Original

TP-00463

TP-00463

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-00463

Classification No. Final *Edition No.* 1

LOCALITY

State Florida

General Locality Monroe County

Locality Duck Key to Fat Deer Key

1972 TO 1976

REGISTRY IN ARCHIVES

DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1973-761-775

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- 00463
MAP EDITION NO. (1)
MAP CLASS Final
JOB PH. 7120

PHOTOGRAMMETRIC OFFICE: Rockville, MD.

OFFICER-IN-CHARGE: Cdr. J. 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 *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 ZONE
5. SCALE: 1:10,000		STATE: ; ZONE:

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: analytic	BY	V. McNeel	Nov 74
	LANDMARKS AND AIDS BY	Inapplicable	
2. CONTROL AND BRIDGE POINTS METHOD: Corida	PLOTTED BY	J. Taylor	May 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	Feb 76
	CHECKED BY	J Battley	Feb 76
METHOD: Graphic-rectified photos	CONTOURS BY	Inapplicable	
	CHECKED BY		
SCALE:	HYDRO SUPPORT DATA BY	Inapplicable	
	CHECKED BY		
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	J. Battley D. Brant	Feb 76
6. APPLICATION OF FIELD EDIT DATA	BY	J. McClure	March 76
	CHECKED BY	J Battley	April 76
7. COMPILATION SECTION REVIEW	BY	C. Lewis	Oct. 76
8. FINAL REVIEW	BY	D. Brant	Dec 76
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY		
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	D. Brant	Nov 77
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	R. Cator	Mar. 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

COMPILATION SOURCES

TP-00463

1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild RC-8L 6" focal length

TIDE STAGE REFERENCE
- [ ] PREDICTED TIDES
- [ ] REFERENCE STATION RECORDS
- [X] TIDE CONTROLLED PHOTOGRAPHY

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

TIME REFERENCE
ZONE: Eastern — [ ] STANDARD
MERIDIAN: 75th — [XX] DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
72L(C)8452-8456	8/12/72	844	1:20,000	The stage of tide is inapplicable for the color photography.
72L7927-7932R	7/28/72	1316	1:20,000	
72L7946-7949R	7/28/72	1332	1:20,000	
72L8249-8255R	8/8/72	1711	1:20,000	Refer to 76-36B(1) for tide information
72L7970R	7/28/72	1349	1:20,000	
72L8037-8042R	7/28/72	1449	1:20,000	
72L8092-8097R	7/39/72	1018	1:20,000	
72L8254R	8/11/72	1652	1:20,000	

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the MHW line is the tide-coordinated black-and-white infrared photography listed in item 1. The rectified color photography was used as an aid for interpreting cultural features and compiling the limits of vegetation and shoal and shallow areas.

Where the shoreline was obscured by vegetation 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-00464	No contemporary Survey	TP-00470

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 – 00463

LOCATION AND PHOTOGRAPHY	TIDE STATIONS *(In operation at time of photography)*	STAGE OF TIDE	MEAN RANGE
STRAITS OF FLORIDA			
72L7927 - 7932R	Duck Key	-0.01 MHW	1.35'
72L7946 - 7949R	Duck Key	-0.18 MHW	
72L8249 - 8255R	Duck Key	-0.08 MLW	
FLORIDA BAY			
72L 7970R	Vaca Key, N. Side	0.00 MHW	0.66'
72L8037 - 8042 R	Grassy Key, N. Side	-0.01 MHW	0.89'
72L8092 - 8097R	Vaca Key, N. Side	+0.09 MLW	0.66'
72L8354R	Lower Matecumbe Key, Fla. Bay	+0.03 MLW	0.78'

REMARKS:

NOAA FORM 76-36C
(3-72)

