

Original

TP-00456

TP-00456

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-00456.....
Classification No. Final Edition No. ... 1.....
Field Edited Map

LOCALITY

State Florida.....
General Locality ... Monroe County.....
Locality Upper Matecumbe 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 ☒ ORIGINAL ☐ RESURVEY ☐ REVISED	
PHOTOGRAMMETRIC OFFICE Rockville, Maryland		SURVEY TP. 00456 MAP EDITION NO. (1) MAP CLASS Final JOB PH. 7120	
OFFICER-IN-CHARGE Commander James Collins		LAST PRECEDING MAP EDITION TYPE OF SURVEY ☐ ORIGINAL ☐ RESURVEY ☐ REVISED JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
I. INSTRUCTIONS DATED			
1. OFFICE 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.		2. FIELD Instructions-FIELD-July 6, 1972 Field Edit (PH-7000 General Instructions for Florida Coastal Zone Mapping) 1973	
II. DATUMS			
1. HORIZONTAL: ☒ 1927 NORTH AMERICAN		OTHER (Specify)	
2. VERTICAL: ☒ MEAN HIGH-WATER ☒ MEAN LOW-WATER ☐ MEAN LOWER LOW-WATER ☐ MEAN SEA LEVEL		OTHER (Specify)	
3. MAP PROJECTION Transverse Mercator		4. GRID(S) STATE Florida ZONE East	
5. SCALE 1:10,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY		V. McNeel	11/74
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: CHECKED BY		J. Taylor	5/75
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: CONTOURS BY SCALE: CHECKED BY		Inapplicable	
4. MANUSCRIPT DELINEATION PLANIMETRY BY METHOD: Graphic CHECKED BY SCALE: 1:10,000 HYDRO SUPPORT DATA BY CHECKED BY		C. Lewis	1/76
		J. Battley, Jr.	1/76
		Inapplicable	
		Inapplicable	
		Inapplicable	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		J. P. Battley, Jr.	1/76
6. APPLICATION OF FIELD EDIT DATA BY		J. Keating	4/76
CHECKED BY		J. P. Battley, Jr.	4/76
7. COMPILATION SECTION REVIEW BY		J. P. Battley, Jr.	4/76
8. FINAL REVIEW BY		D. Brant	11/76
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY			
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		D. Brant	3/77
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		R. T. Cator	Mar 1978

TP-00456

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA (Wild RC-8) L 6" focal length		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR R (P) PANCHROMATIC (I) INFRARED B&W	TIME REFERENCE	
TIDE STAGE REFERENCE ☐ PREDICTED TIDES ☐ REFERENCE STATION RECORDS ☒ TIDE CONTROLLED PHOTOGRAPHY			ZONE Eastern MERIDIAN 60th	☐ STANDARD ☒ DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
72L(C)8427R-8429R	8/12/72	0930	1:30,000	The stage of tide is inapplicable for the color photography.
72L(C)8592R-8593R	8/12/72	1634	1:15,000	
72L(C)8695R-8698R	8/13/72	1530	1:30,000	
72L(C)8705R-8706R	8/13/72	1542	1:30,000	
72L8206R-8211R	8/8/72	1637	1:30,000	Refer to 76-36B(1) for tide information
72L8338R-8341R	8/11/72	1616	1:15,000	
72L8394R-8399R	8/11/72	1739	1:20,000	
72L8491R-8496R	8/12/72	1100	1:30,000	
72L8524R	8/12/72	1158	1:30,000	
72L8624R-8626R	8/12/72	1727	1:30,000	
72L8670R-8673R	8/13/72	1458	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 cultural features and compiling the limits of vegetation and shoal and shallow areas.

Where the MHWL was obscured by vegetation, such as mangrove, the apparent shoreline was delineated.

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 contemporaneous Survey	EAST TP-00454	SOUTH No contemporaneous Survey	WEST TP-00458
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REMARKS

Final junctions will be made in the Coastal Mapping Section.

