

Original

TP-00466

TP-00466

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey Coastal Zone Map

Job No. PH-7120 Map No. TP-00466

Classification No. Final Edition No. ...1.....
Field Edited Map

LOCALITY

State Florida

General Locality Monroe County

Locality Big Pine Key

19 74 TO 19 77

REGISTRY 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 ☒ ORIGINAL ☐ RESURVEY ☐ REVISED	
PHOTOGRAMMETRIC OFFICE Rockville, Md.		SURVEY TP. <u>00466</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final</u> JOB PH. <u>7120</u>	
OFFICER-IN-CHARGE Cdr. J. Collins		LAST PRECEDING MAP EDITION TYPE OF SURVEY ☒ ORIGINAL ☐ RESURVEY ☐ REVISED JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
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 Instruction for Florida Coastal Zone Mapping) 1973	
II. DATUMS			
1. HORIZONTAL:		OTHER (Specify)	
☒ 1927 NORTH AMERICAN			
2. VERTICAL:		OTHER (Specify)	
☒ MEAN HIGH-WATER ☒ MEAN LOW-WATER ☐ MEAN LOWER LOW-WATER ☐ MEAN SEA LEVEL			
3. MAP PROJECTION Transverse Mercator		4. GRID(S)	
		STATE Florida	ZONE East
5. SCALE 1:10,000		STATE	ZONE
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY		R. Kelly	
METHOD: Analytic LANDMARKS AND AIDS BY		Inapplicable	
2. CONTROL AND BRIDGE POINTS PLOTTED BY		J. Taylor	
METHOD: Coradi CHECKED BY		Inapplicable	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY		Inapplicable	
COMPILATION CHECKED BY			
INSTRUMENT:		Inapplicable	
SCALE:			
4. MANUSCRIPT DELINEATION PLANIMETRY BY		J. McClure	
CHECKED BY		C. Lewis	
METHOD: Graphic-rectified photos		Inapplicable	
CHECKED BY			
SCALE:		Inapplicable	
HYDRO SUPPORT DATA BY			
CHECKED BY			
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		C. Lewis	
		Jul 76	
6. APPLICATION OF FIELD EDIT DATA BY		P. Dempsey	
CHECKED BY		Mar 77	
		C. Lewis	
		May 77	
7. COMPILATION SECTION REVIEW BY		J. Battley	
		June 77	
8. FINAL REVIEW BY		D. Brant	
		Jul 77	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY			
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		D. Brant	
		Oct. 77	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		R. Carter	
		Mar. 78	

COMPILATION SOURCES

TP-00466

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-10 C 3.5" focal length		TYPES OF PHOTOGRAPHY LEGEND (C) <u>COLOR</u> (P) PANCHROMATIC (I) INFRARED B&W	TIME REFERENCE	
TIDE STAGE REFERENCE ☐ PREDICTED TIDES ☐ REFERENCE STATION RECORDS ☒ TIDE CONTROLLED PHOTOGRAPHY			ZONE Eastern	☒ STANDARD
			MERIDIAN 75th	☐ DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
74C(C) 8251	14 Mar 74	1630	1:30,000	The stage of tide is inapplicable for the color photography. Refer to 76-36B(1) for tide information.
74C(C) 8288, 90, 92	14 Mar 74	1650	1:30,000	
74C(C) 8457	16 Mar 74	1520	1:30,000	
74C(C) 8526, 28, 30	16 Mar 74	1540	1:30,000	
74CR 2197, 98	8 Nov 74	1348	1:30,000	
74CR 2302, 03,04, 05	11 Nov 74	1339	1:30,000	
74CR 2450, 51	12 Nov 74	1447	1:30,000	
74CR 2475, 76	12 Nov 74	1522	1:30,000	
74CR 2674	22 Nov 74	0957	1:30,000	
74CR 2755, 56, 57	22 Nov 74	1111	1:30,000	
REMARKS				
74CR 2785, 86, 87, 88	22 Nov 74	1150	1:30,000	
74CR 2861	22 Nov. 74	1402	1:30,000	

2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the MHW line is the tide-coordinated black and white infrared photography listed under 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 shoreline 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

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00460	TP-00467	TP-00472	TP-00479

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 - 00466

LOCATION AND PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE	MEAN RANGE
74-CR 2197	Big Pine Key W. Side	-0.08' MHW	0.71'
74-CR 2198	Summerland Key E. Side	-0.09' MHW	1.18'
74-CR 2302, 03	Big Pine Key W. Side	+0.18' MHW	0.71'
74-CR 2304, 05	Big Pine Key N. End	+0.16' MHW	1.27'
74-CR 2450, 51	Big Pine Key W. Side	+0.32' MHW	0.71'
74-CR 2475	Big Pine Key W. Side	+0.29' MHW	0.71'
74-CR 2476	No Name Key	+0.31' MHW	0.71'
74-CR 2674	Big Pine Key W. Side	+0.06' MLW	0.71'
74-CR 2755	No Name Key	+0.05' MLW	0.71'
74-CR 2756	Big Pine Key W. Side	-0.11' MLW	0.71'
74-CR 2757	Big Torch Key	-0.16' MLW	0.76'
74-CR 2785, 86	Big Pine Key W. Side	-0.10' MLW	0.71'
74-CR 2787, 88	No Name Key	+0.03' MLW	0.71'
74-CR 2861	Big Spanish Key	+0.23' MLW	2.67'

