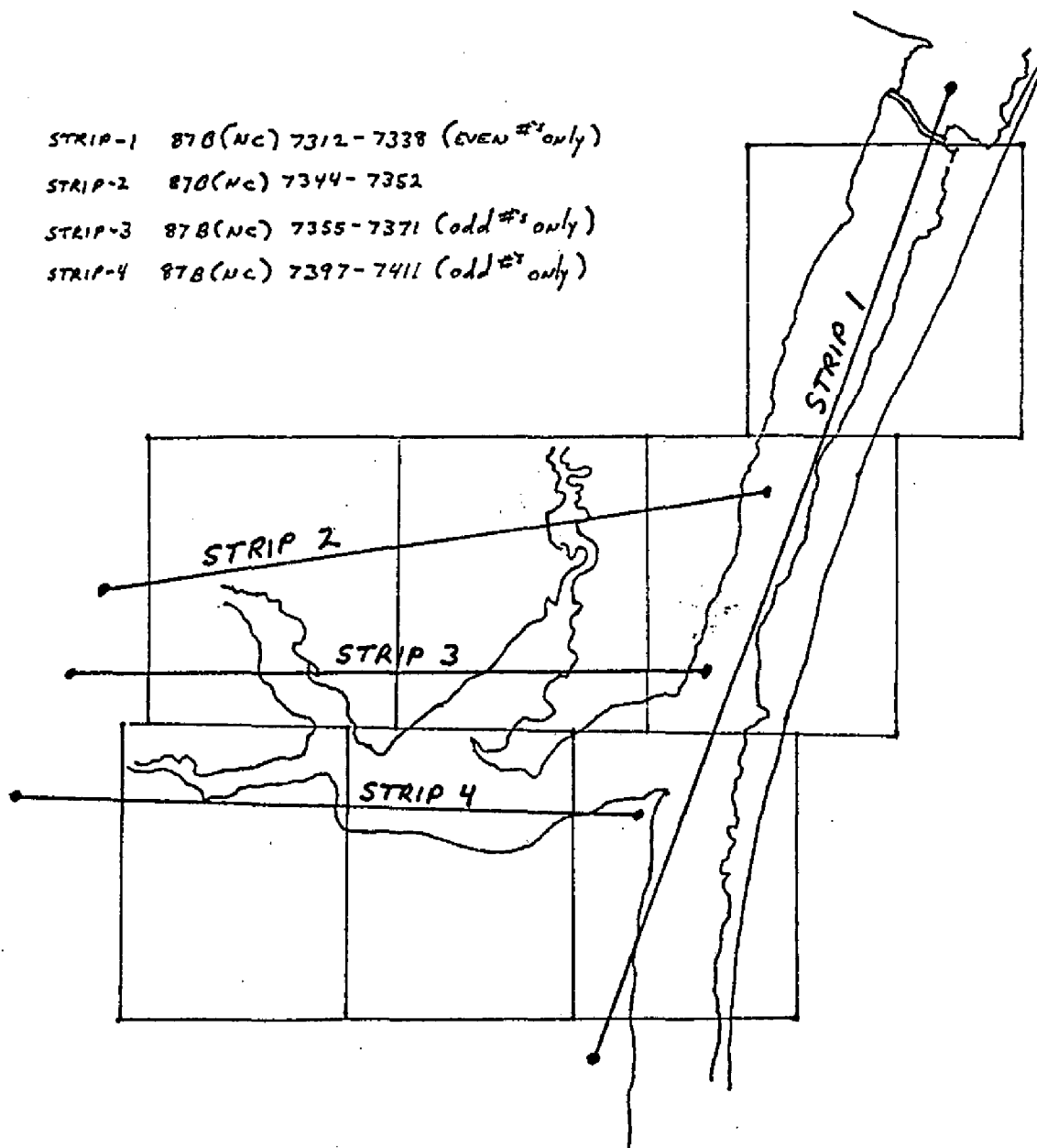
HORIZONTAL CONTROL

STRIP-1 870(NC) 7312-7338 (EVEN #s only)

