

TP-00458

original

TP-00458

NOAA FORM 76-35	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Type of Survey Coastal Zone Map	
Job No. PH-7120	Map No. TP-00458
Classification No. Final	Edition No. 1
Field Edited Map	
LOCALITY	
State Florida	
General Locality Monroe County	
Locality Shell Key to Matecumbe Harbor	
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		SURVEY TP-00458 MAP EDITION NO. 11 MAP CLASS Final JOB PH. 7120	
OFFICER-IN-CHARGE Commander 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__	
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 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. E. McNeel 11/74 Inapplicable	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradiant CHECKED BY		J. Taylor 5/75 Inapplicable	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY		Inapplicable	
INSTRUMENT: CONTOURS BY SCALE: CHECKED BY		Inapplicable	
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY		J. McClure 12/75 C. Lewis 12/75	
METHOD: Graphic: rectified photos CONTOURS BY SCALE: HYDRO SUPPORT DATA BY CHECKED BY		Inapplicable	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		J. Battley 12/75	
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		J. McClure 4/76 J. Battley 4/76	
7. COMPILATION SECTION REVIEW BY		J. Battley 4/76	
8. FINAL REVIEW BY		D. Brant 4/76	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		D. Brant 3/77	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		R. Cator 3/78	
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-00458

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) 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 <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)8416-8417	8/12/72	0919	1:30,000	The stage of tide is inapplicable for the color photography
72L(C)8426R	8/12/72	0928	1:30,000	
72L(C)8584R-8592R	8/12/72	1631	1:15,000	
72L8183R-8189R	7/30/72	1426	1:15,000	Refer to 76-36B(1) for tide information.
72L8222R-8229R	8/8/72	1650	1:15,000	
72L8496R	8/12/72	1104	1:30,000	
72L8149R-8154R	7/30/72	1155	1:15,000	
72L8330R-8338R	8/11/72	1608	1:15,000	
72L8343R	8/11/72	1618	1:20,000	
72L8365R-8367R	8/11/72	1647	1:30,000	
72L8522R-8524R	8/12/72	1157	1:30,000	

REMARKS 72L8673R	8/13/72	1502	1:30,000
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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 shoreline symbol was used.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

The source of the MLW line is the tide-coordinated black-and-white infrared photography listed under item 1.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED
Inapplicable					

5. FINAL JUNCTIONS

NORTH No contemporary Survey	EAST TP-00456	SOUTH No contemporary survey	WEST TP-00457
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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 SURVEYTIDE - COORDINATED PHOTOGRAPHY
TP - 00458

LOCATION AND PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE	MEAN RANGE
ATLANTIC OCEAN			
72L9183R- 8189R	LOWER MATECUMBE KEY, HAWK CHANNEL	-0.03 MHW	1.93'
72L8222R-8229R	LOWER MATECUMBE KEY, HAWK CHANNEL	+0.09 MLW	1.93'
72L8496R	TAVERNIER, HAWK CHANNEL	-0.06 MHW	2.13'
FLORIDA BAY			
72L8149R-8154R	LOWER MATECUMBE KEY, FLA. BAY	+0.03 MHW	0.78'
72L8330R-8338R	LOWER MATECUMBE KEY, FLA. BAY	+0.01 MLW	0.78'
72L8343R	LOWER MATECUMBE KEY, FLA. BAY	+0.03 MLW	0.78'
72L8365R-8367R	LOWER MATECUMBE KEY, FLA. BAY	-0.07MLW	0.78'
72L8522R-8524R	UPPER MATECUMBE KEY, FLA. BAY	-0.14 MLW	0.50'
72L8673R	UPPER MATECUMBE KEY, FLA. BAY	-0.14 MHW	0.50'

REMARKS:

