

Original

TP-00452

P-00452

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-7119 Map No. TP-00452

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

LOCALITY

State Florida

County Monroe County

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 OFFICER-IN-CHARGE Commander James Collins		SURVEY TP-00452 MAP EDITION NO. 14 MAP CLASS Final JOB PH-7119	
I. INSTRUCTIONS DATED		LAST PRECEDING MAP EDITION	
1. OFFICE General Instructions-OFFICE-NOS Cooperative Coastal Boundary Mapping, Job PH-7000 December 9, 1975 Supplement I, November 4, 1974 Supplement III, October 24, 1974 NOTE: Office & field edit instructions (1975) incorporate applicable prior operational instructions.		2. FIELD Aerial Photography 9/2/69 Supplement I, 1/28/70 Supplement II, 3/26/70 Supplement III, 8/10/72 Field Edit (PH-7000 General Instructions for Florida Coastal Zone Mapping) 1973	
II. DATUMS		OTHER (Specify)	
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) Mean water level Refer 76-36 B-1: Remarks	
3. MAP PROJECTION Transverse Mercator		4. GRID(S)	
5. SCALE 1:10,000		STATE Florida	
6. SCALE 1:10,000		ZONE East	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY		V. McNeel	6/74
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradamat CHECKED BY		R. Robertson Inapplicable	1/75
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY		Inapplicable	
INSTRUMENT: CONTOURS BY SCALE: CHECKED BY		Inapplicable	
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY		P. Gibson C. Lewis	4/75 4/75
METHOD: Graphic CONTOURS BY SCALE: 1:10,000 CHECKED BY		Inapplicable	
HYDRO SUPPORT DATA BY CHECKED BY		Inapplicable	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		J. Battley D. Brant	4/75
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		J. McClure J. Battley	10/75 12/75
7. COMPILATION SECTION REVIEW BY		J. Battley	12/75
8. FINAL REVIEW BY		D. Brant	6/75
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY			
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		D. Brant	8/76
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		R.T. CATRK	9/76

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

TP-00452

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) WILD RC-8 K&L Camera 6" focal length		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR IR (P) PANCHROMATIC (I) INFRARED B&W		ZONE Eastern	<input checked="" type="checkbox"/> STANDARD
<input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN 75th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
73L(C) 2965-2968R 73L(C) 2792-2794R	3/18/73 3/5/73	1045 1918	1:40,000 1:40,000	The stage of tide is inapplicable for the color photography.	
72K6326R-6330R 72K6378R-6379R 72K6504R6505R	2/14/72 2/14/72 2/16/72	1300 1412 1103	1:30,000 1:30,000 1:30,000		
Refer to the following page for tidal information.					

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the MHW line (Atlantic Ocean) is the tide-coordinated, black-and-white infrared photography listed under item 1.

The source of the MWL line (Interior Waters) is the black-and-white, tide-coordinated infrared photography listed under item 1. Refer to 76-36 B 1 Remarks for explanation of MWL datum.

Where the MHW line or the MWL line 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 (Atlantic Ocean) is the tide-coordinated 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-00453	SOUTH TP-00454	WEST No contemporary survey
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REMARKS

Final junctions were made in the Coastal Mapping Section

NOAA FORM 76-36B(1)
(7-75)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

TIDE - COORDINATED PHOTOGRAPHY

TP - 00452

LOCATION AND PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE	MEAN RANGE
<u>FLORIDA BAY</u>			<u>AT TIDE STATION</u>
72K 6326R - 6330R	Tavernier, Florida Bay	+0.18MWL	- -
72K6378R - 6379R	Tavernier, Florida Bay	+0.16MWL	- -
72K6504R - 6505R	Tavernier, Florida Bay	+0.20MWL	- -
<u>ATLANTIC OCEAN</u>			
72K6378R - 6379R	Tavernier, Hawk Channel	+0.13MLW	2.13'
72K6504R - 6505R	Tavernier, Hawk Channel	+0.10MHW	

REMARKS: The periodic tide on TP-00452 (west of Route 1) was masked by non-tidal forces and the mean range was substantially less than two-tenths of a foot. In this situation the mean high/low water datums converge, and for mapping purposes, the mean high and low water lines are indistinguishable. As a consequence, special treatment was given to the portrayal of the shoreline on this map: the mean water level line was mapped in lieu of the mean high water line and shown by a distinctive symbol.

HISTORY OF FIELD OPERATIONS

TP-00452

I. ☒ FIELD INSPECTION OPERATION * Feb. 1972 ☒ FIELD EDIT OPERATION Aug. 1975
Mar.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. R. Wagner	
2. HORIZONTAL CONTROL	RECOVERED BY R. R. Wagner	8/75
	ESTABLISHED BY Inapplicable	
	PRE-MARKED OR IDENTIFIED BY Inapplicable	
3. VERTICAL CONTROL	RECOVERED BY R. R. Wagner	8/75
	ESTABLISHED BY Inapplicable	
	PRE-MARKED OR IDENTIFIED BY R. R. Wagner	8/75
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY R. R. Wagner	8/75
	LOCATED (Field Methods) BY R. R. Wagner	8/75
	IDENTIFIED BY Inapplicable	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY R. R. Wagner	8/75
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 Reports	73L2794R	E 276, V 327, X 327
		73L2793R	B 276

3. PHOTO NUMBERS (Clarification of details)

72K6378, 73L2793R, 73L2794R, 73L2966R, 73L2967R

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

Landmarks and nonfloating aids were either verified or located by field edit.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

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

8 Pages of sextant cuts.

* The field reports are bound with this Descriptive Report.

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

TP-00452

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
No map copies were furnished to Marine Charts prior to final review.				
			9/9/76	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
		11/20/75	Four (4) digitized 76-40 Forms were submitted as final report.