STRIP-2 870(NC) 7344-7352

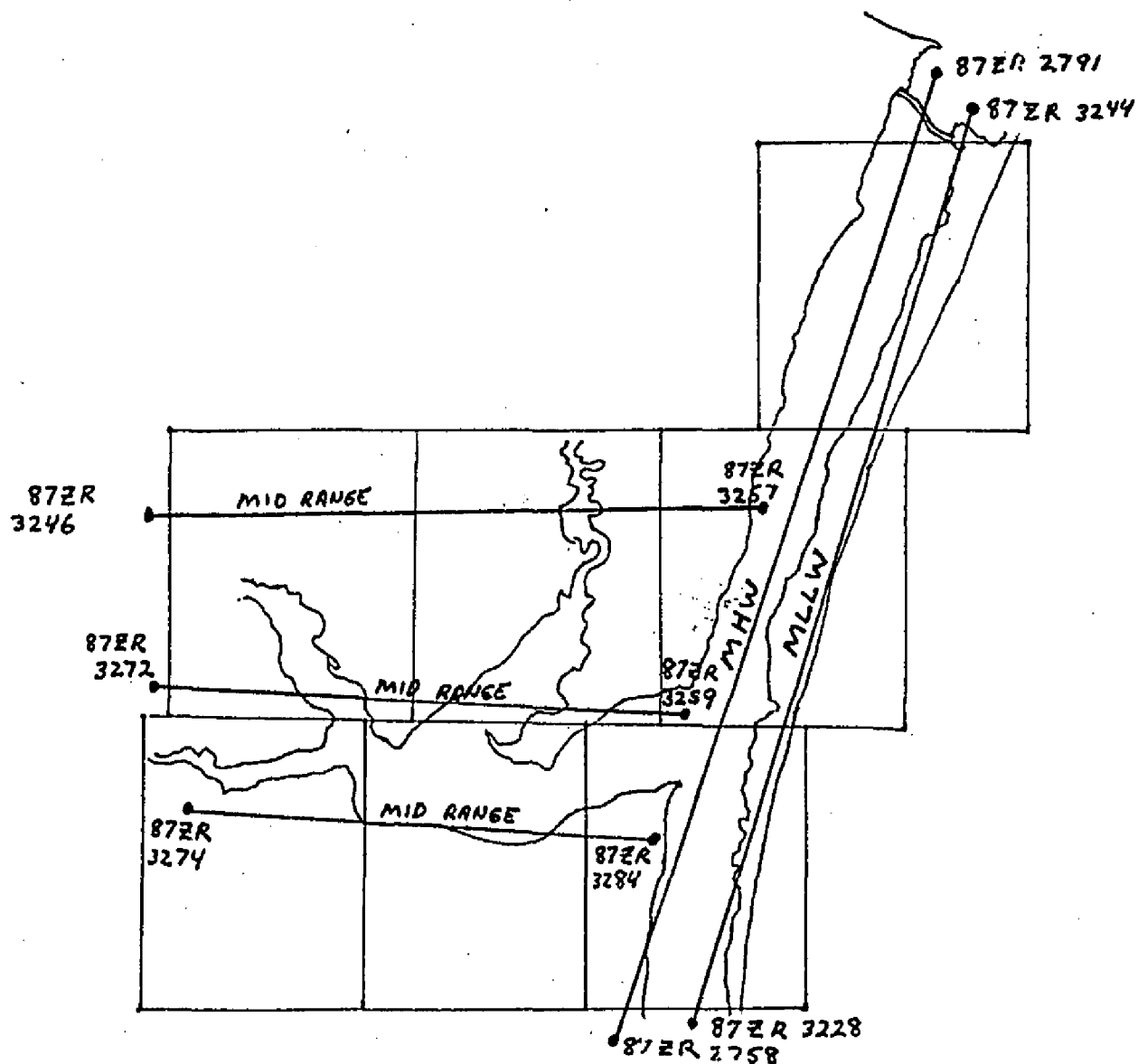
STRIP-3 878(NC) 7355-7371 (odd #s only)

STRIP-4 878(NC) 7397-7411 (odd #s only)



