

TP 00100

TP

TP 00100

NOAA FORM 76-35 (3-76)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. TP-00100	Edition No. 1
Job No. CM-7808	
Map Classification Final Field Edited	
Type of Survey Shoreline	
LOCALITY	
State Florida	
General Locality Caxambas Bay	
Locality Marco Island to Cape Romano	
19 TO 1980	
REGISTRY IN ARCHIVES	
DATE	

TYPE OF SURVEY

SURVEY TP. 00100

DESCRIPTIVE REPORT - DATA RECORD

☒ ORIGINAL

MAP EDITION NO. (1)

☐ RESURVEY

MAP CLASS Final

☐ REVISED

JOB XPHCM-7808

PHOTOGRAMMETRIC OFFICE

Rockville, Md.

OFFICER-IN-CHARGE

Cmdr. W. Simmons

LAST PRECEDING MAP EDITION

TYPE OF SURVEY

JOB PH- _____

☐ ORIGINAL

MAP CLASS _____

☐ RESURVEY

SURVEY DATES:

☐ REVISED

19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE

General-Office-NOS-Cooperative Coastal
Boundary Mapping - Job PH-7000
9 Dec 1975
Office - 18 August 1977
Amendment I - 3 Jan 1978
Amendment II - 7 Mar 1978

2. FIELD

Field Instructions - 27 Dec 1976
11 Aug 1977
Amendment - Field Edit Procedures
30 Jan 1978

II. DATUMS

1. HORIZONTAL:

☒ 1927 NORTH AMERICAN

OTHER (Specify)

2. VERTICAL:

☒ MEAN HIGH-WATER
☐ MEAN LOW-WATER
☐ MEAN LOWER LOW-WATER
☐ MEAN SEA LEVEL

OTHER (Specify)

Gulf Coast Low Water

3. MAP PROJECTION

Transverse Mercator

4. GRID(S)

STATE

Florida

ZONE

West

5. SCALE

1:20,000

STATE

ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY LANDMARKS AND AIDS BY	B. Thornton N/A	Aug 1979
2. CONTROL AND BRIDGE POINTS METHOD: Calcomp	PLOTTED BY CHECKED BY	J. Taylor N/A	Dec 1979
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY CHECKED BY	N/A	
INSTRUMENT:	CONTOURS BY	N/A	
SCALE:	CHECKED BY		
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	P. Dempsey	Jan 1980
	CHECKED BY	C. Lewis	May 1980
METHOD: Graphic	CONTOURS BY	N/A	
	CHECKED BY		
SCALE: 1:20,000	HYDRO SUPPORT DATA BY	N/A	
	CHECKED BY		
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	D. Brant	May 1980
6. APPLICATION OF FIELD EDIT DATA	BY	F. Wright	July 1980
	CHECKED BY	C. Lewis	July 1980
7. COMPILATION SECTION REVIEW	BY	F. Wright	Sept 1980
8. FINAL REVIEW	BY	P. Dempsey	May 1985
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	P. Dempsey	May 1985
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	P. Dempsey	May 1985
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	E. DAUGHERTY	MAY 85

COMPILATION SOURCES

TP-00100

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 and RC-10		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Eastern	<input checked="" type="checkbox"/> STANDARD [] DAYLIGHT
				MERIDIAN 75th	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
78 ECR 3111-3112	5 Nov 78	1006	1:35,000	Predicted See NOAA Form 76-36B(1)	
79 CR 9662-9663	20 Mar 79	1119	1:60,000		

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the MHW line is the black-and-white infrared photography listed in Item 1 above. Where the shoreline is obscured by vegetation (such as mangrove) the apparent shoreline was used.