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

HISTORY OF FIELD OPERATIONS TP-00463

I. [X] FIELD INSPECTION OPERATION * Aug 1972 [X] FIELD EDIT OPERATION March 1976

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		R. R. Wagner	
2. HORIZONTAL CONTROL	RECOVERED BY	R. R. Wagner	3/76
	ESTABLISHED BY	Inapplicable	
	PRE-MARKED OR IDENTIFIED BY	Inapplicable	
3. VERTICAL CONTROL	RECOVERED BY	R. R. Wagner	3/76
	ESTABLISHED BY	Inapplicable	
	IDENTIFIED BY	R. R. Wagner	3/76
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED *(Triangulation Stations)* BY	R. R. Wagner	3/76
	LOCATED *(Field Methods)* BY	R. R. Wagner	3/76
	IDENTIFIED BY	R. R. Wagner	3/76
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	3/76
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 to Field Report	72L8452R	H328, Q278
		72L8453R	B279
		72L8454R	Z277
		72L8455R	Y277
			W277

3. PHOTO NUMBERS *(Clarification of details)*
72L8451R, thru 8456R

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
Landmarks and non floating aids were either located or verified by Field Edit.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
		72L8453R	TV Tower

5. GEOGRAPHIC NAMES: [ ] REPORT [X] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [X] NONE

7. SUPPLEMENTAL MAPS AND PLANS

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

* The field report is bound with this Descriptive Report

NOAA FORM 76-36C
(3-72)

☆U.S. Government Printing Office: 1975 – 665-661/1110, Region No. 6

NOAA FORM 76-36D
(3-72)

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

RECORD OF SURVEY USE TP-00463

I. MANUSCRIPT COPIES

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

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
		5/25/76	Two (2) Forms 76-40 submitted as final
			report to Marine Charts

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:

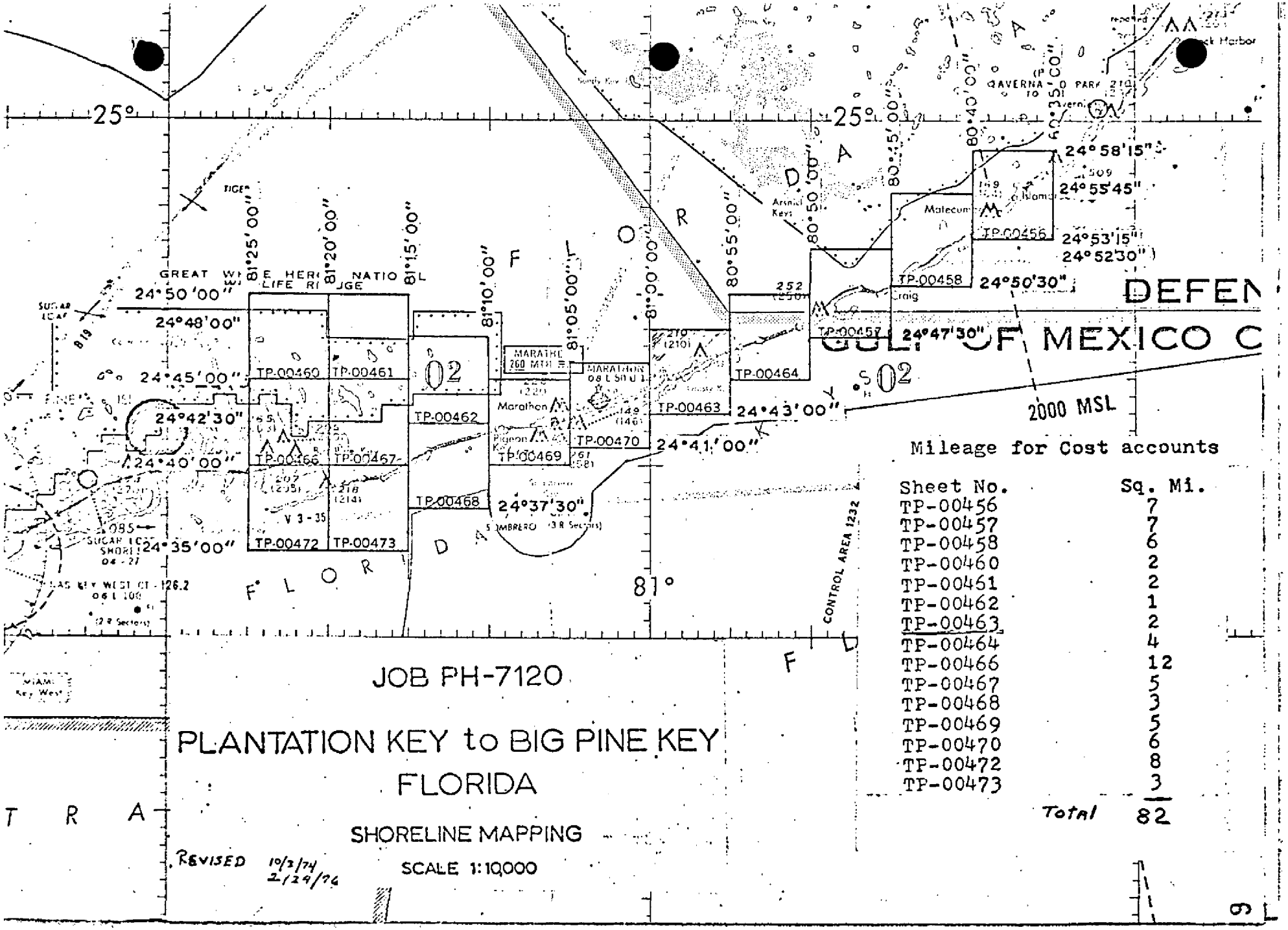
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

