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

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

NOAA FORM 76-36A (3-72) — U. S. DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY: [X] ORIGINAL [ ] RESURVEY [ ] REVISED

SURVEY TP-00458

MAP EDITION NO. 1

MAP CLASS Final

JOB PH-7120

PHOTOGRAMMETRIC OFFICE: Rockville, Maryland

OFFICER-IN-CHARGE: Commander James Collins

LAST PRECEEDING MAP EDITION — TYPE OF SURVEY: [ ] ORIGINAL [ ] RESURVEY [ ] 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: [X] 1927 NORTH AMERICAN — OTHER (Specify)

2. VERTICAL: [X] MEAN HIGH-WATER [X] 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 METHOD: Analytic	BY	V. E. McNeel	11/74
	LANDMARKS AND AIDS BY	Inapplicable	
2. CONTROL AND BRIDGE POINTS METHOD: Coradi	PLOTTED BY	J. Taylor	5/75
	CHECKED BY	Inapplicable	
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	Inapplicable	
	CHECKED BY		
INSTRUMENT:	CONTOURS BY	Inapplicable	
SCALE:	CHECKED BY		
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	J. McClure	12/75
	CHECKED BY	C. Lewis	12/75
	CONTOURS BY	Inapplicable	
METHOD: Graphic: rectified photos	CHECKED BY		
	HYDRO SUPPORT DATA BY	Inapplicable	
SCALE:	CHECKED BY		
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	J. Battley	12/75
6. APPLICATION OF FIELD EDIT DATA	BY	J. McClure	4/76
	CHECKED BY	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		
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	D. Brant	3/77
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	R. Cator	3/78

NOAA FORM 76-36A — SUPERSEDES FORM C&GS 181 SERIES

* U.S. G.P.O. 1972-769382/582 REG.#6

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

TIDE STAGE REFERENCE
- ☐ PREDICTED TIDES
- ☐ REFERENCE STATION RECORDS
- ☒ TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY LEGEND
- (C) COLOR R
- (P) PANCHROMATIC
- (I) INFRARED B&W

TIME REFERENCE
- ZONE: Eastern — ☐ STANDARD
- MERIDIAN: 60th — ☒ 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	

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	EAST	SOUTH	WEST
No contemporary Survey	TP-00456	No contemporary survey	TP-00457

REMARKS
Final junctions will be made in the Coastal Mapping Section

* U. S. GOVERNMENT PRINTING OFFICE: 1974-768-078

NOAA FORM 76-36B(1)
(7-75)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

TIDE - 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. [X] FIELD INSPECTION OPERATION *Aug. 1972 [X] FIELD EDIT OPERATION Feb. 1976

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		R.R. Wagner	
2. HORIZONTAL CONTROL	RECOVERED BY	R.R. Wagner	2/76
	ESTABLISHED BY		
	PRE-MARKED OR IDENTIFIED BY		
3. VERTICAL CONTROL	RECOVERED BY	R.R. Wagner	2/76
	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	R.R. Wagner	2/76
	IDENTIFIED BY		
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION: [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [X] NO INVESTIGATION — BY		
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 [ ] NONE

6. 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 76-36C
(3-72)

* U.S. G.P.O. 1972-769381/567 REG.#6

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: 5/25/76
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