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

Gulf Coast

The source of the GCLW line is the black-and-white infrared photography listed in Item 1 above. Refer to Item 31 of the Compilation Report

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-00099	TP-00101	None	None

REMARKS

Final junctions were made in the Coastal Mapping Section

TIDE - COORDINATED PHOTOGRAPHY
TP - 00100

LOCATION AND PHOTOGRAPHY	TIDE STATIONS <i>(In operation at time of photography)</i>	STAGE OF TIDE	MEAN RANGE
79 CR 9662-9663	Marco Island - Outside	-1.10 MHW	Predicted
78 ECR 3111-3112	Marco Island	+0.28 GCLW	Predicted

REMARKS:

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	P. B. Walbolt	6/80
2. HORIZONTAL CONTROL	RECOVERED BY	
	ESTABLISHED BY	
	PRE-MARKED OR IDENTIFIED BY	
3. VERTICAL CONTROL	RECOVERED BY	
	ESTABLISHED BY	
	PRE-MARKED OR IDENTIFIED BY	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY	
	LOCATED (Field Methods) BY	
	IDENTIFIED BY	
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	P. B. Walbolt & J.L. Bowers
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	6/80

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

79-CR-9662

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

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

RECORD OF SURVEY USE

TP-00100

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline	7/25/80	Forwarded to QA/C351		8/12/80
Class I		Maintenance Print	8/20/80	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