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

TP-00458

HISTORY OF FIELD OPERATIONS

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

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.R. Wagner	
2. HORIZONTAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	R.R. Wagner	2/76
3. VERTICAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	R.R. Wagner	2/76
4. LANDMARKS AND AIDS TO NAVIGATION RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	R.R. Wagner	2/76
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	2/76
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	72L8584R	K69 RESET 1936
		72L8585R	A278
		72L8587	C328
		72L8589R	D329, X276
		72L8590R	V276

3. PHOTO NUMBERS (Clarification of details) 72L8228R, 8332R, 8336R, 8338R, 8366R, 8417R, 8426R, 8428R, 8584R, 8585R, 8587R, 8589R thru 8591R

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

There are no charted landmarks on this map. Non-floating aids were either verified or located by field methods.

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)

Pages of cuts to aids.

Refer to Field Report bound with this Descriptive Report.

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

TP-00458

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
No copies of this map have been submitted to Marine Chart Division prior to final review.				
Class I	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
		5/22/76	Four digitized forms 76-40 submitted as final report.

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 5/25/763. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

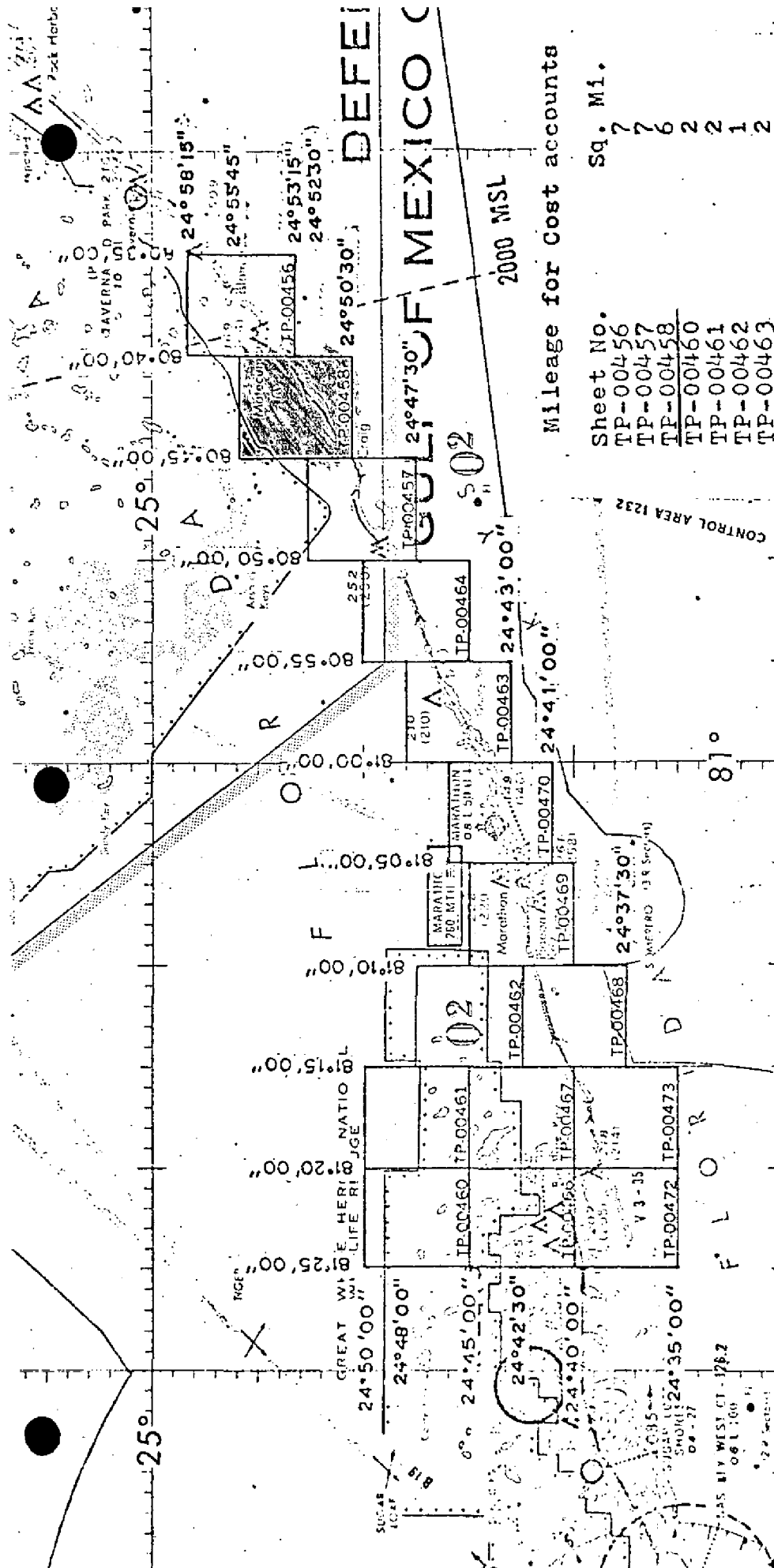
III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS 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
12/24/76

