

Original

TP-00457

TP-00457

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-00457
Classification No. Final	Edition No. ... 1
Field Edited Map	
LOCALITY	
State Florida	
General Locality Monroe County	
Locality Craig Key to Long Key	
.....	
1972 TO 1976	
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 <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Rockville, Maryland OFFICER-IN-CHARGE Commander James Collins		SURVEY TP. <u>00457</u> MAP EDITION NO. <u>d</u> MAP CLASS <u>Final</u> JOB PH. <u>7120</u> 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__	
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: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify)	
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" 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 <u>Florida</u> ZONE <u>East</u> STATE _____ 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		V. McNeel Inapplicable	11/74
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Cal Comp 748 CHECKED BY		J. Taylor Inapplicable	5/75
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: CONTOURS BY SCALE: CHECKED BY		Inapplicable Inapplicable Inapplicable	Inapplicable Inapplicable Inapplicable
4. MANUSCRIPT DELINEATION PLANIMETRY BY METHOD: Graphic CHECKED BY SCALE: HYDRO SUPPORT DATA BY CHECKED BY		J. McClure J. Battley, Jr. Inapplicable Inapplicable	1/76 2/2/76 Inapplicable Inapplicable
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		J. Battley, D. Brant	2/76
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		J. McClure J. Battley, Jr.	3/76 4/76
7. COMPILATION SECTION REVIEW BY		C. Lewis	6/76
8. FINAL REVIEW BY		D. Brant	12/76
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		D. Brant	3/77
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		D. Brant	3/77
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		R. Cator	3/78

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

TP-00457

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 L 6" focal length		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR IR (P) PANCHROMATIC (I) INFRARED B&W	TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY			ZONE Eastern	<input type="checkbox"/> STANDARD
			MERIDIAN 60th	<input checked="" type="checkbox"/> DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
72L(C) 8440-8446R	8/12/72	841	1:20,000	The stage of tide is in-applicable for the color photography.
72L7938-7942R	7/28/72	1221	1:20,000	
72L8005-8007R	7/28/72	1333	1:20,000	Refer to 76-36B(1) for tide information
72L8048-8051R	7/28/72	1355	1:20,000	
72L8189-8192R	7/30/72	1328	1:15,000	
72L8229-8233R	8/8/72	1553	1:15,000	
72L8249-8244R	8/8/72	1608	1:20,000	
72L8343-8349R	8/11/72	1518	1:20,000	
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.

Teh map was field edited in February 1976.

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
No contemporary survey	TP-00458	No contemporary survey	TP-00464

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 - 00457

LOCATION AND PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE	MEAN RANGE
ATLANTIC OCEAN			
72L7938-7942R	Duck Key	-0.01 MHW	1.35'
72L8189-8192R	Lower Matecumbe Key, Hawk Channel	-0.03 MHW	1.93'
72L8229-8233R	Lower Matecumbe Key, Hawk Channel	+0.09 MLW	1.93'
72L8240-8244R	Duck Key	-0.08 MLW	1.93'
FLORIDA BAY			
72L8005 - 8007 R	Lower Matecumbe Key, Fla. Bay	-0.18 MHW	0.78'
72L8048 - 8051R	Grassy Key, N. Side	-0.01 MHW	0.89'
72L8343 - 8349R	Lower Matecumbe Key, Fla. Bay	+0.03 MLW	0.78'

REMARKS:

HISTORY OF FIELD OPERATIONS TP-00457

I. ☒ FIELD INSPECTION OPERATION *Aug. 1973 ☒ FIELD EDIT OPERATION Feb. 1976

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.R. Wagner	
2. HORIZONTAL CONTROL	R.R. Wagner	2/76
RECOVERED BY	Inapplicable	
ESTABLISHED BY	Inapplicable	
PRE-MARKED OR IDENTIFIED BY	R.R. Wagner	2/76
3. VERTICAL CONTROL	Inapplicable	
RECOVERED BY	R.R. Wagner	2/76
ESTABLISHED BY	Inapplicable	
XXXXXXXXXX IDENTIFIED BY	R.R. Wagner	2/76
4. LANDMARKS AND AIDS TO NAVIGATION	None	
RECOVERED (Triangulation Stations) BY	R.R. Wagner	2/76
LOCATED (Field Methods) BY	R.R. Wagner	2/76
IDENTIFIED BY	R.R. Wagner	2/76
5. GEOGRAPHIC NAMES INVESTIGATION	R.R. Wagner	2/76
TYPE OF INVESTIGATION		
<input type="checkbox"/> COMPLETE		
<input checked="" type="checkbox"/> SPECIFIC NAMES ONLY BY		
<input type="checkbox"/> NO INVESTIGATION		
6. PHOTO INSPECTION	R.R. Wagner	2/76
CLARIFICATION OF DETAILS BY	Inapplicable	
7. BOUNDARIES AND LIMITS		
SURVEYED OR IDENTIFIED BY		

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
	Refer to field report	72L8441R	M 69 RESET
		72L8442R	C 278
		72L8443R	E 278
		72L8445R	G 278, F 278

3. PHOTO NUMBERS (Clarification of details)

72L8441R thru 8443R, 8445R, 72L8242R, 8345R

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

All landmarks and nonfloating aids were located or verified 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

None

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

Sixtant cuts for aids.