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

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

NOAA FORM 76-36D

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


25°
81°25'00"
81°20'00"
81°15'00"
81°10'00"
81°05'00"
81°00'00"
80°55'00"
80°50'00"
80°45'00"
80°40'00"
80°35'00"
24°50'00"
24°48'00"
24°45'00"
24°42'30"
24°40'00"
24°35'00"
24°58'15"
24°55'45"
24°53'15"
24°52'30"
24°50'30"
24°47'30"
24°43'00"
24°41'00"
24°37'30"
TP-00460
TP-00461
TP-00462
TP-00463
TP-00464
TP-00466
TP-00467
TP-00468
TP-00469
TP-00470
TP-00472
TP-00473
TP-00456
TP-00457
TP-00458
02
2000 MSL
81°
FLORIDA
GULF OF MEXICO
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
JOB PH-7120
PLANTATION KEY to BIG PINE KEY
FLORIDA
SHORELINE MAPPING
SCALE 1:10000
REVISED 10/2/74
2/24/76

SUMMARY
For
TP-00456 thru TP-00458
TP-00460 thru TP-00464
TP-00466 thru TP-00473

Coastal Zone Map TP-00463 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

This report is on work done in accordance with Instructions - FIELD - Job PH-7120; Horizontal Control for Aerotriangulatdion 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 tellurmeters 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, Colorada.

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 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 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. 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. Reflown on 13 August at 1120-1122 when the staff read [illegible] 3.10. MLW Flown on 11 August at 1534-1537 when the staff read 2.40 and reflown 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. Reflown on 12 August at 1621-1624 when the staff read 2.68.

Line 30-2. North half controlled by TAVERNEIR, FLA. BAY MWL. Flown on 11 August at 1556-1601 when staff read 2.68-2.67. Reflown 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 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
Strin No. 5, 12 Aug. 72L 8415R-8418R

The quality and definition of the photography was adequate.

Respectfully submitted,

Victor E. McNeel

Victor McNeel

Approved and forwarded:

John D. Perrow, Jr.