REMARKS:

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION * Aug. 1972 ☒ FIELD EDIT OPERATION Sept. 23, 1977

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.R. Wagner	
2. HORIZONTAL CONTROL	RECOVERED BY J.D. DiMare ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	2/77
3. VERTICAL CONTROL	RECOVERED BY J.D. DiMare ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	2/77
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY J.D. Di Mare LOCATED (Field Methods) BY R.R. Wagner IDENTIFIED BY J.D. Di Mare	2/77 2/77 2/77
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY BY ☒ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY R.R. Wagner	2/77
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N/A	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
	Refer to the Field Report	74C8457	Z 272, A 273, B 273, E 273, K 328
		74C8526	C 273
		74C8292	L 273, M 273, P 273 H 70 Reset

3. PHOTO NUMBERS (Clarification of details)

74C8288, 8290, 8292, 8451, 8457, 8526, 8528, 8530; 74CR2756, 2786, 2787

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

Landmarks and non-floating aids were either located or verified by field methods

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
74CR2756	Micro Tower		

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)

Refer to Field Report bound in this Descriptive Report

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

RECORD OF SURVEY USE

TP-00466

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Office - Class III	7/7/76	Special request from Requirements Branch	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
		9/27/77	Four (4) digitized NOAA Forms 76-40 submitted as final report.

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

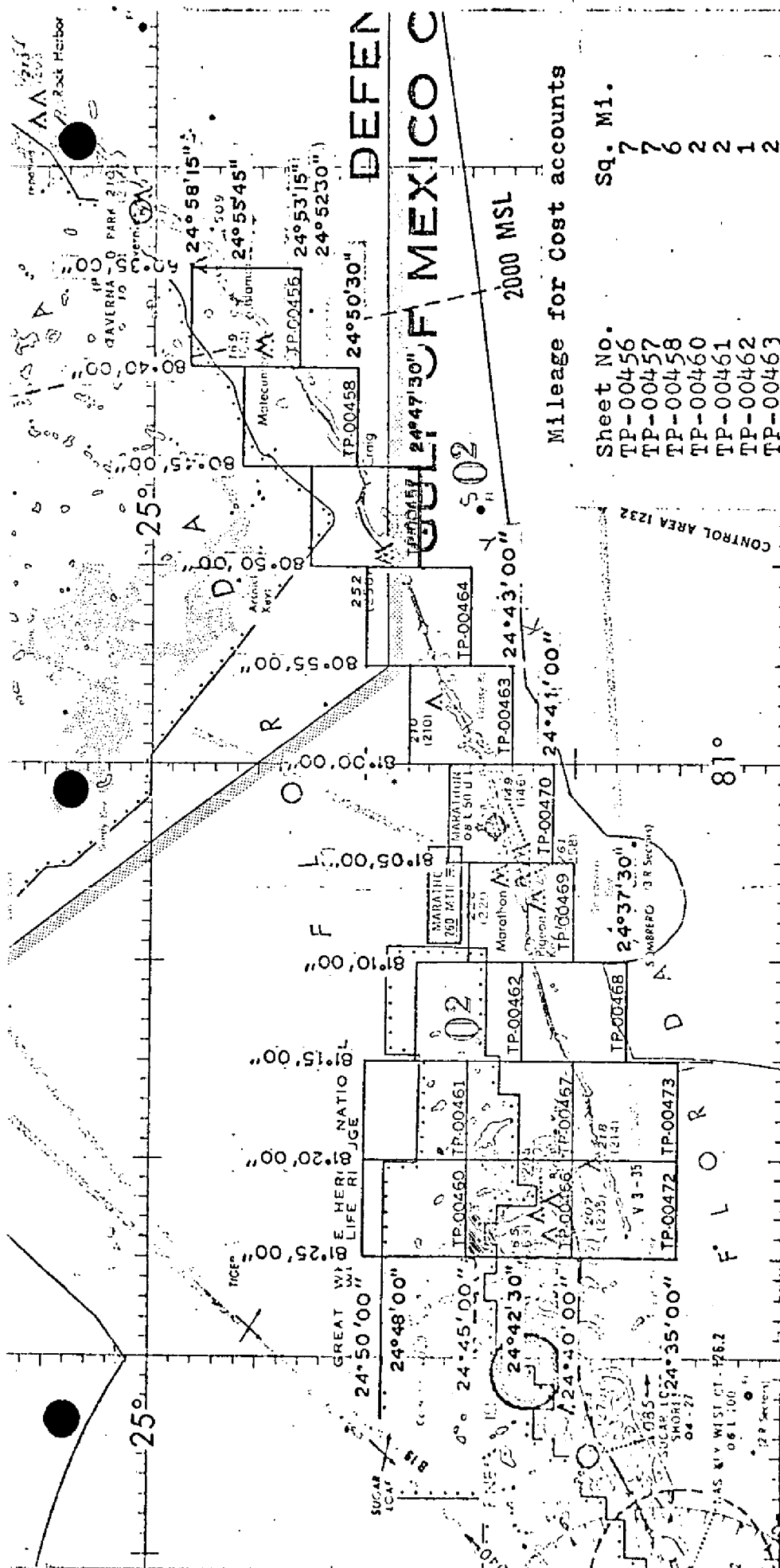
III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS ⁷⁶⁻⁴⁰ ~~562~~ 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	