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 11/20/753. ☐ 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	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	

SUMMARY
for
TP-00444 thru TP-00454

Coastal Zone Map TP-00452 is one of eleven (11), 1:10,000 scale (shoreline type) maps in Job PH-7119. These maps will not be published. Interior detail is limited to a narrow zone of planimetry usually back to and including the first road.

A layout of Job PH-7119 (revised since the aerotriangulation operation) will show the location of the individual maps. A copy of this layout is included in this Descriptive Report.

The maps are intended for planning purposes for the State of Florida and for the construction and maintenance of NOS nautical charts.

The area is covered by aerial photography taken in 1972 and 1973 on color and black-and-white infrared film. The infrared film was tide coordinated.

The field operations consisted of the following:

1. Premarking of horizontal control for aerotriangulation.
2. Establishment of tidal datums.
3. Field Edit.

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

The shoreline and alongshore details were compiled from tide-coordinated, black-and-white infrared photography using a B-8 stereoplotter and/or graphic methods. The rectified color photography was used as an aid in interpreting cultural features and compiling the limits of vegetation. The interior details were compiled from a stereoscopic examination of the color photography without field edit.

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

A registration copy of each map is prepared. The registration copy shows additional offshore details such as shoal and

shallow lines 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.

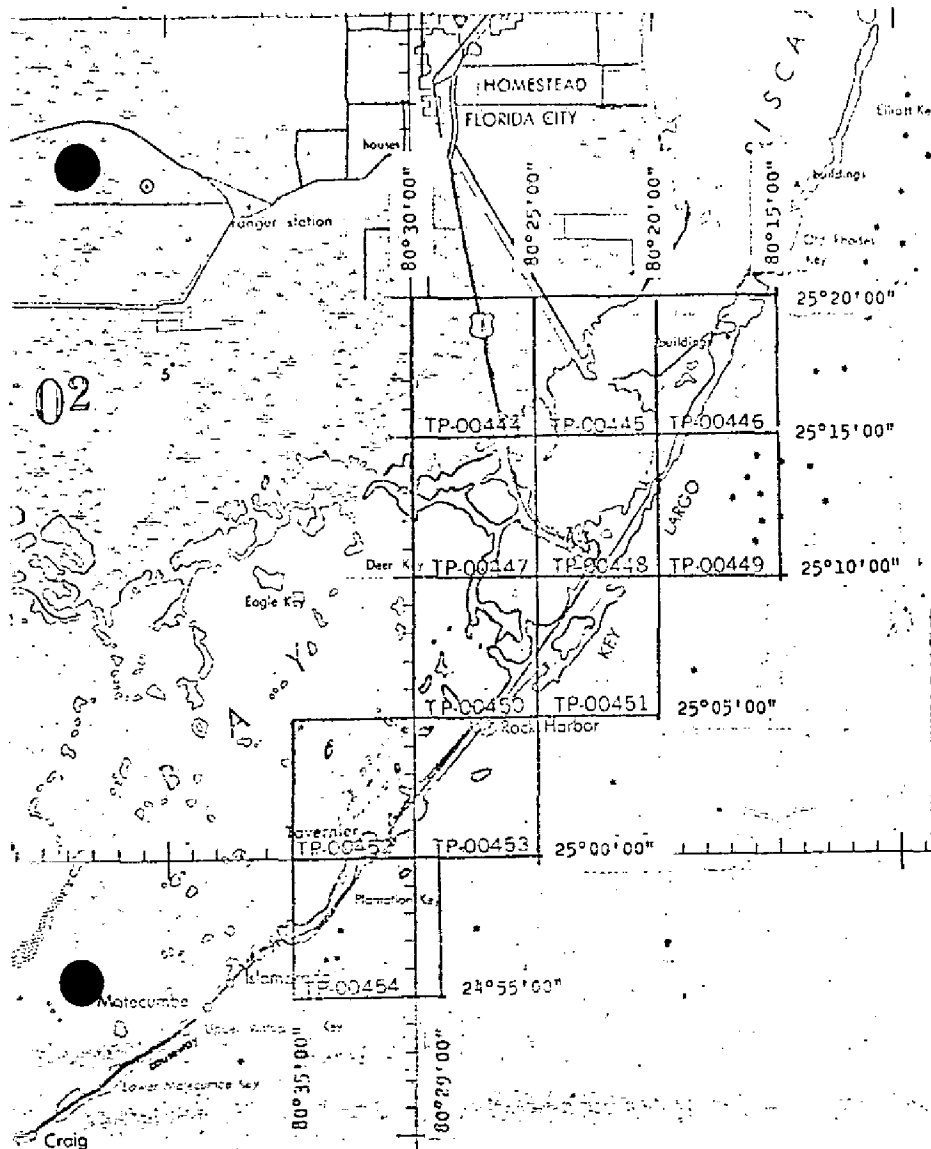
The following items will be registered in the NOS Archives:

1. A stable base copy of the Registration Copy.
2. The Descriptive Report.

The negative of the Registration Copy is filed in the Reproduction Division.

Field records such as field edit sheets, discrepancy prints, field





Official Mileage for Cost Accounts

Sheet No.	Sq. Miles
TP-00444	2
TP-00445	8
TP-00446	6
TP-00447	10
TP-00448	8
TP-00449	2
TP-00450	8
TP-00451	4
TP-00452	4
TP-00453	6
TP-00454	5

Total 63

JOB PH-7119
CARD SOUND to PLANTATION KEY
FLORIDA
SHORELINE MAPPING
SCALE 1:10000

REVISED 12/9/75 RWW

80°

FIELD REPORT

JOB PH-7119

This report is on work done in accordance with Instructions-field-Job PH-7119; Horizontal Control for Aerotriangulation and Field Support for Aerial Photography; Coastal Boundary Mapping, Card Sound to Plantation Key, Florida. The field work was done during the period 20 July - 7 September 1971.

