

TP-01433

TP-01433

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-01433	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 BIG COVE	
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>01433</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III Final</u> JOB <u>CM-8605</u>	
I. INSTRUCTIONS DATED		LAST PRECEDING MAP EDITION	
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: Kongsberg Plotter CHECKED BY		B. Thornton D. Norman	Mar. 1988 Mar. 1988
3. STEREOSCOPIC INSTRUMENT COMPILATION PLANIMETRY BY CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:20,000 CHECKED BY		P. Evans 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		P. Evans F. Mauldin N.A. N.A. P. Evans F. Mauldin	Apr. 1988 May 1988 Apr. 1988 May 1988
5. OFFICE INSPECTION PRIOR TO Final Review BY		F. Mauldin	May 1988
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		N.A. N.A.	
7. COMPILATION SECTION REVIEW Class III BY		F. Mauldin	May 1988
8. FINAL REVIEW Class III BY		L. O. Neterer, Jr.	June 1988
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		L. O. Neterer, Jr.	Aug 1988
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		P. Dempsey	Feb 1989
11. MAP REGISTERED - COASTAL SURVEY SECTION BY			

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC 10(B) (B = 152.74mm) Wild RC 10(Z) (Z = 153.15mm)		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE	
<input type="checkbox"/> PREDICTED TIDES				Central	
<input checked="" type="checkbox"/> REFERENCE STATION RECORDS				MERIDIAN	
<input checked="" type="checkbox"/> TIDE Coordinated Photography				90°	
<input type="checkbox"/> DAYLIGHT					
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
**87 BCN 7322-7328	9-30-87	1328	1:60,000	*	
**87 ZR 3234-3238	11-10-87	1315	1:60,000	At MLLW	
87 ZR 2772, 2775, 2778	10-03-87	1014	1:60,000	0.3 ft. below MHW	
Mean Tide Range - Diurnal					

REMARKS Tide coordinated mean high-water and mean lower low-water photographs are based on actual tide data. These photographs are referenced to the tide station at Padre Island. *Tidal information for these photographs was not available.

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. The tide coordinated black and white infrared ratio photographs were used to assist in the interpretation of the mean high-water line.

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

The mean lower low-water line was compiled graphically from the above listed tide coordinated black and white infrared ratio photographs, on the Gulf Coast only.

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-01430	No Survey	TP-01436	TP-01432

REMARKS

TP-01433

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD ~~REVISION~~ OPERATION Premark ☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. Dunford	Sept. 1987
2. HORIZONTAL CONTROL	RECOVERED BY D. Miller ESTABLISHED BY N.A. PRE-MARKED OR IDENTIFIED BY D. Miller	Sept. 1987
3. VERTICAL CONTROL	RECOVERED BY N.A. ESTABLISHED BY N.A. PRE-MARKED OR IDENTIFIED BY N.A.	
4. LANDMARKS AND AIDS TO NAVIGATION	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 BY <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

Paneled

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
87 BCN 7326	SORDO, 1939		

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: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

1 Form 76-53

1 Form 75-82A

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

TP-01433

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	May 1988	Class III Manuscript		
Final Review	June 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 aids to navigation form

