

original

TP-00460

TP-00460

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-00460....
Classification No. Final	Edition No. ..1.....
Field Edited Map	
LOCALITY	
State	Florida
General Locality	Monroe County
Locality ... Rocky Channel to	
Howe 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.		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		SURVEY TP-00460 MAP EDITION NO. (1) MAP CLASS Final JOB PH-7120	
DESCRIPTIVE REPORT - DATA RECORD				LAST PRECEDING MAP EDITION			
				TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		JOB PH- MAP CLASS SURVEY DATES: 19__ TO 19__	
PHOTOGRAMMETRIC OFFICE Rockville, Md.				OFFICER-IN-CHARGE Cdr. J. Collins			
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
General Instructions -OFFICD-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 operation instructions.				Instructions-FIELD-July 6, 1972 Field Edit (PH-7000) General Instruction for Florida Coastal Zone Mapping) 1973			
II. DATUMS							
1. HORIZONTAL: <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 type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL				OTHER (Specify)			
3. MAP PROJECTION Transverse Mercator				4. GRID(S) STATE Florida ZONE East Zone			
5. SCALE 1:10,000				STATE ZONE			
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY				R. Kelly		Oct. 75	
				Inapplicable			
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradi CHECKED BY				J Taylor		Apr. 76	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY				Inapplicable			
INSTRUMENT: CONTOURS BY				Inapplicable			
SCALE: CHECKED BY							
4. MANUSCRIPT DELINEATION PLANIMETRY BY				J. McClure		Jun. 76	
				J. Battley, Jr.		Jun 76	
METHOD: Graphic-rectified photos CONTOURS BY				Inapplicable			
SCALE: HYDRO SUPPORT DATA BY				Inapplicable			
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				C. Lewis		June 1976	
				P. Dempsey		Apr. 77	
6. APPLICATION OF FIELD EDIT DATA BY				J. Battley, Jr.		June 77	
7. COMPILATION SECTION REVIEW BY				C. Lewis		July 77	
8. FINAL REVIEW BY				D. Brant		Sept. 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. Cator		May 78	

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

TP-00460

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) <u>Wild RC 10 C 3.5" focal length</u>		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) <u>COLOR</u> (P) PANCHROMATIC (I) <u>INFRARED B&W</u>		ZONE <u>Eastern</u>	<input checked="" type="checkbox"/> STANDARD
<input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN <u>75th</u>	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
74-C(C) 7428, 30, 32	6 Mar 74	0925	1:30,000	The stage of tide is inapplicable for the color photography. Refer to 76-36B(1) for tide information	
74-C(C) 7486	6 Mar 74	0948	1:30,000		
74-C(C) 7532, 34, 36	6 Mar 74	1005	1:30,000		
74-C(C) 8253, 55	14 Mar 74	1630	1:30,000		
74-C(R) 2250	11 Nov. 74	1230	1:30,000		
74-C(R) 2260, 61, 62, 63	11 Nov. 74	1313	1:30,000		
74-C(R) 2314, 15, 16	11 Nov. 74	1357	1:30,000		
74-C(R) 2527, 28, 29, 30	16 Nov. 74	1024	1:30,000		
74-C(R) 2558, 59	16 Nov. 74	1412	1:30,000		
74-C(R) 2575, 76	17 Nov. 74	1032	1:30,000		
REMARKS 74-C(R) 2861, 62, 64	22 Nov. 74	1400	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 in item 1. The rectified color photography was used as an aid for interpreting 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
Inapplicable					

5. FINAL JUNCTIONS

NORTH	No contemporary survey	EAST	TP-00461	SOUTH	TP-00466	WEST	TP-00475
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 - 00460

LOCATION AND PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE	MEAN RANGE
74-C(R) 2250	Big Spanish Key	+0.20' MHW	2.67'
74-C(R) 2260 -63	Big Spanish Key	-0.21' MHW	2.67'
74-C(R) 2314 -16	Big Spanish Key	-0.18' MHW	2.67'
74-C(R) 2527 -30	Big Spanish Key	-0.05' MLW	2.67'
74-C(R) 2558, 59	Big Spanish Key	-0.21' MHW	2.67'
74-C(R) 2575, 76	Content Key	0.00 MLW	2.84'
74-C(R) 2861, 62, 64	Big Spanish Key	+0.23' MLW	2.67'

REMARKS:

HISTORY OF FIELD OPERATIONS TP-00460

I. ☒ FIELD INSPECTION OPERATION * Aug. 1972 ☒ FIELD EDIT OPERATION March 1977

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.R. Wagner	
2. HORIZONTAL CONTROL	RECOVERED BY R.R. Wagner	Feb. 77
	ESTABLISHED BY Inapplicable	
	PRE-MARKED OR IDENTIFIED BY Inapplicable	
3. VERTICAL CONTROL	RECOVERED BY None	
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY Inapplicable	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY R.R. Wagner	Feb. 77
	LOCATED (Field Methods) BY R.R. Wagner	Feb. 77
	IDENTIFIED BY	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY R.R. Wagner	Feb. 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 Field Report for Job PH-7120		

3. PHOTO NUMBERS (Clarification of details)

74C7532, 74C8251, Part of TP-00466, 74C8253, 74CR2861

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

There are no landmarks. Non floating aids were either verified or located during Field edit.

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)

Refer to Field Report bound with this Descriptive Report

5 pages of sextant angles to aids.

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

RECORD OF SURVEY USE

TP-00460

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Office - Class III	6/11/76	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	Two digitized Forms 76-40 are submitted
			as final report.

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 9/27/773. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

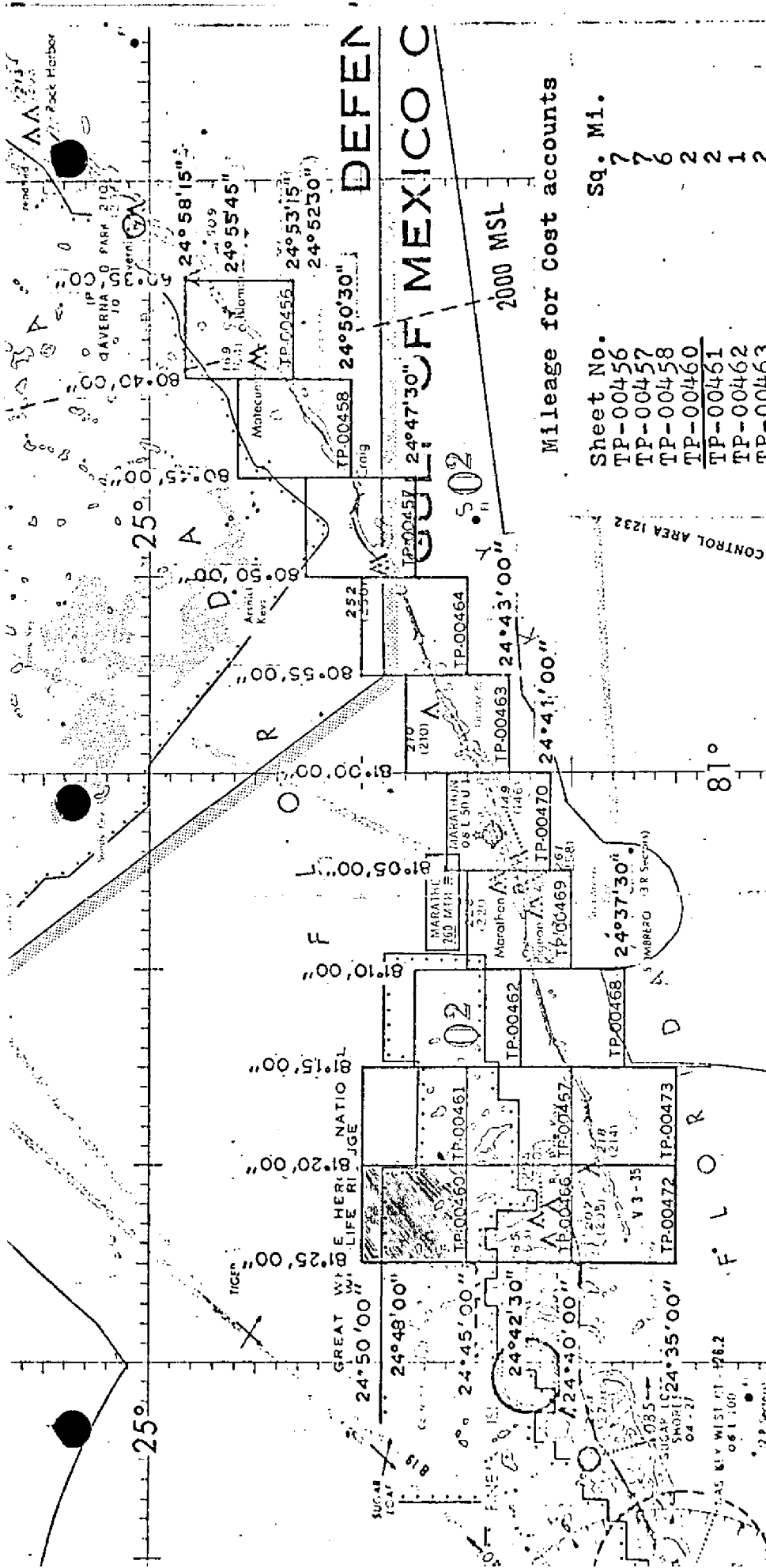
III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☐ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS ⁷⁶⁻⁴⁰ 567 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	