1. PREMARKING OF CONTROL

One control station, IRVING 1971, was established on Soldier Key. Eighteen stations were paneled for 1:30,000 scale photography. The deviations from the job diagram and target specifications were recommended in the field by Mr. Saperstein, Photogrammetrist and authorized by the Chief, Surveys Planning Branch. The locations of the paneled stations are shown on the chart section accompanying this report.

2. BRIDGING PHOTOGRAPHY

Flight lines are shown on the accompanying chart. Bridging photography was accomplished on March 8, 1971 for lines 30-4, 30-5, and 30-6 under Job PH-7113. Line 30-6 was redesignated 30-1 for Job PH-7119. Line 20-1 was photographed on Aug. 4 and all other lines on Aug. 11 - the only suitable day in the period 4-26 August. This photography was unacceptable and will be rescheduled for February 1972.

3. TIDE-COORDINATED PHOTOGRAPHY

Locations of the tide staffs are shown on the accompanying chart.

was flown for MLW at 1325-1335 on August 6 when the MIAMI DISCAYNE PAY staff read 2.3 and 2.2. The south end was flown for MLW at 1425-1435 on August 6 when the CUTLER staff read 2.75 and 2.69.

Line 30-5. MHW North half flown at 805-815 on August 7 when CUTLER staff read 4.5 to 4.7. South half flown at 1220-1235 on August 7 when the TURKEY POINT staff read 3.15 to 3.05. MLW North half was flown at 1430-1435 on 6 August when the CUTLER staff read 2.73 to 2.69. South half flown at 850-855 on August 11 when the TURKEY POINT staff read 1.65. This was flown at a reduced altitude of 14,000 feet to get under some clouds. A triplicate was flown at 855-900 to get outlying islands which might not have been covered at the reduced altitude.

Line 20-2. MHW The northern two-thirds were flown at 802-815 on August 9 when the OCEAN REEF staff read 4.58 to 4.70. The remainder was flown at 830-840 on August 10 when the staff read 4.25 to 4.35. MLW Due to clouds this was flown in three parts. The NE end to the Ocean Reef Club was flown at 1328-1342 on August 7 when the staff read 2.25 to 2.11, the Ne end was flown at 1530 on August 6 when the staff read 2.2, and the south part flown at 955-1001 on 16 August when the staff read 2.30.

Line 30-3 (Outside) MHW Flown at 939-947 on August 11 when the TAVERNIER HAWK CHANNEL staff read 4.00 to 4.12, MLW Flown at 1315-1322 on August 4 when the staff read 2.1.

Line 30-3 (Inside) No photography. Clouds and seasonal high tides during the rest of the period prevented it.

Line 20-1. MHW No photography. MLW Line was flown at 927-945 on August 16 when the RAGGED KEYS staff read 1.8 to 1.75.

Line 30-1. MHW The middle third was flown at 1020-1025 on August 4 when the CARD SOUND staff read 3.7 and the MANATEE CREEK staff read 3.5. The remainder was flown at 1110-1115 the same day when the CARD SOUND staff read 3.6 and the MANATEE CREEK staff read 3.5. MLW No photography.

Line 30-2. Line was flown at 835-842 on August 9 when the CARD Sound staff read 3.6 and the MANATEE CREEK staff read 3.75. Line was unacceptable because of clouds in the middle segment and possible smoke in the northern third. This and the MLW photography were not accomplished due to clouds and seasonal high water.

4. ADDITIONAL PHOTOGRAPHY

Tide coordinated photography was taken on a small shoal about one

mile NNE of the Molasses Reef light. The shoal was photographed at about 0900 on August 10 when the TAVERNIER HAWK CHANNEL staff was in MHW range. It was flown at 1206 on August 16 when the staff read 2.31. This shoal was also photographed in color and false color, but the times were not obtained from the photographer.

5. FORESHORE PROFILES

Four planetable beach profiles were run within the limits of the job by Mr. Dale Fuller during the photography period. A brief report accompanies the profile sheet.

6. FIELD RECORDS

All CSI cards, recovery notes, profiles and the original field records for IRVING 1971 were forwarded to C3413 on 1 March 1972. Form 277, Tides Volumes for the MIAMI BISCAYNE BAY, TURKEY POINT, and CUTLER Tide staffs were also forwarded on 1 March. The 277's for the other staffs will be forwarded with the report for the February 1972 photography.

Submitted 29 February 1972

John C. Veselenak

John C. Veselenak
Chief, Photo Party 65

FIELD REPORT

JOB PH-7119

This report is on work done in accordance with Instructions-Field-Job PH-7119; Horizontal Control for Aerotriangulation and Field Support for Aerial Photography; Coastal Boundary Mapping, Card Sound to Plantation Key, Florida, dated January 31, 1972. The field work was done during the period 7-23 February 1972.

1. PREMARKING OF CONTROL

Four stations were paneled for 1:30,000 scale photography. The locations are shown on the chart section accompanying this report.

2. AEROTRIANGULATION PHOTOGRAPHY

Flight lines are shown on the chart. Color photography was accomplished on February 19, 1972 between the approximate times of 1045 and 1230 hours. The skies were exceptionally clear for this area and the ground winds was from the northwest at 20-25 knots all morning. These lines were also flown on February 14, but the photography was unacceptable because of a bad film emulsion.

3. TIDE-COORDINATED PHOTOGRAPHY


Locations of the tide staffs are shown on the chart. The job was completed; photography taken on the 12, 14, 15, 16, and 20, of February. Lines 20-2 and 30-3 were also photographed and portions of the other lines were also partially photographed during August 1971.