John D. Perrow, Jr.
Chief, Aerotriangulation
Section

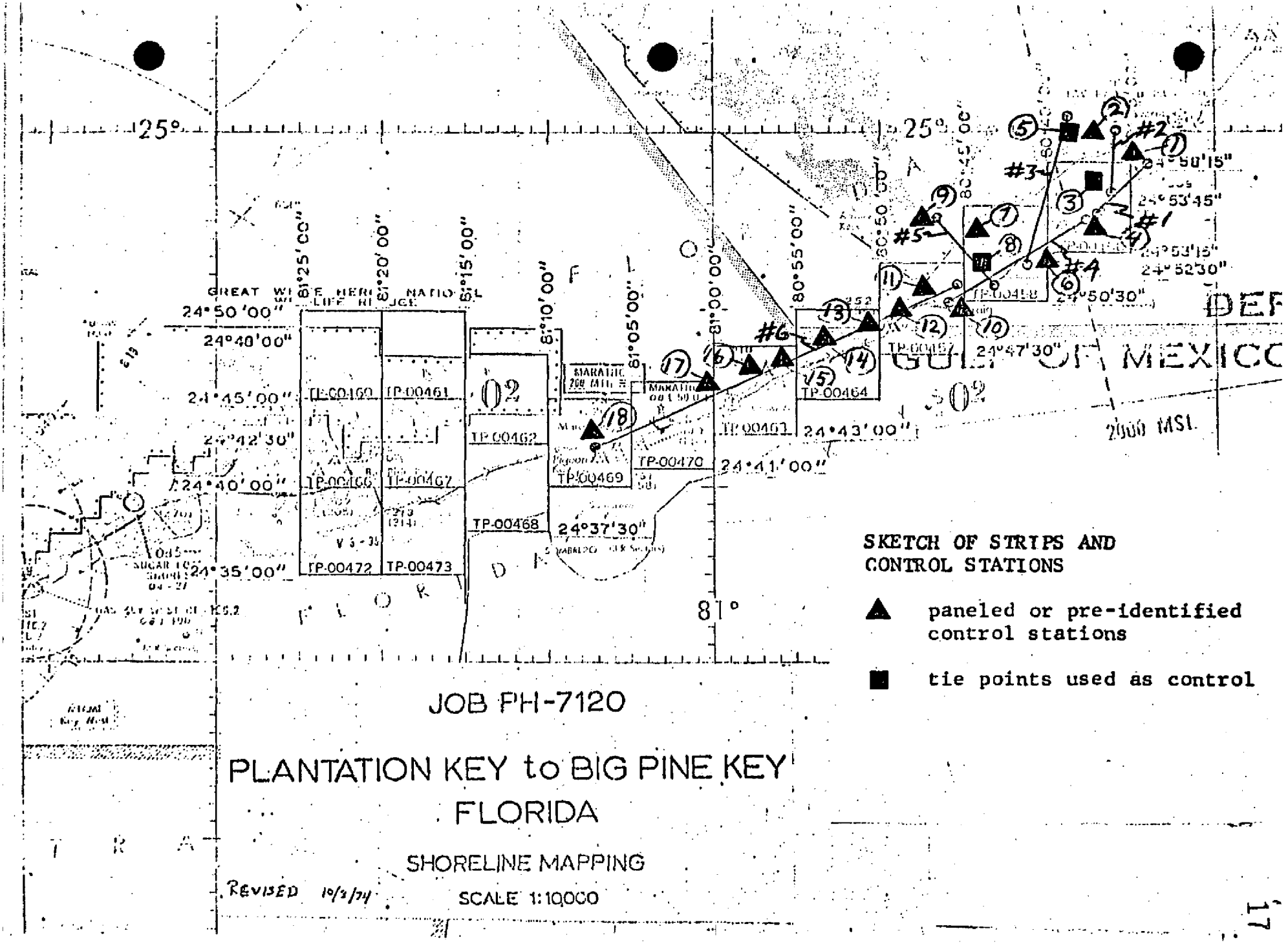
CONTROL STATIONS	RESIDUALS	
	X	Y
1. (695101) SNAKE, 1934, Sub Point	+3.024	-1.570
2. (707101) EAST, 1859, RM1	0.000	0.000
3. (697801) TIE POINT	0.000	0.000
4. (698101) NAIL ND NM SUB. PT. A	-0.246	+0.994
. (698102) NAIL ND NM SUB. PT. B	+1.226	-1.084
5. (707802) TIE POINT	0.000	0.000
6. (425100) INDIAN 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