JOB PH-7120

PLANTATION KEY TO BIG PINE KEY FLORIDA

T R A

SHORELINE MAPPING

SCALE 1:10000

REVISED 10/3/74
2/24/76

Mileage for Cost accounts

Sq. Mi.

Sheet No.
TP-00456
TP-00457
TP-00458
TP-00460
TP-00461
TP-00462
TP-00463
TP-00464
TP-00466
TP-00467
TP-00468
TP-00469
TP-00470
TP-00472
TP-00473

7
7
6
2
2
1
2
4
12
5
3
5
6
8
3
Total 82

SUMMARY

For

TP-00456 thru TP-00458

TP-00460 thru TP-00464

TP-00466 thru TP-00473

Coastal Zone Map TP-00460 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

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.

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 ~~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 CRANNEL 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 TAVERNEIR, FLA. PAY 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 & 7120
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.

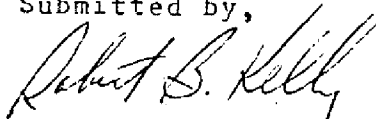
24. Supplemental Data

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

25. Photography

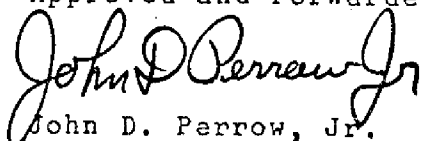
RC-8 color film positives were adequate as to coverage, overlap, and definition.