Recordings entered in the tide volumes, Form 277, were at 5 minute intervals during photography and at 15 minute intervals near photography. An exception to this is the readings for the MANATEE CREEK and BARNES SOUND staff where the tide varies only a few hundredths of a foot per day. Tolerances of ± 0.30 foot for MHW, ± 0.20 foot for MWL, and ± 0.10 foot for MLW were observed. Wet staff readings - crest, mean, and trough - were recorded while photography was in progress. Eastern Standard Time was used.

Line 20-1. MHW Completed at 1050 on February 14 when the RAGGED KEYS staff read 3.38-3.26. MLW Completed at 1500 on February 14 when the staff read 1.80.

Line 20-2. MHW Flown at 1035-1052 on 16 February when the OCEAN REEF staff read 4.75-4.61. This line was also flown at 1006 on February 15, but the pilot recommended it be re-scheduled. MLW Flown at 1338-1350 on February 14 when the staff read 2.31-2.32.

Line 30-1. This line is controlled by three staffs, the MANATEE CREEK staff has a MHW datum and the EAST ARSENICKER and CARD SOUND staffs have mean high and mean low datums. MHW The line was flown at 1120-1142 on 14 February. At this time the EAST ARSENICKER staff read 3.95-3.86 and the MANATEE CREEK staff read 3.54-3.52(MWL). The line was flown again at



mouth of the northern cut (MANGROVE POINT) was observed and its value recorded at 5 minute intervals from 1135 to 1300 hours. The latter staff values are listed in the EAST ARSENIKER Form 277.

5. FORESHORE PROFILES

Four planetable beach profiles were run within the limits of the job during the photography period of August 1971. The few small beaches found for the profiles were of coral, and since erosion is not considered a problem, these profiles were not rerun.

6. MONITORING OF TEMPORARY TIDE STAFFS IN THE JOB AREA

On February 15 verbal instructions were received from the Chief, Tidal Datum Planes: Temporary staffs were to be put in at 11 selected locations and observed every 12, 15, or 30 minutes through one high and one low water. All 11 need not be observed simultaneously and the actual location could be varied slightly. Four were observed on the 16th., two on the 17th., 1 on the 20th., and four on the 21st. The chart accompanying this report shows the exact location of each staff.

7. FIELD RECORDS

All CSI cards, Form 277's and a copy of the records from the 11 tide staffs were sent to C3413 on 13 March 1972. The original field records for the 11 staffs were forwarded to C3311 on 23 February 1972. Profiles and recovery notes were sent to C3413 on 1 March 1972 with the report for work done on this job in August 1971.

Submitted 14 March 1972

John C. Veselenak

John C. Veselenak
Chief, Photo Party 65

Photogrammetric Plot Report
Hillsboro Inlet to Card Sound, Florida
Job PH-7113
and
Card Sound to Plantation Key, Florida
Job PH-7119

21. Area Covered

This report covers an area on the east coast of Florida immediately south of Hillsboro Inlet to the southwestern end of Plantation Key. Job PH-7113 and Job PH-7119 are combined in this one report because the southern portion of Job PH-7113 is included in the block adjustment of Job PH-7119.

Job PH-7113 consists of twenty (20) 1:10,000 scale sheets: TP-00416 through TP-00420, and TP-00422 through TP-00436.

Job PH-7119 consists of twelve (12) 1:10,000 scale sheets: TP-00444 through TP-00455.

Subsequent to the initial bridging in this area, three small areas were re-bridged using new photography. The reports are attached:

- (1) Port Everglades, Florida
- (2) Miami to Mangrove Point, Florida
- (3) Hollywood to Miami Beach, Florida

22. Method

Eleven (11) strips of photography were bridged using aerotriangulation methods. Tie points were made between strip No. 1 of PH-7113 and strip No. 2 of the Jupiter Inlet to Hillsboro Inlet, Florida report to the north of this area.

Due to the placement of control in relation to flight lines and due to large areas of water coverage, two block adjustments were made. Strip No. 2, No. 3, and No. 4 comprised one block. Strip No. 7, No. 9, No. 10, and No. 11 comprised the other block. Attached is a sketch showing the location of the strips and the blocks.

Image points were located to rectify photographs for orthophoto, nautical, and small craft charts. All points were drilled by the PUG method. Closure to control has been noted on the read-outs. A sketch is attached which shows the control used in the strip and block adjustments. All points were plotted on the Florida East Zone Plane Coordinate System using the Coradomat Plotter or the Calcomp Plotter.

Ratio points were located on twenty-eight (28) strips of infrared contact prints. Additional ratio points were located on contact prints which have a large portion of water coverage so that they could be individually enlarged to scale. A sketch showing the location of the infrared photographs is attached.

23. Adequacy of Control

The control was adequate. Horizontal control was pre-marked on



The following control station positions were transferred from photographs 72L(C)8691R thru 72L(C)8698R:

Tavernier 1935
Snake 1934 Sub. Sta.

Turkey Pt. 2, RM2 was transferred from photograph 71E(C)9595.

Cape Florida Old Tower Finial Sub Station A was transferred from photograph 71E(C)9201.

Lower Sound Point 1853 sbu. station was not used in the adjustment because the field party advised that it was questionable and should be used with caution. Sub. station Key Largo Visions, Inc., Taller Mast, 1961, could not be used because one of its azimuth stations (Key Largo Cable Visions, Inc. Shorter Mast) appears to have a bad published position. To date, this has not been resolved by the Geodesy Division. Turkey Point 2, RM2 was a very poor point to transfer, and, therefore, it was not used as control in the block adjustment in that area.

Part-way through the compilation phase of this project, it was determined that the published control positions in the area of this report were in error approximately - 4 feet in X and -10 ft. in Y. Therefore, Strip No. 1, No. 2, No. 3, No. 4, No. 5, No. 6, and No. 8 are adjusted to the old published control positions. This area includes T-sheets TP-00416 through TP-00420 and TP-00422 through TP-00432.