JOE FH-7120

PLANTATION KEY to BIG PINE KEY
FLORIDA

SHORELINE MAPPING

SCALE 1:10000

REVISED
10/3/74
2/24/76

A
R
T

Mileage for Cost accounts		Sq. Mi.
Sheet No.		
TP-00456	7	
TP-00457	7	
TP-00458	6	
TP-00460	2	
TP-00461	2	
TP-00462	1	
TP-00463	2	
TP-00464	4	
TP-00466	12	
<u>TP-00467</u>	5	
TP-00468	3	
TP-00469	5	
TP-00470	6	
TP-00472	8	
TP-00473	3	
Total	82	

SUMMARY

For

TP-00456 thru TP-00458

TP-00460 thru TP-00464

TP-00466 thru TP-00473

Coastal Zone Map TP-00466 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 area (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.

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

FIELD REPORT
JOB PH-7120

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. BAY 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 ~~2.25-2.38~~ 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 ~~2.25-2.38~~ 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

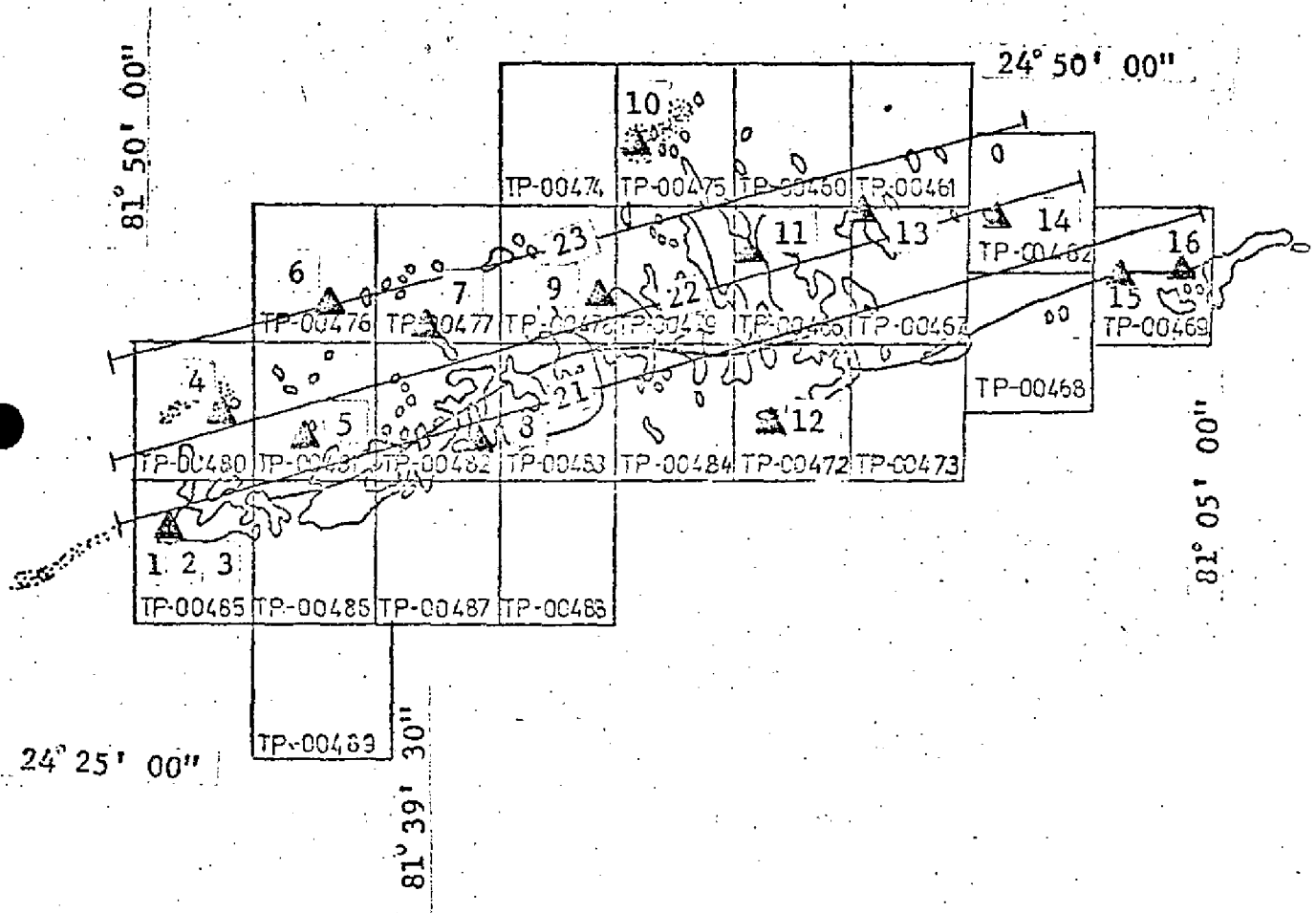
Robert B. Kelly

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



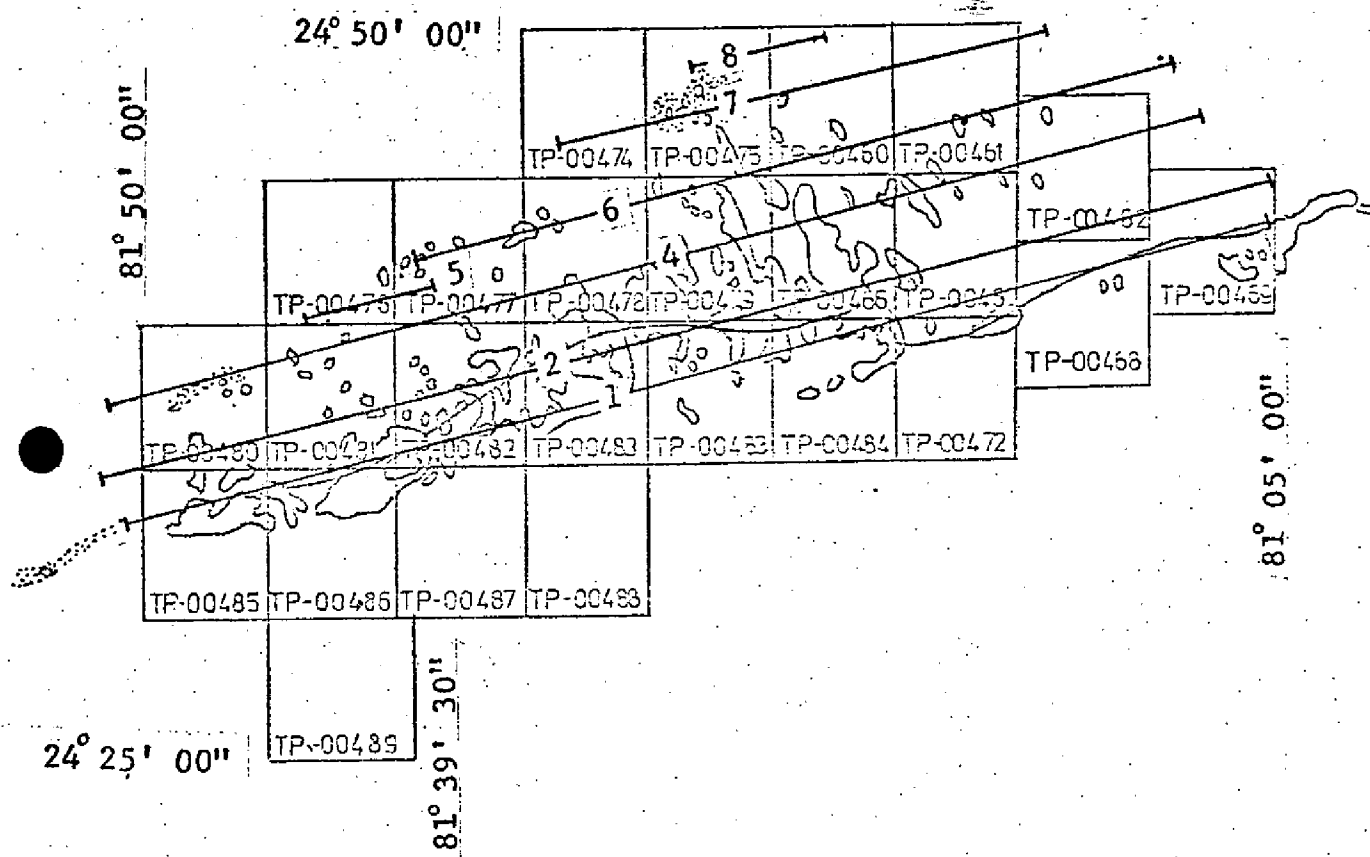
INDEX TO STRIPS OF PHOTOGRAPHS

21	74C(c)	8113-8141	Renumbered	101-114
22	"	8092-8108	"	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)