* - The field report for this map is 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-00457

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
No copies of this map were furnished to the Marine Chart Division prior to final review.				
<i>Class III Map</i>	<i>6/11/76</i>	<i>Special request from Requirements Branch</i>		

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
		<i>5/25/76</i>	<i>Three(3) digitized Forms 76-40 were submitted as final report.</i>

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: *5/25/76*3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

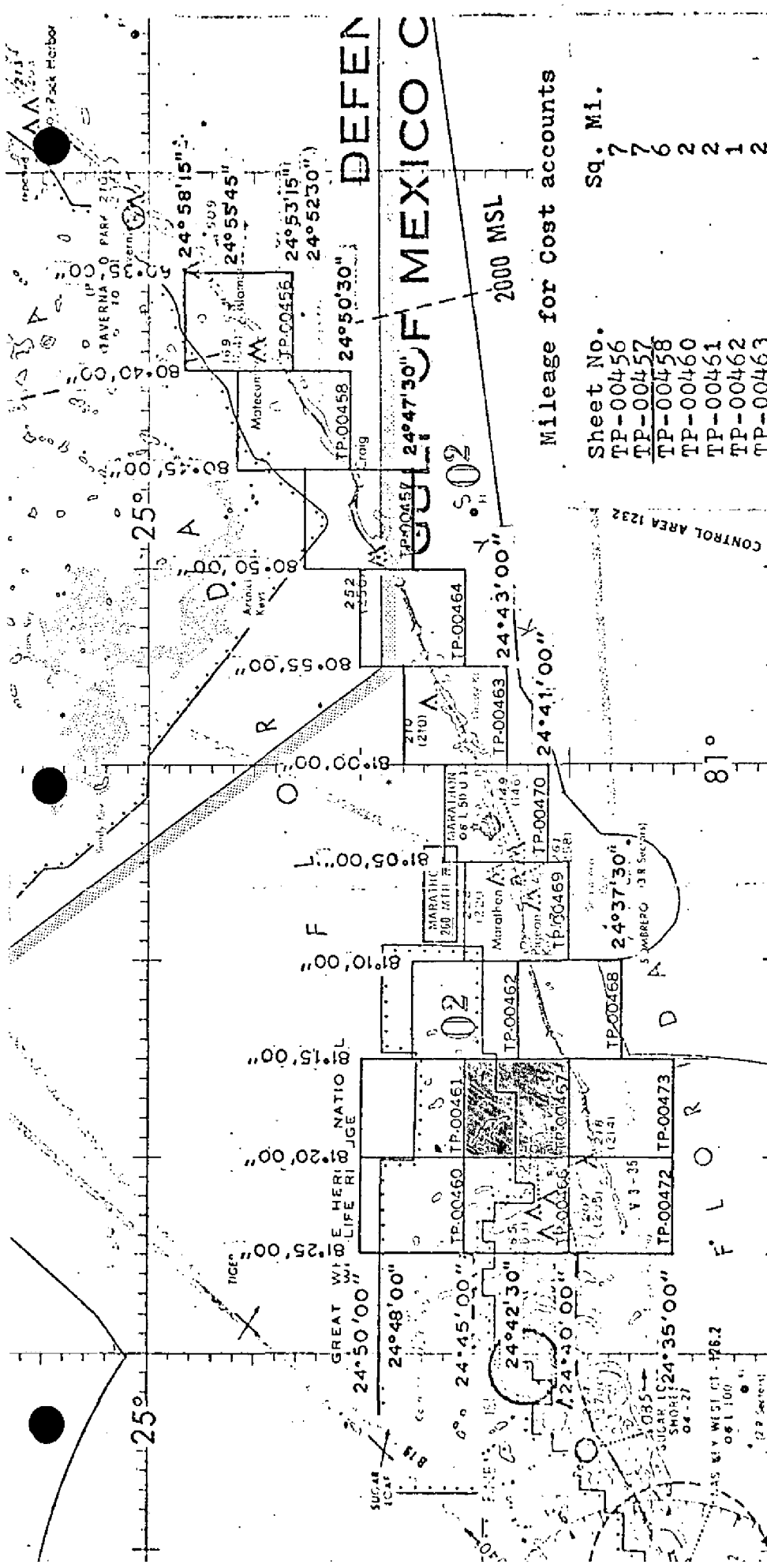
III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS. *76-40* 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

SHORELINE MAPPING

SCALE 1:10000

REVISED 10/2/74
2/24/76

T R A

Mileage for Cost accounts

Sq. Mi.

Sheet No.	Sq. Mi.
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
TP-00467	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-00457 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 ~~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
Plantation Key to Big Pine Key, Florida
(Eastern two-thirds)

Job PH-7120
November 1974

21. AREA COVERED

This report covers an area in the Florida Keys southwest from Plantation Key to Vaca Key. The area encompasses approximately the eastern two-thirds of the area originally included in Job PH-7120: Plantation Key to Big Pine Key, Florida. The remaining portion of PH-7120, as of this date, is expected to be included in Project CM-7201.

