

TP-00472

TP-00472

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey Coastal Boundary
Job No. PH-7120 Map No. TP-00472
Classification No. Final Edition No. 1.....

LOCALITY

State Florida
General Locality .. Monroe County
Locality Big Pine Key to Big Munson :
..... Island

19 74 TO 19 76

REGISTRY IN ARCHIVES

DATE

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.					
DESCRIPTIVE REPORT - DATA RECORD		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"> TYPE OF SURVEY ☒ ORIGINAL ☐ RESURVEY ☐ REVISED </td> <td style="width: 50%;"> SURVEY TP. <u>00472</u> MAP EDITION NO. <u>(1)</u> MAP CLASS _____ JOB PH. <u>7120</u> </td> </tr> </table>		TYPE OF SURVEY ☒ ORIGINAL ☐ RESURVEY ☐ REVISED	SURVEY TP. <u>00472</u> MAP EDITION NO. <u>(1)</u> MAP CLASS _____ JOB PH. <u>7120</u>		
TYPE OF SURVEY ☒ ORIGINAL ☐ RESURVEY ☐ REVISED	SURVEY TP. <u>00472</u> MAP EDITION NO. <u>(1)</u> MAP CLASS _____ JOB PH. <u>7120</u>						
PHOTOGRAMMETRIC OFFICE Rockville, Maryland		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"> LAST PRECEDING MAP EDITION </td> </tr> <tr> <td style="width: 50%;"> TYPE OF SURVEY ☐ ORIGINAL ☐ RESURVEY ☐ REVISED </td> <td style="width: 50%;"> JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__ </td> </tr> </table>		LAST PRECEDING MAP EDITION		TYPE OF SURVEY ☐ ORIGINAL ☐ RESURVEY ☐ REVISED	JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__
LAST PRECEDING MAP EDITION							
TYPE OF SURVEY ☐ ORIGINAL ☐ RESURVEY ☐ REVISED	JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__						
OFFICER-IN-CHARGE Commander James Collins							
I. INSTRUCTIONS DATED							
1. OFFICE		2. FIELD					
General Instructions-OFFICE-NOS-Cooperative Coastal Boundary Mapping, Job PH-7000, December 9, 1975 Supplement I, November 4, 1974 Supplement III, October 24, 1974 NOTE: Office and field edit instructions (1975) incorporate applicable prior operational instructions.		Instructions-FIELD-July 6, 1972 Field Edit (PH-7000 General Instructions for Florida Coastal Zone Mapping) 1973					
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) _____					
3. MAP PROJECTION Transverse Mercator		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"> 4. GRID(S) </td> </tr> <tr> <td style="width: 50%;"> STATE Florida </td> <td style="width: 50%;"> ZONE East </td> </tr> </table>		4. GRID(S)		STATE Florida	ZONE East
4. GRID(S)							
STATE Florida	ZONE East						
5. SCALE 1:10,000		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"> STATE </td> <td style="width: 50%;"> ZONE </td> </tr> </table>		STATE	ZONE		
STATE	ZONE						
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS		NAME	DATE				
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY		R. Kelly	Oct. 75				
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradi CHECKED BY		J. Taylor	May 76				
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY		Inapplicable					
INSTRUMENT: CONTOURS BY		Inapplicable					
SCALE: CHECKED BY		Inapplicable					
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY		J. McClure	May 76				
METHOD: Graphic-rectified photos CONTOURS BY		C. Lewis	May 76				
SCALE: HYDRO SUPPORT DATA BY		Inapplicable					
CHECKED BY							
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		J. Battley Jr.	June 76				
6. APPLICATION OF FIELD EDIT DATA BY		J. Keating	Aug. 76				
CHECKED BY		J. Schad	Sept. 76				
7. COMPILATION SECTION REVIEW BY		L. Lewis	July 78				
8. FINAL REVIEW BY		D. Brant	Jan 78				
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY							
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		D. Brant	Jan 78				
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		R. Carter	MAY 78				

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

TP-00472

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC10 C 3.5" focal length		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED B&W		ZONE Eastern	☒ STANDARD
☐ PREDICTED TIDES ☐ REFERENCE STATION RECORDS ☒ TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN 75th	☐ DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
74C(C)8380,82,84,86	3/16/74	1455	1:30,000	The stage of tide is inapplicable for the color photography.	
74C(C)8453,55	3/15/74	1520	1:30,000		
74C2196R,97R,98R, 99R	11/8/74	1344	1:30,000	Refer to form 76-36B(1) for tide information	
74C2345R-2348R	11/12/74	0955	1:30,000		
74C2634-36R	11/22/74	0927	1:30,000		
74C2672, 2673R	11/22/74	0955	1:30,000		
REMARKS					

2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the MHW line is the tide-coordinated black-and-white infrared photography listed in item 1. The rectified color photography was used as an aid for interpreting cultural features and compiling the limits of vegetation and shoal and shallow areas. Where the shoreline is obscured by vegetation, such as mangrove, the apparent symbol was used.

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

The source of the MLW line is the tide-coordinated black-and-white infrared photography listed under item 1.

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
Inapplicable					

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00466	TP-00473	No contemporary survey	TP-00484

REMARKS
Final junctions will be made in the Coastal Mapping Section.

NOAA FORM 76-36B(1)
(7-75)

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

TIDE - COORDINATED PHOTOGRAPHY

TP - 00472

LOCATION AND PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE	MEAN RANGE
74CR2196, 2197	Big Pine Key, W. Side	-0.08 MHW	0.71'
74CR2673	" " " " "	-0.09 MHW	1.18'
74CR2198, 99	Summerland Key, E. Side	+0.19 MHW	
74CR2634-36	" " " "	+0.10 MLW	
74CR2672	" " " "	+0.07 MLW	

REMARKS:

HISTORY OF FIELD OPERATIONS TP-00472

1. ☒ FIELD INSPECTION OPERATION* June 1972 ☒ FIELD EDIT OPERATION June 1976

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. R. Wagner	
2. HORIZONTAL CONTROL	RECOVERED BY J. D. Di Mare	6/76
	ESTABLISHED BY Inapplicable	
	PRE-MARKED OR IDENTIFIED BY Inapplicable	
3. VERTICAL CONTROL	RECOVERED BY J. D. Di Mare	6/76
	ESTABLISHED BY Inapplicable	
	XXXXXXXXXX IDENTIFIED BY R. R. Wagner	6/76
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY Inapplicable	
	LOCATED (Field Methods) BY R. R. Wagner	6/76
	IDENTIFIED BY Inapplicable	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY R. R. Wagner	6/76
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY Inapplicable	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED 2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
	Refer to Field Report	74C8382	J 70 RESET 1938
		74C8380	M 272 1966
		Plotted	V 272 1966
			GIB, 1935; SOTO 1934

3. PHOTO NUMBERS (Clarification of details)
74C8380, 8382, 8384
74CR2198, 2635, 2672, 26734. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
There are no landmarks. Non-floating aids were either verified or located by field edit.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE 6. 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)

* The Field Report is bound with this Descriptive Report.
2 pages of sextant cuts.