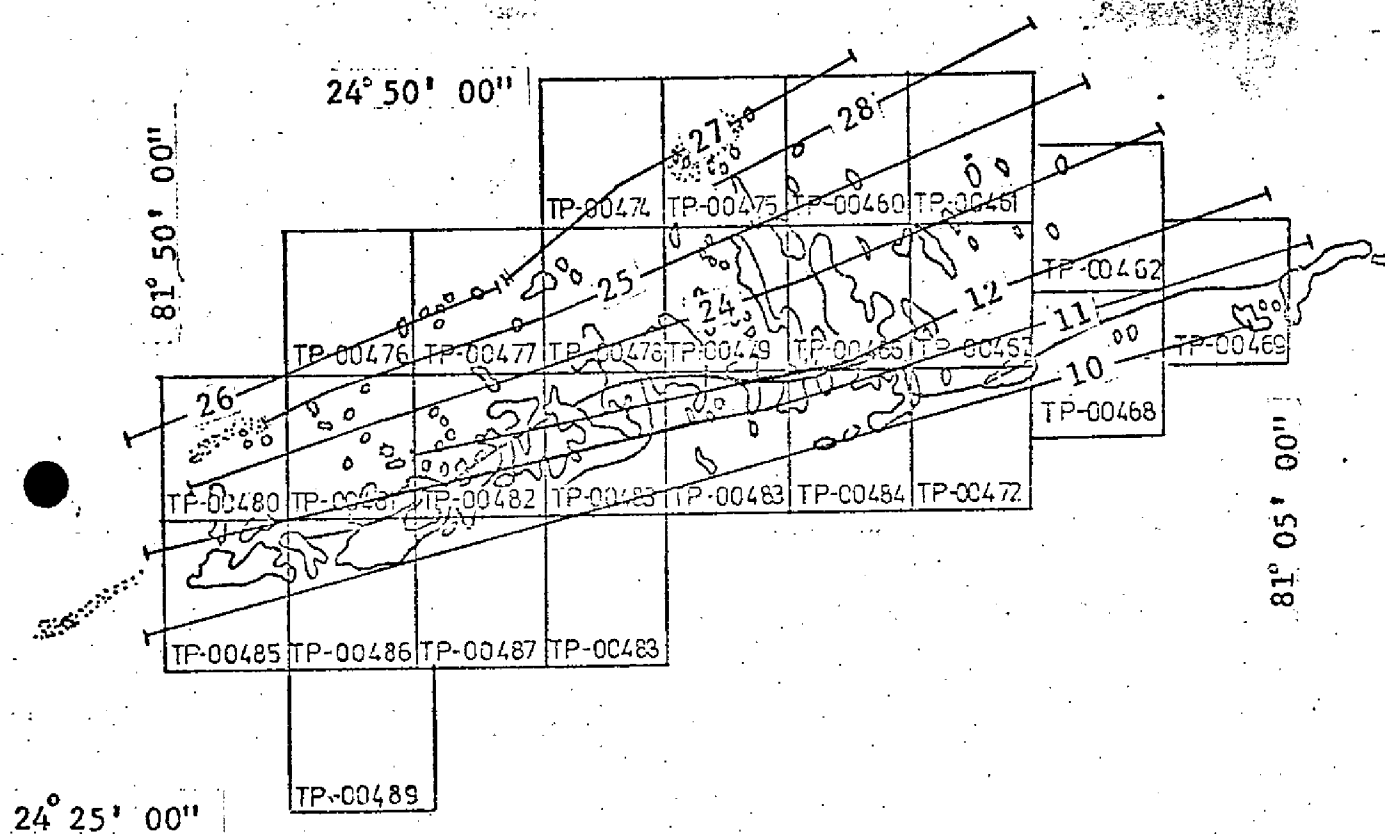
JOB CM-7201
 BOOT KEY TO KEY WEST
 FLORIDA
 SHORELINE MAPPING
 COMPILATION PHOTOGRAPHY



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	"	7434-7491

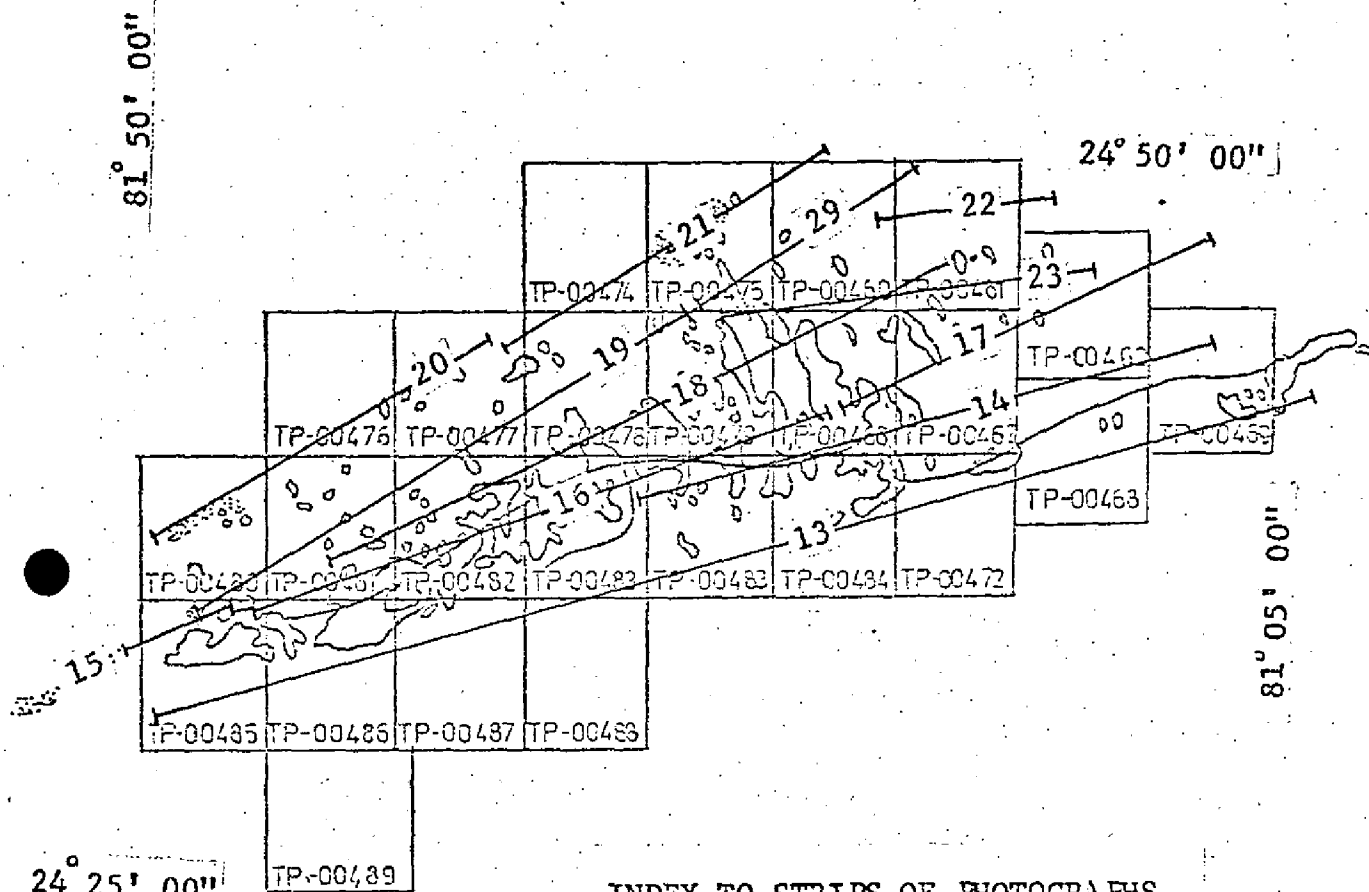
JOB CM-7201
 BOOT KEY TO KEY WEST
 FLORIDA
 SHORELINE MAPPING
 MEAN LOW WATER PHOTOGRAPHY