The Job consists of six (6) 1:10,000-scale sheets: TP-00456, TP-00458, TP-00457, TP-00464, TP-00463, and TP-00470.

22. METHOD

Six (6) strips of photography were bridged using aerotriangulation methods. Attached is a sketch showing the location of the strips. Tie points were made between strip No. 1 of PH-7120 and Strip No. 11 of PH-7119. As well, points were selected which can be used as tie points between strip No. 6 of PH-7120 and the adjacent strip of Project CM-7201.

Image points were located to rectify photographs for orthophoto, nautical, and small craft charts. All points were drilled by the PUG method. A sketch is attached which shows the control used in the strip adjustments and closure to control has been noted. All points will be plotted on the Florida East Zone Plane Coordinate System, using the Coradomat Plotter or the Calcomp Plotter. Ratio points were located on 19 strips of infrared contact prints so that they can be individually enlarged to scale. Sketches showing the location of ocean side and bay side mean high water and mean low water infrared black and white photography are attached.

The positions of all landmarks and aids to navigation which were visible on the photography were established.

23. ADEQUACY OF CONTROL

The control was adequate. Horizontal control was pre-marked. Due to placement of flight lines in relation to the control,

it was necessary in several instances to use tie points as control; tie points from Strip No. 1 were used as control on one end of Strip No. 2, tie points from Strip No. 2 were used to control one end of Strip No. 3, and tie points from Strip No. 4 were used as control for one end of Strip No. 5. These tie points are shown on the attached sketch of strips and control stations.

The strips are adjusted to new preliminary control positions which were furnished by Geodesy Division on May 29, 1974. Geodesy Division stated that this preliminary control will be within one (1) foot of the final adjustment. They also said to base non-main scheme stations on the nearest main scheme stations. This was approved by the Coastal Mapping Division.

Since stations established in 1971 and later have positions which were determined by a different adjustment than stations which were established before 1971, it was necessary that the corrections for non-main scheme stations of 1971 and later be based on the new preliminary control of the nearest main scheme station of 1971 and later. In like manner, pre-1971 non-main scheme stations are based on the amount of change of the nearest pre-1971 main scheme station.

A listing of closures to control is included on an attached sheet of control stations. The station with the largest residual was Snake, 1934, sub point, with +3.024 feet in X and -1.570 feet in Y when it was used to control strip No. 2.

The positions of photo point A(446410) and photo point B(442410) established in the bridging of Strip No. 6 are only very rough approximations, and should be used with caution. These points did not show up well at all on the photography.

24. SUPPLEMENTAL DATA

USGS Topographic Quadrangles and NOS Nautical Charts were used to obtain vertical control for bridging.

25. PHOTOGRAPHY

The following RC-8 color photography was used for bridging.

1:15,000 scale

Strip No. 4, August 12 72L8583R - 8594R

1:20,000 scale

Strip No. 6, August 12 72L8440R-8465R.

1:30,000 scale

Strip No. 1, 13 Aug. 72L 8695R-8698R
Strip No. 2, 13 Aug. 72L 8704R-8707R
Strip No. 3, 12 Aug. 72L 8425R-8431R
Strin No. 5, 12 Aug. 72L 8415R-8418R

The quality and definition of the photography was adequate.

Respectfully submitted,

Victor E. McNeel
Victor McNeel

Approved and forwarded:

John D. Perrow, Jr.
John D. Perrow, Jr.
Chief, Aerotriangulation
Section

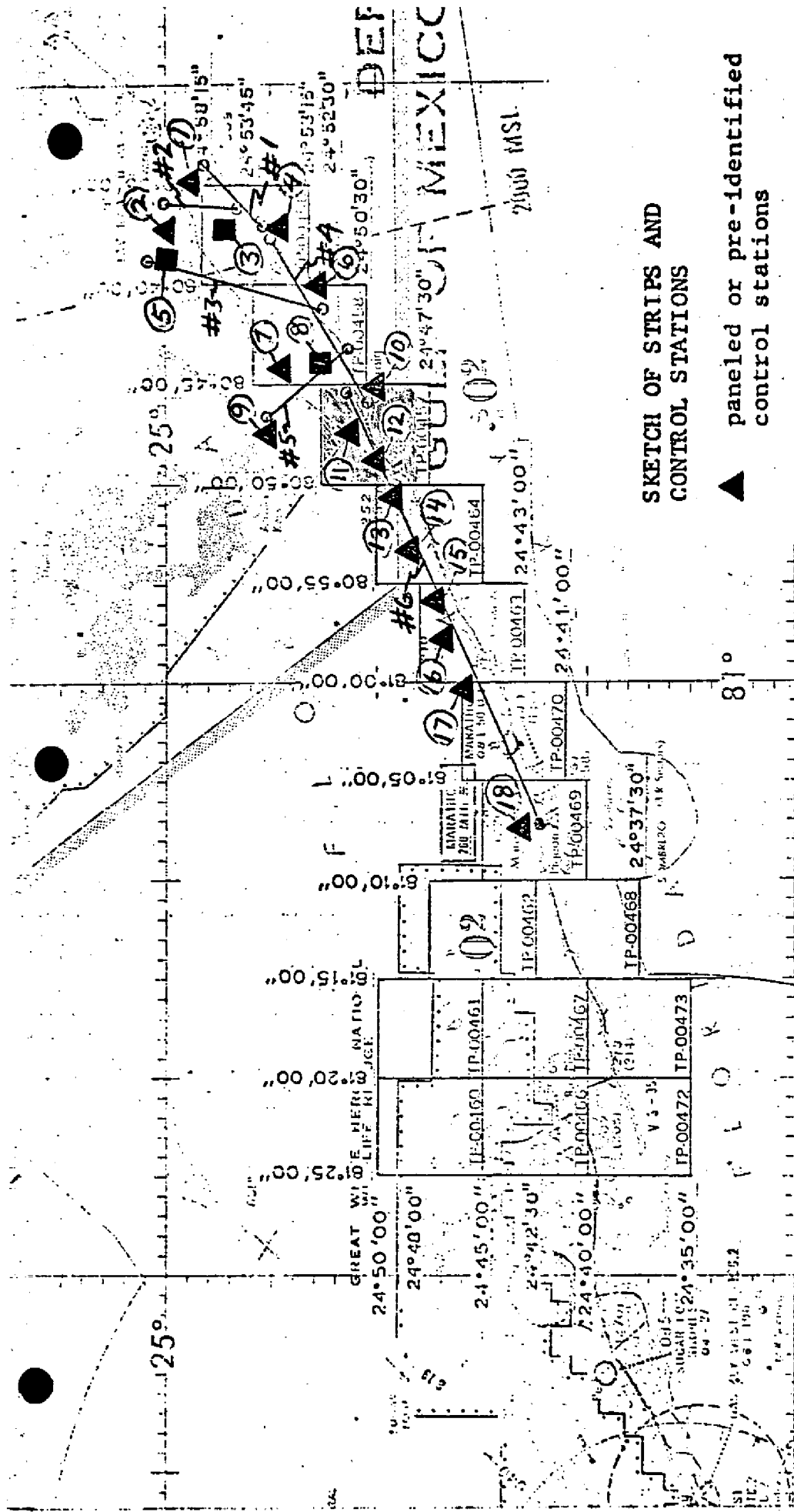
<u>CONTROL STATIONS</u>	<u>RESIDUALS</u>	
	<u>X</u>	<u>Y</u>
1. (695101) SNAKE, 1934, Sub Point	+3.024	-1.570
2. (707101) EAST, 1859, RM1	0.000	0.000
3. (697801) TIE POINT	0.000	0.000
4. (698101) NAIL ND NM SUB. PT. A	-0.246	+0.994
5. (698102) NAIL ND NM SUB. PT. B	+1.226	-1.084
6. (707802) TIE POINT	0.000	0.000
7. (425100) INDIAN KEY 2, 1934	-0.209	+0.088
8. (417101) BOWLEGS, 1934, Sub Point	+0.232	+0.097
9. (586802) TIE POINT	0.000	0.000
10. (418100) BUCHANAN, 1856	0.000	0.000
11. (440100) PARK, 1972	+0.235	-0.482
12. (443101) WATER, 1972, S.S.	-2.645	+2.829
13. (445100) JAWBONE, 1934	-1.162	+2.120
14. (446101) RESORT, 1972, S.S.	+0.369	-1.222
15. (449101) DICK, 1972, S.S.	-0.573	+0.489
16. (452100) GRASSY KEY, 1857	+2.561	-0.514
17. (454100) KEY 1935	+1.445	-0.055
18. (457101) BAMBOO, RM2	-1.118	-0.131
19. (464101) KNIGHT 2, 1936, S.S.	+0.071	+0.112

BAY SIDE BLACK AND WHITE
INFRARED RATIO PRINTS

1. 72L 8522R - 8524R MLW
2. 72L 8670R - 8673R MHW
3. 72L 8148R - 8154R MHW
4. 72L 8005R - 8006R MHW
5. 72L 8330R - 8338R MLW
6. 72L 8365R - 8367R MLW
7. 72L 8343R - 8354R MLW
8. 72L 8037R - 8051R MHW
9. 72L 8092R - 8098R MLW
10. 72L 7961R - 7970R MHW
11. 72L 8078R - 8085R MLW

OCEAN SIDE BLACK AND WHITE
INFRARED RATIO PRINTS

1. 72L 8491R - 8496R MHW
2. 72L 8206R - 8211R MLW
3. 72L 8183R - 8189R MHW
4. 72L 8223R - 8231R MLW
5. 72L 7930R - 7942R MHW
6. 72L 8241R - 8264R MLW
7. 72L 7945R - 7949R MHW
8. 72L 7917R - 7926R MHW