TIDE - COORDINATED PHOTOGRAPHY

TP 00456

LOCATION AND PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE	MEAN RANGE
ATLANTIC OCEAN			
72L8206R-8211R	Tavernier, Hawk Channel	+0.09 LW	2.13'
72L8490R-8496R	Tavernier, Hawk Channel	-0.06 HW	2.13'
FLORIDA BAY			
72L8338R-8341R	Lower Matecumbe Key Fla. Bay	+0.01 LW	0.78'
72L8394R-8399R	Upper Matecumbe Key Islamorada Fla. Bay Whale Harbor Channel	-0.02 LW	0.50' 1.39'
72L8524R	Upper Matecumbe Key Fla Bay	-0.14 LW	0.50'
72L8624R-8626R	Upper Matecumbe Key Fla. Bay	+0.2 LW	0.50'
72L8624R-8626R	Upper Matecumbe Key Fla. Bay	-0.3 HW	0.50'
72L8624R-8626R	Tavernier, Fla. Bay	-0.17 WL	2.85' 1970 staff
7WL8670R-8673R	Upper Matecumbe Key, Fla. Bay	-0.14 HW	0.50'

REMARKS:

HISTORY OF FIELD OPERATIONS. TP-00456

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

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

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
	Refer Field Report	72L8705R	D 69 RESET, L276
		72L8697R	M 276
		72L8593R	T 276
		72L8698R	R 276

3. PHOTO NUMBERS (Clarification of details) 72L8210R, 8698R, 8395R, 8396R, 8428R, 8524R, 8592R, 8593R, 8697R, 8705R

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
72L8698R	Radio Tower	72L8697R	Lighted Marker

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)

15 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 ADMINISTRATION

RECORD OF SURVEY USE TP-00456

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.				
C/ass III map	6/11/76	special request from requirements Branch		

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
		9/30/76	Eight digitized Forms 76-40 were submitted
			to the Marine Chart Division as final report.

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 9/30/763. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

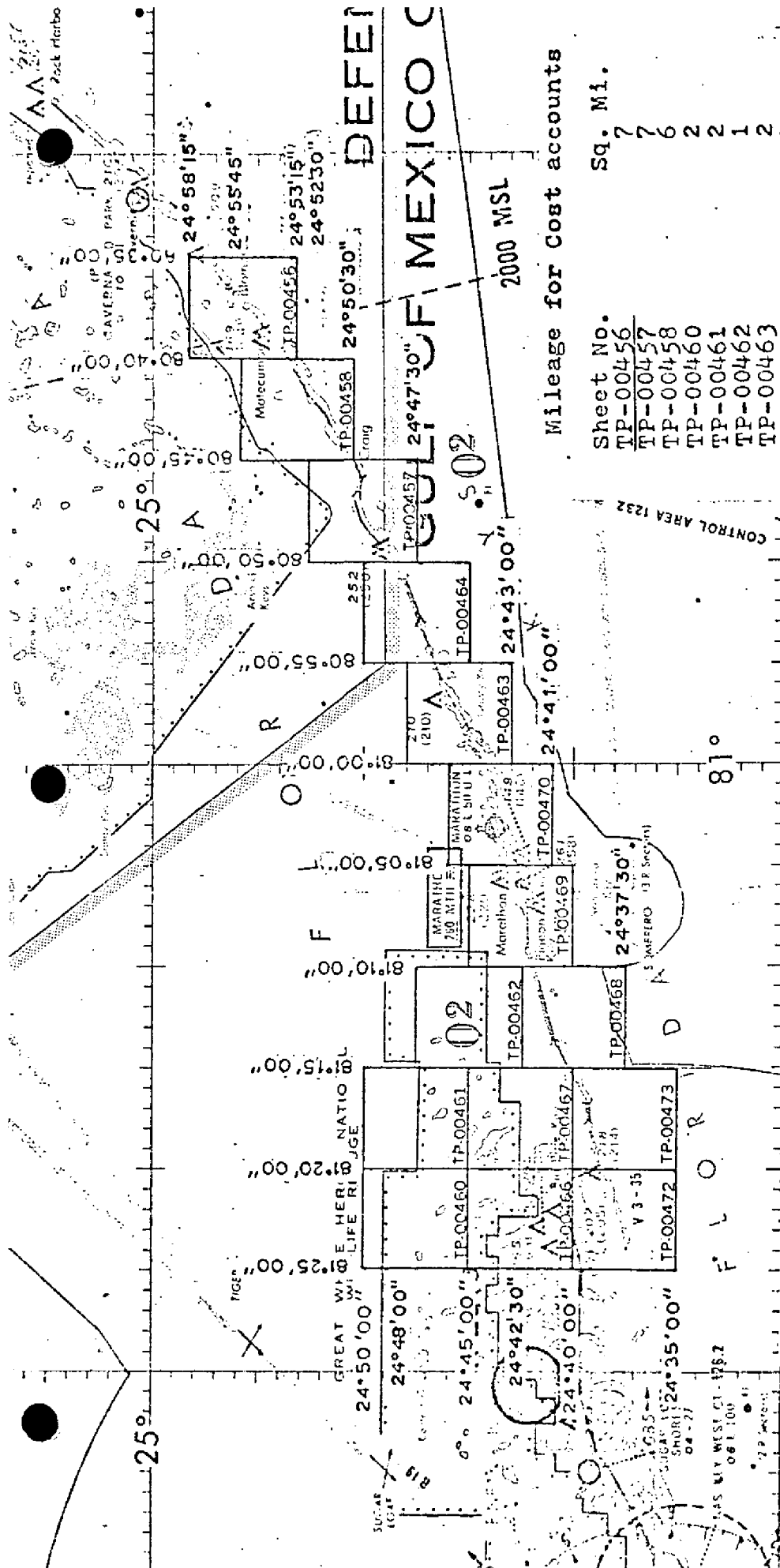
III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☐ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS ~~76-40~~ 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 ☐ REVISED ☐ RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL	