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

Map TP- 00466

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
BIG PINE, 1935	Book 426, P. 3, 33; GP 421 Fla. Vol. 1; PC P. 107 Fla. E. Zone
GRASSY, 1935	Book 425, P. 23, 32; GP 446 Fla. Vol. 1; PC P. 116 Fla. E. Zone
LITTLE TORCH KEY MICRO- WAVE TOWER, 1959	Fla. Vol II, P. 18
PINEY, 1935	Book 426, P. 4, 41, 47; GP 442 Fla. Vol. 1: PC 115 Fla. E. Zone
PINKEY, 1935	Book 426, P. 4, 41; GP 420 fla. Vol. 1; PC 107 Fla. E. Zone
PORPOISE KEY, 1935	Book 426, P. 1, 42; GP 421 Fla. Vol. 1; PC 108 Fla. E. Zone
SAND, 1934-1935	Book 425, P. 24; Book 426, P. 1, 32, 43, 48; GP 326 Fla. Vol. 1; PC 80 Fla. E. Zone

Compilation Report

TP-00466

July 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.

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

32. Horizontal Control

Horizontal control was adequate (see Photogrammetric Plot Report).

33. Supplemental Data - None34. Contours and Drainage

Contours are not applicable. Drainage was compiled from office interpretation of the ratioed 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.

36. Offshore Detail

No unusual problems were encountered.

37. Landmarks and Aids - Refer to Form 76-40

Two landmarks (Antenna, and Little Torch Key Microwave Tower 1959) were located during compilation and will be verified during field edit. All other aids and/or landmarks are to be located by field edit.

38. Control for Future Surveys - None

39. Junctions - Refer to Form 76-36B

40. Horizontal and Vertical Accuracy

This map complies with 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 7 1/2 min. topographic quadrangles:

Big Pine Key, Florida 1972
Summerland Key, Florida 1972

No significant differences were noted.

47. Comparison with Nautical Charts

Comparison was made with the following nautical charts:

11442	1:80,000	May 31, 1975
11448	1:40,000	Nov 23, 1974
11445	1:40,000	Jun 28, 1975

Items to be applied to nautical charts immediately: None

Items to be carried forward: None

Submitted by:

John McClure

John McClure

Approved and Forwarded by:

Jeter P. Battley Jr.

Chief, Coastal Mapping Section

Chief, Coastal Mapping Division

FIELD EDIT REPORT, MAP TP-00466, 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 features will be found on the photographs, field edit sheet and discrepancy print.

Seven triangulation stations were recovered. Two of these stations are not plotted on the field copy of the manuscript. BIG PINE 1935 is also a vertical control station and a tidal bench mark. SAND 1934 1935 is also a vertical control station. Both are recommended for plotting.

(419) Thirteen vertical control stations were recovered. ^{Ten} ~~None~~ were identified on the photographs listed on Form 76-36c, item 2. The other four are triangulation stations: BIG PINE 1935, PINEY 1935, PINKEY 1935 and SAND 1934 1935.

Three towers are recommended for charting.

All known aids have been located.

Eleven tide stations fall on this manuscript.

<u>Station</u>	<u>Bench Mark</u>	<u>Photograph</u>
Big Pine Key Viaduct	K 328	74C8457 ✓
Pine Channel East (North Pine)	H 70 RESET 1938(1966)	74C8457 ✓
Big Pine Key, Bogie Channel	E 273	74C8457 ✓
Doctor's Arm	C 273	74C8526 ✓
Big Pine Key, West	BIG PINE 1935	74C8526 ✓
Big Pine Key, Northeast Shore	NO. 4	74C8292 ✓
Mayo Key	NO. 1	74C8288 ✓
Big Pine Key, North End	PINEY 1935	74C8251 ✓
Water Key, Big Spanish Channel	GRASSY 1935	74C8288 ✓
Porpoise Key	PORPOISE KEY 1935	74C8288 ✓
Howe Key (Off South End)	PINKEY 1935	74C8251 ✓

The Big Pine Key, Bogie Channel gage site was not located on the tide sketch and therefore was not identified on the photograph.

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

52. ADEQUACY OF COMPILATION

Adequate after application of field edit.