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

RECORD OF SURVEY USE

TP-00472

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Office - Class III	5/25/76	Special request from Requirements Branch		
Field Edit - Class I	8/3/76	" "	11/8/76	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
		2/28/77	One (1) digitized NOAA Form 76-40 submitted
			as final report

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 2/28/77
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 ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

SUMMARY

For

TP-00456 thru TP-00458

TP-00460 thru TP-00464

TP-00466 thru TP-00473

Coastal Zone Map TP- 00472 is one of fifteen (15) 1:10,000 scale (shoreline type) maps in Job PH-7120. These maps will not be published. Interior detail is limited to a narrow zone of planimetry usually back from the shoreline to and including the first road.

The layout for Job PH-7120 (revised since the aerotriangulation operation) will show the location of the individual maps. A copy of the layout is included in this Descriptive Report.

These maps are intended for planning purposes for the state of Florida and for the construction and maintenance of NOS nautical charts.

The aera (Job PH-7120) is covered by photography taken in 1972 and 1974 on color, color infrared, and black-and-white infrared film. The black-and-white infrared film was tide-coordinated at MHW and MLW datums.

The field operations consisted of the following:

1. Premarking of horizontal control and photographing the area.
2. Establishing tidal datums
3. Field edit

Horizontal control was extended by analytical aerotriangulation method using the stereocomparator.

The interior details shown on the shoreline type maps were stereoscopically compiled from the rectified prints of the color or color infrared photography.

The tidal datum lines (MHWL and MLWL) and offshore details were compiled from tide-coordinated, black-and-white infrared photography by graphic methods. This photography was controlled by points determined by aerotriangulation and map detail compiled from the rectified photography. The rectified color or color infrared photography was also used as an aid to interpret culture and apparent shoreline.

2

All line work is scribed, approved symbols are shown in the marginal data of the map.

A registration copy for each map was prepared. The registration copy shows additional offshore details such as shoal and shallow areas used by the Marine Chart Division but not required on the Coastal Zone Maps. This copy of the map is labeled "Registration Copy" in the title block.

The following items will be registered in the NOS Archives:

1. A stable base copy of the Registration Copy
2. The Descriptive Report

Three (3) eight-time (210mm) reduction negatives will be made for each registered map and they will be filed in the following locations:

1. One (1) with Reproduction Division
2. Two (2) with the Photo Map and Imagery Information Section

This report is on work done in accordance with Instructions - FIELD - Job PH-7120; Horizontal Control for Aerotriangulation and Field Support for Aerial Photography; Coastal Boundary Mapping, Plantation Key to Big Pine Key, Florida, dated 7/6/72. Work began on June 19, 1972 and ended August 15, 1972.

All modifications to the instructions were approved by Mr. Ron Brewer. Instructions to Air Photo Mission 2 changed the tolerance on MHW from 0.3 foot to 0.1 foot. Verbal instructions from Mr. Brewer cancelled flight lines 30-6, 30-7, and 30-8 and corresponding premark work because tidal information was not available.

1. PREMARKING OF CONTROL

18 stations were paneled in accordance with the job diagram. A second order traverse with tellurimeters establishing 12 stations was run to supplement the existing control. A position was established on Pigeon Key and successfully used to recover MOSER 1935.

2. AEROTRIANGULATION PHOTOGRAPHY

This photography was completed. In addition, individual photographs of each paneled station were taken at a low altitude. Panels were completely removed after notified by the Chief, Mission 2 that the film was successfully developed.

3. TIDE COORDINATED PHOTOGRAPHY

Locations of the tide staffs are shown on the job diagram accompanying this report. Photography was taken on July 28 and 30 and August 8, 11, 12, and 13. Recordings entered in the tide volumes, Form 277, were at 5 minute intervals during photography and at 15 minute intervals near photography. Tolerances of ± 0.10 foot for MHW and MLW and ± 0.20 foot for MWL were observed. Wet staff readings - crest, mean, and trough - were recorded while photography was in progress. Eastern Standard Time was used. Time checks were made with WWV, Fort Collins, Colorado.

Line 20-1 Atlantic Side MHW Flown at 1211-1225 on 28 July when the DUCK KEY staff read 3.50-3.35. Was reflown at 1225-1235 the same day. MLW Flown at 1605-1615 on 8 August and reflown at 1619-1632 the same day when the staff read 2.01-2.14.

Line 20-1 Florida Bay Side. Line was divided into 3 parts. South 1/3 controlled by the VACA KEY, NORTH SIDE staff, the mid 1/3 by the GRASSY KEY, NORTH SIDE staff, and the north 1/3 by the LOWER MATECUMBE KEY, FLA. PAY and GRASSY KEY, NORTH SIDE staffs. South 1/3 MLW Flown at 857-903 on 30 July when the VACA KEY staff read 2.95-3.00. South 1/3 MHW Flown at 1245-1250 on 28 July when the VACA KEY staff read 3.55. Reflown the same day at 1335-1345 when the staff read 3.75-3.80.

Mid 1/3 MHW Flown at 1335-1345 and reflowed at 1350-1500 on 28 July when the staff at GRASSY KEY read 3.50-3.70. Mid 1/3 MLW South $\frac{1}{2}$ of this line flown at 915-920 on 30 July when the GRASSY KEY staff read 2.80. North $\frac{1}{2}$ was flown on 12 August at 937-944 when the staff read 2.65. North 1/3 MHW Flown at 1335-1345 on 28 July when the GRASSY KEY staff read 3.50-3.56. Flown at 1250-1300 on 28 July when the LOWER MATECUMBE KEY, FLA. BAY staff read 3.29 - 3.27. North 1/3 MLW Flown at 937-944 on 12 August when the GRASSY KEY staff read 2.65. Flown at 1516-1521 on 11 August when the LOWER MATECUMBE KEY, FLA BAY staff read 2.45-2.41.

