

TP-00464

Original

TP-00464

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-00464.....  
Classification No. Final Edition No. .... 1.....

### LOCALITY

State .... Florida .....  
General Locality ... Monroe County .....  
Locality .... Long Key to Duck Key .....  
.....

19 72 TO 19 76

### REGISTRY IN ARCHIVES

DATE .....

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
<b>DESCRIPTIVE REPORT - DATA RECORD</b>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE  Rockville, Md.		SURVEY TP. <u>00464</u>  MAP EDITION NO. <u>(1)</u>  MAP CLASS <u>Final</u>  JOB PH. <u>7120</u>	
OFFICER-IN-CHARGE  Cdr. James Collins		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__			
<b>I. INSTRUCTIONS DATED</b>			
<b>1. OFFICE</b>  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		<b>2. FIELD</b>  Instructions-FIELD-July 6, 1972  Field Edit (PH-7000 General Instructions for Florida Coastal Zone Mapping) 1973	
<b>II. DATUMS</b>			
<b>1. HORIZONTAL:</b> <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify)	
<b>2. VERTICAL:</b> <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)	
<b>3. MAP PROJECTION</b>  Transverse Mercator		<b>4. GRID(S)</b> STATE <u>Florida</u> ZONE <u>EAST</u>	
<b>5. SCALE</b>  1:10,000		STATE _____ ZONE _____	
<b>III. HISTORY OF OFFICE OPERATIONS</b>			
OPERATIONS		NAME	DATE
<b>1. AEROTRIANGULATION</b> METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY _____		<u>V. McNeel</u>	<u>Nov 1974</u>
<b>2. CONTROL AND BRIDGE POINTS</b> METHOD: <u>Corida</u> PLOTTED BY _____ CHECKED BY _____		<u>Inapplicable</u> <u>J. Taylor</u>	<u>May 1975</u>
<b>3. STEREOSCOPIC INSTRUMENT</b> COMPILATION PLANIMETRY BY _____ CHECKED BY _____ INSTRUMENT: _____ SCALE: _____		<u>Inapplicable</u> <u>Inapplicable</u>	
<b>4. MANUSCRIPT DELINEATION</b> METHOD: <u>Graphic - Rectified</u> <u>Photographs</u> PLANIMETRY BY _____ CHECKED BY _____ SCALE: <u>1:10,000</u> HYDRO SUPPORT DATA BY _____ CHECKED BY _____		<u>C. Lewis</u> <u>J. Battley</u> <u>Inapplicable</u> <u>Inapplicable</u>	<u>Feb 1976</u> <u>Feb 1976</u>
<b>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</b> BY _____		<u>J. Battley</u> <u>D. Brant</u>	<u>Feb 1976</u>
<b>6. APPLICATION OF FIELD EDIT DATA</b> BY _____ CHECKED BY _____		<u>J. McClure</u> <u>J. Battley</u>	<u>Apr 1976</u> <u>Apr 1976</u>
<b>7. COMPILATION SECTION REVIEW</b> BY _____		<u>J. Battley</u>	<u>Apr 1976</u>
<b>8. FINAL REVIEW</b> BY _____		<u>D. Brant</u>	<u>Jan 1977</u>
<b>9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH</b> BY _____			
<b>10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH</b> BY _____		<u>D. Brant</u>	<u>Nov. 1977</u>
<b>11. MAP REGISTERED - COASTAL SURVEY SECTION</b> BY _____		<u>R. Cator</u>	<u>Mar. 1978</u>

NOAA FORM 76-36B (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY			
TP-00464		<b>COMPILATION SOURCES</b>			
<b>1. COMPILATION PHOTOGRAPHY</b>					
CAMERA(S) Wild RC-8 "1" 6" focal length		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR R (P) PANCHROMATIC (I) INFRARED B&W		ZONE Eastern <input type="checkbox"/> STANDARD MERIDIAN 60th <input checked="" type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
72L(C)8447R-8451R	8/12/72	0943	1:20,000	The stage of tide is applicable for the color photography.  Refer to 76-36B(1) for tide information	
72L7932R-7938R	7/28/72	1320	1:20,000		
72L8042R-8048R	7/28/72	1354	1:20,000		
72L8244R-8249R	8/08/72	1710	1:20,000		
72L8349R-8354R	8/11/72	1720	1:20,000		
REMARKS					
<b>2. SOURCE OF MEAN HIGH-WATER LINE:</b>					
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, shoal, and shallow areas.					
Where the MHWL was obscured by vegetation, such as mangrove, the apparent shoreline was delineated.					
<b>3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:</b>					
The source of the MLW line is the tide-coordinated black-and-white infrared photography listed under Item 1.					
<b>4. CONTEMPORARY HYDROGRAPHIC SURVEYS</b> (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
N.A.					
<b>5. FINAL JUNCTIONS</b>					
NORTH	EAST	SOUTH	WEST		
No survey	TP-00457	No survey	TP-00463		
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 -00464