Strip No. 7, No. 9, No. 10, and No. 11 are adjusted to new preliminary control positions which were furnished by Geodesy on May 29, 1974. Geodesy Division stated 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 stations 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.

The compiler was advised to make a graphic adjustment on TP-00430 so it will junction well with TP-00433. Also, TP-00432 should be graphically adjusted so it will junction well with TP-00433, TP-00434, and TP-00435.

A listing of closures to control is included on an attached sheet of control stations. The station with the largest residual is Narrow Point 1854, with 1.808 feet in X and 1.267 feet in Y.

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:

1:20,000 scale

Strip No. 4 71E(C)9201-9215
Strip No. 8 73L(C)2871-2884R
Strip No. 9 73L(C)2893-2924R

1:30,000 scale

Strip No. 1 71E(C)9120-9135
Strip No. 2 71E(C)9562-9574
Strip No. 3 71E(C)9576-9586
Strip No. 5 71E(C)9536-9545
Strip No. 6 71E(C)9588-9602

1:40,000 scale

Strip No. 7 73L(C)2935-2945R
Strip No. 10 73L(C)2952-2968R
Strip No. 11 73L(C)2785-2797R

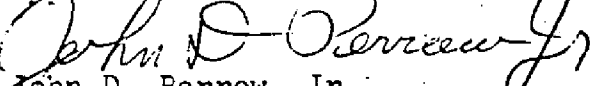
The quality and definition of the photography was adequate.

Respectfully submitted,



Victor McNeel

Approved and forwarded:



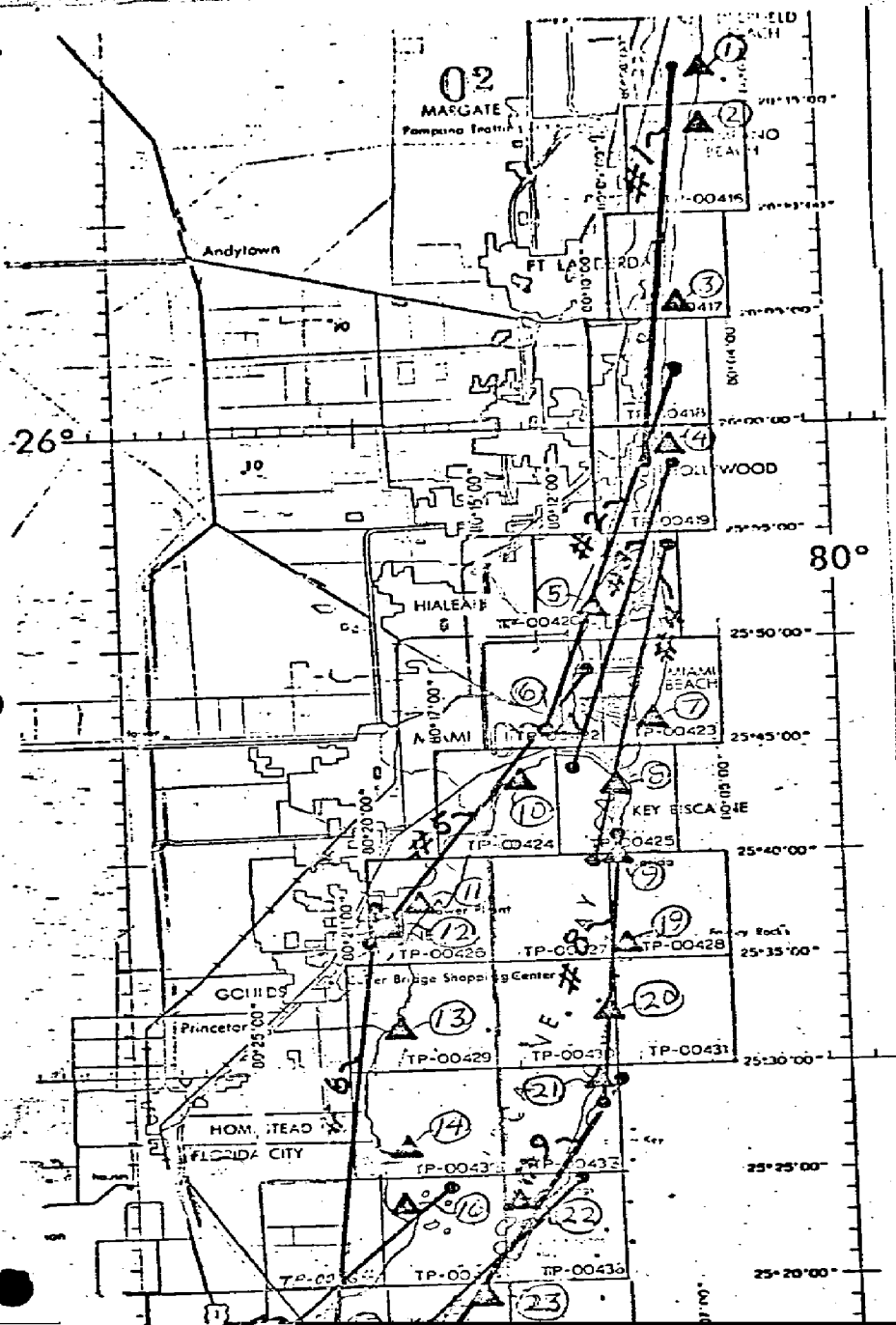
John D. Perrow, Jr.
Chief, Aerotriangulation Section