53. MAP ACCURACY ~~XXX~~

No test required.

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

Not required.

Submitted 3/3/77



Robert R. Wagner
Chief, Photo Party 66

Review Report
TP-00466
October 1977

61. General

The map manuscript for Coastal Zone Map TP-00466 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:

Big Pine Key, Florida 1972
Summerland Key, Florida 1972

No significant changes were found.

Comparison with ^{chart} ~~chart~~ 11448 (formerly C&GS 859), 7th edition, dated November 23, 1974.

Chart 11448 shows offshore ledge north and east of Big Pine Key. This area of shoreline was classified as such on TP-00466. No evidence of ledge is visible on the photography.

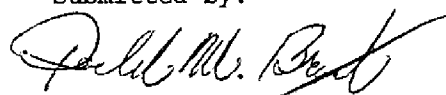
Copies of the field editor's notes, pertaining to obstructions, are attached to the Chart Maintenance Print.

63.thru 65 Inapplicable

66. Adequacy of Results and Future Surveys

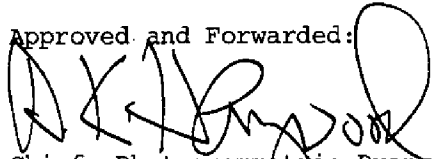
Coastal Zone Map TP-00466 complies with the Instructions for NOS Cooperative Boundary Mapping, Job PH-7000 and the National Standards of Map Accuracy.

Submitted by:

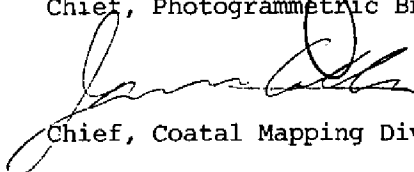


Donald M. Brant

Approved and Forwarded:



Chief, Photogrammetric Branch



Chief, Coastal Mapping Division

July 29, 1977

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7120 (Florida Keys)

TP-00466

Annette Key

South Pine Channel

Big Pine Key

The Grasses

Big Spanish Channel

Torch Channel

Bogie Channel

Torch Ramrod Channel

Doctors Arm

Water Key

Doctors Point

Water Key Mangroves

Great White Heron National Wildlife Refuge

Howe Key

Little Torch Key

Mayo Key

Middle Torch Key

National Key Deer Refuge

No Name Key

North Pine Channel

Pine Channel

Porpoise Key

Ramrod Key

Approved


Chas. E. Harrington
Staff Geographer - C51x2

76-40	PHOTOGRAMMETRIC BRANCH	NATIONAL OCEAN SURVEY	NOAA	DATA TAB
LISTING	COASTAL MAPPING DIVISION	DEPARTMENT OF COMMERCE	USA	VERSION
				770818
* SVY	TP-00466	* RPT UNIT	CMD ROCKVILLE, MD.	* PAGE 1 OF 4
* JOB	PH-7125	* NONFLOATING AIDS FOR CHARTS	* STATE FLORIDA	* ORIGINATING ACTIVITY*
* PRJ	833205	* TO BE CHARTED	* LOCALITY BIG PINE KEY	* COMPILATION
* DTM	NA 1927		* DATE 06/07/77	
* THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS				
* CHARTING*	RECORD REASON FOR DELETION	* POSITION	CMD *	METHOD AND DATE
* NAME *	PUT TRIANGULATION NAMES IN ()	* LATITUDE	UM	OF LOCATION
		* LONGITUDE	DP	FIELD
				* AFFECTED*
* MOSER CHANNEL-HARBOR KEY				
* DYBN *	BIG SPANISH CHANNEL	* 24 43 16.26	500.3	* F-P-3-8
26 *		* 81 20 00.85	23.9	* 02/22/77
* DYBN *	DITTO	* 24 44 50.48	1553.2	* F-P-3-8
28 *		* 81 21 26.13	734.2	* 02/22/77
* BIG SPANISH CHANNEL-KEY WEST				
* DYBN *	PORPOISE KEY	* 24 42 49.74	1538.4	* F-P-3-8
1 *		* 81 20 38.95	1094.8	* 02/24/77
* DYBN *	DITTO	* 24 42 53.54	1647.3	* F-P-3-8
2 *		* 81 21 04.66	131.0	* 02/24/77
* DYBN *	BIG PINE KEY	* 24 43 36.51	1123.3	* F-P-3-8
4 *		* 81 22 44.24	1243.3	* 02/24/77
* DYBN *	DITTO	* 24 43 39.87	1226.7	* F-P-3-8
6 *		* 81 22 50.39	1416.1	* 02/24/77
* DYBN *	DITTO	* 24 43 47.47	1460.5	* F-P-3-8
7 *		* 81 22 58.47	1643.2	* 02/24/77
* DYBN *	DITTO	* 24 44 03.02	92.9	* F-P-3-8
9 *		* 81 23 07.07	198.7	* 02/24/77
* POSITIONS DETERMINED				
* AND/OR VERIFIED BY				
* FIELD AND OFFICE				
* ACTIVITIES				
* NAMES OF RESPONSIBLE PERSONNEL				
* ORIGINATOR				
* FIELD REPRESENTATIVE				
* OFFICE COMPILER				
* DIGITIZER				
* DATA PROCESSOR				