Mileage for Cost accounts

Sheet No.	Sq. Mi.
TP-00456	7
<u>TP-00457</u>	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

JOE PH-7120

PLANTATION KEY to BIG PINE KEY
FLORIDA

FLORIDA

SHORELINE MAPPING

SCALE 1:10,000

REVISED 10/2/74
2/24/76

ARRA

Total

6

SUMMARY

For

TP-00456 thru TP-00458

TP-00460 thru TP-00464

TP-00466 thru TP-00473

Coastal Zone Map TP-00456 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

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

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

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

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

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

Line 30-4. MHW Flown at 1045-1047 on 12 August when the LOWER MATECUMBE KEY, FLA. BAY staff read 3.15-3.17. Reflowed on 13 August at 1120-1122 when the staff read ~~2.25-2.38~~ 3.10. MLW Flown on 11 August at 1534-1537 when the staff read 2.40 and reflowed 1545-1548 the same day when the staff read 2.39-2.37.

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

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

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

4. FORESHORE PROFILES

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

5. BRIDGE AZIMUTHS

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

6. FIELD RECORDS

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

John C. Veselenak
John C. Veselenak
Chief, Photo Party 65

PHOTOGRAMMETRIC PLOT REPORT
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

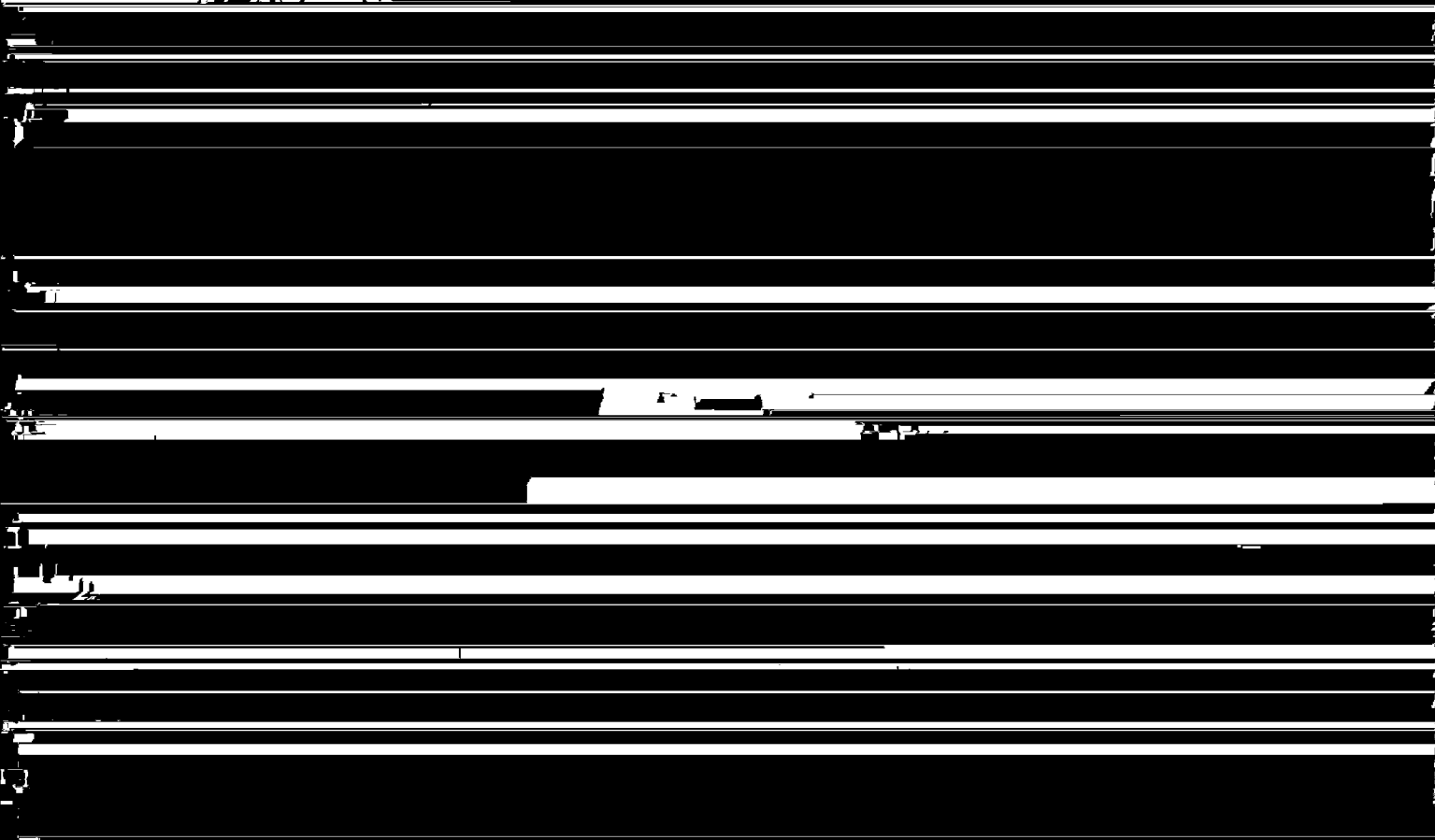
The quality and definition of the photography was adequate.