Line 15-1 Atlantic Side MHW Flown at 1327-1333 on 30 July when the LOWER MATECUMBE KEY, HAWK CHANNEL staff read 3.90-3.86. MLW Flown at 1548-1555 on 8 August when the staff read 2.08-2.10. Florida Bay side MHW Flown on 30 July at 1030-1040 and reflowed the same day AT 1040-1100 when the LOWER MATECUMBE KEY FLA. BAY staff read 3.22-3.29. The south end of this line was also flown at 1315-1322 on 28 July when the staff read 3.18-3.12. MLW Flown on 11 August at 1504-1510 when the staff read 2.49-2.47

Line 30-1 Atlantic Side MHW Flown on 12 August at 959-1005 when Tavernier Hawk Channel staff read 4.29-4.30 and again at 1034-1036 when the staff read ~~XXXXXX~~ 4.40-4.43. MLW Flown on 8 August at 1534-1540 when the staff read 2.25-2.38. Florida Bay Side The northern 2/3 of this line was controlled by TAVERNIER, FLA. BAY MWL It was flown on 12 August at 1637-1641 when the staff read 2.68. The south end of the line was lengthened about 2 miles. MHW Flown at 1355-1401 on 13 August when the UPPER MATECUMBE KEY, FLA. BAY staff read 2.58 and on 30 July at 1305-1318 when the staff read 2.76-2.77. MLW Flown on 8 August at 1534-1540 when the staff read 2.34-2.32.

Line over the ISLAMORADA, WHALE CHANNEL tide staff. A 4 mile line centered on the staff was flown for MHW AND MLW at 1:20,000 scale. MHW Flown on 12 August at 1019-1022 when the staff read 3.40-3.43. MLW Flown at 1636-1640 on 11 August when the staff read 2.17-2.15.

Line 30-4. MHW Flown at 1045-1047 on 12 August when the LOWER MATECUMBE KEY, FLA. BAY staff read 3.15-3.17. Reflowed on 13 August at 1120-1122 when the staff read ~~XXXX~~ 3.10. MLW Flown on 11 August at 1534-1537 when the staff read 2.40 and reflowed 1545-1548 the same day when the staff read 2.39-2.37.

Line 30-3 MWL Flown on 11 August at 1602-1606 when the staff at TAVERNIER, FLA. BAY read 2.67. Reflowed on 12 August at 1621-1624 when the staff read 2.68.

Line 30-2. North half controlled by TAVERNIER, FLA. BAY MWL. Flown on 11 August at 1556-1601 when staff read 2.68-2.67. Reflowed on 12 August at 1627-1630 when the staff read 2.68. MHW Southern end. Flown at 1407-1410 on 13 August when the UPPER MATECUMBE KEY, FLA. BAY staff read 2.58. Tide at this location had not reached the 0.1 foot tolerance on high water for several days. MLW Flown at 1556-

1601 on 11 August when the staff read 2.27-2.26. Reflown on 12 August at 1059-1101 when the staff read 2.33-2.35.

4. FORESHORE PROFILES

Beach areas were inspected from the ground, by boat and airplane. It was decided that profiles were not needed and none were taken.

5. BRIDGE AZIMUTHS

The azimuths of two long bridges in the project area were obtained and are included in the field data.

6. FIELD RECORDS

All field records and computations were forwarded to C3413 on 2 October 1972.

John C. Veselenak

John C. Veselenak
Chief, Photo Party 65

PHOTOGRAMMETRIC PLOT REPORT
Boot Key to Key West, Florida
Job PH-7201
October 1975

21. Area Covered

This report covers twenty-five 1:10,000 sheets, TP-00474 thru TP-00489, TP-00460 thru TP-00462, TP-00466, TP-00467, TP-00468, TP-00472, and TP-00473, from Boot Key to Key West, Florida.

22. Method

Three strips of 1:60,000 photography were bridged by analytic aerotriangulation methods and adjusted to ground on the Florida State Plane Coordinate System, East Zone. The three strips were also adjusted as a block. The attached four sketches shows the placement of horizontal control, closures to control used in the block adjustment, mean high and mean low water photography, and photography to be used for compilation. Bridge points were drilled on the 1:30,000 scale color photography and measured on 1:60,000 color bridging photography to control the setting of models on the B-8 for compilation. Bridge points were also pricked on the infrared photography and measured on the 1:60,000 color bridging photography for ratioing photographs to be used in the compilation of the mean high and mean low water line.

23. Adequacy of Control

The horizontal control provided was adequate except for DUCK 2, 1937 Substitute Station and DUCK 2, 1937 ARRAY (panel). These two stations held the same in the block adjustments as they did in the strip adjustment with 15 feet error in the Y direction. There was no apparent reason for the error. All other control held within the accuracy required by National Standards of Maps. Accuracy at 1:10,000.

24. Supplemental Data

Local shoreline was used to provide elevations for vertical adjustments of the bridges.

25. Photography

RC-8 color film positives were adequate as to coverage, overlap, and definition.