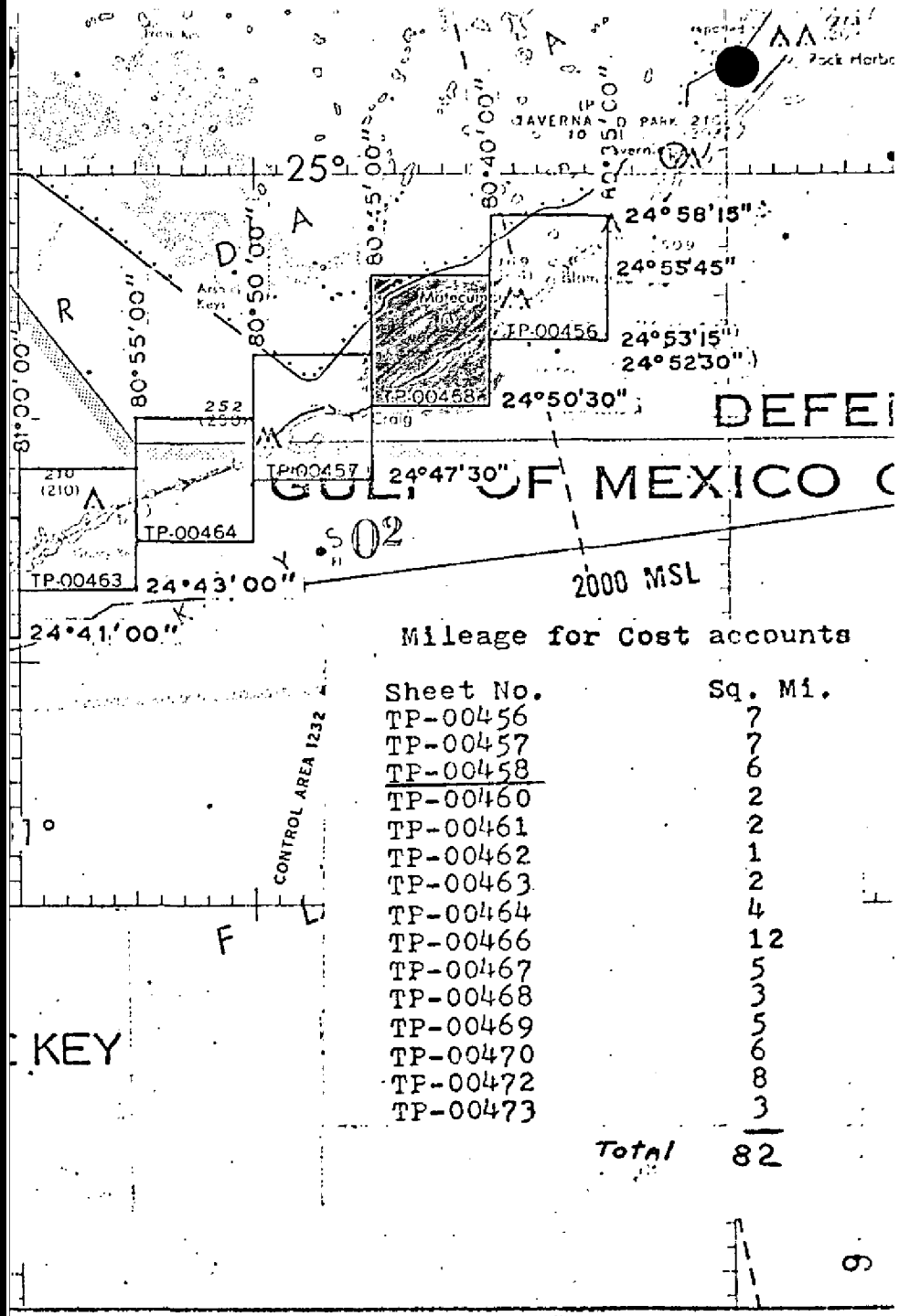
1. ☑ BRIDGING PHOTOGRAPHS; ☑ DUPLICATE BRIDGING REPORT; ☑ COMPUTER READOUTS.
2. ☑ CONTROL STATION IDENTIFICATION CARDS; ☑ FORM NOS 76-40 567 SUBMITTED BY FIELD PARTIES.
3. ☑ SOURCE DATA *(except for Geographic Names Report)* AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS *(This section shall be completed each time a new map edition is registered)*

	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY / MAP CLASS
SECOND EDITION	TP - _____ (2)	PH - _____	☐ REVISED ☐ RESURVEY ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	TP - _____ (3)	PH- _____	☐ REVISED ☐ RESURVEY ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	TP - _____ (4)	PH - _____	☐ REVISED ☐ RESURVEY ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

☆U. S. GOVERNMENT PRINTING OFFICE: 1973--778075/1077 REGION NO. 6



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 aera (Job PH-7120) is covered by photography taken in 1972 and 1974 on color,color infrared, and black-and-white infrared film. The black-and-white infrared film was tide-coordinated at MHW and MLW datums.

The field operations consisted of the following:

1. Premarking of horizontal control and photographing the area.

2. Establishing tidal datums

3. Field edit

Horizontal control was extended by analytical aerotriangulation method using the stereocomparator.

The interior details shown on the shoreline type maps were stereoscopically compiled from the rectified prints of the color or color infrared photography.

The tidal datum lines (MHWL and MLWL) and offshore details were compiled from tide-coordinated, black-and-white infrared photography by graphic methods. This photography was controlled by points determined by aerotriangulation and map detail compiled from the rectified photography. The rectified color or color infrared photography was also used as an aid to interpret culture and apparent shoreline.

All line work is scribed, approved symbols are shown in the marginal data of the map.