Respectfully submitted,

Victor E. McNeel
Victor McNeel

Approved and forwarded:

John P. Perrow-Lr



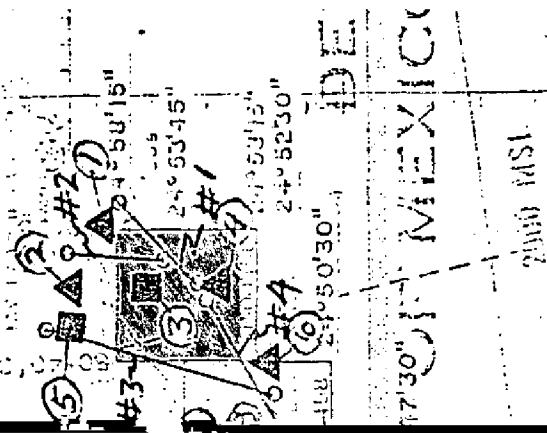
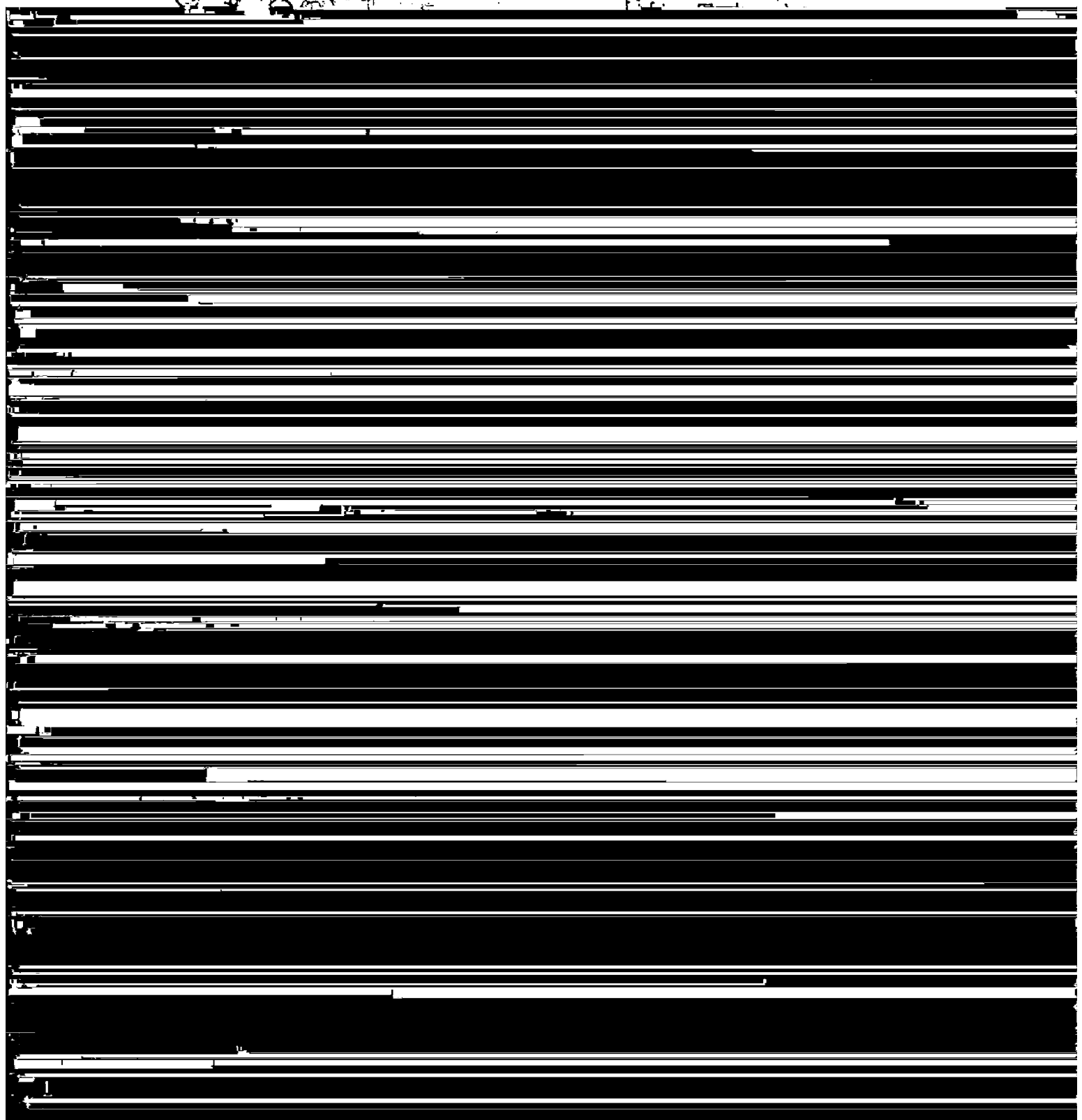
<u>CONTROL STATIONS</u>	<u>RESIDUALS</u>	
	<u>X</u>	<u>Y</u>
1. (695101) SNAKE, 1934, Sub Point	+3.024	-1.570
2. (707101) EAST, 1859, RM1	0.000	0.000
3. (697801) TIE POINT	0.000	0.000
4. (698101) NAIL ND NM SUB. PT. A	-0.246	+0.994
5. (698102) NAIL ND NM SUB. PT. B	+1.226	-1.084
6. (707802) TIE POINT	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