Submitted by,

Robert B. Kelly

Robert B. Kelly

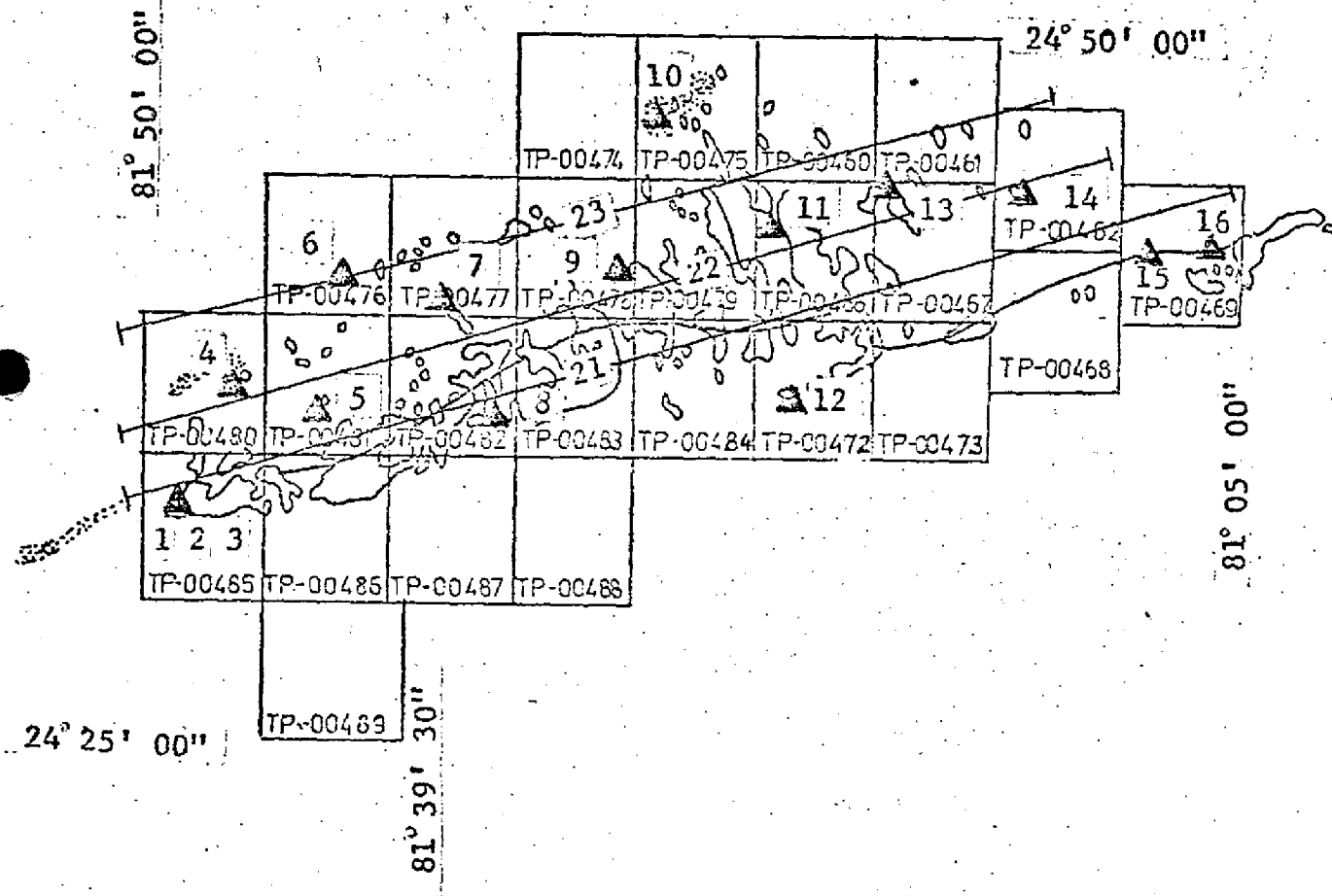
Approved and Forwarded

John D. Perrow Jr.

John D. Perrow, Jr.

Chief, Aerotriangulation Section

JOB CM-7201
 BOOT KEY TO KEY WEST
 FLORIDA
 SHORELINE MAPPING
 BRIDGING PHOTOGRAPHY



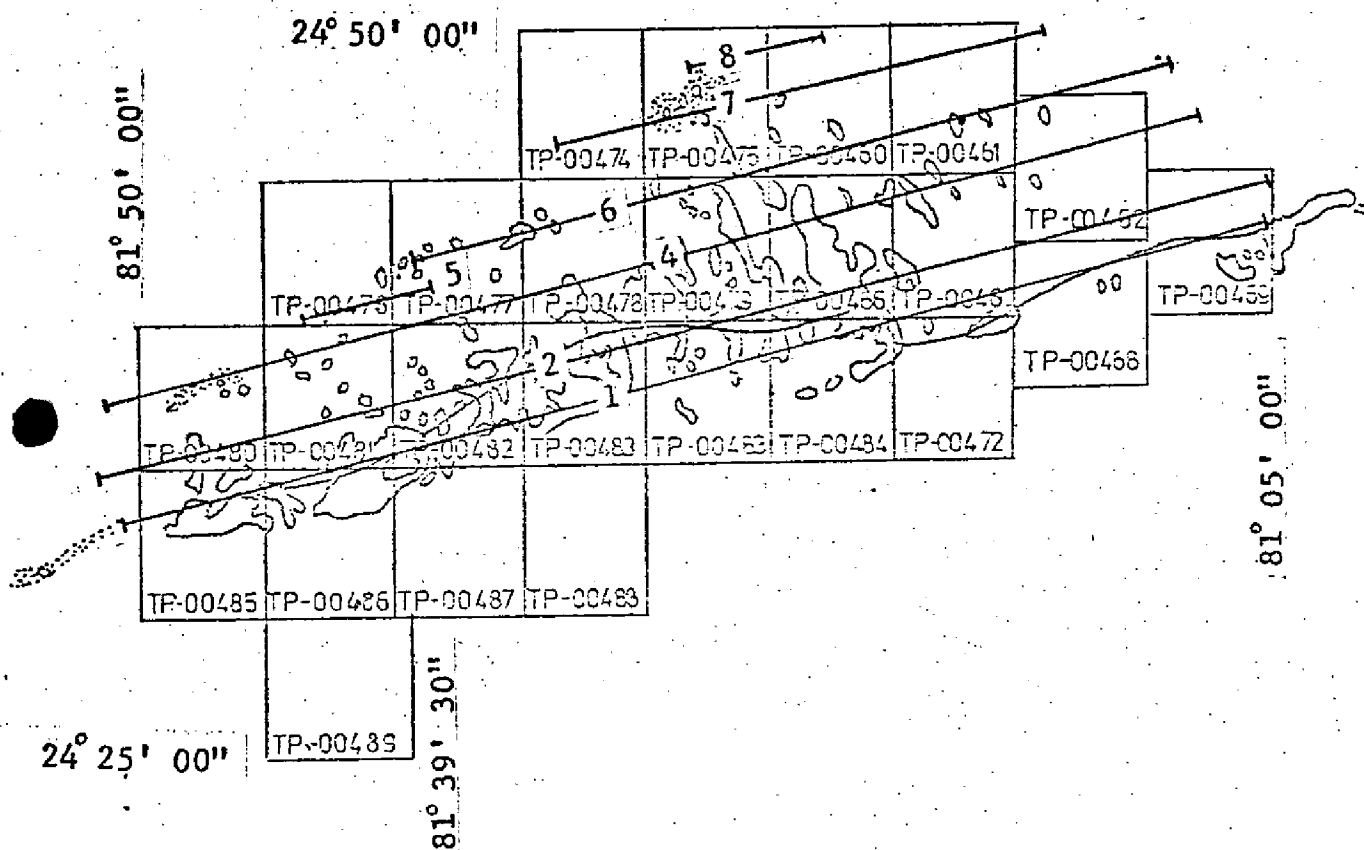
INDEX TO STRIPS OF PHOTOGRAPHS

21	74C(c)	8113-8141	Renumbered	101-114
22	"	8082-8108	"	201-214
23	"	8147-8171	"	301-313