JOB CM-8605
CORPUS CHRISTI BAY TO CUBA ISLAND
TEXAS

BRIDGING PHOTOGRAPHY
1:60,000
SHORELINE MAPPING



JOB CM-8605
 CORPUS CHRISTI BAY TO CUBA IS., TEXAS
 INFRARED PHOTOGRAPHY
 1:60,000
 SHORELINE MAPPING

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	GEODETTIC DATUM		ORIGINATING ACTIVITY		REMARKS
					NA 1983	Unit, AMC, Norfolk, VA			
					COORDINATES IN FEET		GEOGRAPHIC POSITION		
					STATE	TEXAS	ϕ LATITUDE	λ LONGITUDE	
					ZONE	South			
None					X=		ϕ		
					Y=		λ		
					X=		ϕ		
					Y=		λ		
					X=		ϕ		
					Y=		λ		
					X=		ϕ		
					Y=		λ		
					X=		ϕ		
					Y=		λ		
					X=		ϕ		
					Y=		λ		
					X=		ϕ		
					Y=		λ		
					X=		ϕ		
					Y=		λ		
COMPUTED BY					COMPUTATION CHECKED BY			DATE	
LISTED BY	D. Miller				LISTING CHECKED BY			DATE	June 1988
HAND PLOTTING BY					HAND PLOTTING CHECKED BY			DATE	

COMPILATION REPORT

TP-01435

31. DELINEATION:

Delineation was accomplished using Wild B-8 stereo instrument 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 insignificant differences in the tide levels in the back bay areas, the infrared photography for this map was taken 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 DETAIL:

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.

TP-01435

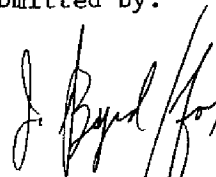
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

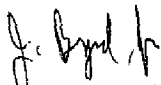
ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

David R. Miller
Cartographer
May 2, 1988

Approved:

James L. Byrd, Jr.
Chief, Coastal Mapping Unit

JUN 27 196
18

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP-01435

Alazan Bay

Baffin Bay

Black Bluff

Cayo del Infiernillo

East Kleberg Point

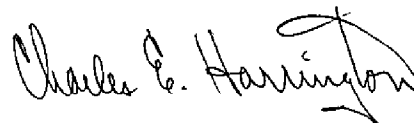
Kleberg Point

Los Corrallos

Pie de Gallo

Starvation Point

Approved:



Charles E. Harrington
Chief Geographer
Nautical Charting Division
Charting and Geodetic Services

REVIEW REPORT
SHORELINE

TP-01435

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 the following USGS quadrangles:

KLEBERG POINT, TEXAS, dated 1951, photorevised 1975,
LA PARRA RANCH, TEXAS, dated 1952, photorevised 1975,
LA PARRA RANCH, NE, TEXAS, dated 1951, photorevised 1975,
POINT OF ROCKS, TEXAS, dated 1952, photorevised 1975,
RIVIERA BEACH, TEXAS, dated 1952, photorevised 1975,
YARBOROUGH PASS, TEXAS, dated 1952, photorevised 1975,
all six quadrangles 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 Charts:

11304, 10th edition, dated December 25, 1982, scale 1:80,000
11308, 14th edition, dated October 20, 1984, scale 1:40,000 SC.

TP-01435

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.
Lowell O. Neterer, Jr.
Final Reviewer
July 1988

Approved for forwarding:

Billy H. Barnes

Billy H. Barnes
Chief, Quality Assurance Group, AMC

Approved:

A. Y. Bynon

Chief, Photogrammetric Production Sect. Chief, Photogrammetry Branch

CHARTED LANDMARKS AND NONFLOATING AIDS TO NAVIGATION LISTING

PAGE 1 OF 1

PROJECT: CM-8605

MAP NUMBER (Scale); Locality: TP-01435, 1:20,000; Corpus Christi Bay
to Cuba Island, Texas

GEODETIC DATUM: N.A. 1983

The following charted landmarks and nonfloating aids to navigation have been measured and or confirmed during photogrammetric operations. Refer to Nautical Charting Division Standard Digital Data Exchange Format documentation for quality code (QC) criteria and clarification of cartographic codes (CC).

[illegible]

Listing approved by:

FINAL REVIEWER

Aug 1988
DATE

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

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.

[illegible]