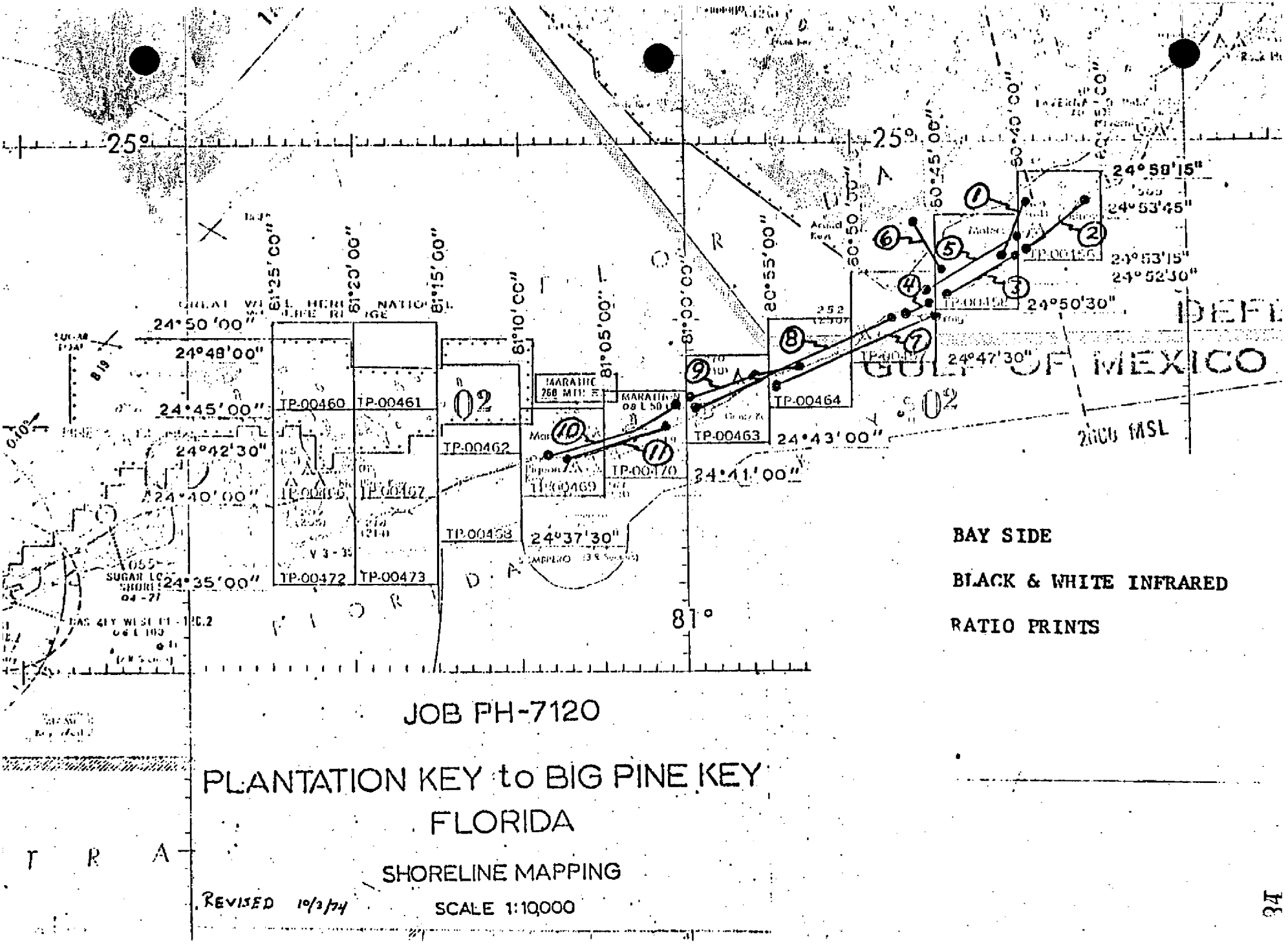
BAY SIDE BLACK AND WHITE
INFRARED RATIO PRINTS