A registration copy for each map was prepared. The registration copy shows additional offshore details such as shoal and shallow areas used by the Marine Chart Division but not required on the Coastal Zone Maps. This copy of the map is labeled "Registration Copy" in the title block.

The following items will be registered in the NOS Archives:

1. A stable base copy of the Registration Copy

2. The Descriptive Report

Three (3) eight-time (210mm) reduction negatives will be made for each registered map and they will be filed in the following locations:

1. One (1) with Reproduction Division

2. Two (2) with the Photo Map and Imagery Information Section

FIELD REPORT
JOB PH-7120

This report is on work done in accordance with Instructions - FIELD - Job PH-7120; Horizontal Control for Aerotriangulation and Field Support for Aerial Photography; Coastal Boundary Mapping, Plantation Key to Big Pine Key, Florida, dated 7/6/72. Work began on June 19,1972 and ended August 15, 1972.

All modifications to the instructions were approved by Mr. Ron Brewer. Instructions to Air Photo Mission 2 changed the tolerance on MHW from 0.3 foot to 0.1 foot. Verbal instructions from Mr. Brewer cancelled flight lines 30-6,30-7, and 30-8 and corresponding premark work because tidal information was not available.

1. PREMARKING OF CONTROL

18 stations were paneled in accordance with the job diagram. A second order traverse with tellurometers 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

Mid 1/3 MHW Flown at 1335-1345 and reflown at 1350-1500 on 28 July when the staff at GRASSY KEY read 3.50-3.70. Mid 1/3 MLW South ½ of this line flown at 915-920 on 30 July when the GRASSY KEY staff read 2.80. North ½ 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 reflown 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 [illegible] 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

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 Stirp 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,