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

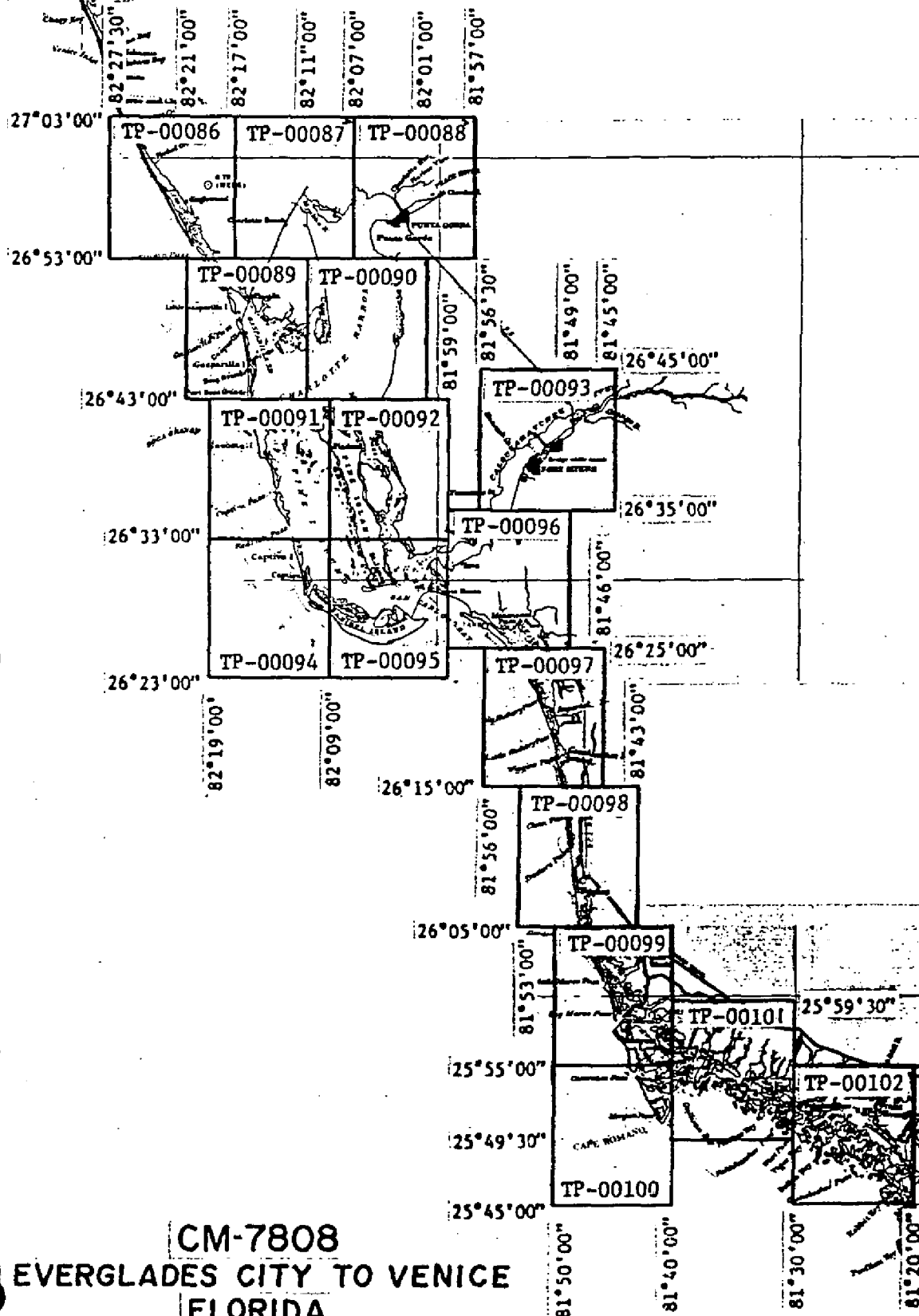
III. FEDERAL RECORDS CENTER DATA

1. ☐ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☐ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS. ⁷⁶⁻¹⁴⁰ ~~356~~ SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:
Tide Data
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	JOB NUMBER	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	TP - _____ (2)	PH - _____		
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
THIRD EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	TP - _____ (3)	PH - _____		
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
FOURTH EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	TP - _____ (4)	PH - _____		
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	

Joins Job CM-7717



CM-7808

EVERGLADES CITY TO VENICE

FLORIDA

SHORELINE MAPPING

SCALE 1:20,000

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

Coastal Zone Map TP-00100 is one of seventeen 1:20,000 scale maps in project CM-7808. These maps are intended for planning purposes for the state of Florida and for the construction and maintenance of NOS Nautical Charts.

The layout for CM-7808 shows the location of the individual maps from Everglades City to Venice, Florida. A copy of the layout is included in this Descriptive Report.

Field operations consisted of premarking horizontal control, photographing the area, establishing tidal datums, and performing field edit.

Compilation photography was taken with the Wild RC-10-B & C cameras which consisted of 1:60,000 Scale photographs taken in November, 1978 and March, 1979 and the Wild RC-8-E camera with 1:20,000 scale color photographs taken in October and November, 1978. This photography was used to set stereo models, to delineate cultural features and to locate landmarks and aids to navigation. The shoreline was compiled using 1:60,000 scale black and white infrared MHW photography taken with the Wild RC-10-C camera in November 1978 and March 1979 and 1:35,000 scale color GCLW photography taken with the Wild RC-8-E camera in November 1978.