LOCATION AND PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE	MEAN RANGE
FLORIDA BAY			
72L8042R-8048R	Grassy Key, N. Side	HW -0.01	0.89'
72L8349R-8354R	Lower Matecumbe Key	LW +0.03	0.78'
ATLANTIC OCEAN			
72L7932R-7938R	Duck Key	HW -0.01	1.35'
72L8244R-8249R	Duck Key	LW -0.08	1.35'

REMARKS:

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

## HISTORY OF FIELD OPERATIONS TP-00464

I. ☒ FIELD INSPECTION OPERATION \*Aug. 1972 ☒ FIELD EDIT OPERATION March 1976

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. R. Wagner	
2. HORIZONTAL CONTROL	RECOVERED BY R. R. Wagner	3/76
	ESTABLISHED BY Inapplicable	
	PRE-MARKED OR IDENTIFIED BY Inapplicable	
3. VERTICAL CONTROL	RECOVERED BY R.R. Wagner	2/76
	ESTABLISHED BY Inapplicable	
	IDENTIFIED BY R. R. Wagner	3/76
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY Inapplicable	
	LOCATED (Field Methods) BY R. R. Wagner	3/76
	IDENTIFIED BY Inapplicable	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY R. R. Wagner	3/76
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	72L8447R	P 69 RESET
		72L8449R	Q 69 RESET
		72L8451R	Z 328, P 278
			J 278 (Field edit sheet)

3. PHOTO NUMBERS (Clarification of details)

72L8447R, 8449R, 8450R, 8451R

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

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

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

7 pages of cuts

\* 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 ADMINISTRATIONRECORD OF SURVEY USE TP-00467*i*

## I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Class III	4/29/76	Special request from Requirements Branch		
Class I	5/10/76	" "		

## II. LANDMARKS AND AIDS TO NAVIGATION

## 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
		5/25/76	Four (4) digitized Forms 76-40 submitted as final report