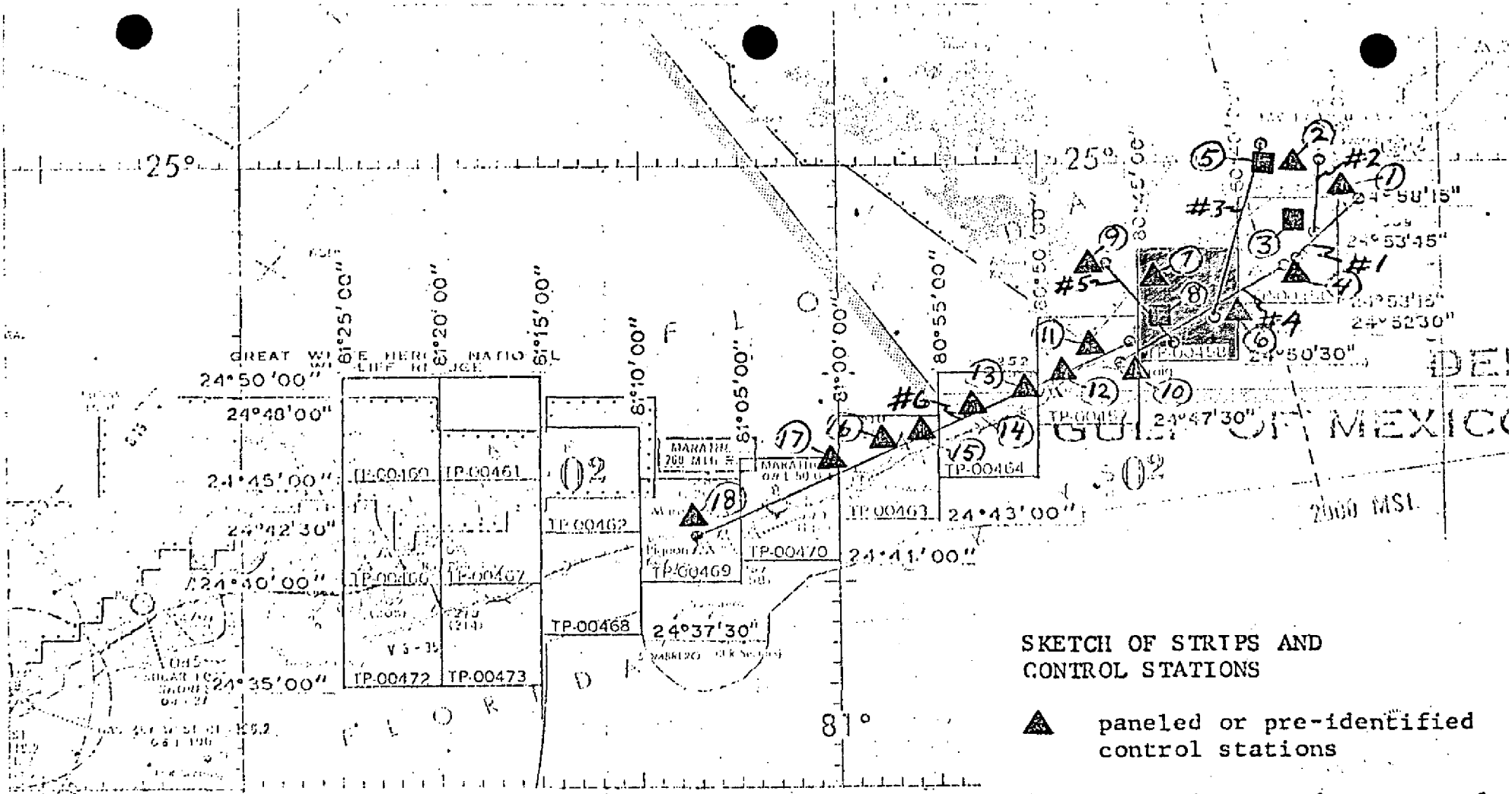
Victor E. McNeel

Victor McNeel

Approved and forwarded:

John D. Perrow, Jr.