The Aerotriangulation Unit in Rockville, Maryland bridged nine strips of 1:60,000 scale photography using aerotriangulation methods.

Compilation was accomplished in the Coastal Mapping Unit, Rockville, Maryland using graphic methods.

Field edit was completed in July, 1980. All known landmarks and aids to navigation were located and the compilation verified.

Application of field edit was performed in the Coastal Mapping Unit, Rockville, Maryland.

Final review was performed in the Quality Control Unit, Rockville, Maryland in May, 1985. This map meets the requirements for National Standards for Map Accuracy.

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Photogrammetric Plot Report
Everglades City to Venice, Florida
CM-7808

21. Area Covered

The area covered by this report extends from Horse and Chrise Pt. down to Rabbit Key which is below Everglades City. This area is covered by 17 sheets at a scale of 1:20,000 (TP-0086 to TP-00102).

22. Method

Nine strips of 1:60,000 scale black and white photography were bridged by analytic aerotriangulation methods. The strips of bridging photography were controlled by field identified control. Tie points were used in all strips to insure an adequate junction of all strips during the strip adjustments. Ratio photos of compilation photography were ordered.

23. Adequacy of Control

Control checked well within map accuracy standards and is more than sufficient for its intended use. One exception was point 449100 (Hurry, 1955), which was located on Strips 3 and 5. This point has apparently been moved between the time of flights from 11/78 to 3/79.