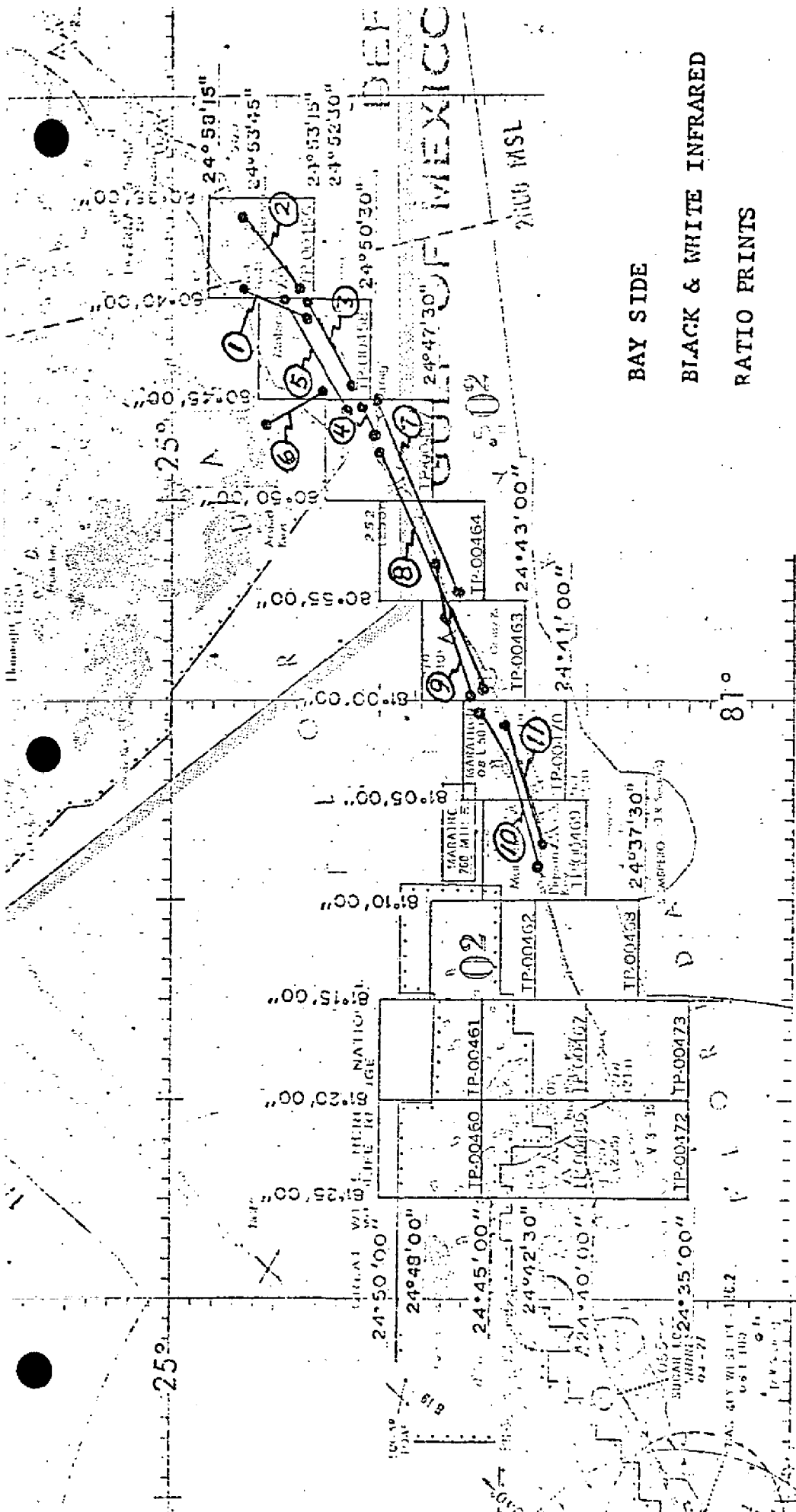
1. 72L 8491R - 8496R MHW
2. 72L 8206R - 8211R MLW
3. 72L 8183R - 8189R MHW
4. 72L 8223R - 8231R MLW
5. 72L 7930R - 7942R MHW
6. 72L 8241R - 8264R MLW
7. 72L 7945R - 7949R MHW
8. 72L 7917R - 7926R MHW