CLOSURES TO CONTROL (BLOCK ADJUSTMENT)

1	Key West Naval Monument	(3.314, -1.519)
2	Key West Naval Station Tank, 1956	(0.003, 0.000)
3	Key West Lighthouse, 1849	(-2.592, -0.574)
4	Bay Key, 1934 Sub. Sta. 1	(1.309, -0.804)
5	Channel Key 2, 1934	(-1.066, 0.413)
6	Mud Key 2, 1934	(-1.631, -0.194)
7	Pek, 1934	(-0.056, 0.039)
8	Bunch, 1934	(-1.207, 1.886)
9	Cud, 1934	(-0.125, -0.134)
10	Content 2, 1935	(0.046, 0.286)
11	Pinkey, 1935	(0.180, 0.617)
12	Newfound, 1920	(0.020, -0.384)
13	Span, 1935	(0.046, -0.016)
14	Trade, 1935 Sub. Sta. 1	(-0.043, -0.001)
15	Moser, 1935 Sub. Sta. 1	(-0.210, 0.256)
16	Knight 2, 1936	(-0.499, -0.718)

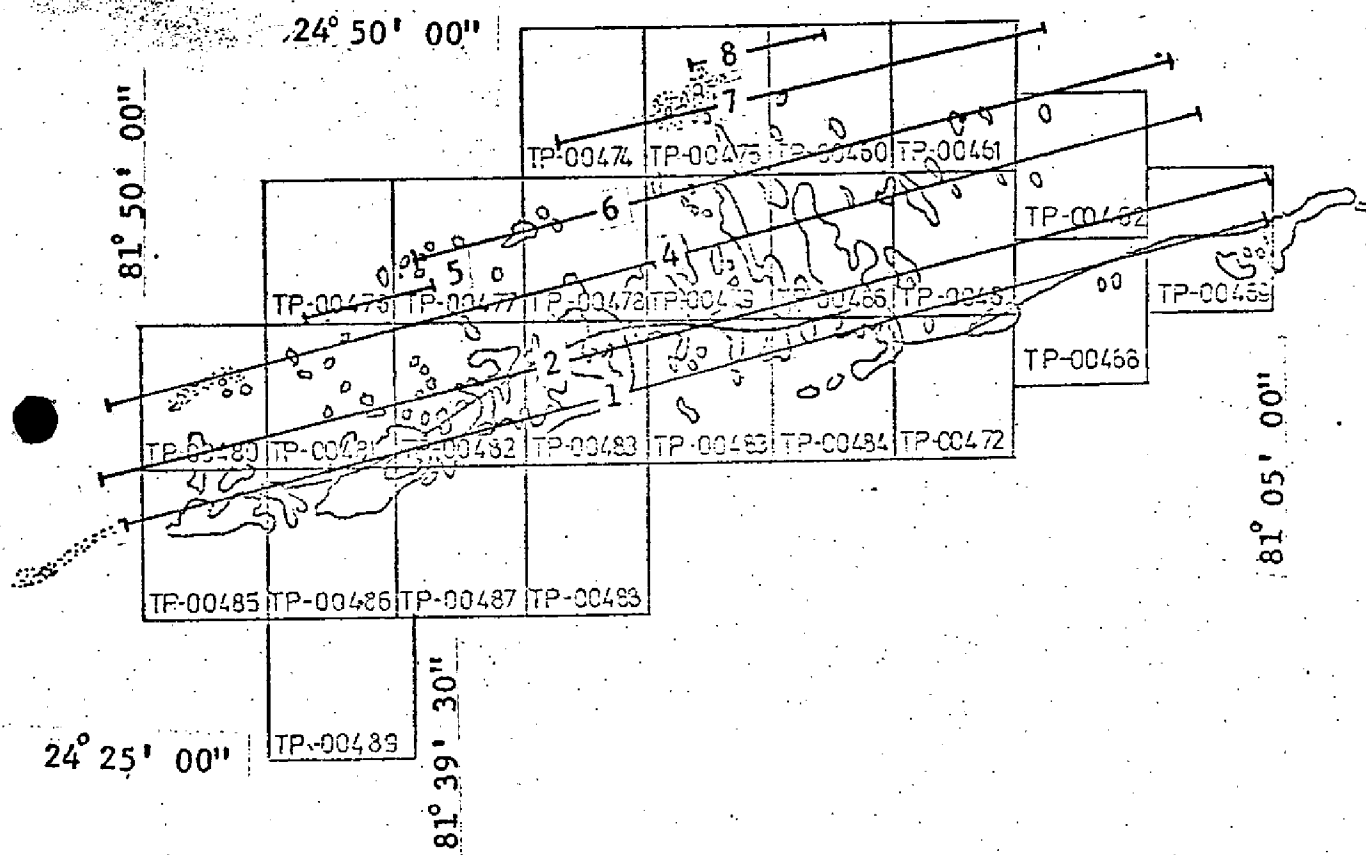
JOB CM-7201
 BOOT KEY TO KEY WEST
 FLORIDA
 SHORELINE MAPPING
 COMPILATION PHOTOGRAPHY



INDEX TO STRIPS OF PHOTOGRAPHS

1	74C(c)	8362-8418
2	"	8419-8475
4	"	8274-8328
5	"	8228-8232
6	"	7408-7446
7	"	7518-7544
8	"	7484-7491