Submitted by,



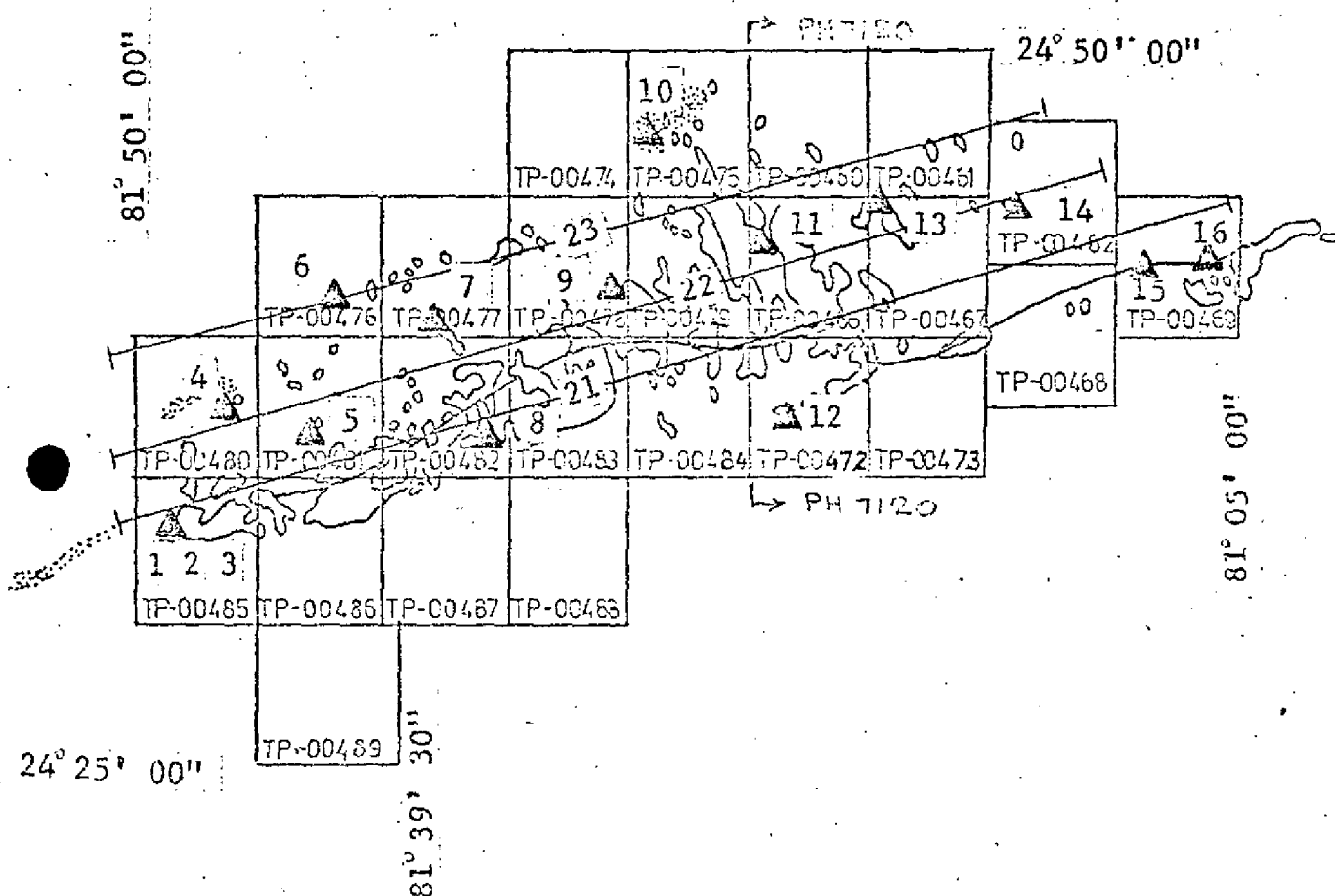
Robert B. Kelly

Approved and Forwarded:



John D. Perrow, Jr.
Chief, Aerotriangulation Section

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



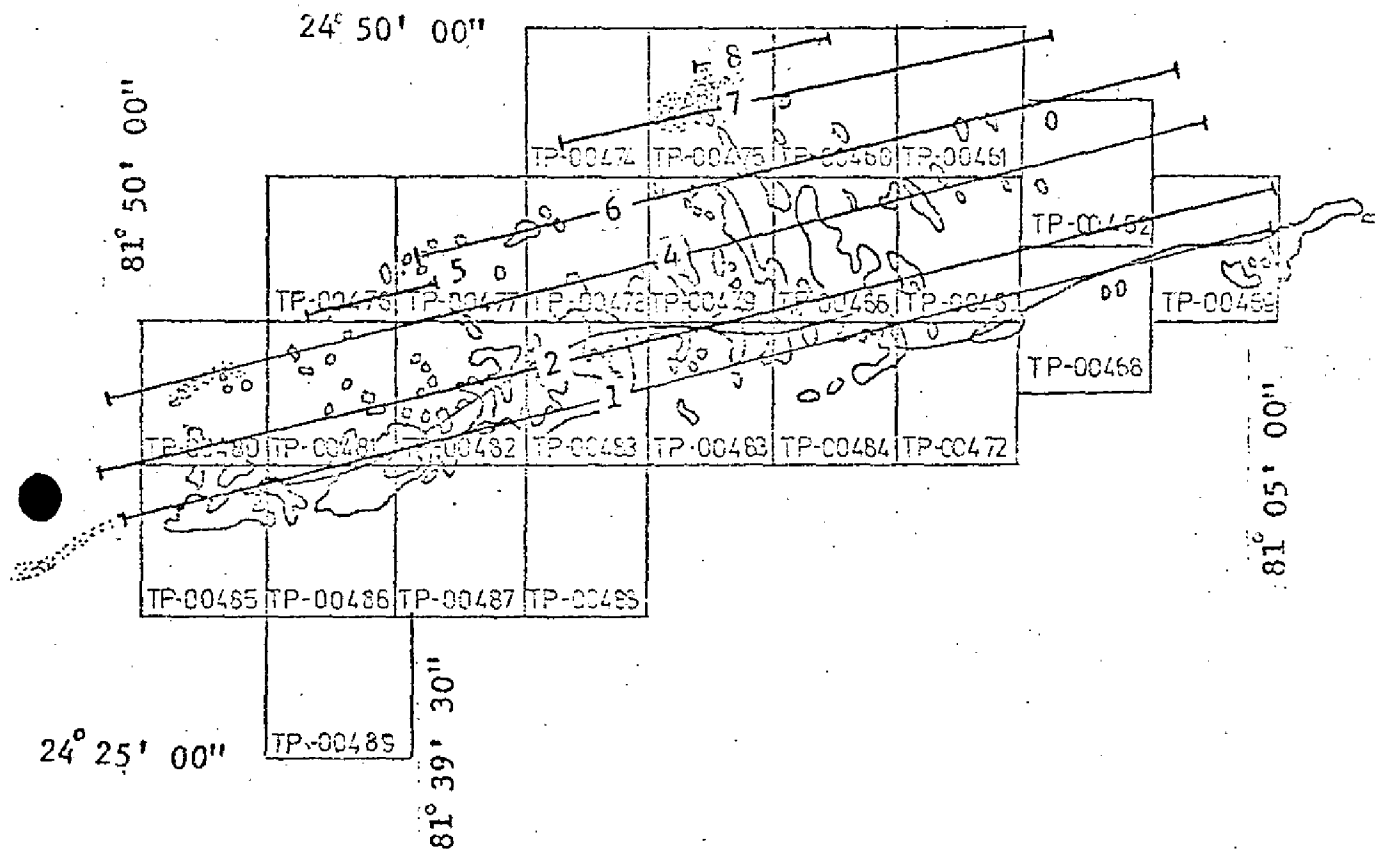
INDEX TO STRIPS OF PHOTOGRAPHS

21	74C(c)	8113-8141	Renumbered	101-114
22	"	8032-8103	"	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)

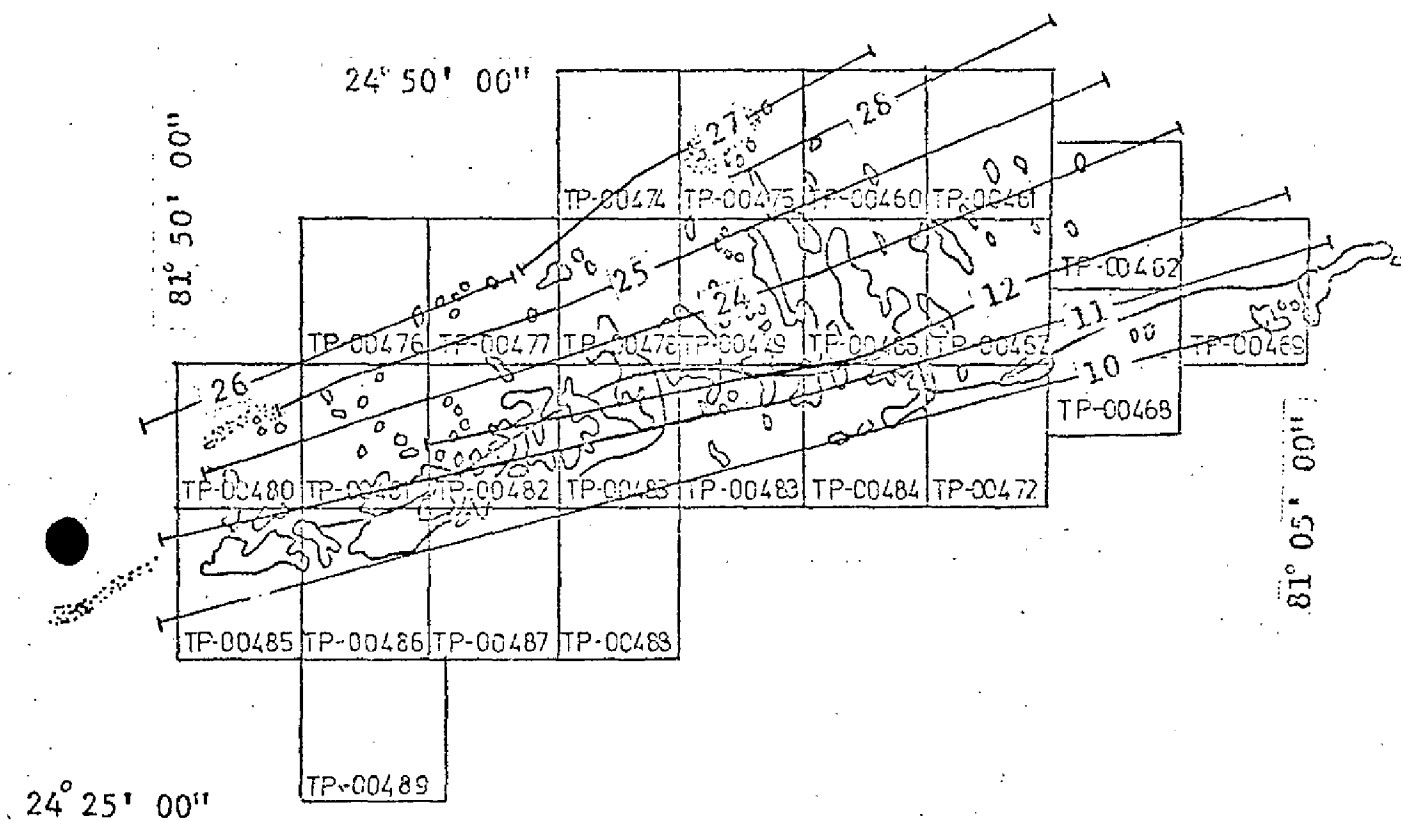
JOE CM-7201
BOAT KEY TO KEY WEST
FLORIDA
SHORELINE MAPPING
COMPILATION PHOTOGRAPHY