SKETCH OF STRIPS AND
CONTROL STATIONS

- ▲ paneled or pre-identified control stations
- tie points used as control

JOB FH-7120

PLANTATION KEY TO BIG PINE KEY

FLORIDA

SHORELINE MAPPING

REVISED 10/3/74

SCALE 1:10000

BAY SIDE
BLACK & WHITE INFRARED
RATIO PRINTS

JOB PH-7120

PLANTATION KEY TO BIG PINE KEY

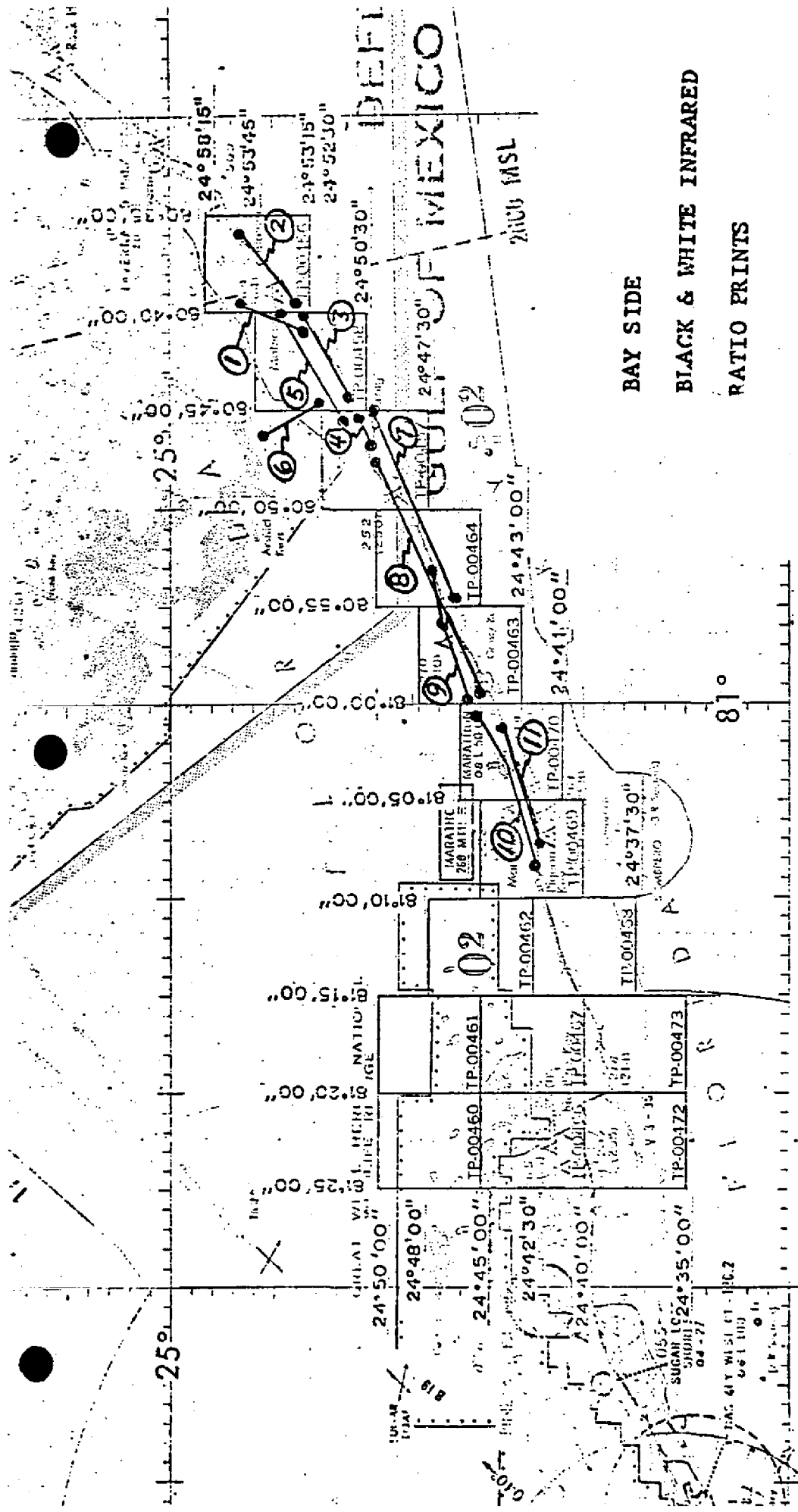
FLORIDA

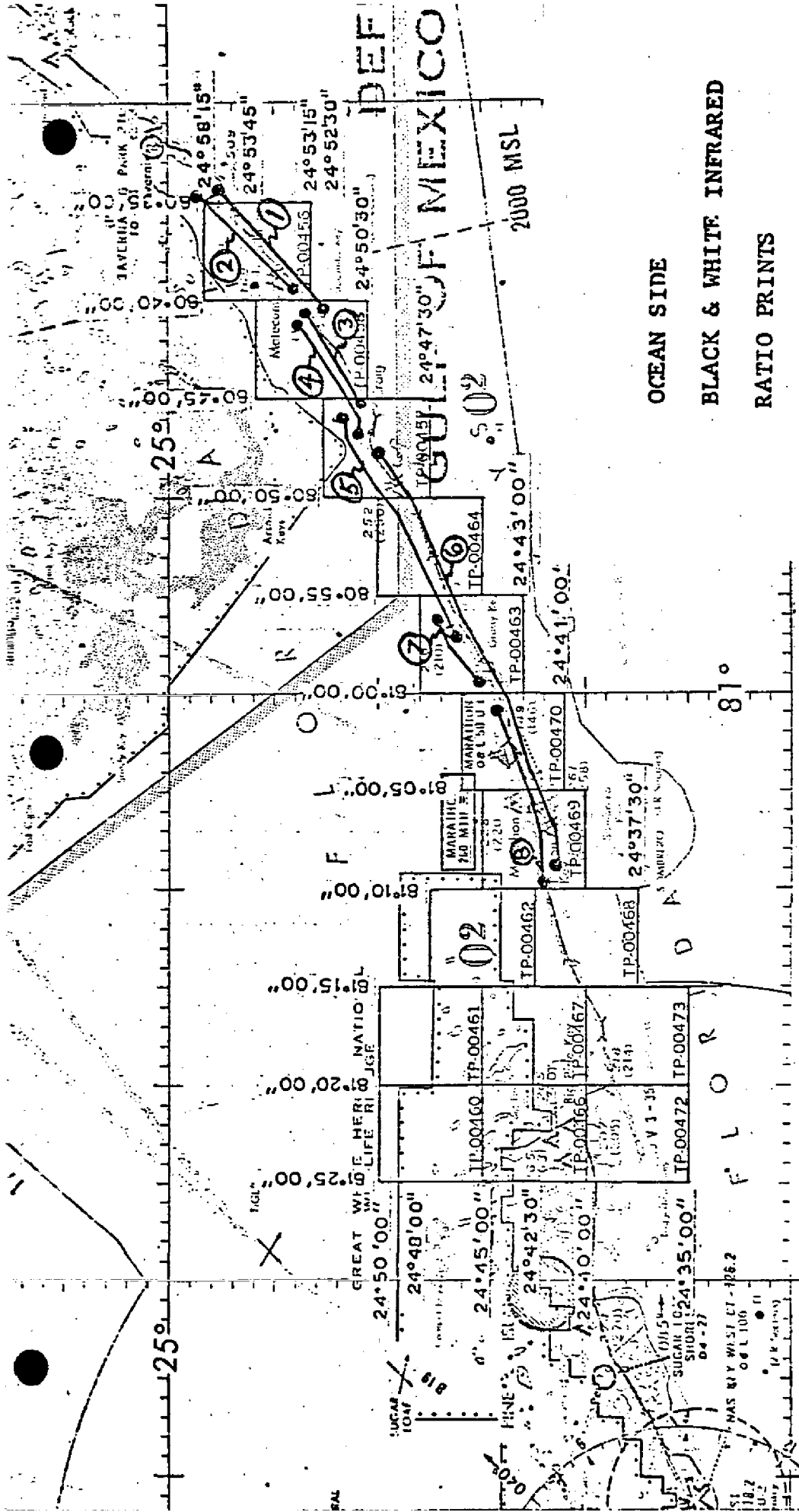
SHORELINE MAPPING

SCALE 1:10000

REVISED 10/2/74

T R A





OCEAN SIDE
BLACK & WHITE INFRARED
RATIO PRINTS

JOB PH-7120

PLANTATION KEY TO BIG PINE KEY

FLORIDA

SHORELINE MAPPING

SCALE 1:10000

REVISED 10/2/74

FLORIDA

SHORELINE MAPPING

SCALE 1:10000

FLORIDA-NOAA Coastal Boundary Mapping Program

HORIZONTAL CONTROL TP-00457

Station	NOS Geodetic Data Reference for Descriptions, Positions, Coordinates and Azimuths
PARK 1972	*
WATER 1972	*
JERRY 1972	*
JAWBONE 1934	Book 425 P.13,29,33,38; GP Fla. Vol. 20 P.325; PC Fla. E. Zone P. 80
	* Not published

Compilation Report
TP-00457
January 1976

31. Delineation

All features were delineated by graphic compilation.

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

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 and common pass points from the rectified prints of the color infrared photography.

Photography was not adequate for compiling Old Dan Bank or for inspecting the northern and southern limits of the manuscript.

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

Names and general locations of landmarks and aids to navigation were taken from "Nautical Chart 11449" and the "Coast Guard Light List, Vol. II, 1975".

Geographic names were taken from USGS 7 1/2 minute topographic quadrangle "Long Key 1971", as verified by the geographic names section.

34. Contours and Drainage

Contours are not applicable. Drainage was compiled from the rectified prints of the color infrared photography.

35. Shoreline and Alongshore Detail

Office interpretation of the 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. Landmarks and non-floating aids will be verified or located during field edit.

38. Control for Future Surveys - None39. Junctions - Refer to form 76-36B40. Horizontal Accuracy

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

41. thru 45. Inapplicable

46. Comparison with Existing Maps

Comparison was made with the following USGS 7 1/2 minute topographic quadrangle: "Long Key 1971." No significant differences were noted.