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


25°
81°25'00"
81°20'00"
81°15'00"
81°10'00"
81°05'00"
81°00'00"
80°55'00"
24°50'00"
24°45'00"
24°42'30"
24°40'00"
24°37'30"
24°35'00"
24°43'00"
24°41'00"
24°47'30"
24°50'30"
24°53'15"
24°53'45"
TP-00460
TP-00461
TP-00462
TP-00466
TP-00467
TP-00468
TP-00469
TP-00470
TP-00471
TP-00472
TP-00473
TP-00464
02
#1
#2
#3
#4
#5
#6
GULF OF MEXICO
2000 MSL
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 10/3/74
SCALE 1:10000



JOB PH-7120

PLANTATION KEY to BIG PINE KEY
FLORIDA

SHORELINE MAPPING

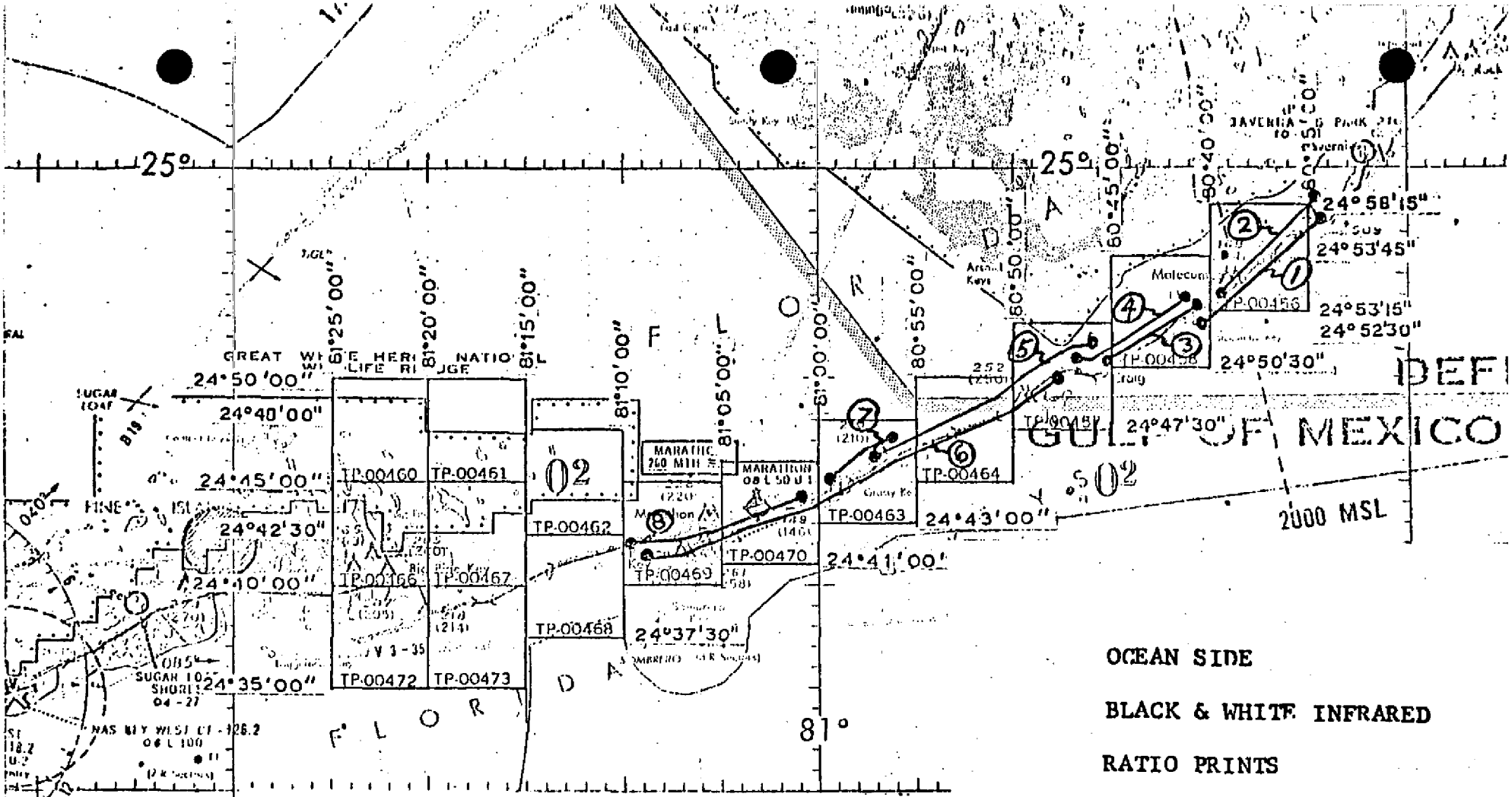
REVISED 10/3/74

SCALE 1:10,000

BAY SIDE

BLACK & WHITE INFRARED

RATIO PRINTS



JOB PH-7120

PLANTATION KEY to BIG PINE KEY
FLORIDA

SHORELINE MAPPING

REVISED 10/3/74

SCALE 1:10000

OCEAN SIDE

BLACK & WHITE INFRARED

RATIO PRINTS

FLORIDA– NOAA Coastal Boundary Mapping Program

Horizontal Control

Map TP– 00463

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
KEY 1935	Book 425 P.17, 28, 29, 33, 38; GP 373 Fla. Vol. 1; PC P. 95 Fla. E. Zone
Willie 1857-1934	Book 425 P. 18, 29, 40; GP 373 Fla. Vol. 1; PC P. 95 Fla. E. Zone
Grassy Key 1857-1909	Book 425 P. 18, 29, 40; GP 373 Fla. Vol. 1 PC P. 95 Fla. E. Zone
East Turtle Shoal Beacon No. 45 1935	Book 425 P. 18, 26; GP 376 Fla. Vol. 1 PC P. 96 Fla. E. Zone

FIELD EDIT REPORT, MAP TP-00463, JOB PH 7120

51. METHODS

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

Two triangulation stations are recommended . WILLIE 1857 1909 should be plotted.

six
~~Five~~ vertical control stations were recovered and identified.

All known aids were located or verified.

Two towers are recommended for charting.

Three tidal stations are on this sheet

Tide Station	Bench Mark	Photograph
Grassy Key Fla. Bay	H 328	72L8452R
Grassy Key Atlantic	No 3	72L8453R
Toms Harbor Chan	Q 278	72L8452R

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

52. ADEQUACY OF COMPILATION

Adequate after application of field edit.

53. Map ACCURACY

Not test required.