CONTROL STATIONS

			<u>residuals</u>	
1.	(027100)	Turtle 1929	-0.706	-0.115
2.	(023102)	Pompano, 1928, subpoint B	1.488	-0.229
3.	(029100)	South Jetty, 1938	-1.134	0.176
4.	(034101)	Halland, 1928	0.317	-0.007
5.	(567101)	Causeway, 1934	0.027	-0.012
6.	(562101)	Point View, 1934	0.000	-0.181
7.	(207100)	Base, 1934	0.112	0.142
8.	(204100)	Key Biscayne North Base, 1849	-0.158	0.033
9.	(201101)	Cape Florida Old Tower Finial, subpoint A	-0.156	0.002
10.	(538102)	Pan American, 1935, Target 2	0.000	0.000
11.	(534101)	Naco 1934, subpoint A	0.000	0.000
12.	(544801)	Tie point from strip #5 used as control for strip #6	-0.157	0.025
13.	(591100)	Black Point 3	0.351	-0.066
14.	(595101)	Turkey Point No. 2, 1930, RM No. 2	-0.229	0.073
15.	(940100)			
	(602100)	Narrow Point 1854	-1.808	1.267
16.	(944100)	Man 1930.	0.222	-0.009
17.	(960100)	Long Sound, 1961	-0.168	-0.075
18.	(936101)	Snipe Point, 1934, sub- station	-0.215	-0.201
19.	(878101)	Irving, 1971, substation	0.687	-0.080
20.	(875102)	Mangrove (USE), 1930, subpoint B	-0.826	0.125
21.	(872101)	Sands Cut RM 2, 1849-1947 substation	0.296	-0.049
22.	(901100)	Rubi, 1930-1947, reset	-0.192	-0.134
23.	(905101)	Angelfish Key RM 3, 1853	-0.303	-0.242
24.	(914101)	Knowlson, 1935 substation	0.153	-0.155
25.	(919100)	Hull Key, 1852	-0.053	0.103
26.	(922100)	Rock Harbor 2, 1961	0.364	-0.284
27.	(022101)	Lower Sound Point, 1853 substation **		
28.	(923101)	Sub Station Key Largo Cable Visions Inc., Taller Mast, 1961 **		
29.	(924100)	Largo, 1962	-0.210	0.103

30.	(967101)	Low 2, RM 2, 1934	0.042	0.215
31.	(692100)	Tavernier, 1935	0.308	-1.325
32.	(793101)	Planter 2, RM 4	-1.476	1.087
33.	(695101)	Snake, 1934, subpoint	0.128	0.174

** means not used in adjustments



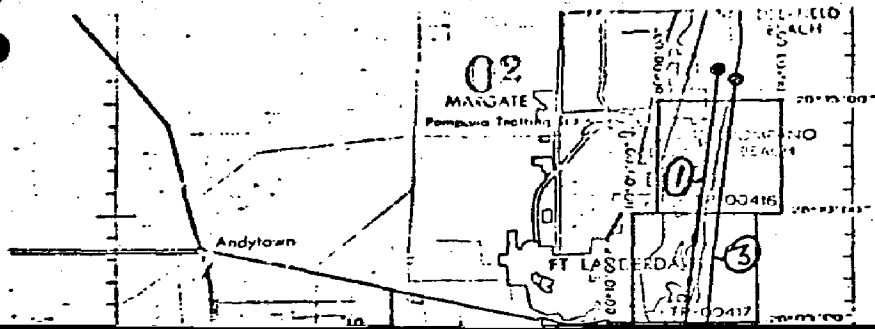
JOB PH-7113
AND
JOB PH-7119

HILLSBORO INLET
TO
PLANTATION KEY,
FLORIDA

CONTROL STATIONS
USED IN THE
ADJUSTMENTS

INFRA-RED CONTACT PRINTS

1. 71K 5632R - 5660R MLW
2. 71K 5662R - 5672R MLW
3. 71K 5750R - 5766R MHW
4. 71K 5795R - 5806R MHW
5. 71K 5815R - 5829R MHW
6. 71L 8501R - 8509R MLW
7. 71L 8512R - 8520R MLW
8. 71L 8571R - 8580R MHW
9. 71L 8523R - 8530R MLW
10. 71L 8783R - 8791R MHW
11. 71L 8584R - 8593R MHW
12. 71L 8532R - 8537R MLW
13. 71L 9067R - 9080R MLW
14. 71L 8337R - 8341R MHW
15. 72K 6287R - 6298R MHW
16. 72K 6572R - 6584R MLW
17. 72K 6546R - 6563R MLW
18. 72K 6311R - 6330R MHW
19. 71L 8544R - 8559R MLW
20. 71L 8648R - 8662R MLW
21. 72K 6480R - 6499R MHW
22. 71L 8697R - 8705R MHW



JOB PH-7113
AND
JOB PH-7119

FLORIDA- NOAA Coastal Boundary Mapping Program

Horizontal Control

Map TP- 00452

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
TAVERNIER U.S. IMMIGRATION, RADIO MAST 1961 LIBRA 2, 1908	D, GP, PC. Fla. Vol. 2, P. 314 GP 368 P.C. 93 Book 425, P. 8, 27, 29, 33, G.P. 368, 425, 8, 27 Fla. Vol. 1, P.C. P. 93, Fla. E. Zone

Compilation Report
TP-00452
June 1975

31. Delineation

The tidal datum lines were delineated from the black-and-white, tide-coordinated infrared photography by graphic methods. This photography was controlled by map points determined by aerotriangulation and planimetric features compiled from the rectified prints of the color infrared photography.

Interior features on TP-00452 are limited to the main roads and to public roads leading to the shoreline. These features were compiled from the rectified prints of the color infrared photography.

32. Horizontal Control

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

The tidal datum lines along the Atlantic Ocean were delineated from office interpretation of the black-and-white, tide-coordinated infrared photography referenced to Tavernier, Hawk Channel Tide Station.

The MWL line was delineated from office interpretation of the black-and-white, tide-coordinated infrared photography referenced to Tavernier, Florida Bay Tide Station.