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

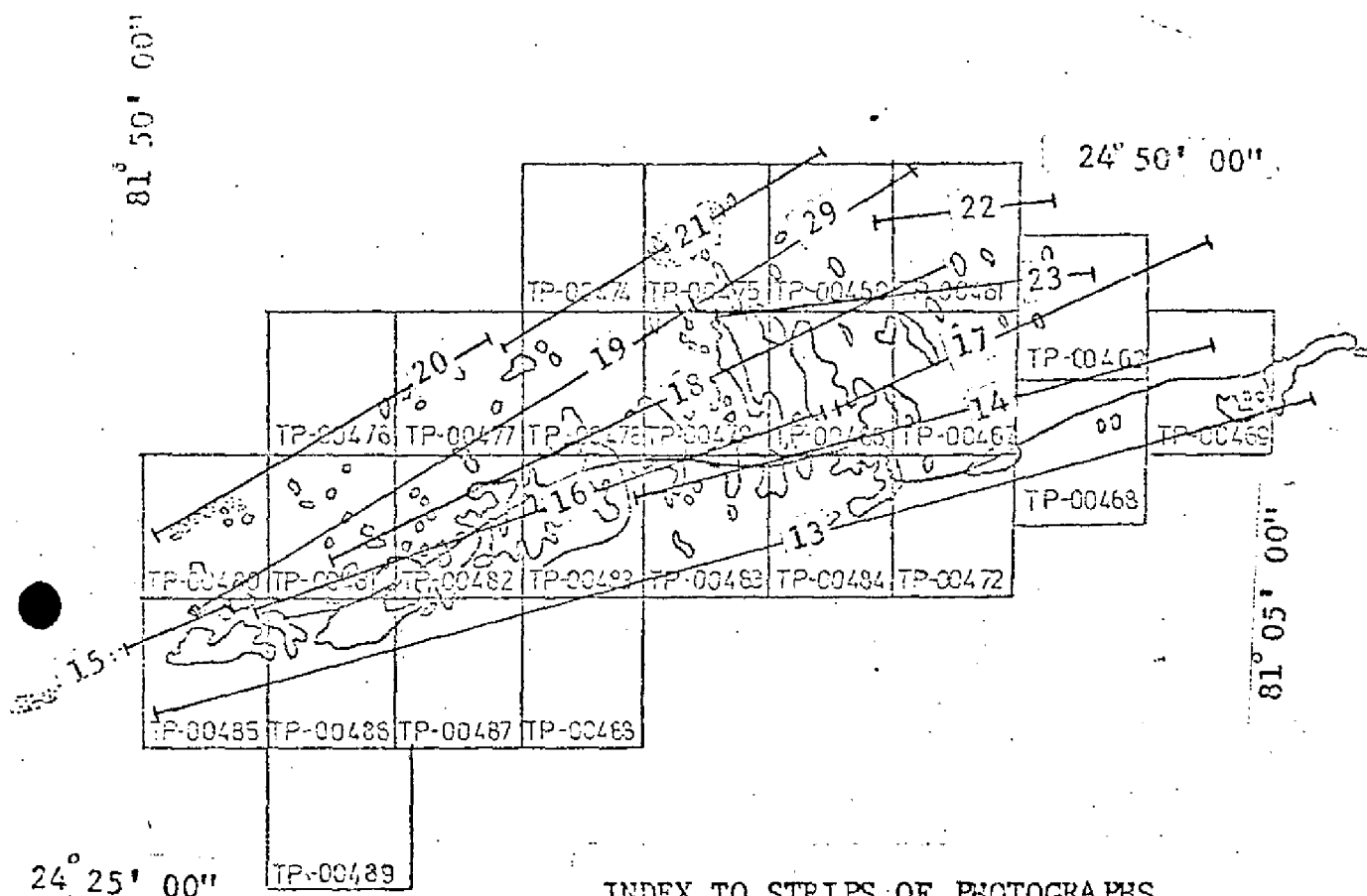
JOS CM-7201
 BOOT KEY TO KEY WEST
 FLORIDA
 SHORELINE MAPPING
 MEAN LOW WATER PHOTOGRAPHY