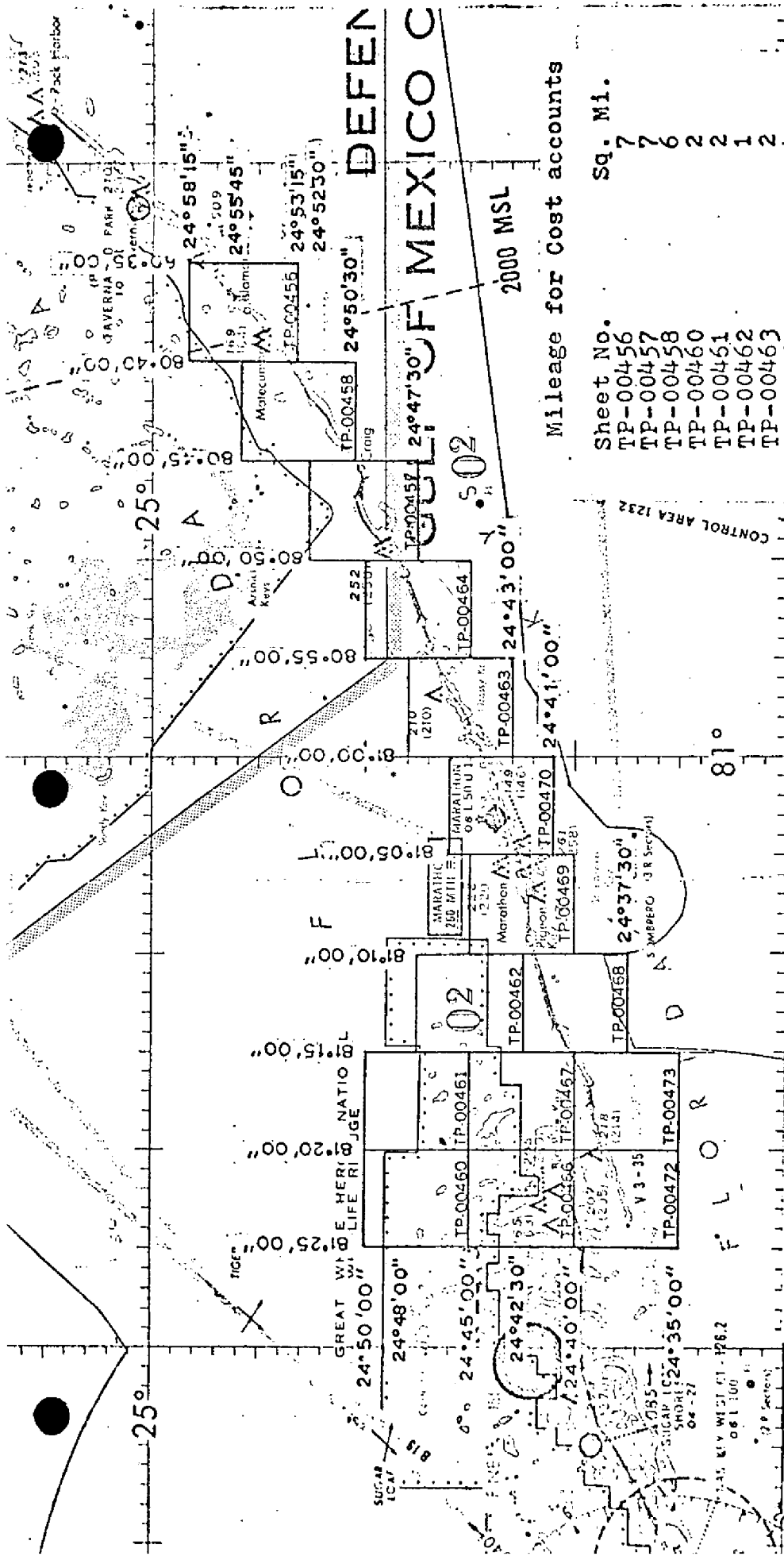
2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 5/25/76  
 3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

## III. FEDERAL RECORDS CENTER DATA

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

SHORELINE MAPPING

SCALE 1:10000

REVISED 10/3/74  
2/24/76

T R A

Mileage for Cost accounts

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
<b>Total</b>	<b>82</b>

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## SUMMARY

For

TP-00456 thru TP-00458

TP-00460 thru TP-00464

TP-00466 thru TP-00473

Coastal Zone Map TP-00464 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.

#### 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  $\pm 0.10$  foot for MHW and MLW and  $\pm 0.20$  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) BOWLECS, 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