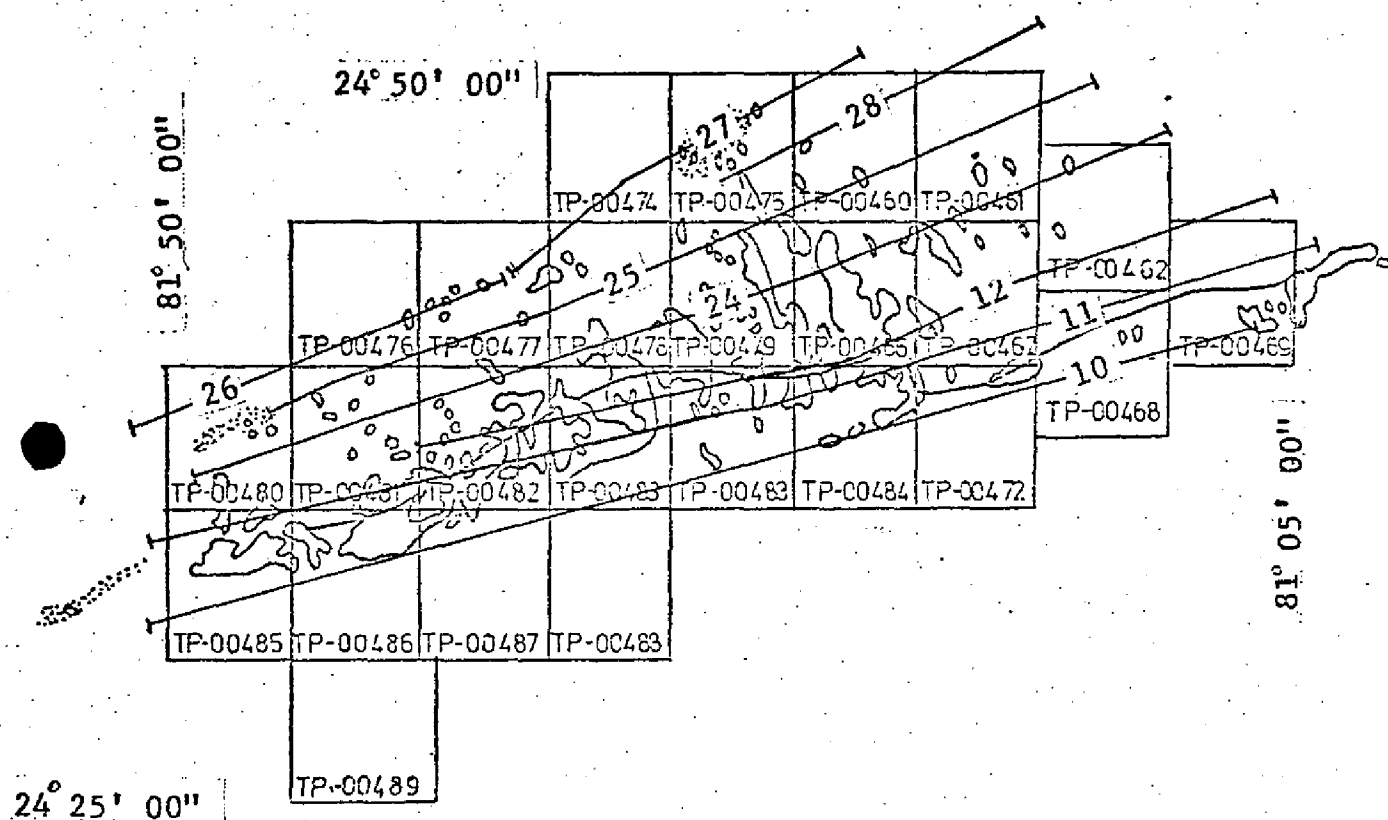
JOB CM-7201
 BOOT KEY TO KEY WEST
 FLORIDA
 SHORELINE MAPPING
 COMPILATION PHOTOGRAPHY



INDEX TO STRIPS OF PHOTOGRAPHS

1	74C(c)	8362-8418
2	"	8419-8475
4	"	8274-8328
5	"	8228-8232
6	"	7408-7446
7	"	7518-7544
8	"	7484-7491

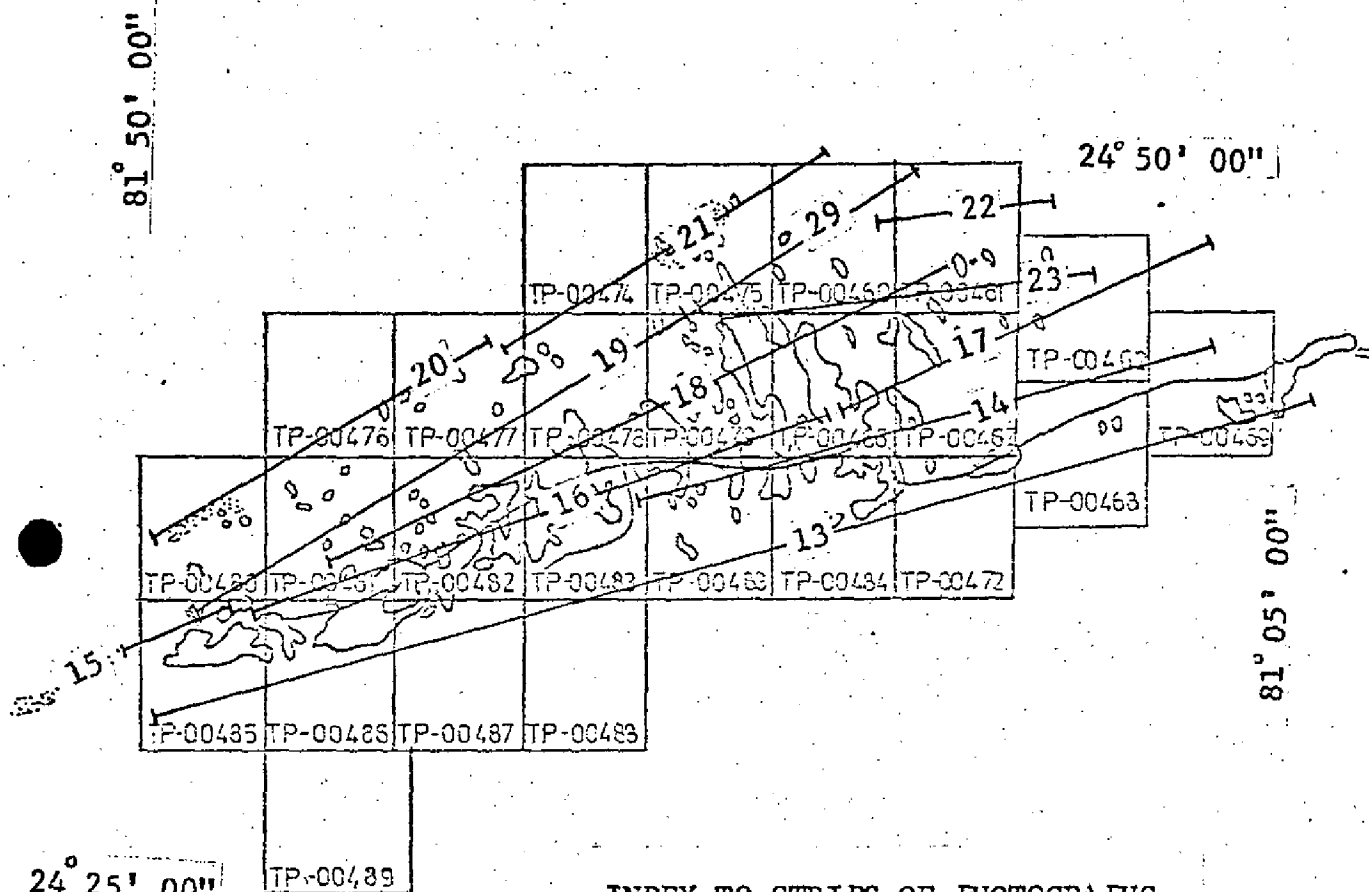
JOB CM-7201
 BOOT KEY TO KEY WEST
 FLORIDA
 SHORELINE MAPPING
 MEAN LOW WATER PHOTOGRAPHY