TRIPS AND
STATIONS

1 or pre-identified
stations

ants used as control



JOB PH-7120

PLANTATION KEY to BIG PINE KEY

FLORIDA

SHORELINE MAPPING

SCALE 1:10000

REVISED 10/3/74

BAY SIDE
BLACK & WHITE INFRARED
RATIO PRINTS

FLORIDA—NOAA Coastal Boundary Mapping Program

Horizontal Control

Map TP-00456

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
MIL 1934	GP P. 469; PC p.93; Book 425, pages 10, 11, and 34
ISLA 1934	GP p. 368; PC p. 93; Book 425, pages 9, 27, 33, and 38

Compilation Report
TP-00456
January 1976

31. Delineation

All features were delineated by graphic compilation. The rectified black and white 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). Color contact prints were used as a guide for clarifying map detail.

The tidal datum lines were compiled from office interpretation of the ratioed tide-coordinated black-and-white infrared photography which was controlled by common detail compiled from the rectified black-and-white 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). Refer to page 2 for new control positions used and explanation.

33. Supplemental Data - None

34. Contours and Drainage

Contours are not applicable. Numerous 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, with the exception of two areas which were noted on the discrepancy print for verification by the field editor.

36. Offshore Details

No unusual problems were encountered.

37. Landmarks and Aids to Navigation

One landmark was located photogrammetrically during compilation. Numerous lights and daybeacons were located photogrammetrically during bridging. All landmarks and aids to navigation will be located or verified during field edit.

38. Control for Future Surveys - None39. Junctions - Refer to Form 76-36B40. 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.

41. thru 45. Inapplicable

46. Comparison with Existing Maps

Comparison was made with the following USGS quadrangles:

Plantation Key, Florida 1971, 1:24,000 scale
Upper Matecumbe Key, Fla., 1971, 1:24,000 scale

No significant differences were noted.

47. Comparison with Nautical Charts

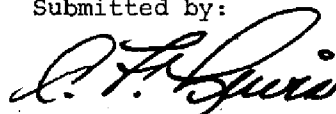
Comparison was made with the following Nautical Charts:

11451 (141-SC) Sept. 7, 1974, 12th Ed., 1:80,000 scale
11452 (1250) Jan. 12, 1974, 10th Ed., 1:80,000 scale
11463 (850) Aug. 3, 1974, 7th Ed., 1:40,000 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-00456, Job PH-7120

51. METHODS

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

Two triangulation stations were recovered.

Five vertical control stations were recovered and identified.

Two towers are recommended for charting.