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

HORIZONTAL CONTROL TP-001/69

Station	NOS Geodetic Data Reference for Descriptions, Positions, Coordinates and Azimuths
ANN, 1935	Book 426, P. 4, 33; GP 441 Fla. Vol. 1; PC 114 Fla. E. Zone
CRAWL KEY, 1935	Book 426, P. 1; GP 326 Fla. Vol. 1; PC 80 Fla. E. Zone

6877 3-11-69

COMPILATION REPORT

TP-00460

JUN. 76

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 and interior features. Color contact transparencies 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-~~infrared~~ 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

None

34. CONTOURS AND DRAINAGE

Not applicable.

35. SHORELINE AND ALONGSHORE DETAIL

Office interpretation of the tide coordinated black-and-white photography was adequate for delineating the shoreline and alongshore detail.

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 76-36B.

40. HORIZONTAL AND VERTICAL ACCURACY

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

41-45. Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with the following USGS 7 1/2 Min. Topographic Quadrangles:

Content Keys, Florida 1972
Horseshoe Keys, Florida 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 - Jun 28, 1975 1:40,000
11448 - Nov 23, 1974 1:40,000

Items to be applied to nautical charts immediately: None

Items to be carried forward: None

Submitted by:

John W. McClure
John McClure

Approved and Forwarded:

Jeter P. Battley Jr.

J. P. Battley, Jr.

Chief, Coastal Mapping Section

FIELD EDIT REPORT, MAP TP-00460, JOB PH-7120

51. METHODS

The shoreline was inspected from a small boat while cruising just off shore. All shoreline is apparent.

✓ Two triangulation stations were recovered.

✓ There is no vertical control.

There are no landmarks.

Four tide stations are on this manuscript.

<u>Station</u>	<u>Bench Mark</u>	<u>Photograph</u>
✓ Crawl Key, Big Spanish Channel	CRAWL KEY, 1935	74C8253
✓ Little Spanish Key, Big Spanish Channel	NO. 1	74C8253
✓ Annette Key	ANN, 1935	74C8253
✓ Big Spanish Key	NO. 1	74C7532

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

No test required.

54. RECOMMENDATION

None.

55. EXAMINATION OF PROOF COPY

Not required.

Submitted, 3/3/77

Robert R. Wagner
Robert R. Wagner
Chief, Photo Party 66

Review Report
TP-00460
October 1977

61. General

The map manuscript for Coastal Zone Map TP-00460 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:

Content Keys, Florida, 1972
Horseshoe Keys, Florida, 1972

No significant differences were found.

Comparison was made with chart 11448 (formerly C&GS 859), 1:40,000 scale, 7th edition dated November 25, 1974

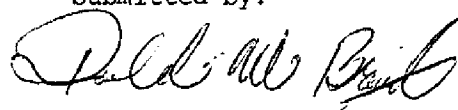
Chart 11448 shows obstructions (west of Big Spanish Key) and an area of MLW (Lat. 24°47.8 and Long. 81°23') that are not shown on map TP-00460. They are not visible on the photography and were reported "not found" by field edit. A copy of the field editor's notes is attached to the chart Maintenance Print.

63. thru 65. Inapplicable

66. Adequacy of Results and Future Surveys

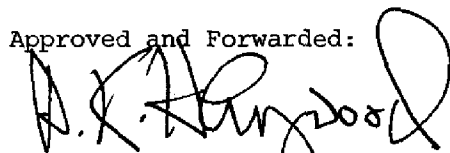
Coastal Zone Map TP-00460 complies with the Instructions for NOS Cooperative Boundary Mapping, Job PH-7000 and the National Standards of Map Accuracy.