John D. Perrow, Jr.
Chief, Aerotriangulation
Section



SKETCH OF STRIPS AND CONTROL STATIONS

▲ paneled or pre-identified control stations

▩ tie points used as control

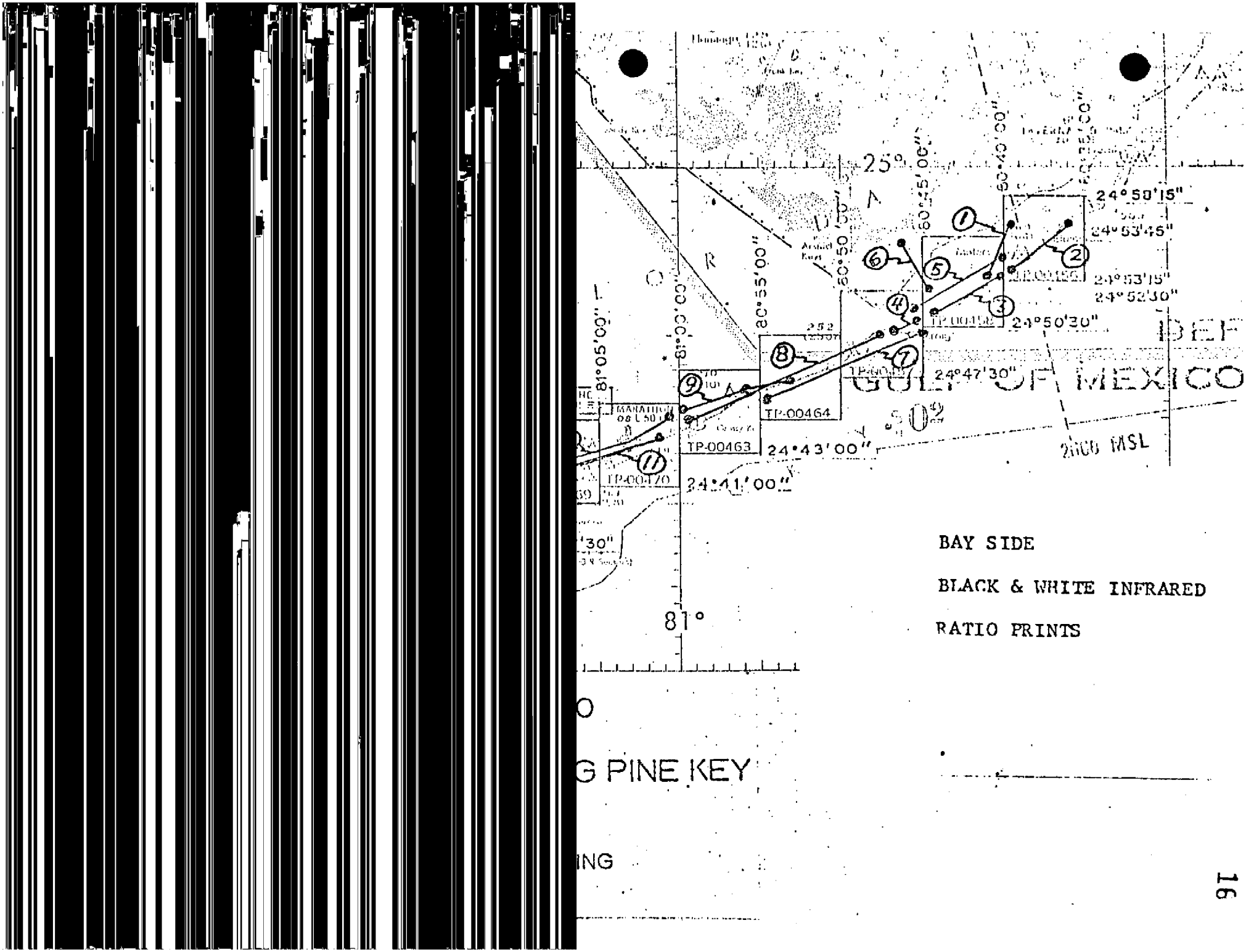
JOB PH-7120

PLANTATION KEY to BIG PINE KEY FLORIDA

SHORELINE MAPPING

REVISED 10/2/74

SCALE 1:10000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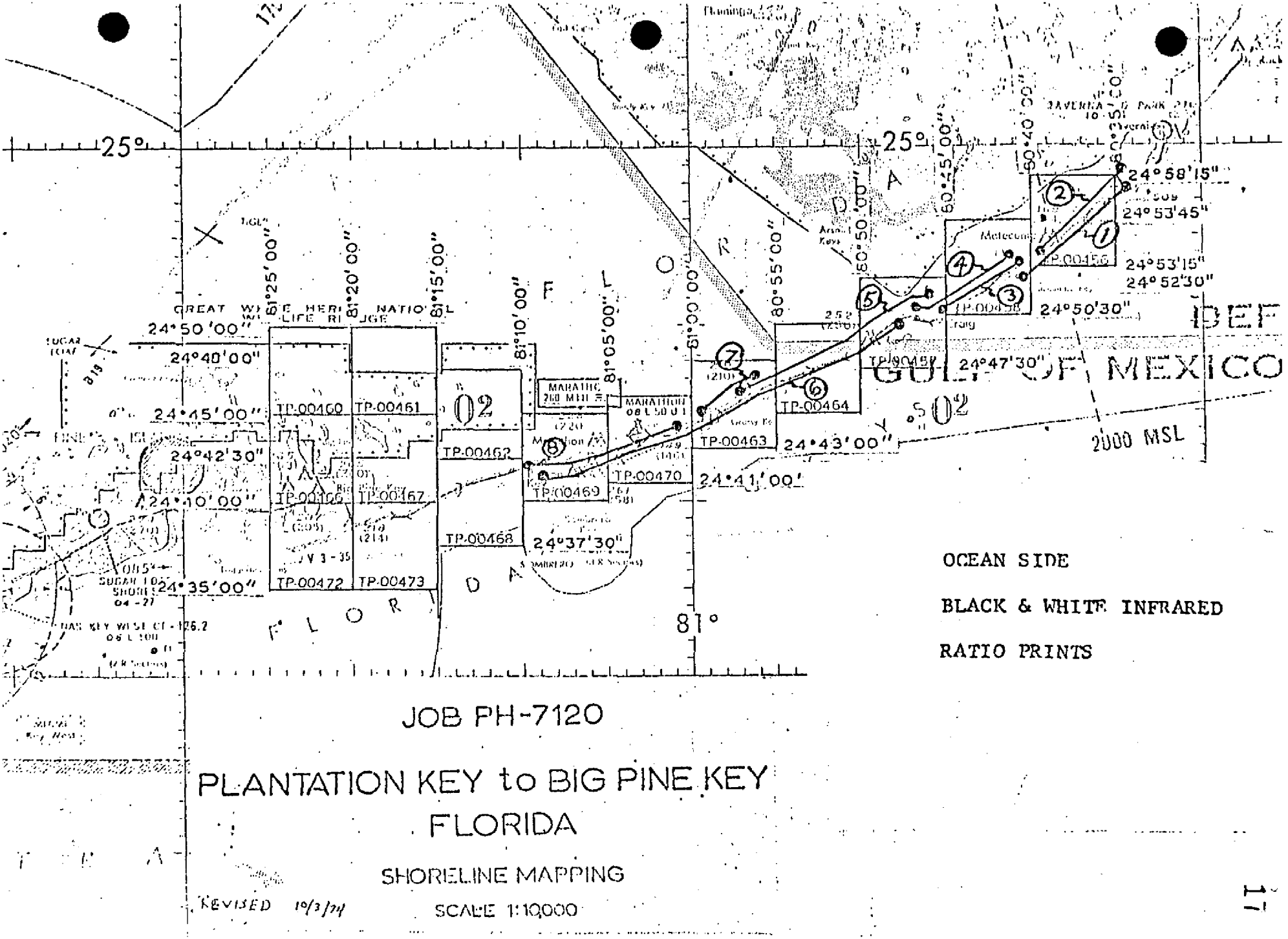
81°00'00"
80°55'00"
80°50'00"
80°45'00"
TP-00464
TP-00463
TP-00170
81°
GULF OF MEXICO
2NOO MSL
BAY SIDE
BLACK & WHITE INFRARED
RATIO PRINTS
G PINE KEY
ING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TP-00463
TP-00464
TP-00465
TP-00466
TP-00467
TP-00468
TP-00469
TP-00470
TP-00472
TP-00473
02
S02
MARATHON
GULF OF MEXICO
2000 MSL
FLORIDA
OCEAN SIDE
BLACK & WHITE INFRARED
RATIO PRINTS
JOB PH-7120
PLANTATION KEY to BIG PINE KEY
FLORIDA
SHORELINE MAPPING
REVISED 10/3/74
SCALE 1:10,000