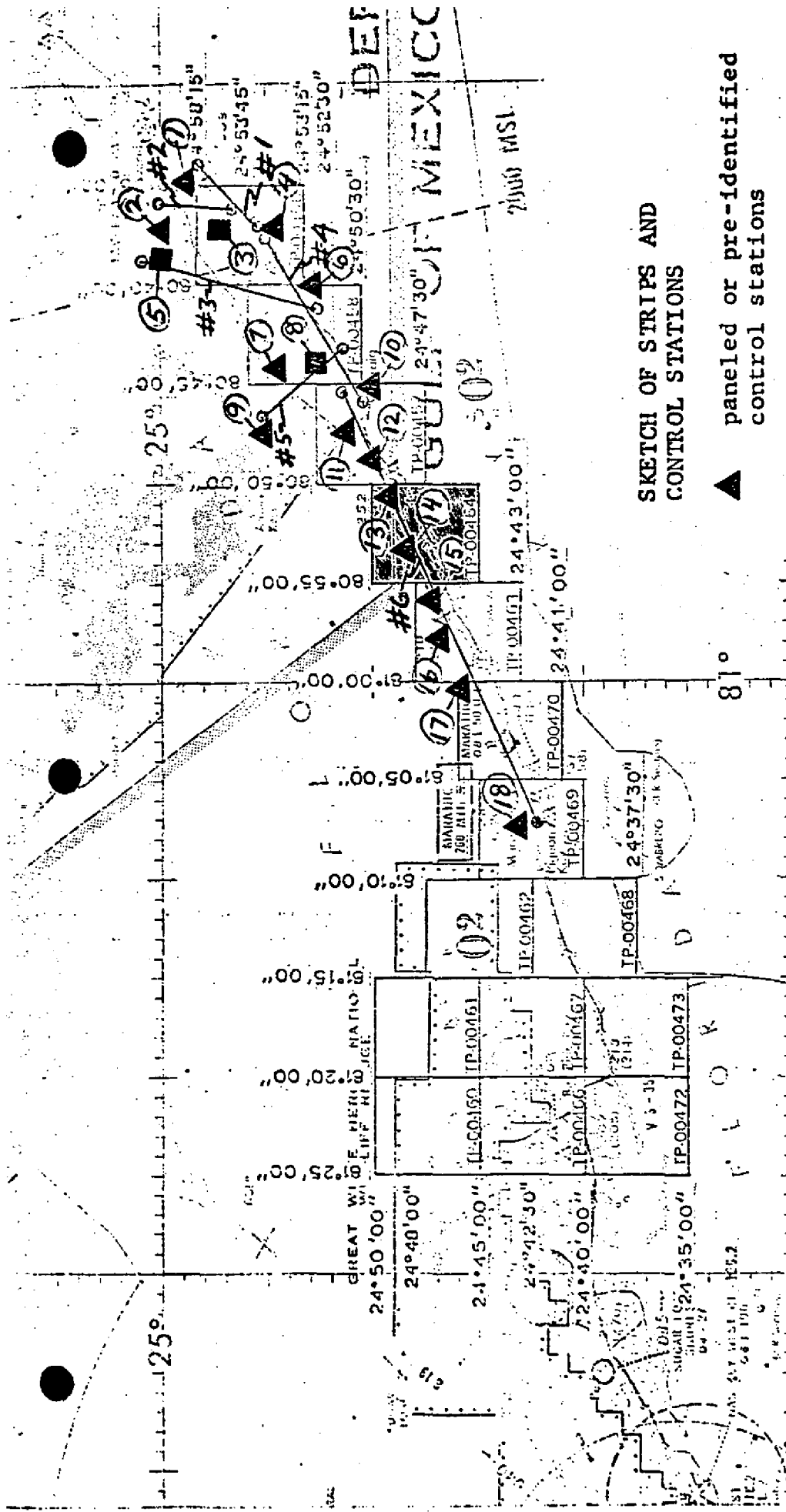


BAY SIDE BLACK AND WHITE  
INFRARED RATIO PRINTS

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



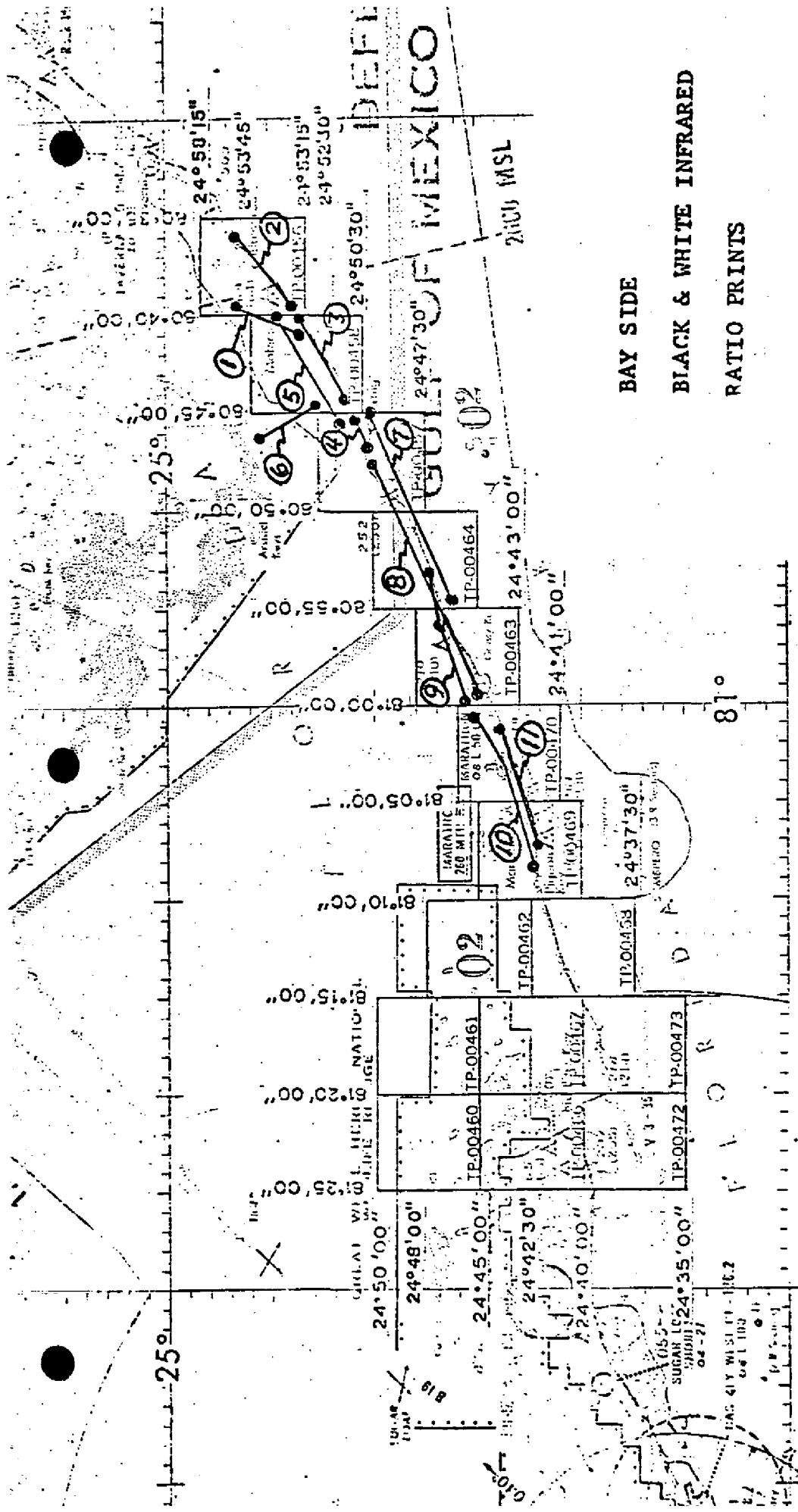
JOB PH-7120

# PLANTATION KEY TO BIG PINE KEY

FLORIDA

SHORELINE MAPPING

REVISED 10/2/74 SCALE 1:10000



BAY SIDE  
BLACK & WHITE INFRARED  
RATIO PRINTS

JOB PH-7120

PLANTATION KEY to BIG PINE KEY

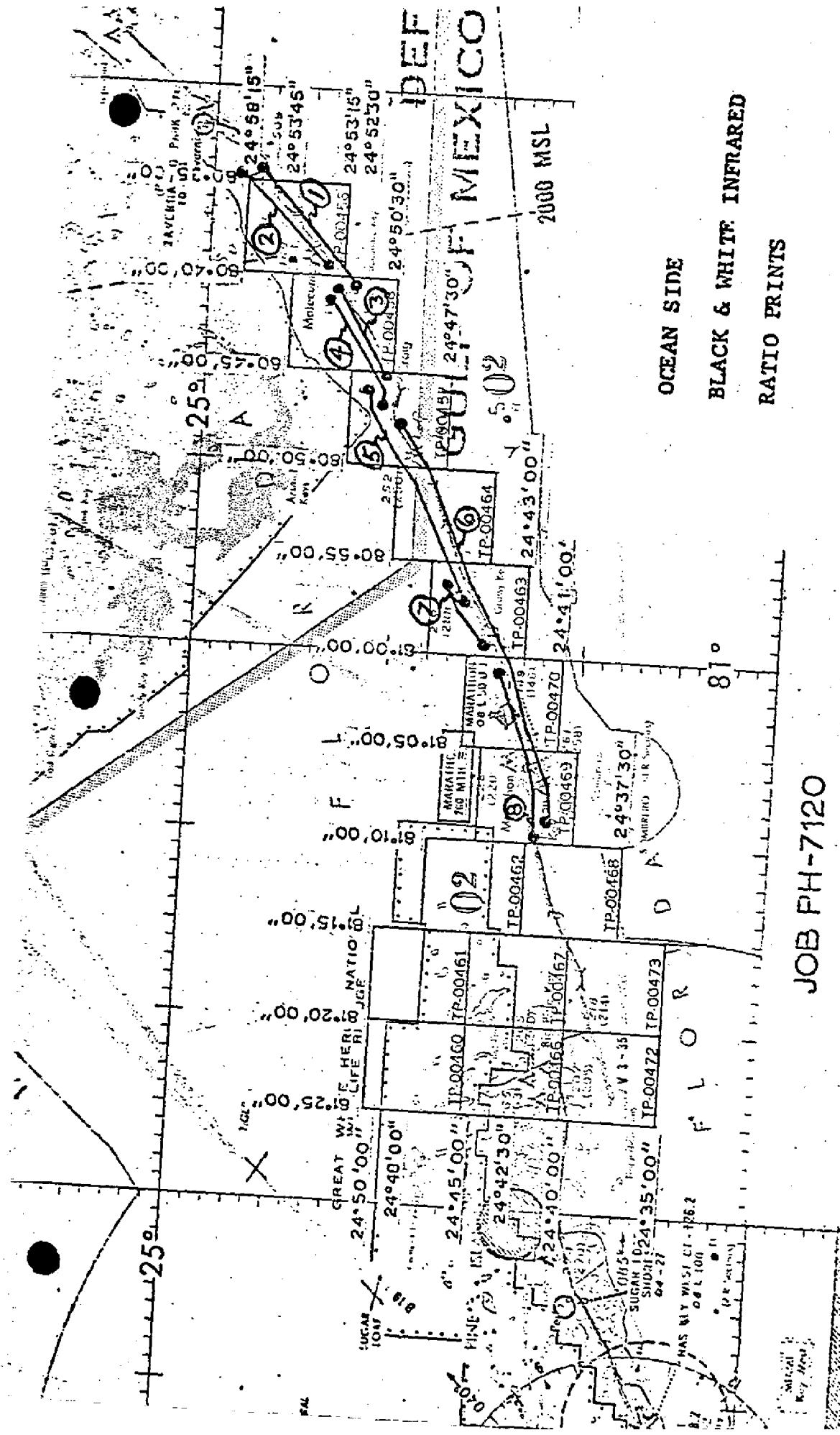
FLORIDA

SHORELINE MAPPING

REVISED 10/2/74

SCALE 1:10000

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

T R A

## FLORIDA-NOAA Coastal Boundary Mapping Program

HORIZONTAL CONTROL TP -00464

Station	NOS Geodetic Data Reference for Descriptions, Positions, Coordinates and Azimuths
/ RESORT 1972 / HIGH 1972 / DICK 1972	Not publish } being processed " " } " "

Compilation Report  