24. Supplemental Data

USGS quadrangles were used to provide vertical control for the adjustment.

25. Photography

The coverage, overlap, and quality of the photography was adequate for the job.

Submitted by,

Brian Thornton

Brian Thornton

Approved and Forwarded:

Don O. Norman

Don Norman
Chief, Aerotriangulation Section

Accuracy of Control
CM-7808

<u>Strip</u>	<u>Station</u>	<u>Error</u>	
		x	y
<u>Strip 1</u>	354100	-.001	-.001
	357101	.001	.001
	364101	-.010	-.008
<u>Strip 2</u>	427101	.001	-.001
	429101	.002	-.001
	434100	-.011	.007
<u>Strip 3</u> (Part 1)	434100	-.358	-.943
	433801	.971	1.514
	447101	-1.549	-.752
	450161	.936	.179
<u>Strip 3</u> (Part 2)	450101	-.499	-.729
	453100	2.621	.061
	454101	-2.690	-.316
	364101	.567	.985
<u>Strip 4</u>	453100	-.152	-.365
	468101	.106	1.228
	427101	-.180	-1.157
	475101	.229	.313
<u>Strip 5</u>	944803	-.504	.703
	945802	.222	-1.519
	429801	.570	1.290
	429101	-.288	-.473

Strip 6

450101	-.594	.178
453100	1.202	-.105
886100	.385	.107
833101	-.989	-.183

Strip 7
(Part 1)

923100	-.003	-.004
894100	.011	.007
929101	1.672	-2.016
929102	-1.680	2.018

Strip 7
(Part 2)

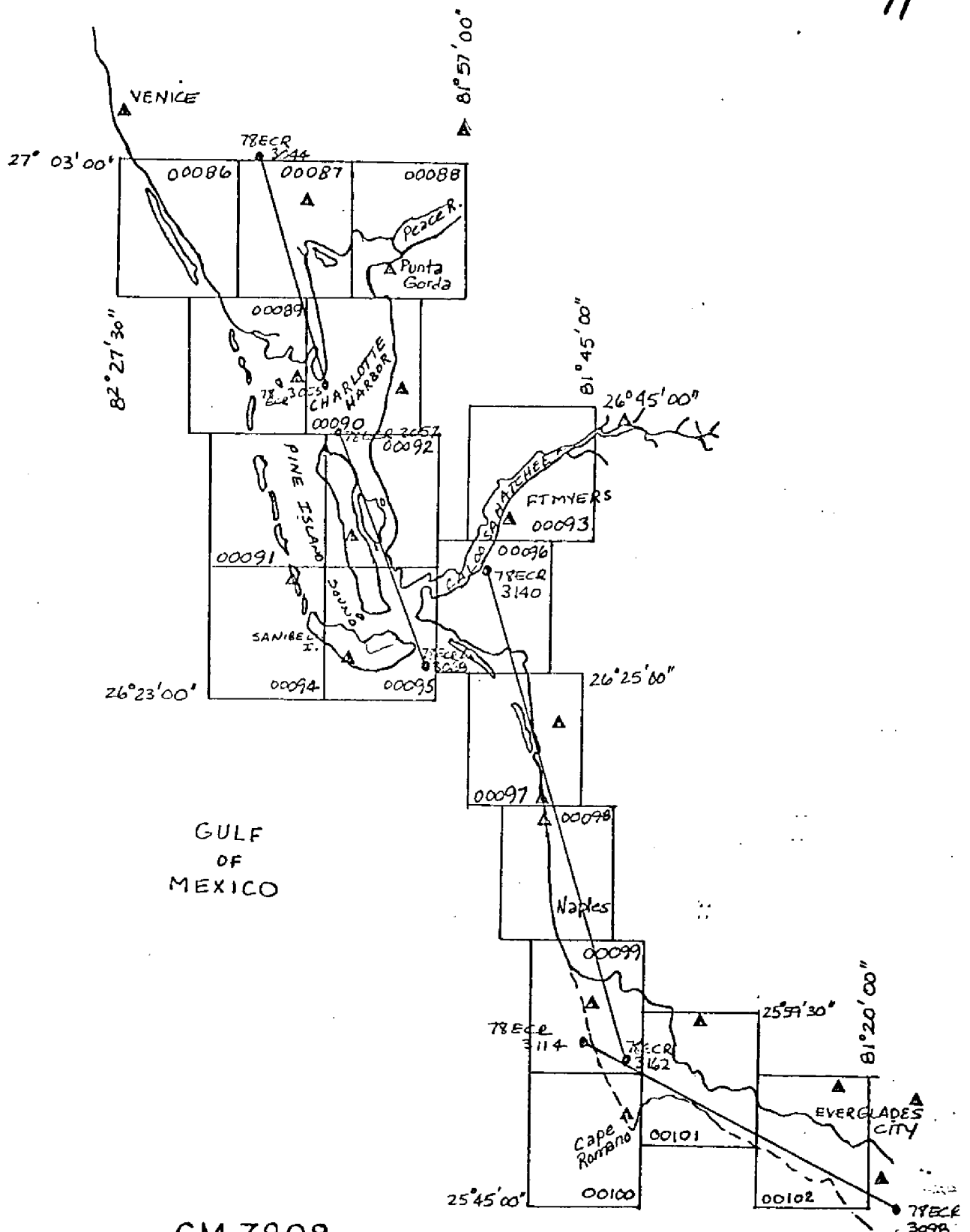
930101	-1.275	.156
886100	3.121	.402
885803	-2.103	-.596
357101	.258	.038