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
Total	82

SUMMARY

For

TP-00456 thru TP-00458

TP-00460 thru TP-00464

TP-00466 thru TP-00473

Coastal Zone Map TP-00458 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

9

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 ~~ZYNE~~ 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

PHOTOPANNETRIC 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
Strip No. 5, 12 Aug. 72L 8415R-8418R

The quality and definition of the photography was adequate.

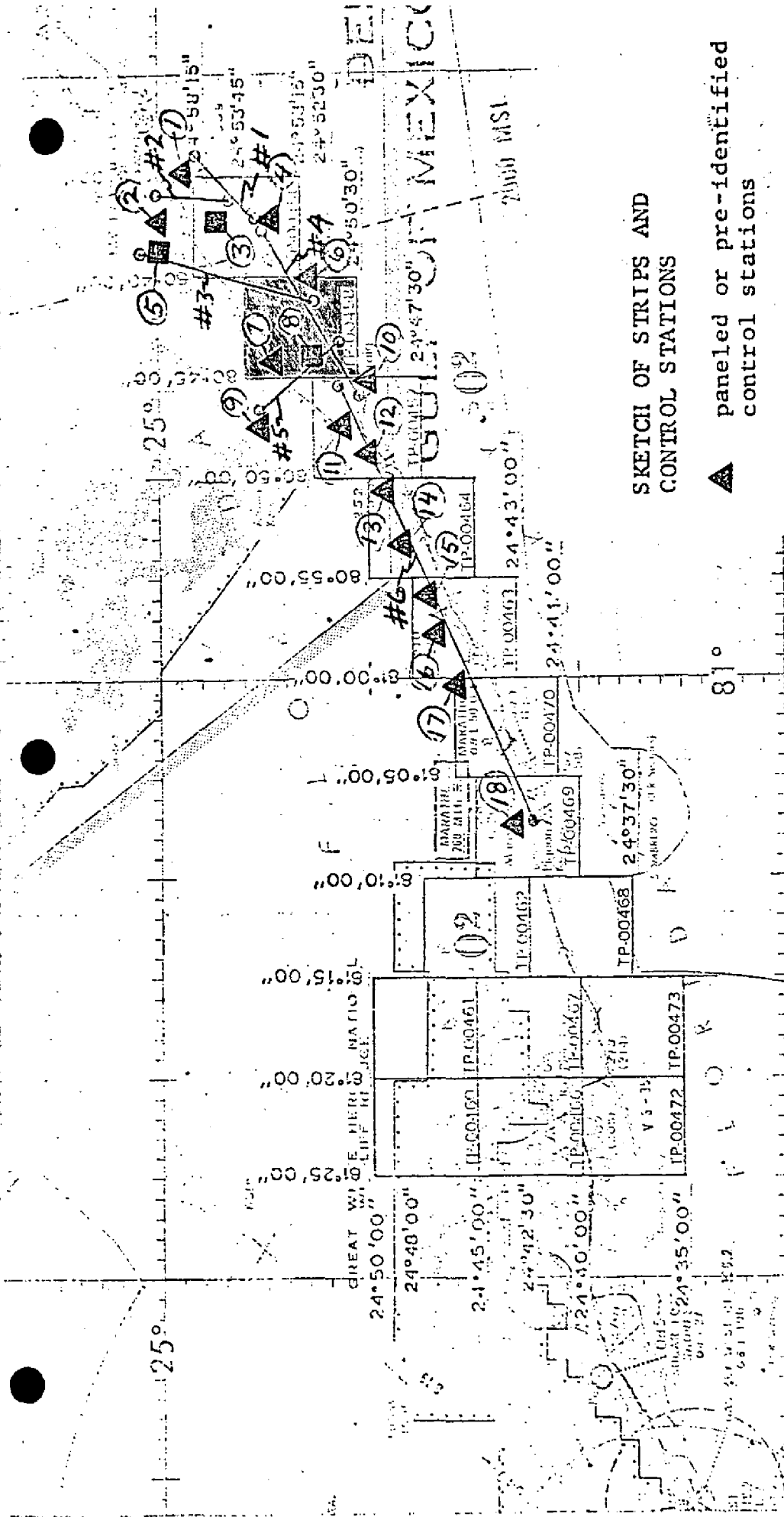
Respectfully submitted,

Victor E. McNeel

Victor McNeel

Approved and forwarded:

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



JOB PH-7120

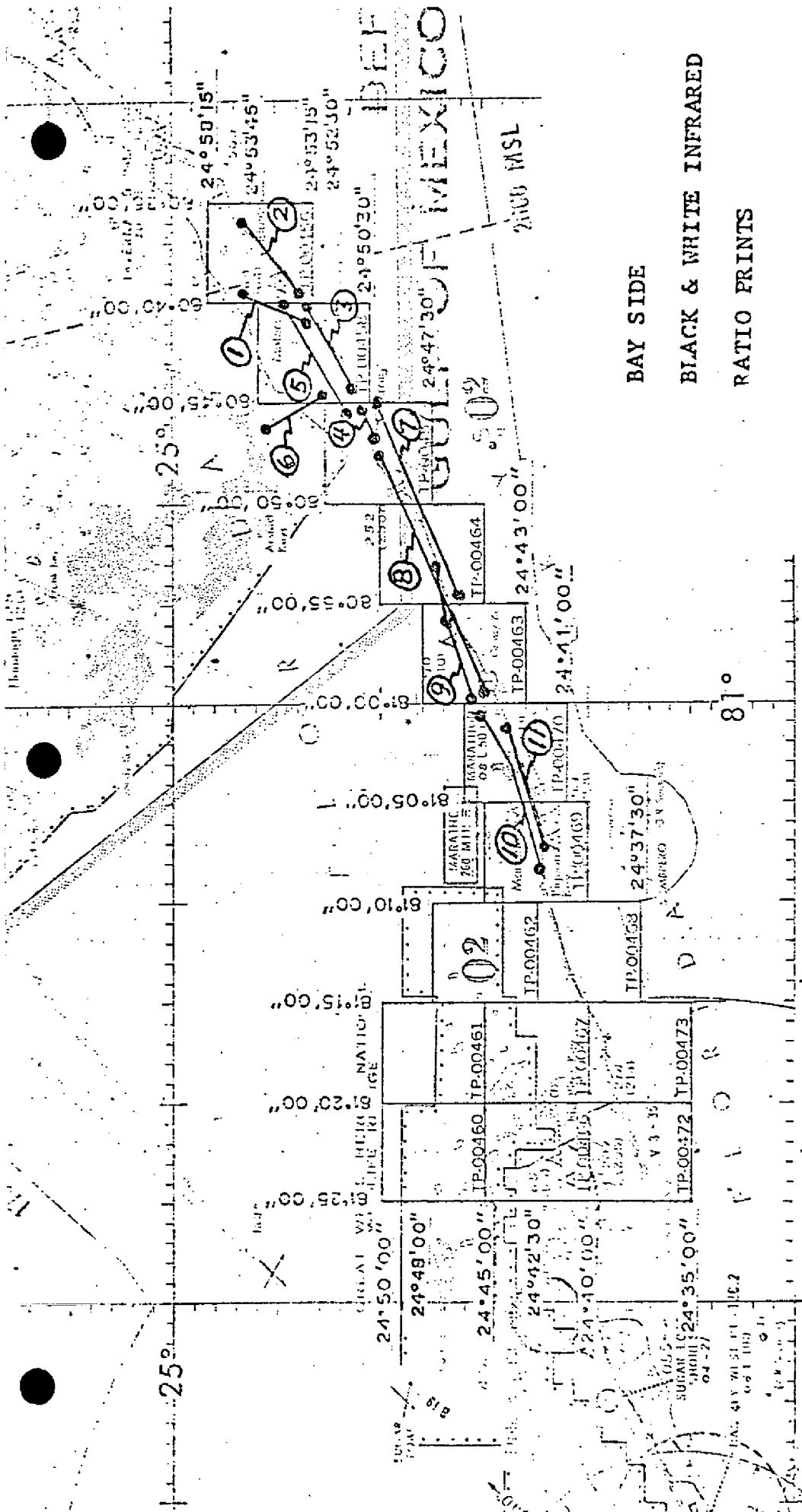
PLANTATION KEY TO BIG PINE KEY

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

<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

Horizontal Control

Map TP-00458

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
BOWLEGS 1934	Book 425 P. 12, 26, 37; GP362 Fla. Vol. 1; PC 90 Fla. E. Zone
INDIAN KEY 2 1934	Book 425 P. 10, 29, 33, 38; GP359 Fla. Vol. 1; PC89 Fla. E. Zone
BOUTTE 1934	Book 425 P. 11, 30; GP358 Fla. Vol. 1: PC 89 Fla. E. Zone
LIGNUM 1934	Book 425 P. 12, 33, 38; GP362 Vol. 1; PC 90 Fla. E. Zone

COMPILATION REPORT
TP-00458
December 1975

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).

33. Supplemental Data - None

34. Contours and Drainage

Contours are not applicable. Drainage was compiled from the 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. Unresolved questions were noted on the discrepancy print to be resolved by the field edit.

36. Offshore Details - No unusual problems were encountered.

37. Landmarks and Aids to Navigation

No landmarks were found during compilation. All landmarks and aids to navigation will be located or verified during field edit. Numerous daybeacons and lights were located photogrammetrically, primarily during bridging and will be verified.

38. Control for Future Surveys - None39. 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, December 5, 1975.

41. thru 45. Inapplicable

46. Comparison with Existing Maps

Comparison was made with the following USGS Quadrangles:

Upper Matecumbe Key, Florida, 1:24,000, 1971
Lower Matecumbe Key, Florida, 1:24,000, 1971

No significant differences were noted.

47. Comparison with Nautical Charts

Comparison was made with the following Nautical Charts:

11451 Page E 1:80,000, August 1975
851 1:40,000, October 1973
1250 1:80,000, January 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-00458, JOB PH 7120

51. METHODS

The shoreline was inspected from a small boat while cruising just off shore. Notes regarding apparent and fast shoreline, piers and other along shore details were made on the rectified photographs and discrepancy print.

~~Four~~ triangulation stations were recovered. Two are Tidal BM and are not shown on the sheet. They are Indian Key 2 1934 and Boutte 1934.