The shoal and shallow lines were delineated from office interpretation of the rectified black-and-white color photography.

A field edit of these lines is requested for verification of the office interpretation of the photography.

36. Offshore Details

Shoal and shallow lines were compiled from the rectified prints of the color infrared photography.

37. Landmarks and Aids

All landmarks and aids will be located or verified (photographic image) during field edit. Two landmarks and six lights were located by office interpretation by aerotriangulation.

38. Control for Future Surveys - None.39. Junctions

Refer to Form 76-36B (Data Record).

40. Horizontal Accuracy

This map complies with the accuracy requirements for the Florida Coastal Mapping Program as outlined in the project instructions for Job PH-7000.

41. thru 45. Inapplicable.

46. Comparison with Existing Maps

Comparison was made with the following USGS Quad:

Tavernier, Florida, 1971, 1:24,000 scale.

No significant differences were noted.

47. Comparison with Nautical Charts

A comparison was made with the following Nautical Charts:

11451	1:80,000, 12th Edition, Sept. 1974;
1249	1:80,000, 12th Edition, April 1973;
850	1:40,000, 6th Edition, August 1972.

Respectfully submitted,



Peter N. Gibson
Carto (Photo)

Approved and Forwarded:



J. P. Battley, Jr.
Chief, Coastal Mapping Section

FIELD EDIT REPORT MAP TP-00452, JOB PH 7119

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 field edit sheet and the rectified photographs.

Two triangulation station was recovered.

Four vertical control stations were recovered and identified.

Two landmarks are recommended for charting.

All knowm aids were located or verified.

Four tide gages were identified. Tavernier Creek tide gage with bench mark E 276 was identified on photograph 73L2794R. The gage and the bench mark are close together and E 276 was used because it is in the vertical net. Tavernier Hawk Channel tide gage with bench mark V 327 and Tavernier Florida Bay tide gage with bench mark X 327 were identified on photograph 73L2794R. Adoba Cosa tide gage with tidal bench mark No 2 were identified on photograph 73L2793R. Tidal bench mark No 2 falls on TP-00453.

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

52. ADEQUACY OF COMPILATION

Adequate after application of field edit.

52. MAP ACCURACY

No test required.

54. RECOMMENDATION

None.

55. EXAMINATION OF PROOF COPY

None required.

Submitted 8/8/75


Robert R. Wagner
Chief, Photo Party 60

Review Report
TP-00452

August 1976

61. General

The map manuscript for Coastal Zone Map TP-00452 was inspected as a Class III map (compilation, discrepancy print, and report) and reviewed as a Class I map by the Quality Control Group. The 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. 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

The field reports dated February and March 1972 state that four (4) plane-table beach profiles were run. One (1) of these profiles is within the limits of TP-00452 and was used to verify the tidal datum lines.

62. Cartographic Comparison

Comparison was made with the following USGS quadrangle map:

Tavernier, Florida, 1971, scale 1:24,000.

No significant changes were noted.

Comparison was made with the following nautical chart:

11463 (formerly C&GS 850) 7th Edition, dated August 3, 1974,
1:40,000 scale.

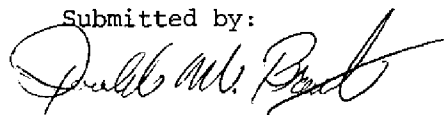
Chart 11463 shows extensive areas of mean low water in the interior waters of Florida Bay. The black-and-white, tide-coordinated infrared photography does not show these areas uncovered and the field edit shows the compilation to be correct.

63 thru 65. Inapplicable.

66. Adequacy of Results and Future Surveys

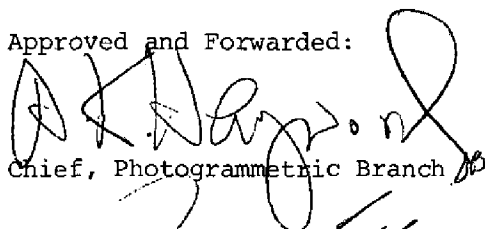
Coastal Zone Map TP-00452 complies with the Instructions for NOS Cooperative Boundary Mapping, Job PH-7000, and the National Standards of Map Accuracy.

Submitted by:

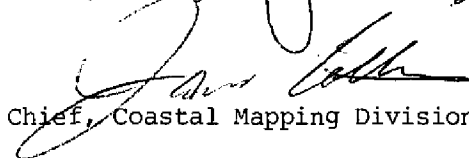


Donald M. Brant

Approved and Forwarded:



Chief, Photogrammetric Branch



Chief, Coastal Mapping Division

27 Jan. 1975

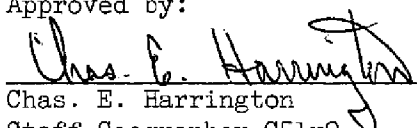
GEOGRAPHIC NAMES

PH-7119 (Card Sound to Plantation Key, Florida)

TP-00452

Atlantic Ocean	Tavernier
Bottle Key	Tavernier Creek
Butternut Key	Tavernier Harbor
Community Harbor	Upper Cross Bank
Cowpens Cut	
Cross Bank	
Everglades National Park	
Florida Bay	
Hammer Point	
Hawk Channel	
Key Largo	
Low Key	
Pigeon Key	
Plantation Key	
Point Lowe	
Ramshorn Cut	
Ramshorn Shoal	
Stake Key	

Approved by:


Chas. E. Harrington
Staff Geographer-C51x2

76-40

PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISIONNATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

TRIPL

VERSION
09/18/75

LISTING

* SVY ID-00452 * NONFLOATING AIDS FOR CHARTS * STATE FLORIDA * * * * *
* PRJ 2 * TO BE CHARTED * LOCALITY BUILT KEY TO PL. LOWE * ORIGINATING ACTIVITY *
* DTM NA 1927 * DATE 01/14/76 * * * * *
* * * * *
* THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *
* * * * *