Submitted by:

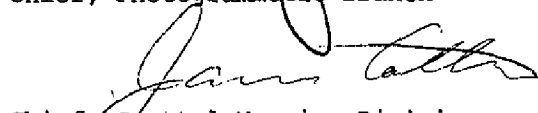


Donald M. Brant

Approved and Forwarded:



Chief, Photogrammetric Branch



Chief, Coastal Mapping Division

18 October 1977

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7120 (Florida Keys)

TP-460

Annette Key

Big Spanish Channel

Big Spanish Key

Crawl Key

Cutoe Key

Great White Heron National Wildlife Refuge

Gulf of Mexico

Howe Key

Little Pine Key Mangroves

Little Spanish Key

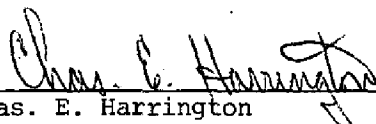
Little Spanish Key Mangrove

National Key Deer Refuge

Rocky Channel

Spanish Banks

Approved


Chas. E. Harrington
Staff Geographer - C51x2

76-10

77F818

PHOTOGRAMMETRIC BRANCH

COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY

DEPARTMENT OF COMMERCE USA

NOAA

VERSION

SVY

TP-00460

* NONFLOATING AIDS FOR CHARTS

* RPT UNIT

CMD, ROCKVILLE, MD

* PAGE

1 OF 2

JOB

PH-7120

* TO BE CHARTED

* LOCALITY

FLORIDA

* DATE

04/07/77

PRJ

833205

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

* DESCRIPTION

CMD * METHOD AND DATE

DTM

NA 1927

* RECORD REASON FOR DELETION

* LATITUDE

DM

* ALTEK * OF LOCATION

* CHARTS

* PUT TRIANGULATION NAMES IN ()

* LONGITUDE

OP

* DGTZO * OFFICE

* FIELD

* AFFECTED

NAME	DESCRIPTION	RECORD REASON FOR DELETION	LATITUDE	DM	OP	ALTEK	OF LOCATION	CHARTS
DYBN	BIG SPANISH CHANNEL		24 45 21.67	666.7			F-P-3-8	11442
30			81 22 22.62	635.6			02/25/77	11448
DYBN	DITTO		24 46 25.76	792.6			F-P-3-8	
32			81 23 52.58	1477.1			02/25/77	DITTO
DYBN	DITTO		24 40 53.87	1657.5			F-P-3-8	
33			81 24 37.91	1065.0			02/25/77	DITTO
DYBN	DITTO		24 47 04.94	152.0			F-P-3-8	
34			81 24 47.46	1333.2			02/25/77	DITTO
DYBN	DITTO		24 47 09.45	290.8			F-P-3-8	
36			81 24 49.76	1397.8			02/25/77	DITTO
DYBN	DITTO		24 47 19.55	601.5			F-P-3-8	
39			81 24 54.74	1537.6			02/25/77	DITTO
DYBN	DITTO		24 47 29.36	963.3			F-P-3-8	
38			81 24 58.68	1648.3			02/25/77	DITTO

26

26

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 BETHEA

JAMES H. TAYLOR

FIELD REPRESENTATIVE

OFFICE COMPILER

DIGITIZER

DATA PROCESSOR

DATA TAB
VERSION
770818

NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISION

LISTING 649

* SVY	TP-00460	*	NONFLOATING AIDS FOR CHARTS	* RPT UNII	CMD, ROCKVILLE, MD.	*	PAGE	2 OF 2	*
* JOB	PH-7120	*		* STATE	FLORIDA	*			*
* PRJ	833205	*	TO BE CHARTED	* LOCALITY	RKY CHNL	*	TO HOWE KEY*	ORIGINATING	ACTIVITY*
* DTM	NA 1927	*		* DATE	04/07/77	*	* COMPILATION		*

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

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

[illegible]

* * *	OYBN	*	HOWE KEY
* * *	24	45	10,44
* * *	321.2		
* * *	F-P-3-8	*	11442 *
* * *	02/26/77	*	14448 *

* * *	DITTO	*
0Y8N		*
24 45 24.99		*
642.7		*
F-P-3-3		*

[illegible]

* *	DYBN *	24	45	19.73	607.1	*	F-P-3-8	* *
	DITTO	*	*	*	*	*		

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[illegible]

2 *

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

✱ ✱

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✱ ✱

✱ ✱

PC	POSITIONS DETERMINED	ROBERT R. WAGNER	FIELD REPRESENTATIVE
AND/OR	VERIFIED BY	PATRICK J. DEMPSEY	OFFICE COMPILER

* * ACTIVITIES	* * JAMES H. TAYLOR	* * DATA PROCESSOR

National Archives Data

TP-00460

1 Discrepancy print (paper copy)

1 Field edit sheet (stable base copy)

2 NOAA Forms 76-40 (Nonfloating Aids or Landmarks for Charts)

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

Photographs:

74-C-7532, 8253