TP-00464  
February 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 limits of vegetation (where the tide-coordinated black-and-white infrared photography did not clearly show the shoreline).

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.

32. Horizontal Control

Horizontal control was adequate (see Photogrammetric Plot Report). Refer to page 2 for new control positions used and explanation.

33. Supplemental Data - None

34. Contours and Drainage

Contours are not applicable. Ponds were compiled from rectified black and white prints of the color infrared photography.

35. Shoreline and Alongshore Detail

Office interpretation of the photography was adequate for delineating the shoreline and alongshore details.

36. Offshore Details

The channel Key Bank area in the NW corner of the sheet could not be compiled due to lack of photo coverage.

37. Landmarks and Aids to Navigation

No landmarks were located during compilation. One daybeacon was located photogrammetrically during bridging. All landmarks and aids to navigation will be located or verified during field edit.

38. Control for Future Surveys - None

39. Junctions

Refer to Form 76-36B.

#### 40. Horizontal Accuracy

This map complies with the National Map Accuracy standards and with the accuracy requirements for the Florida Coastal Mapping Program as outlined by the project instructions for Job PH-7000, [REDACTED].

41. thru 45. Inapplicable

#### 46. Comparison with Existing Maps

Comparison was made with the following USGS quads:

Long Key, Fla., 1971, 1:24,000 scale

Grassy Key, Fla., 1971, 1:24,000 scale

No significant differences were noted.