* SVY TP-00466 * RPT UNIT CMD ROCKVILLE, MD. * PAGE 2 OF 4 *
 * JOB PH-7120 * NONFLOATING AIDS FOR CHARTS *
 * PRJ 833205 * TO BE CHARTED *
 * DTM NA 1927 * DATE 06/07/77 *
 * ORIGINATING ACTIVITY *
 * COMPILATION *

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

* CHARTING* RECORD REASON FOR DELETION * POSITION CMD * METHOD AND DATE * CHARTS *
 * NAME * PUT TRIANGULATION NAMES IN () * LATITUDE DM ALTEK* OF LOCATION * FIELD * AFFECTED *

DYBN	*	BIG SPANISH CHANNEL-KEY WEST	*	24	44	08.76	269.5	*	F-P-3-8	*	11442	*
10	*	BIG PINE KEY	*	81	23	11.89	334.1	*	02/24/77	*	11445	*
DYBN	*	DITTO	*	24	44	16.32	502.1	*	F-P-3-8	*	11448	*
12	*		*	81	23	14.65	411.7	*	02/24/77	*	DITTO	*
DYBN	*	DITTO	*	24	44	19.99	615.0	*	F-P-3-8	*		*
13	*		*	81	23	15.44	433.9	*	02/24/77	*	DITTO	*
DYBN	*	DITTO	*	24	44	21.66	666.4	*	F-P-3-8	*		*
15	*		*	81	23	17.55	493.2	*	02/24/77	*	DITTO	*
DYBN	*	DITTO	*	24	44	23.05	709.2	*	F-P-3-8	*		*
17	*		*	81	23	19.43	546.0	*	02/24/77	*	DITTO	*
DYBN	*	DITTO	*	24	44	25.79	793.5	*	F-P-3-8	*		*
19	*		*	81	23	21.98	617.7	*	02/24/77	*	DITTO	*
DYBN	*	DITTO	*	24	44	27.99	861.2	*	F-P-3-8	*		*
20	*		*	81	23	24.87	698.9	*	02/24/77	*	DITTO	*
DYBN	*	DITTO	*	24	44	29.92	929.6	*	F-P-3-8	*		*
21	*		*	81	23	27.16	763.2	*	02/24/77	*	DITTO	*
DYBN	*	DITTO	*	24	44	32.96	1014.1	*	F-P-3-8	*		*
22	*		*	81	23	27.91	784.3	*	02/24/77	*	DITTO	*
DYBN	*	DITTO	*	24	44	33.33	1025.5	*	F-P-3-8	*	28	*
23	*		*	81	23	29.24	821.7	*	02/24/77	*	DITTO	*

* TYPE OF ACTION * NAMES OF RESPONSIBLE PERSONNEL * ORIGINATOR *

* * * * *

POSITIONS DETERMINED
AND/OR VERIFIED BY
FIELD AND OFFICE
ACTIVITIES

ROBERT R. WAGNER
PATRICK J. DEMPSEY
ALFRED BETHA
JAMES H. TAYLOR

FIELD REPRESENTATIVE
OFFICE COMPILER
DIGITIZER
DATA PROCESSER

75-40
LISTING
PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

DATA TAB
VERSION
770818

UNIT 1517
04-92

* SVY	* TP-00466	* NONFLOATING AIDS FOR CHARTS TO BE CHARTED	* RPT UNIT	* CMD ROCKVILLE, MD.	* PAGE	* 3 OF	* 4
* JOB	* PH-7120	*	* STATE	* FLORIDA			*
* PRJ	* 833205	*	* LOCALITY	* BIG PINE KEY	* ORIGINATING ACTIVITY*		*
* DTM	* NA 1927	*	* DATE	* 06/07/77	* COMPILATION		*
* THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *							
* CHARTING*	* RECORD REASON FOR DELETION	* DESCRIPTION	* POSITION	* CMD *	* METHOD AND DATE	* CHARTS	*
* NAME	* PUT TRIANGULATION NAMES IN ()	* LATITUDE	* DM	* ALIEK*	* OF LOCATION	* FIELD	*
		* LONGITUDE	* DP	* DGTD*	* OFFICE	* AFFECTED*	*

[illegible]

TYPE OF ACTION	NAMES OF RESPONSIBLE PERSONNEL	ORIGINATOR
POSITIONS DETERMINED	ROBERT R. WAGNER	FIELD REPRESENTATIVE
AND/OR VERIFIED BY	PATRICK J. DEMPSEY	OFFICE COMPILER
FIELD AND OFFICE	ALFRED BEITHEA	DIGITIZER
ACTIVITIES	JAMES H. TAYLOR	DATA PROCESSOR

DATATAB
VERSION
770818

* POSITIONS DETERMINED	* ROBERT R. WAGNER	* FIELD REPRESENTATIVE
* AND/OR VERIFIED BY	* PATRICK J. DEMPSEY	* OFFICE COMPILER
* FIELD AND OFFICE	* ALFRED BETHEA	* DIGITIZER
* ACTIVITIES	* JAMES H. TAYLOR	* DATA PROCESSER

National Archives Data

TP-00466

1 Discrepancy print (paper copy)

1 Field edit sheet (stable base)

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

4 NOAA Forms 76-40 (Non Floating Aids or Landmarks for Charts)

Photography:

8382

74C 8526

8528

8530

8382

8292

8290

8288

8251

74CR 2756 (Part)