47. Comparison with Nautical Charts

Comparison was made with the following nautical charts:

11449 Side A 1:40,000 August 23, 1975
11451 Pages E,C 1:80,000 August 16, 1975
1250 1:80,000 Jan. 12, 1974

Items to be Applied to Nautical Charts Immediately: None

Items to be Carried Forward: None

Submitted by,

John McClure
John McClure

Approved and forwarded:

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

FIELD EDIT REPORT, MAP TP-00457, JOB. PH 7120

51. METHODS

The shoreline was inspected from a small boat while cruising just off shore. Notes regarding fast and apparent shoreline, piers and other along shore features will be found on the rectified photographs, and field edit sheet and discrepancy.

Four triangulation stations are recommended for this sheet. Three are plotted and JERRY 1972 should be added. JERRY 1972 is also a tidal bench mark.

Five vertical control stations were recovered and identified.

Three landmarks are recommended for charting and one for deletion.

All known aids were located or verified.

Six tidal bench marks were identified. The tide wells are not in place at this time.

Tide Station	Bench Mark	Photographs
Channel No 2, West	No 2 1975	72L8441R
Channel No 5, East	C 278 1966	72L8442R
Channel No 5, West	M 69 RESET 1936	72L8441R
Long Key, Florida Bay	E 278 1966	72L8443R
Long Key Bight	JERRY 1972	Plot
Long Key Lake	G 278 1966	72L8485R

CRAIG KEY is recommended for charting. The Florida Dept. of Transportation has signs at each end of the key reading Craig Key. The people in this area refer to the Key as Craig Key.

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

52. ADEQUACY OF COMPILATION

Adequate after application of field edit.

53. MAP ACCURACY - No test required.54. RECOMMENDATION - None55. EXAMINATION OF PROOF COPY - Not required.

Submitted By

Robert R. Wagner
Robert R. Wagner
Chief, Photo Party 66
2/28/76

30 Jan. 1976

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7120 (Florida Keys)

TP-457

Channel Five

Channel Two

✓ Craig *Key*

Everglades National Park

Fiesta Key

Florida Bay

Jewfish Bush Banks

Jewfish Hole

Layton

Long Key

Long Key Bight

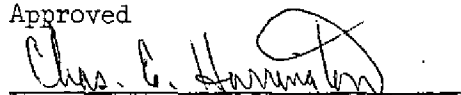
Long Key Point

Long Key State Park

Old Dan Bank

Straits of Florida

Approved

Chas. E. Harrington
Staff Geographer - C51x2

Review Report
TP-00457
March 1977

61. General

The map manuscript for Coastal Zone Map TP-00457 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 map, 1:24,000 scale:

Long Key, Florida 1971

No significant differences were found.

Comparison was made with chart 11449, 7th Edition, dated August 23, 1975.

The following obstructions are shown on chart 11449 in the vicinity of Long Key:

1. Platform (lat. 24°48.8', long. 80°49.3')
2. Pipe (lat. 24°48.8', long. 80°49.3')
3. Snag (lat. 24°48.8', long. 80°47.5')

These obstructions are not shown on Coastal Zone Map TP-00457. They are not visible on the photography and the field investigation showed no evidence that they exist. A copy of the field editors notes are attached to the Chart Maintenance Print.

63. thru 65. Inapplicable.

66. Adequacy of Results and Future Surveys

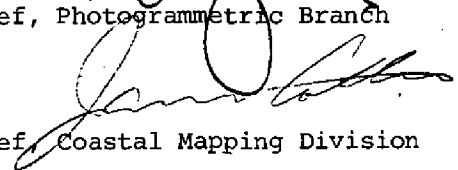
Coastal Zone Map TP-00457 complies with the Instructions for NOS Cooperative Boundary Mapping, Job PH-7000 and the National Standards of Map Accuracy.

Submitted by:


Donald M. Brant

Approved and Forwarded:


Chief, Photogrammetric Branch


Chief, Coastal Mapping Division

STPL
VERSION
99/18/75

DEPARTMENT OF COMMERCE USA

* SVY	TF-00457	*	NONFLOATING AIDS FOR CHARTS	* RPT UNIT	CMD ROCKVILLE, MD.	* PAGE 1 OF 3
* JOB	PH-7120	*	TO BE CHARTED	* STATE	FLORIDA	*
* PRJ	R	*		* LOCALITY	CRAIG TO LONG KEY	* ORIGINATING ACTIVITY
* DTM	NA-1927	*		* DATE	05/03/76	* COMPILATION

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

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

* * * * *

* LONG KEY - MOSER CHANNEL * * *

* * * * *

**	DYBN *		* 24	51	1.52	46.8	219	*	P-L-3-8	*	11449
**	1X *		* 80	47	45.91	1289.0	1	*	* 02/19/76	*	11451
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----- 1250 -----											