CONTROL STATIONS	RESIDUALS X	RESIDUALS Y
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
. (698102) NAIL ND NM SUB. PT. B	+1.226	-1.084
5. (707802) TIE POINT	0.000	0.000
6. (425100) INDIAN KEY 2, 1934	-0.209	+0.088
7. (417101) BOWLEGS, 1934, Sub Point	+0.232	+0.097
8. (586802) TIE POINT	0.000	0.000
9. (418100) BUCHANAN, 1856	0.000	0.000
10. (440100) PARK, 1972	+0.235	-0.482
11. (443101) WATER, 1972, S.S.	-2.645	+2.829
12. (445100) JAWBONE, 1934	-1.162	+2.120
13. (446101) RESORT, 1972, S.S.	+0.369	-1.222
14. (449101) DICK, 1972, S.S.	-0.573	+0.489
15. (452100) GRASSY KEY, 1857	+2.561	-0.514
16. (454100) KEY 1935	+1.445	-0.055
17. (457101) BAMBOO, RM2	-1.118	-0.131
18. (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

FLORIDA– NOAA Coastal Boundary Mapping Program

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 - 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, 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:
Peter 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 manuscpipt.

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, 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 maintanance 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

Channel Two

Everglades National Park

Caloosa Cove Marina

Florida Bay

Indian Key

Indian Key Anchorage

Indian Key Channel

Lignumvitae Basin

Lignumvitae Channel

Lignumvitae Key

Lignumvitae Key Bank

Lower Matecumbe Key

Matecumbe Bight

Matecumbe Harbor

Peterson Key Bank

Peterson Keys

Race Channel

Shell Key

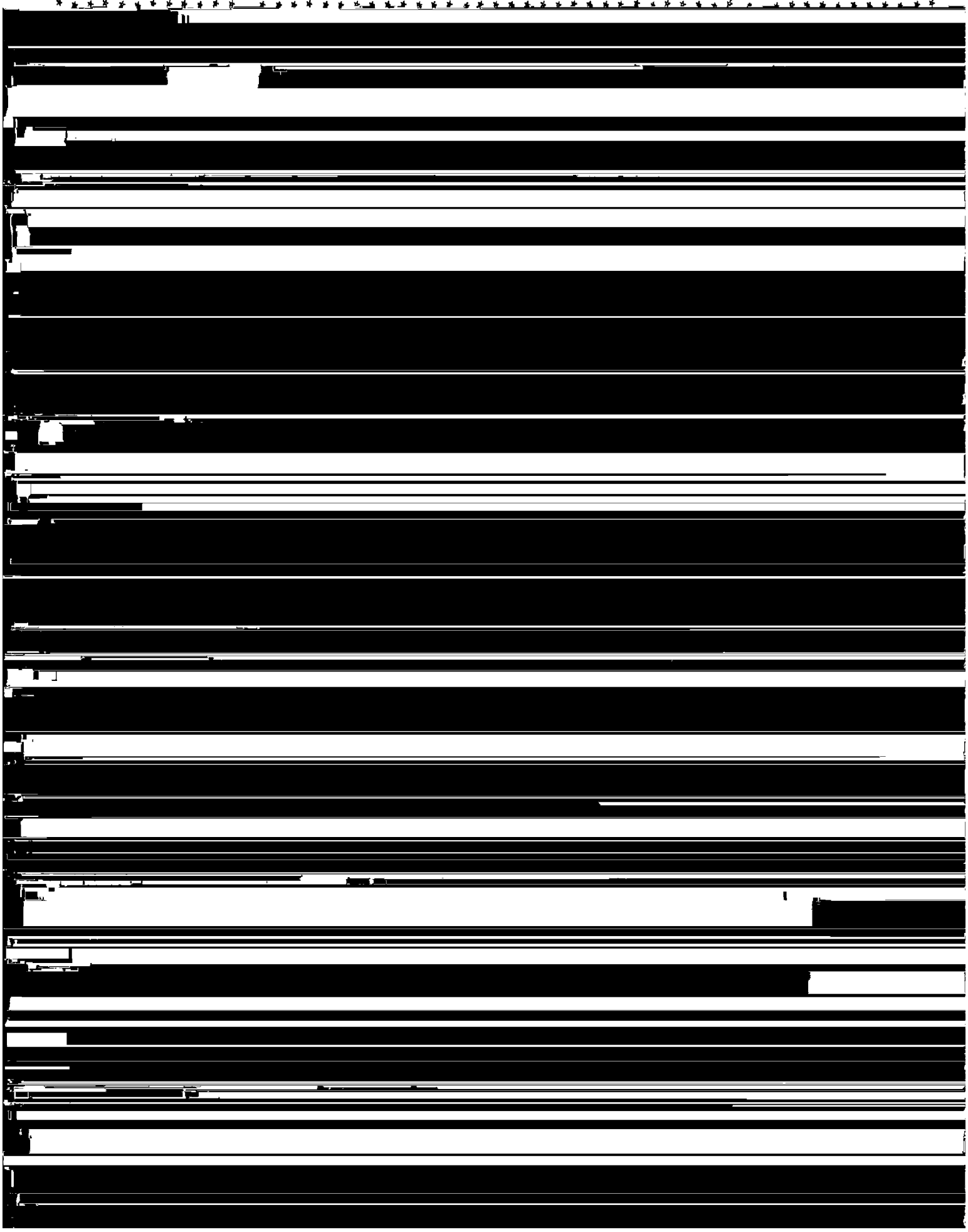
Straits of Florida

Teatable Key Channel

Approved

Chas. E. Harrington

Chas. E. Harrington
Staff Geographer



76-40 PHOTOGRAMMETRIC BRANCH [illegible]IONAL OCEAN SURVEY NOAA STPL
LISTING COASTAL MAPPING DIVISION DEPARTMENT OF COMMERCE USA [illegible]ERSION
[illegible]/18/75

SVY TP-00458		RPT UNIT CMD ROCKVILLE, MD.	PAGE 2 OF 4
JOB PH-7120	NONFLOATING AIDS FOR CHARTS	STATE FLORIDA	
PRJ R	TO BE CHARTED	LOCALITY LOWER MATECUMBE KEY	ORIGINATING ACTIVITY
DTM NA-1927		DATE 05/03/76	COMPILATION

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

CHARTING NAME	DESCRIPTION RECORD REASON FOR DELETION PUT TRIANGULATION NAMES IN ( )	POSITION LATITUDE LONGITUDE	DM DP	CODES C-C SEQ	METHOD AND DATE OF LOCATION OFFICE	FIELD	CHARTS AFFECTED
DYBN 8	HAWK CHANNEL CALOOSA COVE CHANNEL	24 50 35.62 80 44 51.10	1096.0 1434.8	219 8		P-L-3-8 01/20/76	11449 11451
DYBN 9	DITTO	24 50 38.15 80 44 50.27	1173.8 1411.5	219 9		P-L-3-8 01/20/76	DITTO
DYBN 10	DITTO	24 50 36.22 80 44 40.17	1114.4 1127.9	219 10	72LC8585R	DITTO	DITTO
DYBN 11	DITTO	24 50 37.81 80 44 40.24	1163.3 1129.8	219 11		DITTO	DITTO
DYBN 12	DITTO	24 50 38.22 80 44 31.55	1176.0 885.8	219 12	72LC8585R	DITTO	DITTO
DYBN 13	DITTO	24 50 39.10 80 44 31.83	1203.0 893.7	219 13		DITTO	DITTO
DYBN 14	DITTO	24 50 41.33 80 44 25.31	1271.7 710.6	219 14	72LC8585R	P-V-3-8 01/20/76	DITTO
	DYBN 15 NOT IN PLACE AT TIME OF EDIT						
DYBN 16	HAWK CHANNEL CALOOSA COVE CHANNEL	24 50 44.54 80 44 21.99	1370.4 617.4	219 15	72LC8585R	P-V-3-8 01/20/76	DITTO
DYBN 17	DITTO	24 50 44.25 80 44 23.49	1361.5 659.5	219 16	72LC8585R	P-V-3-8 01/20/76	2 DITTO