54. RECOMMENDATION

None

55. EXAMINATION OF PROOF COPY

Not required.

Submitted By

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

Compilation Report
TP-00463
February 1976

31. Delineation

All features were delineated by graphic compilation.

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

The photography did not cover East Turtle Shoal and Grassy Key Bank. The field editor is requested to locate any features above the mean low water datum.

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 prints of the color infrared photography.

35. Shoreline and Alongshore Detail

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

36. Offshore Details - See item 31.

37. Landmarks and Aids

Refer to form 76-40. One landmark (microwave tower) was located during compilation and will be verified during field edit. All other aids and/or landmarks are to be located by field edit.

38. Control for Future Surveys - None

39. Junctions - Refer to form 76-36B.

40. Horizontal and Vertical Accuracy - Sufficient

41. thru 45. Inapplicable

46. Comparison with Existing Maps

Comparison was made with the following USGS 7 1/2 minute topographic quadrangles:

Crawl Key, Fla., 1971
Grassy Key, Fla., 1971

No significant differences were noted.

47. Comparison with Nautical Charts

Comparison was made with the following nautical charts.

1250 1:80,000, Jan. 12, 1974
11449 (both sides) 1:40,000, Aug. 23, 1975
11451 (Page G) 1:80,000, Aug. 16, 1975

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

Review Report
TP-00463
November 1977

61. General

The map manuscript for Coastal Zone Map TP-00463 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:

Crawl Key, Florida 1971

Grassy Key, Florida 1971

No significant differences were found.

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

Chart 11449 shows features that are not visible on the photography and were investigated during Field Edit. Copies of Field Edit notes are attached to the Chart Maintenance Print.