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

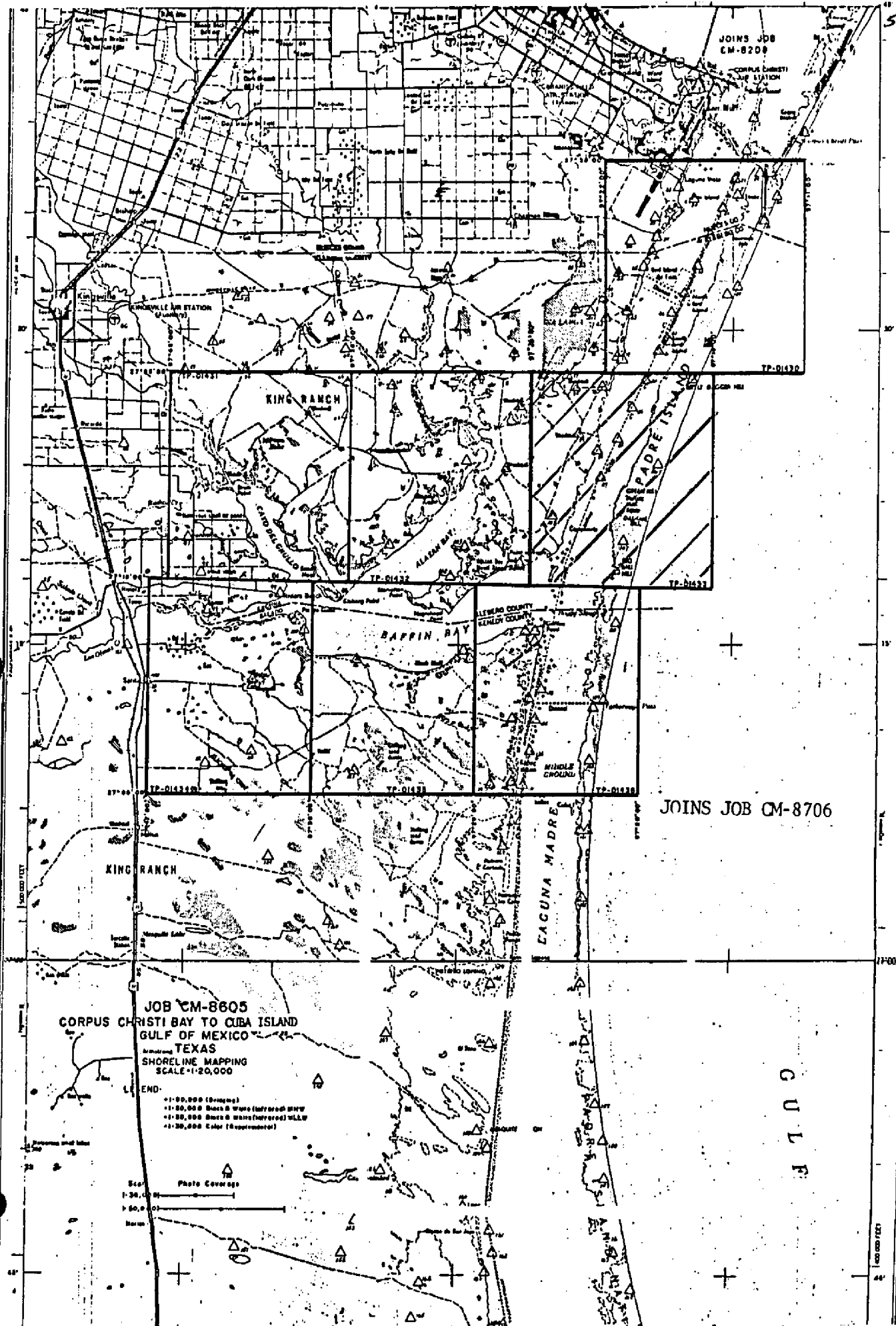
III. FEDERAL RECORDS CENTER DATA

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	



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SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-01433

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. This 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 October and 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 May 1988.

Final review was accomplished at the Atlantic Marine Center in June 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.

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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
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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