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 BATTLEY SKIP STEMBLE JAMES H. TAYLOR	FIELD REPRESENTATIVE OFFICE COMPILER DIGITIZER DATA PROCESSER

SVY TP-00458	NONFLOATING AIDS FOR CHARTS	RPT UNIT CMD ROCKVILLE, MD.	PAGE 3 OF 4
JOB PH-7120	TO BE CHARTED	STATE FLORIDA	
PRJ R		LOCALITY LOWER MATECUMBE KEY	ORIGINATING ACTIVITY
DTM NA-1927		DATE 05/03/76	COMPILATION

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CHARTING NAME	DESCRIPTION RECORD REASON FOR DELETION PUT TRIANGULATION NAMES IN ( )	POSITION LATITUDE LONGITUDE	DM DP	CODES C-C SEQ	METHOD AND DATE OF LOCATION OFFICE	FIELD	CHARTS AFFECTED
DYBN 18	HAWK CHANNEL CALOOSA COVE CHANNEL	24 50 47.66 80 44 20.24	1466.4 568.3	219 17	72LC8585R	P-V-3-8 01/20/76	11449 11451
DYBN 19	DITTO	24 50 48.77 80 44 20.91	1500.6 587.1	219 18	DITTO	DITTO	DITTO
DYBN 20	DITTO	24 50 52.60 80 44 16.81	1618.4 472.0	219 19	DITTO	DITTO	DITTO
DYBN 21	DITTO	24 50 53.44 80 44 17.41	1644.3 488.8	219 20	DITTO	DITTO	DITTO
	BISCAYNE BAY - LONG KEY						
LIGHT 1	UPPER MATECUMBE	24 54 58.82 80 40 52.55	1809.8 1474.6	200 26	72LC8427R	P-V-3-8 01/27/76	DITTO
DYBN 91A	LIGNUMVITAE BAY	24 55 17.98 80 41 56.07	553.2 1573.3	219 21		P-L-3-8 01/27/76	DITTO
DYBN 92	BOWLEGS CUT	24 54 23.81 80 43 45.95	732.6 1289.5	219 22		P-L-3-8 01/27/76	DITTO
LIGHT 93	DITTO	24 54 22.53 80 43 44.18	693.2 1239.8	200 27	72LC8416R	P-V-3-8 01/27/76	DITTO
DYBN 95	DITTO	24 54 13.80 80 43 51.38	424.6 1441.9	219 23		P-L-3-8 01/27/76	DITTO

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 BATTLEY SKIP STEMBLE JAMES H. TAYLOR	FIELD REPRESENTATIVE OFFICE COMPILER DIGITIZER DATA PROCESSER

SVY TP-00458		RPT UNIT CMD ROCKVILLE, MD.	PAGE 4 OF 4	
JOB PH-7120	NONFLOATING AIDS FOR CHARTS	STATE FLORIDA		
PRJ R	TO BE CHARTED	LOCALITY LOWER MATECUMBE KEY	ORIGINATING ACTIVITY	
OTM NA-1927		DATE 05/03/76	COMPILATION	

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CHARTING NAME	DESCRIPTION RECORD REASON FOR DELETION PUT TRIANGULATION NAMES IN ( )	POSITION LATITUDE LONGITUDE	DM DP	CODES C-C SEQ	METHOD AND DATE OF LOCATION OFFICE	FIELD	CHARTS AFFECTED
DYBN 96	BISCAYNE BAY - LONG KEY BOWLEGS CUT	24 54 16.11 80 43 51.49	495.7 1445.0	219 24		P-L-3-8 01/27/76	11449 11451
DYBN 97	DITTO	24 54 6.10 80 43 57.73	187.7 1620.2	219 25		P-L-3-8 01/27/76	DITTO
LIGHT 98	DITTO	24 54 7.21 80 43 58.83	221.8 1651.0	200 28		P-V-3-8 01/27/76	DITTO
LIGHT 2	LOWER MATECUMBE	24 51 24.36 80 44 46.67	749.5 1310.2	200 29	72LC8416R	P-V-3-8 01/21/76	DITTO

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 BATTLEY SKIP STEMBLE JAMES H. TAYLOR	FIELD REPRESENTATIVE OFFICE COMPILER DIGITIZER 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