63. thru 65. Inapplicable

66. Adequacy of Results and Future Surveys

Coastal Zone Map TP-00463 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

17 Sept. 1977

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7120 (Florida Keys)

TP-00463

Burnt Point

Channel Key

Crawl Key

Deer Key

Duck Key

Duck Key Channel

East Turtle Shoal

Fat Deer Key

Florida Bay

Grassy Key

Grassy Key Bank

Long Point Key

Straits of Florida

Toms Harbor Channel

Toms Harbor Cut

Toms Harbor Keys

Approved

Chas. E. Harrington

Chas. E. Harrington
Staff Geographer - C51x2

76-40 LISTING | PHOTOGRAMMETRIC BRANCH COASTAL MAPPING DIVISION | NATIONAL OCEAN SURVEY DEPARTMENT OF COMMERCE USA NOAA | STPL VERSION 09/08/75

SVY TP-00463	NONFLOATING AIDS FOR CHARTS TO BE CHARTED	RPT UNIT CMD ROCKVILLE, MD.	PAGE 1 OF 2
JOB PH-7120		STATE FLORIDA	
PRJ R		LOCALITY DUCK TO FAT DEER 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
	HAWK CHANNEL						
LIGHT 45	(EAST TURTLE SHOAL BEACON NO.45, 1935)	24 43 27.16 80 55 59.66	835.7 1676.7	NOT DGTZD	TRIANG REC 03/11/76		11449 11451 1250
	LONG KEY - MOSER CHANNEL						
LIGHT 9	CHANNEL KEY	24 47 42.82 80 55 41.13	1317.5 1155.3	200 1	F-P-L-6-3 03/11/76		DITTO
LIGHT 11	GRASSY KEY	24 47 34.15 80 57 33.00	1050.7 926.9	200 2	F-P-L-6-3 03/11/76		DITTO

* REFLECTS NEW DATUM

27

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

76-40 LISTING | PHOTOGRAMMETRIC BRANCH COASTAL MAPPING DIVISION | NATIONAL OCEAN SURVEY DEPARTMENT OF COMMERCE USA | NOAA | STPL VERSION 09/08/75

SVY TP-00463	LANDMARKS FOR CHARTS TO BE CHARTED	RPT UNIT CMD ROCKVILLE, MD.	PAGE 2 OF 2
JOB PH-7120		STATE FLORIDA	
PRJ R		LOCALITY DUCK TO FAT DEER KEY	ORIGINATING ACTIVITY
DTM NA-1927		DATE 05/03/76	COMPILATION

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

CHARTING NAME	DESCRIPTION RECORD REASON FOR DELETION PUT TRIANGULATION NAMES IN ( )	POSITION LATITUDE DM LONGITUDE DP	CODES C-C SEQ	METHOD AND DATE OF LOCATION OFFICE	FIELD	CHARTS AFFECTED
MICRO TOWER	RADIO TOWER HT=81(86)	24 45 45.91 1412.6 80 56 57.74 1622.3	86 3	72LC8455R 08/12/72	F-V-VIS 03/11/76	11449 11451 1250
TV TOWER	TOWER TO RECEIVE TELEVISION HT=181(186)	24 46 12.43 382.4 80 56 36.92 1037.2	86 4	72LC8453R	P-5 03/11/76	DITTO

28

TYPE OF ACTION	NAMES OF RESPONSIBLE PERSONNEL	ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD	ROBERT R. WAGNER	PHOTO FIELD PARTY
POSITIONS DETERMINED AND/OR VERIFIED BY FIELD AND OFFICE ACTIVITIES	ROBERT R. WAGNER	FIELD REPRESENTATIVE
	JOHN MCCLURE AND CHECKED BY PAT. DEMPSEY	OFFICE COMPILER
	SKIP STEMBLE	DIGITIZER
	JAMES H. TAYLOR	DATA PROCESSER

National Archives Data

for

TP-00463

1 Discrepancy print (paper copy)

1 Field Edit sheet (stable base copy)

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

2 NOAA Forms 76-40 (Non floating Aids or Landmarks for Charts)

4 Pages of field notes

Photography:

72-L-8452R thru 72-L-8457R