All known aids were located or verified. The aids at Bud and Marys Marina are in bad shape. A number of the aids are not in place. The dockmaster stated that they will be replaced in the near future. This sheet has been held in the field for a month; but no work has been done yet.

Line tide stations are on this manuscript. If the tide well was in place it was also located.

GAGE	BENCH MARK	PHOTOGRAPH
Snake Creek Inside	NO 1	72L8705R
Snake Creek Canal	L276	72L8705R
Islamorada, Whale Harbor Channel	M276	72L8697R
Whale Harbor Marina	M276	72L8697R
Upper Matecumbe Key, Atlantic	R276	72L8698R
Upper Matecumbe, Florida Bay	NO 4	72L8698R
Shell Key Channel	NO 2	72L8593R
Upper Matecumbe Key, West End	T276	72L8593R
Upper Matecumbe, Fla. Bay, Clarke Marina		

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

52. ADEQUACY OF COMPILATION

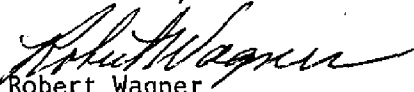
Adequate after application of field edit.

53. MAP ACCURACY - No test required.

54. RECOMMENDATION - None.

55. EXAMINATION OF PROOF COPY - Not required.

Submitted by



Robert Wagner
Chief, Photo Party 66

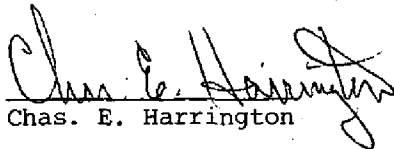
March 8, 1977

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-7120 (Florida Keys)
TP-00456

Atlantic Ocean
Cotton Key
Everglades National Park
Florida Bay
Ironwood Channel
Islamorada
Little Basin
Plantation Key
Shell Key
Shell Key Bank
Shell Key Channel
Snake Creek
Steamboat Channel
Teatable Key

Teatable Key Channel
Upper Matecumbe Key
Whale Harbor
Whale Harbor Channel
Wilson Key
Windley Harbor
Windley Key
Yellow Shark Channel

Approved:


Chas. E. Harrington
Staff Geographer

Review Report
TP-00456
March 1977

61. General

The map manuscript for Coastal Zone Map TP-00456 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:

Plantation Key, Florida - 1971
Upper Matecumbe Key, Florida - 1971

No significant changes were found.

Comparison was made with chart 11463 (formerly C&GS 850) - 8th Edition, dated July 31, 1976; scale 1:40,000.

Extensive areas of MLW are shown on chart 11463 that are shown as shoal and shallow areas on TP-00456. The black-and-white, tide-coordinated (MLW) infrared photography and the field investigation showed no MLW in these areas. The shoal and shallow areas on TP-00456 were compiled from the color infrared photography.

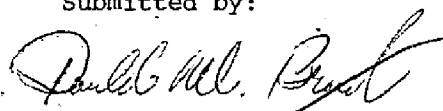
The wreck shown on chart 11463 (lat. 24°23.9' and long. 80°36.6') was not visible on the 1972 photography and is not shown on TP-00456. No mention of this wreck was made by the field investigation.

63. thru 65. Inapplicable.

66. Adequacy of Results and Future Surveys

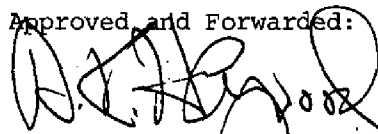
Coastal Zone Map TP-00456 complies with the Instructions for NOS Cooperative Boundary Mapping Job PH-7000 and the National Standards of Map Accuracy.

Submitted by:

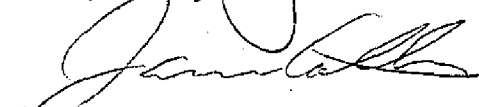


Donald M. Brant

Approved and Forwarded:



Chief, Photogrammetric Branch



Chief, Coastal Mapping Division

1 OF 8

ACTIVITY
ATION

LANDMARKS

* CHARTS *
* AFFECTED *

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* 11451 *
* 11463 *

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VERSION
09/18/75

TYPE OF ACTION	NAMES OF RESPONSIBLE PERSONNEL	ORIGINATOR
POSITIONS DETERMINED AND/OR VERIFIED BY FIELD AND OFFICE ACTIVITIES	ROBERT R. WAGNER J. KEATING AND VERIFIED BY J. BATTLE RJBIN TORRES JAMES TAYLOR	FIELD REPRESENTATIVE OFFICE COMPILER DIGITIZER DATA PROCESSER