	DATE	AMOUNT	CHECK NO.	BANK	ACCOUNT	MEMO
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**	DYBN *	* 24 49 53.88	1657.8	219 *72LC844R *	P-L-3-8 *	
LONG KEY BANK						

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	* 24	* 47	* 46.50	* 1430.7	* 219 *	* P-L-3-8 *	* DITTO *
DYBN * HAWK CHANNEL 44 * LONG KEY	* 80	* 47	* 1.44	* 40.4	* 4 *	* 02/19/76 *	

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* * * POSITIONS DETERMINED *
* AND/OR VERIFIED BY *
* FIELD AND OFFICE *
* * *
* * * ROBERT R. WAGNER *
* * * JOHN MCCLURE AND CHECKED BY JET BATTLE *
* * * SKID STEER *
* * * FIELD REPRESENTATIVE *
* * * OFFICE COMPILER *
* * * DIGITIZED *
* * *

* ACTIVITIES	*	JAMES H. TAYLOR	* DATA PROCESSER
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STPL
VERSION
09/18/75

STPL
VERSION
09/18/75

SVY	TP-00457	*	LANDMARKS FOR CHARTS	* RPT UNIT	CMD ROCKVILLE, MD.	* PAGE 2 OF 3
JOB	PH-7120	*		* STATE	FLORIDA	
PRJ	R	*	TO BE CHARTED	* LOCALITY	CRAIG TO LONG KEY	* ORIGINATING ACTIVITY
DTM	NA-1927	*		* DATE	05/03/76	* COMPILATION

THE FOLLOWING OBJECTS HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

* CHARTING*	* RECORD REASON FOR DELETION	* DESCRIPTION	* LATITUDE	* LONGITUDE	* POSITION	* C-C	* SEQ	* OFFICE	* FIELD	* METHOD AND DATE	* OF LOCATION	* CHARTS
NAME *	PUT TRIANGULATION NAMES IN () *				DM DP							AFFECTED
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RADOME *	*	24	49	16.59	513.5	86	*72LC8445R *	P-V-8	*	11449
	*	80	45	12.09	339.5	7	* 08/12/72 *	02/19/76	*	11451
	*	HT=96(101)								

MICRO *	* 24	48	45.71	1406.4	86	* 72LC8445R *	P-V-8 *
TOWER *	* 80	49	34.41	966.4	8	* 08/12/72 *	02/19/76 *
HT=175(180)							

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TYPE OF ACTION	* N A M E S O F R E S P O N S I B L E P E R S O N N E L	* O R I G I N A T O R
1. RESEARCH AND DEVELOPMENT		
2. PRODUCTION		
3. DISTRIBUTION		
4. MAINTENANCE		
5. REPAIR		
6. MODIFICATION		
7. DISPOSAL		
8. OTHER		

OBJECTS INSPECTED FROM SEAWARD * * * * *
ROBERT R. WAGNER * * * * *
PHOTO FIELD PARTY * * * * *

POSITIONS DETERMINED	+	+	+	+
ROBERT R. WAGNER	+	+	+	+
FIELD REPRESENTATIVE	+	+	+	+

FIELD AND OFFICE
ACTIVITIES
SKIP STEMBLE
JAMES TAYLOR
DIGITIZER
DATA PROCESSOR

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	52
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SVY

TP-00457

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RPT UNIT

CMO ROCKVILLE, MD.

*

PAGE

3

OF

3

JOB

PH-7120

*

STATE

FLORIDA

*

ORIGINATING

ACTIVITY

PRJ

R

*

LOCALITY

CRAIG TO LONG KEY

*

COMPILATION

DIM

NA-1927

*

DATE

05/03/76

THE FOLLOWING OBJECTS

HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

CHARTING*

RECORD REASON FOR DELETION

DESCRIPTION

POSITION

CODES*

METHOD AND DATE

CHARTS

NAME*

PUT TRIANGULATION NAMES IN ()

LATITUDE

DM

C-C*

OF LOCATION

* CHARTS

LONGITUDE

DP

SEQ*

OFFICE

* FIELD

* AFFECTED*

PALM*

LOST ITS VALUE AS A LANDMARK

*

24 30 12.00

369.2

NOT*

*

11449

TREE*

*

80 45 48.00

1347.8

OGTZO*

*

11451

*

*

1250

29

TYPE OF ACTION

*

NAMES OF RESPONSIBLE PERSONNEL

*

ORIGINATOR

OBJECTS INSPECTED FROM SEAWARD

*

ROBERT R. WAGNER

*

PHOTO FIELD PARTY

POSITIONS DETERMINED

*

ROBERT R. WAGNER

*

FIELD REPRESENTATIVE

AND/OR VERIFIED BY

*

JOHN MCCLURE AND CHECKED BY JET BATTLE

*

OFFICE COMPILER

FIELD AND OFFICE

*

N/A

*

DIGITIZER

ACTIVITIES

*

JAMES H. TAYLOR

*

DATA PROCESSER

National Archives Data
TP-00457

- 1 Discrepancy Print (paper copy)
- 1 Field edit sheet (stable base copy)
- 1 NOAA Form 76-36C (History of Field Operations)
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