#### 47. Comparison with Nautical Charts

Comparison was made with the following Nautical Charts:

11449 (851) Aug. 23, 1975, 7th Ed, 1:40,000 scale

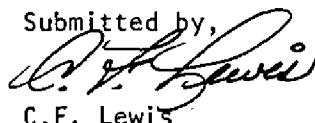
11451 (14150) Sept. 7, 1974, 12th Ed., 1:80,000 scale

11452 (1250) Jan. 12, 1974, 10th Ed., 1:80,000 scale

Items to be applied to Nautical Charts Immediately: None

Items to be Carried Forward: None

Submitted by,



C.F. Lewis

Approved and forwarded:



J. P. Battley, Jr.

Chief, Coastal Mapping Section

## FIELD EDIT REPORT, MAP TP-00464, JOB PH-7120

51. METHODS

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

Three triangulation stations were recovered.

Five vertical control stations were recovered and identified. Bench Mark J278 was located from RESORT RM 1 1972.

One Tower is recommended for charting.

Five tidal stations are within the manuscript. Duck Key, Toms Harbor, and Toms Cut did not get satisfactory data. Tidal BM were identified for them in case the trouble is resolved at a later date.

<u>Tide Station</u>	<u>Bench Mark</u>	<u>Photograph</u>
Long Key Chan. East	P 69 RESET	73L8447R
Long Key Chan. West	Q 69 RESET	72L8449R
Duck Key Atlantic	Z 238	72L8451R

LONG KEY STATE PARK is recommended for that section of the park that is on this sheet.

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.

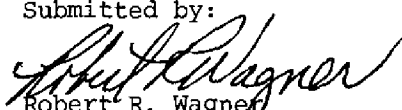
54. RECOMMENDATION

None

55. EXAMINATION OF PROOF COPY

Not required

Submitted by:

  
 Robert R. Wagner  
 Chief, Photo Party 66  
 3/18/76



Review Report  
TP-00464  
November 1977

61. General

The map manuscript for Coastal Zone Map TP-00464 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:

- Long Key, Florida - 1971
- Grassy Key, Florida - 1971

No significant changes were found.

Comparison was made with nautical chart 11449 (formerly C&GS 851), 8th edition, dated August 20, 1977.

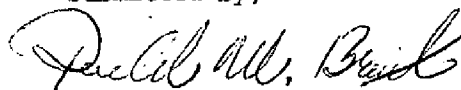
Chart 11449 shows wrecks, piling and areas of mean low water that are not shown on Coastal Zone Map TP-00464. These features were not visible on the photography and were investigated by field edit. A copy of the field editor's notes is attached to the Chart Maintenance Print.

63. thru 65. Inapplicable.

66. Adequacy of Results and Future Surveys

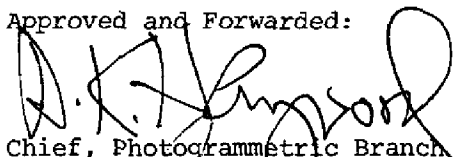
Coastal Zone Map TP-00464 complies with the Instructions for NOS cooperative Boundary Mapping Job PH-7000 and the National Standards of Map Accuracy.

Submitted by,

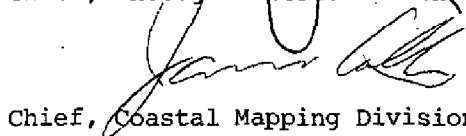


Donald M. Brant

Approved and Forwarded:



Chief, Photogrammetric Branch



Chief, Coastal Mapping Division

19 September 1977

## GEOGRAPHIC NAMES

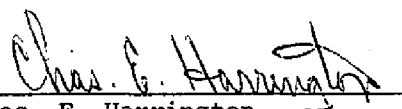
## FINAL NAME SHEET

PH-7120 (Florida Keys)

TP-00464

Channel Key  
Channel Key Banks  
Channel Key Pass  
Conch Key  
Conch Keys  
Conch Key Banks  
Conch Key Channel  
Duck Key  
Florida Bay  
Long Key  
Long Key State Park  
Old Sweat Bank  
Straits of Florida  
Toms Harbor  
Walkers Island

Approved

  
Chas. E. Harrington  
Staff Geographer - C51x2

STPL  
VERSION  
09/18/75

\*\*\*\*\*

76-40	PHOTOGRAMMETRIC BRANCH	NATIONAL OCEAN SURVEY NOAA										VERSION									
LISTING	COASTAL MAPPING DIVISION	DEPARTMENT OF COMMERCE USA										09/18/75									

76-400

PHOTOGRAMMETRIC BRANCH

COASTAL MAPPING DIVISION

ATIONAL OCEAN SURVEY

DEPARTMENT OF COMMERCE USA

NOAA

VERSION

09/18/75

LISTING

SVY

TP-00464

\*

RPT UNIT

CMD ROCKVILLE, MD.