VERSION
U9/18/75

* TP-00456 *	* RPT UNIT *	* PAGE 3 OF 8 *
* SVY TP-00456 *	* RPT UNIT *	* PAGE 3 OF 8 *
* SVY PH-712C *	* STATE FLORIDA *	* ORIGINATING ACTIVITY *
* P3J 2 *	* LOCALITY UPPER MATECUMBE KEY *	* COMPILATION *
* DTM NA 1927 *	* DATE 08/17/76 *	

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

* * *	* DESCRIPTION	* POSITION	* CODES*	* METHOD AND DATE	* *
* CHARTING*	RECORD REASON FOR DELETION	LATITUDE DM	C-3 *	OF LOCATION	* CHARTS *
* NAME	PUT TRIANGULATION NAMES IN ()	LONGITUDE DP	SEQ *	OFFICE	* FIELD
					* AFFECTED*

NAME	STATUS	REMARKS
HAWK CHANNEL	*	
BUD AND YARYS MARINA	*	
CHANNEL	*	

* *	DYBN	*	DITTO	*	24	53	30	88	950	1	249	*	P-1-6	*	11451
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[illegible][illegible]

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[illegible]

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11	*	80	39	=	4.97	21	*			0110

* DYNB	* DITTO	* 24 53	* 213	* P-L-6
* 24 53	* 213	* 1258.7	* 213	* P-L-6

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DITTO	+	23	733.6						

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OYEN	*	*	*	*	*	*	*

* TYPE OF ACTION	* NAMES OF RESPONSIBLE PERSONNEL	* ORIGINATOR
1. RESEARCH	1. RESEARCH	1. RESEARCH
2. ANALYSIS	2. ANALYSIS	2. ANALYSIS
3. EVALUATION	3. EVALUATION	3. EVALUATION
4. RECOMMENDATION	4. RECOMMENDATION	4. RECOMMENDATION
5. ACTION	5. ACTION	5. ACTION
6. MONITORING	6. MONITORING	6. MONITORING
7. REPORTING	7. REPORTING	7. REPORTING
8. OTHER	8. OTHER	8. OTHER

1. *Introduction*
 2. *Methodology*
 3. *Results*
 4. *Discussion*
 5. *Conclusion*
 6. *References*
 7. *Appendix*
 8. *Tables*
 9. *Figures*
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 246. *References*
 247. *Appendix*
 248. *Tables*
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 250. *Supplementary Materials*
 251. *Notes*
 252. *References*
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1. $\frac{1}{2}$

AND/OR VERIFIED BY J. KEATING AND VERIFIED BY J. BATTLE * OFFICE COMPILER *

*** ACTIVITIES *** JAMES TAYLOR *** DATA PROCESSOR ***

1

76-40

PHOTOGRAMMETRIC BRANCH

COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY

DEPARTMENT OF COMMERCE USA

NOAA

9/18/75

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CMD ROCKVILLE, MD.

STATE FLORIDA

LOCALITY UPPER MATECUMBE KEY

DATE 08/17/76

PAGE 5 OF 8

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

CHARTING* RECORD REASON FOR DELETION

NAME * PUT TRIANGULATION NAMES IN ()

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METHOD AND DATE

OF LOCATION

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2 *

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31

TYPE OF ACTION

NAMES OF RESPONSIBLE PERSONNEL

ORIGINATOR

POSITIONS DETERMINED

AND/OR VERIFIED BY

FIELD AND OFFICE

ACTIVITIES

ROBERT R. WAGNER

VERIFIED BY J. BATTLE

RJBIN TORRES

JAMES TAYLOR

FIELD REPRESENTATIVE

OFFICE COMPILER

DIGITIZER

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LISTING

PHOTOGRAMMETRIC BRANCH

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THE FOLLOWING OBJECTS

HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

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HT=168(172)

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565.2

86

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DITTO

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MARKER

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DGYZD

02/02/76

DITTO

32

OBJECTS INSPECTED FROM SEAWARD

POSITIONS DETERMINED

AND/OR VERIFIED BY

FIELD AND OFFICE

ACTIVITIES

ROBERT R. WAGNER

ROBERT R. WAGNER

J. KEATING AND VERIFIED BY J. BATTLE

RUBIN TORRES

JAMES TAYLOR

PHOTO FIELD PARTY

FIELD REPRESENTATIVE

OFFICE COMPILER

DIGITIZER

DATA PROCESSER

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National Archives Data
TP-00456

1 Discrepancy Print (paper copy)
1 Field edit sheet (stable base copy)
1 NOAA Form 76-36C (History of Field Operations)
6 NOAA Forms 76-40 (Working Copies Non-Floating Aids or Landmarks for Charts)
15 pages of cuts

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