* * * * *
* CHARTING * SECOND REASON FOR DELETION * POSITION * CODES * METHOD AND DATE * * * * *
* NAME * PUT TRIANGULATION NAMES IN () * LATITUDE DM * LONGITUDE DP * SEQ * OFFICE * FIELD * AFFECTED *
* * * * *

* * * * *
* DYBN * COMMUNITY HARBOR * 25 0 58.97 1814.4 219 * * * * * P-L-4-8 * 11451 *
* 3 * * 80 31 5.51 182.5 6 * * * * * 08/06/75 * 11463 *
* * * * *
* DYBN * * 25 0 58.75 1807.7 219 * * * * * * *
* 4 * * 80 31 7.44 208.6 7 * * * * * * *
* * * * *
* DYBN * RAMSHORN SHOAL * 25 1 25.41 781.8 219 * * * * * P-L-3-8 * *
* 66 * * 80 32 1.30 36.4 8 * * * * * 08/06/75 * *
* * * * *
* DYBN * * 25 1 24.46 752.6 219 * * * * * * *
* 67 * * 80 31 59.45 1666.8 9 * * * * * * *
* * * * *
* DYBN * * 25 1 21.92 674.5 219 * * * * * * *
* 68 * * 80 32 6.23 174.7 10 * * * * * * *
* * * * *
* DYBN * * 25 1 20.71 637.2 219 * * * * * * *
* 69 * * 80 32 5.09 142.7 11 * * * * * * *
* * * * *
* LIGHT * * 25 1 19.33 594.8 200 * 73LC2794R * P-V * *
* 70 * * 80 32 17.29 484.8 20 * 03/05/73 * 08/06/75 * *
* * * * *
* LIGHT * * 25 0 56.53 1739.4 200 * 73LC2795R * * * *
* 71 * * 80 32 53.78 1507.9 21 * 03/05/73 * * * *
* * * * *
* LIGHT * * 25 0 27.14 835.1 200 * 73LC2795R * P-V-4-8 * *
* 73 * * 80 33 27.34 654.5 22 * 03/05/73 * 08/06/75 * *
* * * * *
* DYBN * * 25 0 22.25 684.6 219 * * * * * * *
* 73A * * 80 33 27.50 771.1 12 * * * * * 08/06/75 * *
* * * * *

* * * * *
* TYPE OF ACTION * NAMES OF RESPONSIBLE PERSONNEL * * * * *
* * * * *

* POSITIONS DETERMINED * ROBERT R. WAGNER * * * * *
* AND/OR VERIFIED BY * P. DEMPSEY AND VERIFIED BY J. RATTLE * * * * *
* FIELD AND OFFICE * J. PIRRONE * * * * *
* ACTIVITIES * J. TAYLOR * * * * *
* * * * *

* FIELD REPRESENTATIVE *
* OFFICE COMPILER *
* DIGITIZER *
* DATA PROCESSOR *

ORIGINATOR

STPL
ERSON
118175

4
CIT
ON

MARKS

CHARTS
EFFECTED

11451
11463

OTTO

ATTO

1

11951
11462

6471

100

1000

332

1

100

10

100

...

一、二、三、四、五、六、七、八、九、十、十一、十二、十三、十四、十五、十六、十七、十八、十九、二十、二十一、二十二、二十三、二十四、二十五、二十六、二十七、二十八、二十九、三十、三十一、三十二、三十三、三十四、三十五、三十六、三十七、三十八、三十九、四十、四十一、四十二、四十三、四十四、四十五、四十六、四十七、四十八、四十九、五十、五十一、五十二、五十三、五十四、五十五、五十六、五十七、五十八、五十九、六十、六十一、六十二、六十三、六十四、六十五、六十六、六十七、六十八、六十九、七十、七十一、七十二、七十三、七十四、七十五、七十六、七十七、七十八、七十九、八十、八十一、八十二、八十三、八十四、八十五、八十六、八十七、八十八、八十九、九十、九十一、九十二、九十三、九十四、九十五、九十六、九十七、九十八、九十九、一百。

76-43

PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISIONNATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

DIPL

VERSION
09/18/75

LISTING

SVY	IP	PH	PRJ	DTM	NA	DATE	UNIT	CMD	STATE	LOCALITY	DATE	ORIGINATING ACTIVITY	PAGE	OF	CHARTS
00432									FLORIDA	PI. LOWE	01/14/76	COMPILATION			
71113															

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

NAME	DESCRIPTION	REASON FOR DELETION	POSITION	CODES	METHOD AND DATE	LOCATION	FIELD	AFFECTED
MAST	U.S. NAVY	HI=229(235)	25 0 31.92	982.1	NOT			
			80 31 10.53	295.3	DGIZD			
			25 0 24.41	751.1	86		P-V	1249
			30 31 12.70	356.1	23			DITTO

TYPE OF ACTION	NAMES OF RESPONSIBLE PERSONNEL	ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD	ROBERT R. WAGNER	PHOTO FIELD PARTY
POSITIONS DETERMINED	ROBERT R. WAGNER	FIELD REPRESENTATIVE
AND/OR VERIFIED BY	P. DEMOSSEY AND VERIFIED BY J. BATTLE	OFFICE COMPILER
FIELD AND OFFICE ACTIVITIES	J. PIRRONE	DIGITIZER
	J. TAYLOR	DATA PROCESSOR

Federal Record Center Data

TP-00452

- 1 Discrepancy print (paper copy)
- 1 Field edit sheet (stable base)
- 1 NOAA Form 76-36 C (History of Field Operations)
- 3 NOAA Forms 76-40 (Working Copies Landmark and Nonfloating Aids)

PhotographG:

72K6378

73L(C) 2793R, 2794R, 2966R, 2967R