INDEX TO STRIPS OF PHOTOGRAPHS

10	74C	2624R-2653R
11	"	2655R-2685R
12	"	2744R-2767R
24	"	2769R-2795R
25	"	2846R-2868R
26	"	2823R-2833R
27	"	2566R-2576R
28	"	2524R-2532R

JOB CM-7201
 BOOT KEY TO KEY WEST
 FLORIDA
 SHORELINE MAPPING
 MEAN HIGH WATER PHOTOGRAPHY



INDEX TO STRIPS OF PHOTOGRAPHS

13	74C	2329R-2358R
14	"	2187R-2202R
15	"	2387R-2390R
16	"	2450R-2465R
17	"	2475R-2485R
18	"	2290R-2207R
19	"	2214R-2228R
20	"	2510R-2519R
21	"	2550R-2559R
22	"	2246R-2250R
23	"	2313R-2322R
29	"	2259R-2265R

FLORIDA-NOAA Coastal Boundary Mapping Program

HORIZONTAL CONTROL TP-00472

Station	NOS Geodetic Data Reference for Descriptions, Positions, Coordinates and Azimuths
✓ GIB, 1935 ✓	Book 425, P. 23, 24, 32, 38; GP 421 Fla. Vol. 1; PC P. 108 Fla. E. Zone ✓
✗ GONE, 1935 ✓	Book 426, P. 1, 2, 36; GP 444 Fla. Vol. 1; PC P. 115 Fla. E. Zone ✓
✓ MAR, 1934 ✓	Book 426, P. 2, 39; GP 444 Fla. Vol. 1; PC P. 115 Fla. E. Zone ✓
✗ NEWFOUND, 1920	Book 426, P. 2, 25, 27, 40; GP 421 Fla. Vol. 1; PC P. 108 Fla. E. Zone ✓
✗ SOTO, 1934	Book 426, P. 3, 43, 48; GP 442 Fla. Vol. 1 PC P. 115 Fla. E. Zone ✓

V.J.F.V.

Compilation Report
TP-00472
June 1976

31. Delineation

All features were delineated by graphic compilation. The rectified prints of the color photography were controlled by map points determined by aerotriangulation and were used for compiling shoal and shallow areas, interior features, and cultural shoreline. Color contact prints were used as a guide for clarifying map detail.

The tidal datum lines were compiled from office interpretation of the ratioed tide-coordinated black-and-white infrared photography which was controlled by common detail compiled from the rectified prints of the color photography.

Photography did not cover the south limit of the manuscript.

A field edit will be made to validate interpretation and symbolization of features.

32. Horizontal Control - Adequate (See Photogrammetric Plot Report)

33. Supplemental Data - None

34. Contours and Drainage

Contours are not applicable. Drainage was compiled from the tide-coordinated black-and-white infrared photography.

35. Shoreline and Alongshore Detail

Office interpretation of the tide-coordinated black-and-white infrared photography was adequate for delineating the shoreline and alongshore detail except as noted in item 31.

36. Offshore Details No unusual problems were encountered.

37. Landmarks and Aids

Refer to form 76-40. All aids and landmarks are to be located by field edit.

38. Control for Future Surveys - None.

39. Junctions Refer to form 76-368

40. Horizontal and Vertical Accuracy

This map complies with the accuracy requirements for the Florida Coastal Zone Mapping Program as outlined by project instructions, PH-7000.

41. thru 45. Inapplicable.

46. Comparison with Existing Maps

Comparison was made with the following USGS 7½ minute topographic quadrangles;

Big Pine Key, Fla., 1972
Summerland Key, Fla., 1972
Loggerhead Key, Fla., 1972

No significant differences were noted.

47. Comparison with Nautical Charts

Comparison was made with the following nautical charts:

11442 May 31, 1975, 1:80,000
11445 Side A, June 28, 1975, 1:40,000
11448 November 23, 1974, 1:40,000

Items to be Applied to Nautical Charts Immediately: None

Items to be Carried Forward: None

Submitted by,

John McClure
John McClure

Approved and forwarded:

J.P. Battley, Jr.

J.P. Battley, Jr.
Chief, Coastal Mapping Section

FIELD EDIT REPORT, MAP TP-00472, JOB PH 7120

51. METHODS

The shoreline was inspected from a small boat while cruising just off shore. Notes regarding fast and apparent shoreline and other along shore details were made on the rectified photographs and field edit sheet.

Five triangulation stations were recovered.

Five vertical control stations were recovered and identified or plotted.

All known aids were located. Three cuts to Nile Channel Daybns. 5 and 6, which falls on TP-00484, were also taken and plotted.

There are no landmarks.

Eight tide stations fall within this manuscript. Two were not located because they did not have 30 days of record.