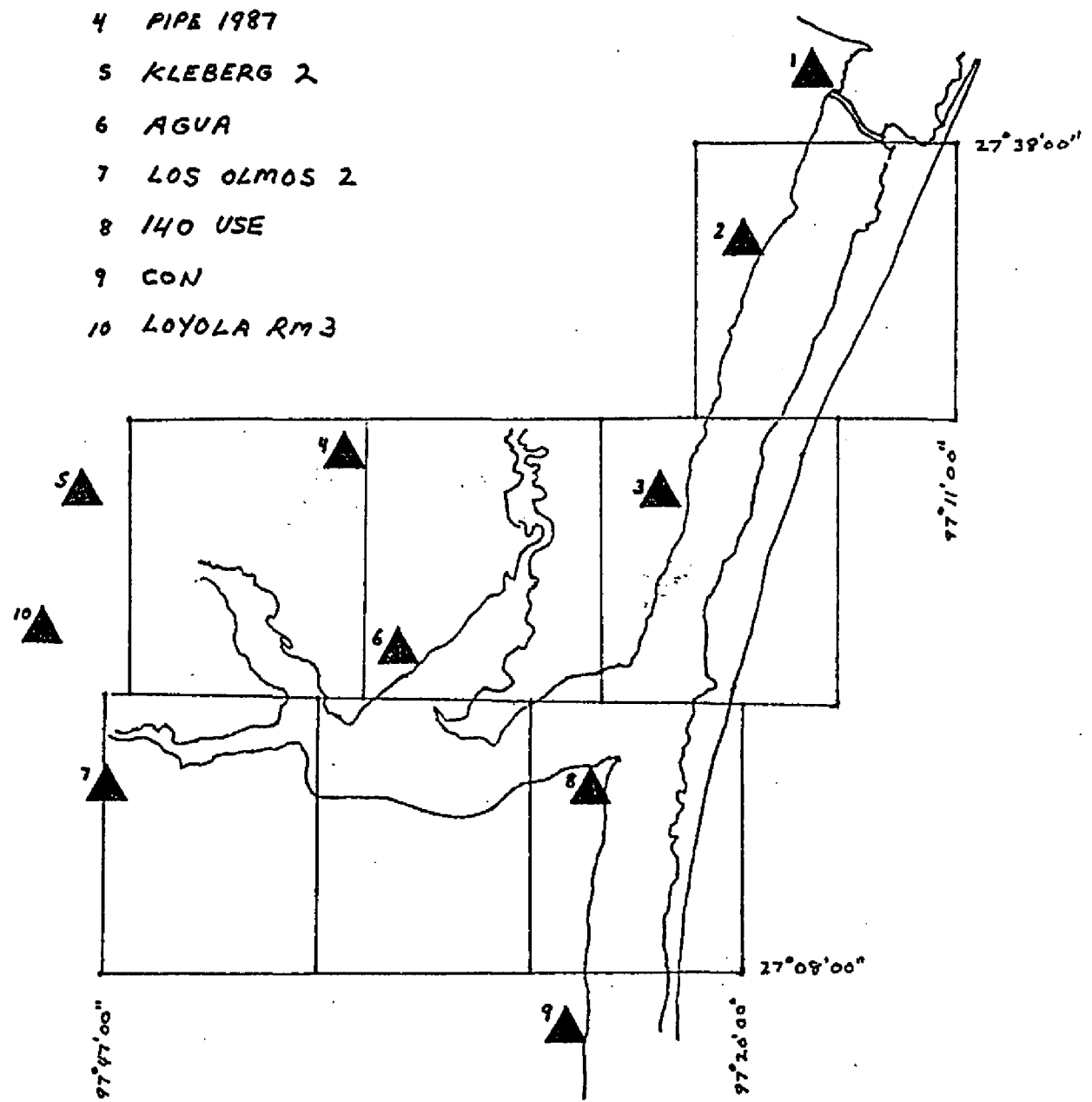
MLLW 1:60,000 Black and White Infrared

87 Z(R) 3230-3242	2.91
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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 I40 USE
- 9 CON
- 10 LOYOLA RM3