Six vertical control stations were recovered and identified. Two of these, C328 and D 329 are Tidal BM.. Near BM X276 is a tide staff like the ones used by the tide party identified on photograph 72L8589R. There is no record of a tidal station in this area in the field office. This should be verified by the tide branch.

There are no landmarks on this manuscript.

All known aids were located or vrified.

Eight known tide stations fall on this manuscript.
Shell Key NW Side, BOUTTE 1934, To be plotted.
Lignumvitae Key East, BM 1, 72L8426R
Lignumvitae Key West, Lignum No 2 1934, 72L8426R
Indian Key, INDIAN KEY 2 1934, To be plotted
Lower Matecumbe Key Hawk Chan., D 329, 72L8589R
Lower Matecumbe Key Florida Bay, C 328, 72L8587R
Matecumbe Harbor, BM 1, 72L8585R
Channel No 2, East, K69RESET 1936, 72L8584R

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

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 2/13/76

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

Review Report
TP-00458
September 1977

61. General

The map manuscript for Coastal Zone Map TP-00458 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:

Lower Matecumbe Key, Fla., 1971
Upper Matecumbe Key, Fla., 1971

No significant differences were found.

Comparison was made with chart 11449 (formerly C&GS 852).

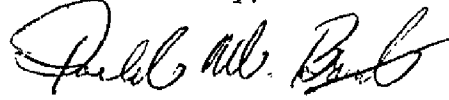
The chart shows a "platform" at 24°52' latitude and 80°42.2' longitude. This obstruction is not visible on the photography. The area was investigated by field edit and no remains was reported. The field editors' note is attached to the chart maintenance print.

63. thru 65. Inapplicable

66. Adequacy of Results and Future Surveys

Coastal Zone Map TP-00458 complies with the Instructions for NOS Cooperative Boundary Mapping, Job PH-7000 and the National Standards of Map Accuracy.

Submitted by,

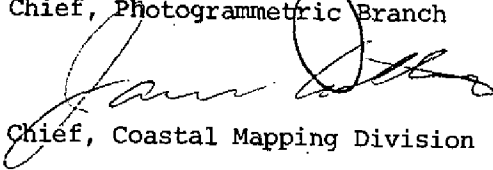


Donald M. Brant

Approved and forwarded;



Chief, Photogrammetric Branch



Chief, Coastal Mapping Division

9 Sept. 1977

GEOGRAPHIC NAMES

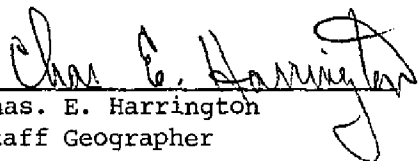
FINAL NAMES SHEET

PH-7120 (Florida Keys)

TP-00458

Bowlegs Cut	Lower Matecumbe Key
Channel Two	Matecumbe Bight
Everglades National Park	Matecumbe Harbor
Caloosa Cove Marina	Peterson Key Bank
Florida Bay	Peterson Keys
Indian Key	Race Channel
Indian Key Anchorage	Shell Key
Indian Key Channel	Straits of Florida
Lignumvitae Basin	Teatable Key Channel
Lignumvitae Channel	
Lignumvitae Key	
Lignumvitae Key Bank	

Approved


Chas. E. Harrington
Staff Geographer

STPL
VERSION
09/18/75

DEPARTMENT OF COMMERCE USA

* 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 DN	* C-C	* OF LOCATION	* CHARTS *
* NAME *	PUT TRIANGULATION NAMES IN ()	* LONGITUDE DP	* SEQ *	* OFFICE *	* FIELD
					* AFFECTED*

[illegible]

TYPE OF ACTION	NAMES OF RESPONSIBLE PERSONNEL	ORIGINATOR
POSITIONS DETERMINED AND/OR VERIFIED BY FIELD AND OFFICE ACTIVITIES	ROBERT R. WAGNER JOHN MCCLURE AND CHECKED BY JET BATTLE SKIP STEMBLE JAMES H. TAYLOR	FIELD REPRESENTATIVE OFFICE COMPILER DIGITIZER DATA PROCESSOR