Strip 8

894100	.824	1.078
897100	-2.571	-1.962
900123	-.675	.940
903100	1.506	-3.505

Strip 9

909100	-.105	-.656
914801	-.264	3.452
896802	.015	-4.492
894100	.352	1.697

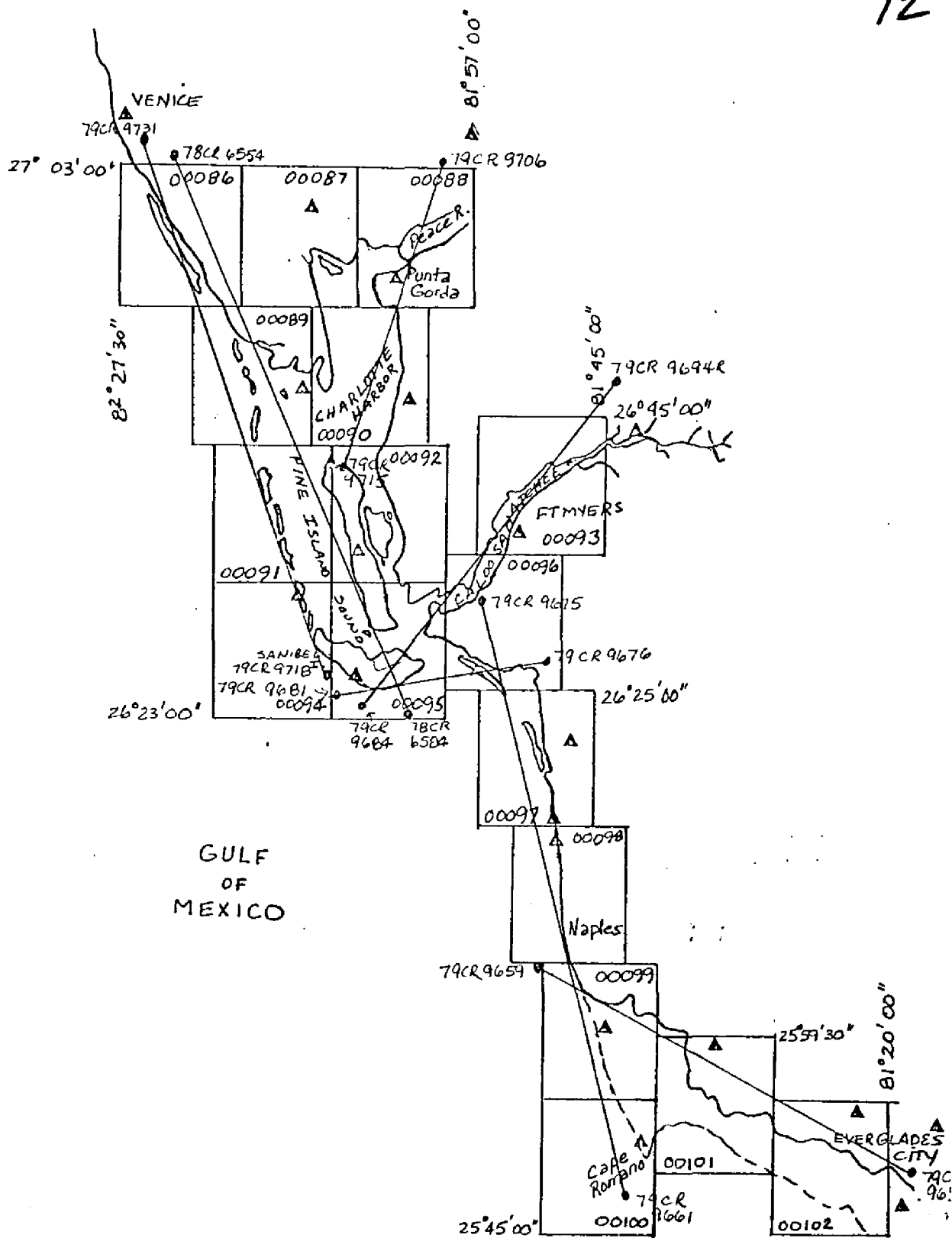


CM-7808
 EVERGLADES CITY TO VENICE
 FLORIDA

INFRARED PHOTOGRAPHY

MLW
 COLOR

1:35,000



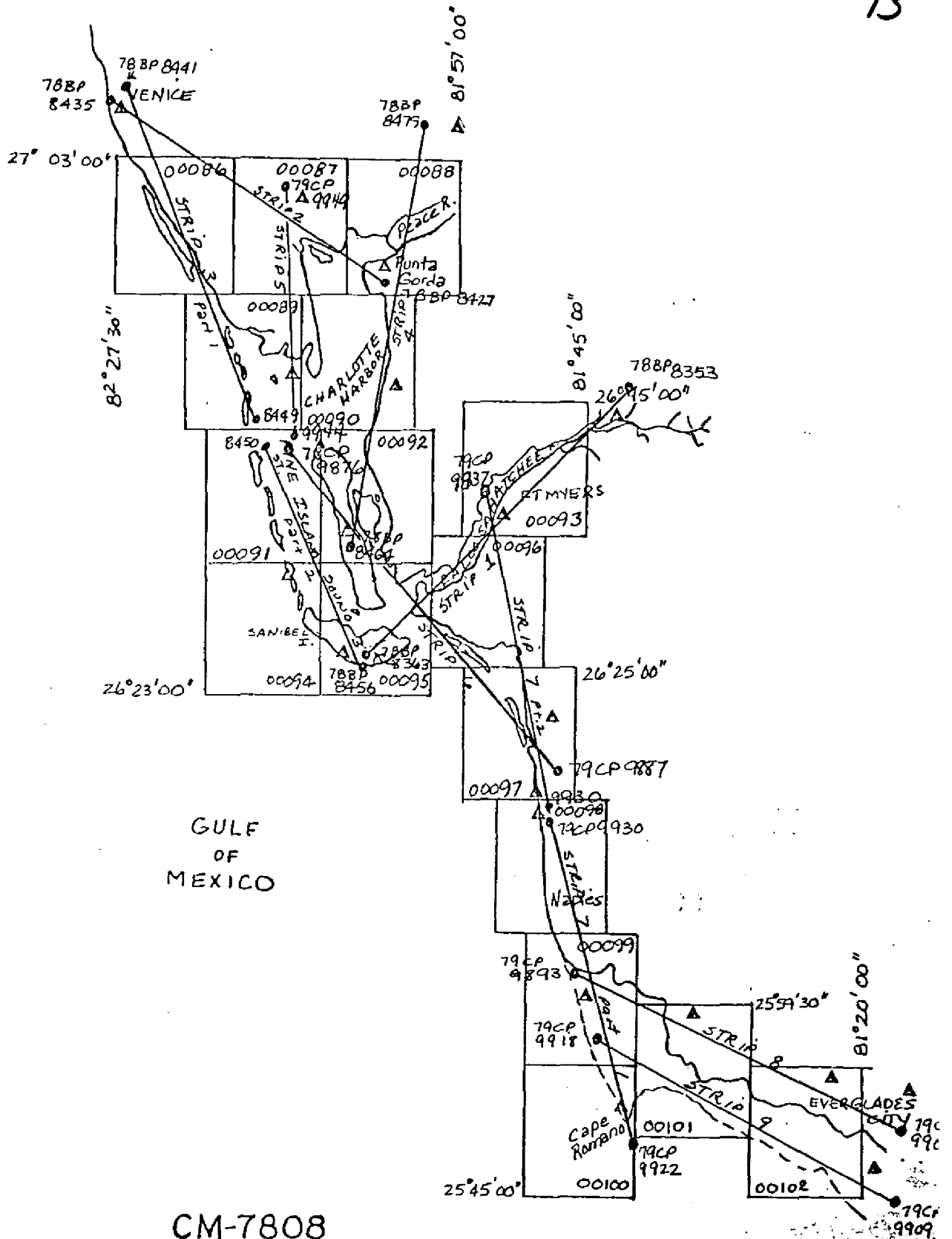
CM-7808
EVERGLADES CITY TO VENICE
FLORIDA

INFRARED PHOTOGRAPHY

M H W

 $B + W$

1:60.000



CM-7808
EVERGLADES CITY TO VENICE
FLORIDA

BRIDGING PHOTOGRAPHY

1:60,000 B+W

Compilation Report

TP-00100

June 1980

31. Delineation

All alongshore, offshore features, and interior planimetry on this map were delineated by graphic methods using rectified, black-and-white infrared photography. This photography was controlled by map points determined by the Aerotriangulation Section.

The MHW line was compiled from office interpretation of the rectified, black-and-white infrared photography.

GCLW photography covering the extreme northeast corner of this sheet from Marco Island to Helen Key and north to the limits was used to indicate the GCLW line. There was no GCLW photography available to the south of this area.

32. Horizontal Control

Horizontal control was adequate (see Photogrammetric Plot Report).

33. Supplemental Data

Three tide station positions and sketches were furnished for this map by the Tidal Datums and Information Branch.

34. Contours and Drainage

Contours are not applicable. Drainage was compiled by office interpretation of the rectified, black-and-white, infrared photography.

35. Shoreline and Alongshore Details

Refer to Item 31.

36. Offshore Details

No offshore details were delineated on this map.

37. Landmarks and Aids

There were no landmarks and Aids located on this map.

38. Control for Future Surveys - None

39. Junctions

Refer to NOAA Form 76-36B.

40. Horizontal and Vertical Accuracy

This map complies with the accuracy requirements of the Florida Coastal Zone Mapping Program as outlined by Project Instructions PH-7000.