JOB CM 8605

CORPUS CHRISTI BAY TO CUBA ISLAND

TEXAS

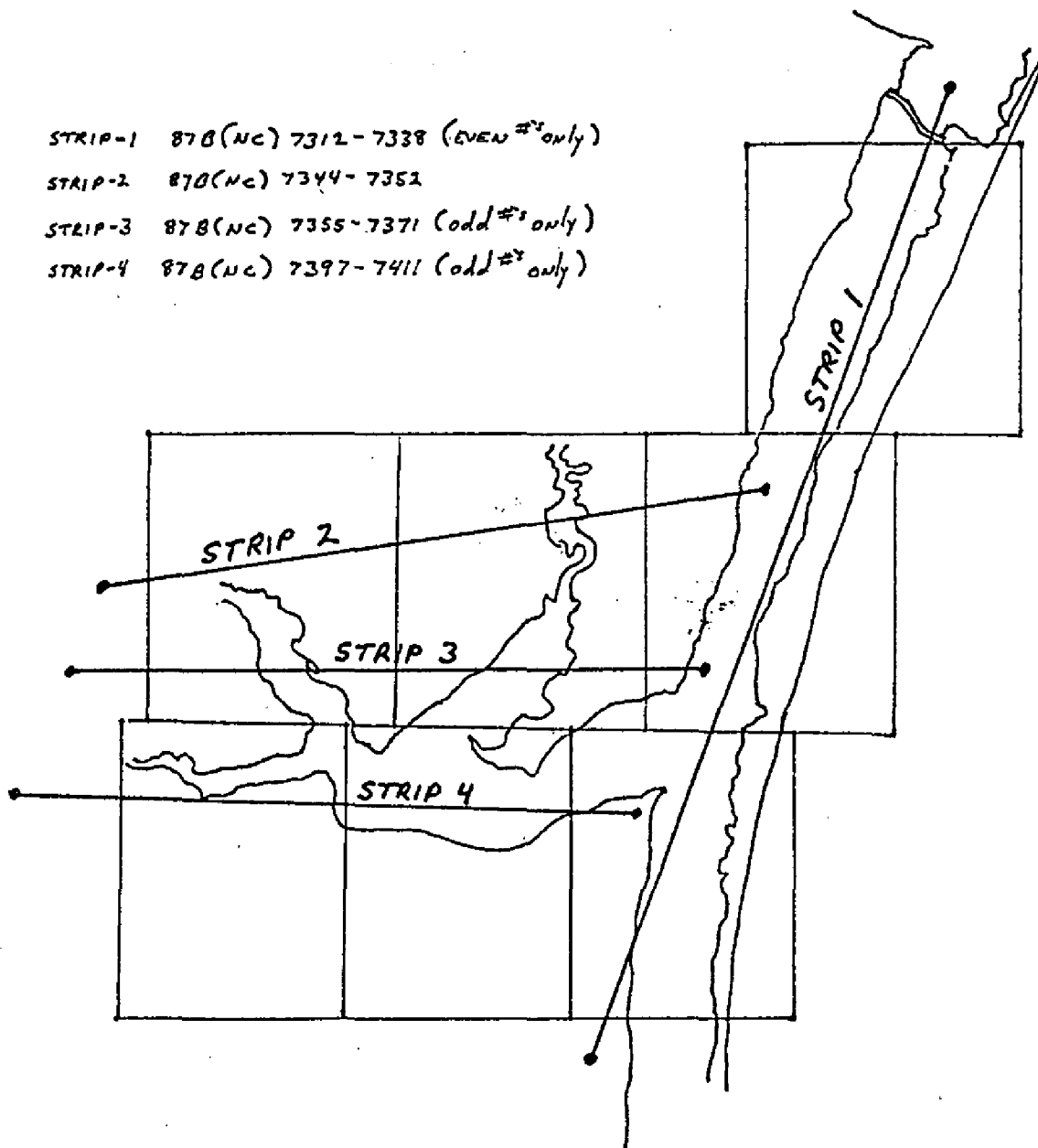
HORIZONTAL CONTROL

STRIP-1 87B(NC) 7312-7338 (EVEN #s only)

STRIP-2 87B(NC) 7344-7352

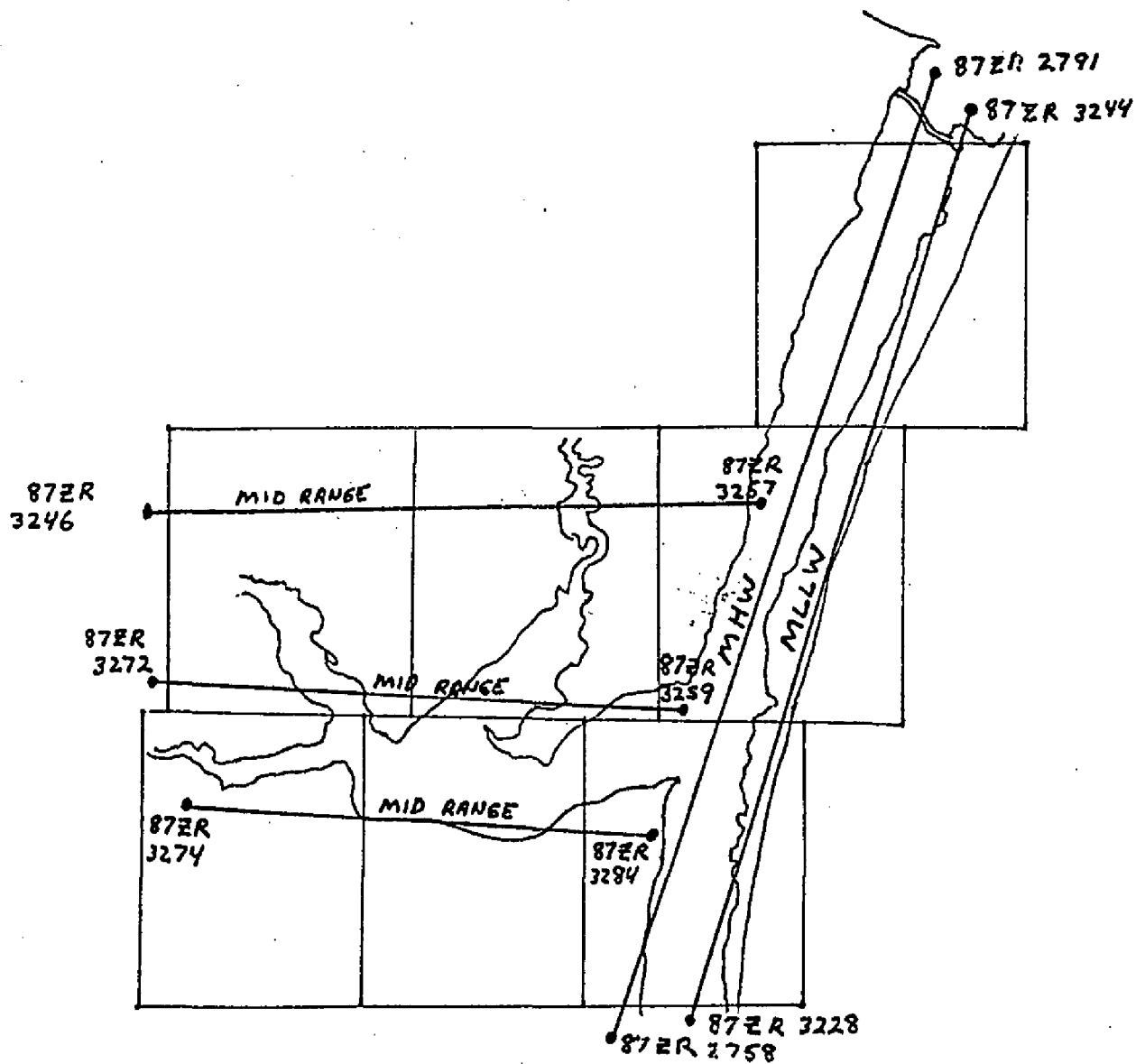
STRIP-3 87B(NC) 7355-7371 (odd #s only)