LISTING

* SVY TP-80458 * NONFLOATING AIDS FOR CHARTS * RPT UNIT CMO ROCKVILLE, MD. * PAGE 2 OF 4 *

* JOB PH-7120 * TO BE CHARTED * LOCALITY LOWER MATECUMBE KEY * ORIGINATING ACTIVITY * * * * *

* PRJ R * DATE 05/03/76 * COMPILATION * * * * *

* DTM NA-1927 * * * * *

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

* CHARTING* RECORD REASON FOR DELETION * POSITION * METHOD AND DATE * CHARTS * * * * *

* NAME * PUT TRIANGULATION NAMES IN () * LATITUDE DM * LONGITUDE DP * OFFICE * FIELD * AFFECTED * * * * *

DYBN	8	HAWK CHANNEL	24	50	35.62	1096.0	219	*	P-L-3-8	*	11449	*
		CALOOSA COVE CHANNEL	80	44	51.10	1434.8	8	*	01/20/76	*	11451	*
DYBN	9	DITTO	24	50	38.15	1173.8	219	*	P-L-3-8	*	0110	*
			80	44	50.27	1411.5	9	*	01/20/76	*	0110	*
DYBN	10	DITTO	24	50	36.22	1114.4	219	*	72LC8585R	*	DITTO	*
			80	44	40.17	1127.9	10	*		*	DITTO	*
DYBN	11	DITTO	24	50	37.81	1163.3	219	*	DITTO	*	DITTO	*
			80	44	40.24	1129.8	11	*		*	DITTO	*
DYBN	12	DITTO	24	50	38.22	1176.0	219	*	72LC8585R	*	DITTO	*
			80	44	31.55	885.8	12	*		*	DITTO	*
DYBN	13	DITTO	24	50	39.10	1203.0	219	*	DITTO	*	DITTO	*
			80	44	31.83	893.7	13	*		*	DITTO	*
DYBN	14	DITTO	24	50	41.33	1271.7	219	*	72LC8585R	*	P-V-3-8	*
			80	44	25.31	710.6	14	*	01/20/76	*	DITTO	*
DYBN	15	DITTO	24	50	44.25	1361.5	219	*	72LC8585R	*	P-V-3-8	*
			80	44	23.49	659.5	16	*	01/20/76	*	DITTO	*

TYPE OF ACTION * NAMES OF RESPONSIBLE PERSONNEL * ORIGINATOR

POSITIONS DETERMINED AND/OR VERIFIED BY FIELD AND OFFICE ACTIVITIES

JOHN MCCLURE AND CHECKED BY JET BATTLE

SKIP STEMBLE

JAMES H. TAYLOR

FIELD REPRESENTATIVE

OFFICE COMPILER

DIGITIZER

DATA PROCESSER

STPL
VERSION
05/18/75

DEPARTMENT OF COMMERCE USA

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* * * * *	POSITIONS DETERMINED	* * * * *	ROBERT K. WAGNER	* * * * *	FIELD REPRESENTATIVE
* * * * *	AND/OR VERIFIED BY	* * * * *	* JOHN MCCLURE AND CHECKED BY JET BATTLE	* * * * *	OFFICE COMPILER
* * * * *	FIELD AND OFFICE	* * * * *	SKIP STEMBLE	* * * * *	DIGITIZER
* * * * *	ACTIVITIES	* * * * *	JAMES H. TAYLOR	* * * * *	DATA PROCESSER

National Archives Data

TP-00458

1 Discrepancy print

1 Field edit sheet

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

4 NOAA Forms 76-40 (Non floating aids or Landmarks)

Photographs:

72L(C)8417R and 8426R

72L8226R, 8228R, 8236R and 8338R

72L8484R, 8485R, 8587R, and 8589R thru 8591R