\*

PAGE

3 OF

4

JOB

PH-7120

\*

LANDMARKS FOR CHARTS

\*

STATE

FLORIDA

\*

ORIGINATING

ACTIVITY

\*

PRJ

R

\*

LOCALITY

DUCK KEY TO LONG KEY

\*

COMPILATION

\*

DTM

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

SEQ

\* OFFICE

\* FIELD

\* AFFECTED

TV.

TOWER FOR RECEIVING TELEVI

24 48 21.87

672.9

0

\*

P-L-7

\*

11449

TOWER

SION AT CAMP AREA. HT=254(259)

80 50 32.61

915.9

16

\*

02/03/76

\*

11451

THIS TELEVISION RECEIVING TOWER IS ON MIAMI AERONAUTICAL

SECTIONAL CHART BUT IS BELIEVED THAT IT IS OUT OF POSITION

29

TYPE OF ACTION

NAMES OF RESPONSIBLE PERSONNEL

ORIGINATOR

OBJECTS INSPECTED FROM SEAWARD

ROBERT R. WAGNER

PHOTO FIELD PARTY

POSITIONS DETERMINED

AND/OR VERIFIED BY

FIELD AND OFFICE

ACTIVITIES

CHARLES LEWIS AND CHECKED BY JET BATTLE

SKIP STEMBLE

JAMES H. TAYLOR

FIELD REPRESENTATIVE

OFFICE COMPILER

DIGITIZER

DATA PROCESSER

PHOTOGRAMMETRIC BRANCH  
COASTAL MAPPING DIVISION  
NATIONAL OCEAN SURVEY  
DEPARTMENT OF COMMERCE  
NOAA  
USA  
09/18/75  
VERSION  
SIMPL

76-4000  
LISTING  
PHOTOGRAMMETRIC BRANCH  
COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY NOAA  
DEPARTMENT OF COMMERCE USA

VERSION  
09/18/75

* SVY	TP-00464	* RPT UNIT	CMD ROCKVILLE, MD.	* PAGE	4 OF	4	*
* JOB	PH-7120	* NONFLOATING AIDS FOR CHARTS	STATE	*			*
* PRJ	R	* TO BE DELETED	LOCALITY	* DUCK KEY 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 +

[illegible]

* DIRECT *	HAWK CHANNEL	DUCK KEY CHANNEL	* 24 45 55.00	1692.2	NOT *	* DETERMINED *
* LIGHT *	DIRECTIONAL LIGHT		* 80 54 36.00	1011.4	DGTZD *	* 03/16/76 *
						11449 *

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[illegible]

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\* 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 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 10

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*(continued)*

[illegible]

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* * *	* TYPE OF ACTION	* NAMES OF RESPONSIBLE PERSONNEL	* #	* ORIGINATOR	* * *
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\* POSITIONS DETERMINED \*  
\* AND/OR VERIFIED BY \*  
\* CHARLES LEWIS AND CHECKED BY \*  
\* ROBERT R. WAGNER \*  
\* FIELD REPRESENTATIVE \*  
\* COPIES COMPLETED \*

* * *	* * *	* * *	* * *	* * *
FIELD AND OFFICE				DIGITIZER
ACTIVITIES			N/A	
			JAMES H. TAYLOR	DATA PROCESSER

## National Archives Data

TP-00464

November 1977

- 1 Discrepancy print (paper copy)
- 1 Field edit sheet (stable base copy)
- 3 NOAA Forms 76-40 (Nonfloating Aid or Landmarks for Charts)
- 1 NOAA Form 76-36C (History of Field Operation)

## Photographs:

72-L-8447R 8449R, thru 8451R