STRIP-4 87B(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.	JOB NO.	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	GEODETTIC DATUM		GEOGRAPHIC POSITION		ORIGINATING ACTIVITY	REMARKS
					COORDINATES IN FEET STATE <u>TEXAS</u> ZONE <u>South</u>	ϕ LATITUDE λ LONGITUDE				
TP-01433	CM-8605	Quad 270972 Sta 1023	326100	X=	Y=	X=	Y=	Unit, AMC, Norfolk, VA	Coastal Mapping	
SORDO, 1939					X=	Y=	X=	Y=		
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COMPILATION REPORT

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31. DELINEATION:

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

Tide coordinated mean lower low water infrared ratio photographs were used to graphically compile the approximate mean lower low water line on the Gulf coast. Control for all graphic delineation was provided by instrument compilation of coastal detail.

All photographs used to compile this map are listed on NOAA form 76-36B. The photography was adequate. The water level in the back bay areas is affected more by weather conditions than by actual changes in tide levels. For this reason, the mean high water infrared photographs appear to be at a lower stage of tide than the mean lower low water infrared photographs.

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 mean high water line and the apparent mean high water line in the bay areas were compiled from office interpretation of the 1:60,000 scale bridging/compilation color photographs and were complimented by the tide coordinated mean high water infrared ratio photographs.

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36. OFFSHORE DETAILS:

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

The tide coordinated mean lower low water infrared ratio photographs were used to compile the approximate mean lower low water line on the Gulf coast as described in item #31.

37. LANDMARKS AND AIDS:

Within the limits of this map, five charted aids to navigation and no charted landmarks were 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:

South Bird Island, Texas; dated 1969; scale 1:24,000

South Bird Island NW, Texas; dated 1951, photorevised 1975; scale 1:24,000

South Bird Island SE, Texas; dated 1951, photorevised 1975; scale 1:24,000

Point Of Rocks, Texas; dated 1951, photorevised 1975; scale 1:24,000

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47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following National Ocean Service charts:

11307; 29th edition; dated July 26, 1986; scale 1:80,000

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

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

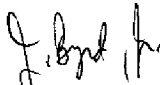
None.

Submitted by:



Paul L. Evans, Jr.
Cartographic Technician
April 21, 1988

Approved:



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

¹⁹
JUN 27 1961

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP-01433

Baffin Bay

Big Ball Hill

Big Cove

Compuerta Pass

Dagger Hill

Green Hill

Little Dagger Hill

Madre, Laguna

Mexico, Gulf of

Padre Island

Point of Rocks

Approved:



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

REVIEW REPORT
SHORELINE

TP-01433

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:

POINT OF ROCKS, TEXAS, dated 1951, photorevised 1975,
SOUTH BIRD ISLAND, TEXAS, dated 1969,
SOUTH BIRD ISLAND NW, TEXAS, dated 1951, photorevised 1975,
SOUTH BIRD ISLAND SE, TEXAS, dated 1951, photorevised 1975,
all four 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:

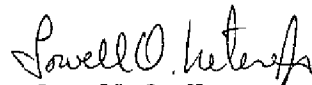
11307, 29th edition, dated July 26, 1986, scale 1:80,000 and
11308, 14th edition, dated October 20, 1984, scale 1:40,000 SC.

TP-01433

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

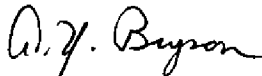
Submitted by:


Lowell O. Neterer, Jr.
Final Reviewer
June 1988

Approved for forwarding:


Billy H. Barnes
Chief, Quality Assurance Group, AMC

Approved:


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-01433, 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

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]