<u>Station</u>	<u>Bench Mark</u>	<u>Photograph</u>
✓ Ramrod Key, Southeast	BM No. 1	74C8384
✓ Pine Channel West (South Pine)	BM No. 5	74C8382
✓ Munson Key	BM No. 1	74C8384
✓ Newfound Harbor	BM No. 1	74C8384
✓ Little Torch Key	BM No. 5	74C8382
✓ Big Pine Key, Coupon Bight	BM No. 1	74C8382

The gage site for Pine Channel West was not identified because it was not shown on the sketch for the gage.

Tide stations Pine Channel West and Little Torch Key have the same bench mark.

Tidal bench mark J 70 RESET 1938 for Pine Channel West (South Pine) is in error for elevations of tidal plane. The real value should be about 9 ft. above MLW and not 2.95. This can be verified by using Vertical Control Quad 240811 which has an elevation of 8.993. This station is good for sea level datum 1929 only. The other bench marks for this gage site appears good.

Field edit notes will be found on the discrepancy print, field edit sheet and rectified photographs.

(2)

52. ADEQUACY OF COMPILATION

Adequate after application of field edit.

53. MAP ACCURACY

No test required.

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

Not required.

Submitted 6/23/76


Robert R. Wagner
Chief, Photo Party 66

January 1978

GEOGRAPHIC NAMES

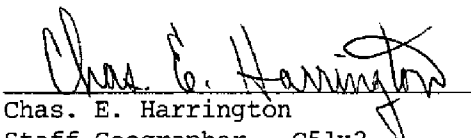
FINAL NAME SHEET

PH-7120 (Florida Keys)

TP-00472

Big Munson Island
Big Pine Key
Cook Island
Coupon Bight
Hopkins Island
Little Torch Key
Long Beach
Munson Island
Newfound Harbor
Newfound Harbor Channel
Newfound Harbor Keys
North Pine Channel
Ramrod Key
Southeast Point
South Pine Channel
Spanish Harbor
Straits of Florida
Torch Channel
Torch Ramrod Channel

Approved


Chas. E. Harrington
Staff Geographer - C51x2

REVIEW REPORT

TP-00472

April 1978

25

61. General

The map manuscript for Coastal Zone Map TP-00472 was inspected before field edit and reviewed as a Class I manuscript by the Quality Control Group. This review consisted of an examination of the map manuscript, the field edit and its application, the reproduction negatives and the Descriptive Report.

The proof copy of this map was edited by the Quality Control Group before making final copies for distribution to the state of Florida. This edit comprised a thorough inspection of map details to verify the accuracy of reproduction with reference to the map manuscript and the quality of reproduction. In addition the proof copy was examined by the following sections:

Coastal Mapping - Map details
Staff Geographer - Geographic names
Coastal Surveys - Horizontal and Vertical Control

62. Cartographic Comparison

Comparison was made with the following USGS quadrangle maps, 1:24,000 scale:

Marathon, Florida 1971
Bamboo, Florida 1971

No significant changes were found.

Comparison was made with nautical chart 11445 (formerly C&GS 853) 16th Edition, dated July 16, 1977.

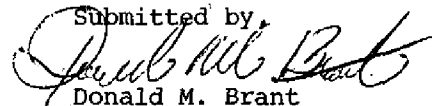
Significant field notes are carried forward on the chart maintenance print.

63. thru 65. Inapplicable.

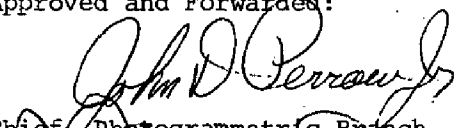
66. Adequacy of Results and Future Surveys

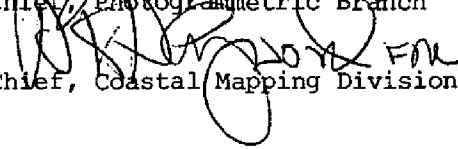
Coastal Zone Map TP-00472 complies with the Instructions for NOS Cooperative Boundary Mapping, Job PH-7000 and the National Standards of Map Accuracy.

Submitted by


Donald M. Brant

Approved and Forwarded:


Chief, Photogrammetric Branch


Chief, Coastal Mapping Division

76-40 PHOTOGRAMMETRIC BRANCH
LISTING COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

SIPL
VERSION
/18/75

* SVY TP-00472 * RPT UNIT CMD ROCKVILLE, MD. * PAGE 1 OF 1 *
* JOB PH-7120 * NONFLOATING AIDS FOR CHARTS * STATE FLORIDA *
* PRJ R * LOCALITY BIG PINE KEY * ORIGINATING ACTIVITY *
* DIM NA-1927 * DATE 12/09/76 * COMPILATION *

* THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *

* CHARTING* RECORD REASON FOR DELETION * POSITION * METHOD AND DATE *
* NAME * PUT TRIANGULATION NAMES IN () * LATITUDE DM C-C * OF LOCATION * CHARTS *
* * * LONGITUDE DP SEQ * OFFICE * FIELD * AFFECTED *

* * HAWK CHANNEL * * * *
* * MOSER CHANNEL * * * *

* LIGHT * NEWFOUND HARBOR CHANNEL * 24 37 6.66 204.9 200 * P-V-8 * 11442 *
2 * ENTRANCE LIGHT * 81 24 26.02 731.9 3 * * 06/22/76 * 11445 *

* DYBN * NEWFOUND HARBOR CHANNEL * 24 37 46.24 1422.7 219 * P-L-3-8 *
3 * * 81 23 40.68 1144.2 1 * * 06/22/76 * DITTO *

* DYBN * NILE CHANNEL * 24 37 33.74 1038.1 219 * P-L-3-8 *
4 * * 81 24 52.87 1487.0 2 * * 06/22/76 * DITTO *

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* TYPE OF ACTION * NAMES OF RESPONSIBLE PERSONNEL * ORIGINATOR *
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* POSITIONS DETERMINED * ROBERT R. WAGNER * FIELD REPRESENTATIVE *
AND/OR VERIFIED BY * JOSEPH W. KEATING * OFFICE COMPILER *
FIELD AND OFFICE * MICHAEL W. JOHANIK * DIGITIZER *
ACTIVITIES * JAMES H. TAYLOR * DATA PROCESSER *

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National Archives Data

for

TP-00472

Discrepancy print (Paper copy)

Field Edit sheet (Stable base copy)

1 NOAA Form 76-36C (History of Field Operations)

1 NOAA Form 76-40 (Nonfloating Aids, or Landmarks for Charts)

2 pages of field notes

Photographs:

74-C-8380 and 8384