41. thru 45. Inapplicable46. Comparison with Existing Maps

Comparison was made with the following USGS Quadrangle Maps:

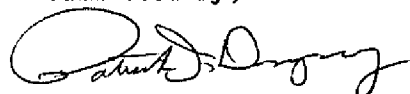
Marco Island, Fla., 1973, Scale 1:24,000
Cape Romano, Fla., 1973, Scale 1:24,000

47. Comparison with Nautical Charts

Comparison was made with the following Nautical Charts:

11430, 11th Edition, May 26, 1979, Scale 1:40,000
11429, 12th Edition, Feb. 24, 1979, Scale 1:80,000

Submitted by,



Patrick J. Dempsey

Approved and Forwarded:



For: F. Wright
Chief, Coastal Mapping Section

FIELD EDIT REPORT
JOB CM-7808 Everglades City to Venice, Florida
MAP TP-00100 Marco Island to Cape Romano

51. METHODS

The entire inspection and edit of this map was done via Government skiff. All shoreline of each Key was inspected thoroughly; the lone question is answered on the map. All detail is clarified on photo 79-CR-9662.

52. ADEQUACY OF COMPILATION

This compilation seems to be good, and it will be both complete and adequate upon the application of this edit.

54. RECOMMENDATIONS - none

56. GEOGRAPHIC NAMES - none

57. LANDMARKS AND AIDS TO NAVIGATION

There are no landmarks or aids on this map.

58. FIELD EDITOR

This Field Edit was done by J. L. Bowers and P. B. Walbolt.

24 June 1980

Submitted by:

Philip B. Walbolt

Philip B. Walbolt
Chief, Photo Party 63

REVIEW REPORT

MAY 1985

61. General Statement

Refer to the Summary bound with this Descriptive Report.

62. Comparison with Registered Topographic Surveys - None63. Comparison with Maps of Other Agencies

Refer to the Compilation Report, paragraph 46, bound with this Descriptive Report.

64. Comparison with Contemporary Hydrographic Surveys - None65. Comparison with Nautical Charts

Refer to the Compilation Report, paragraph 47, bound with this Descriptive Report.

66. Adequacy of Results and Future Surveys

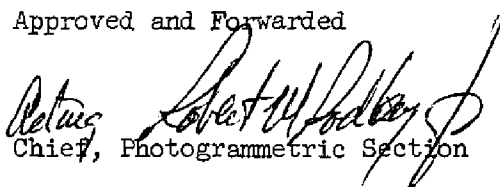
This map complies with the Project Instructions and meets the requirements for National Standards of Map Accuracy.

Submitted by:




Patrick J. Dempsey
Final Reviewer

Approved and Forwarded



Chief, Photogrammetric Section



Chief, Photogrammetry Branch

19
August 2, 1978

GEOGRAPHIC NAMES

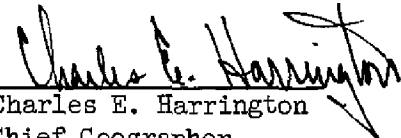
FINAL NAME SHEET

Everglades City to Venice, Florida

TP-00100

Big Morgan Island	Helen Key
Blind Pass	Henry Key
Cape Romano	Horrs Island
Cape Romano Island	Kice Island
Carr Island	Little Grassy Bay
Caxambas Bay	Marco Island
Caxambas Pass	Margaret Key
Currys Island	Morgan Bay
David Key	Morgan Beach
Dickmans Island	Morgan Island
Dickmans Point	Morgan Keys
Fred Key	Morgan Pass
Gulf of Mexico	Morgan Point
Grassy Bay	Morgan River
Gullivan Bay	Pig Key

Approved by:


Charles E. Harrington
Chief Geographer

DISSEMINATION OF PROJECT MATERIAL

CM-7808

EVERGLADES CITY TO VENICE, FLORIDA

National Archives/Federal Records Center

Job Completion Report

Brown Jacket:

Field Photographs

Discrepancy Prints

Photogrammetric Plot Report

Tide Data

NOAA Forms 76-40

NOAA Form 76-109

Three ring binder containing Control

Identification Cards and Field

Computations

Bureau Archives

Registered Map

Descriptive Report

Reproduction Division

8x Reduction Negative of Map

Office of Staff Geographer

Geographic Names Standard

