# 10071

Diagram No. 1245-2

### NOAA FORM 76-35A

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

# **DESCRIPTIVE REPORT**

	Hydrographic HSB-10-1-83
Office No	H-10071
.•	LOCALITY
State	Florida
General Locality	Indian River
	Black Point to Duckroost
	Point
	1983
	CHIEF OF PARTY
	LCDR R.W.Jones
LI	BRARY & ARCHIVES
DATE	August 8, 1986

☆U.S. GOV. PRINTING OFFICE: 1980-766-230

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Record of Opplication

)AA FORM 77 1-72)	-28 U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	REGISTER NO.
	HYDROGRAPHIC TITLE SHEET	H-10071
	ONS - The Hydrographic Sheet should be accompanied by this form, completely as possible, when the sheet is forwarded to the Office.	HSB-10-1-83
State	Florida	
General lo	cality Indian River	
Locality_	Black Point to Georges Flats Duckroost Po	tare
Scale	1:10,000 Date of sur	rey 16 Feb - 21 May 1983
Instruction	as dated 07 September 1982 Project No.	OPR-G207-HSB-82
Vessel	Hydrographic Field Party 4 - Launches 0520,	and 1283.
Chief of p	artyLt. Cdr. Ronald W. Jones Lt. Greenawalt, E. Martin, D. Bryant, L. Bi	connon D Adams D Isani
Surveyed I	Lt. Greenawalt, E. Martin, D. Bryant, L. Bi by <u>Lt(jg) Rossmann, D. Elliott, C. Bush, M. Mo</u>	Mann, J. Oswald
Soundings	taken by echo sounder, MANONEMA, pole Raytheon DE-719	B Echo Sounder
Graphic re	cord scaled by <u>party personnel</u>	
Graphic re	cord checked by <u>party personnel</u>	Kynetics 1201 (AMC)
Protracted	by <u>PDP8/e computer</u> Automa	
Verification	on by AMC J.B.Wilson	
Soundings	in folkower feet at NEW KKXXX LWD	
REMARK!	Change No. 1 dated 17 September 1982	
Project	included reconnaissance (on Sheet "L") north	of latitude 28°45'00"N.
(Data fo	or this recon will be submitted separately.)	
	Notes in red in the Descriptive Report u	vere made during office
	processing.	
	Miscellaneous pages have been remov	ed and filed with the
:	survey records.	
	AWOIS/SURF MAM 11/13/86	

NOAA FORM 77-28 SUPERSEDES FORM C&GS-837.

### DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SURVEY H-10071 HFP-10-1-83

Scale: 1:10,000

Chief-of-Party: Lt. Cdr. Ronald W. Jones Officer-in-Charge: Lt. C. Brian Greenawalt

Hydrographic Field Parties Section: Hydrographic Field Party 3 & 4

Launches: 0520 & 1283

### A. PROJECT

This survey was accomplished under Project Instructions OPR-G207-HSB-82 dated 07 September 1982, as amended by Change No. 1 dated 17 September 1982.

This project was conducted in response to requests to update the existing chart coverage.

### AREA SURVEYED В.

Duckroost Point

The area surveyed was the Indian River from Black Point to Georges Flats. The geographic bounds of this survey are:

> East 80°50'31" x North 28°45'00" West 80°44'30" South 28°41'25"

This survey was conducted from 16 February 1983 through 21 May 1983.

### SOUNDING VESSELS С.

All soundings on this survey were collected from one of these two vessels:

NOAA Launch 0520 (EDP 0520) - 22 foot MonArk NOAA Launch 1283 (EDP 1283) - 17 foot MonArk

Launch 0520 was the primary sounding vessel. Launch 1283 was used for the hydrography north of the Intracoastal Waterway and east of longitude 80°48'45" (approximately).

Junctions between the two vessels agree well. All differences were one foot or less. No problems were encountered.

# D. SOUNDING EQUIPMENT AND CORRECTIONS TO ECHO SOUNDINGS

All soundings except those taken with a sounding pole were measured and recorded with a Model DE719B Raytheon Fathometer.

<u>VESNO</u>	DE719B Serial No.
0520	9221
1283	9947

These fathometers were used in depths from one foot to 23 feet.

All fathograms were scanned and checked for peaks and deeps. The appropriate changes were made to the data tapes.

The instrument initial, tide and draft, and speed of sound settings were monitored continuously. Adjustments were made either on-line or when the fathograms were scanned.

Several rolls of marginal quality fathometer paper was used by fathometer S/N 9221 during this survey. The bottom trace on this paper was interrupted at the 5-foot depth, ie, the fathometer paper would not burn at the 5-foot depths. No other problems were encountered.

When weather and sea conditions permitted, barchecks were taken at the beginning and end of each days hydrography. The velocity of sound corrections for this survey were computed from the mean of the daily barchecks. No TDC casts were taken.

Settlement and squat for vessel 0520 and 1283 were measured using the level method. (Settlement and squat data for Launch 0520 are recorded in Volume 5 of Survey H-10067.) The results for Launches 0520 and 1283 are included in the appendix.

Velocity corrector tapes were made and the correctors applied to the soundings on the final field sheets. TC/TI tapes were generated and these correctors will be applied to the soundings on the final smooth sheet plotted at the Atlantic Marine Center. These tapes and tape listings are included with the project data.

### E. HYDROGRAPHIC SHEETS

Field sheets used during this survey were prepared in the field using a PDP8/e computer and a DP-3 Complot Plotter. Worksheets, preliminary plotter sheets, final field sheets, and overlay sheets, are included with this survey. Mainscheme soundings, developments, and crosslines are plotted on the final field sheet. Bottom samples, detached positions, charted soundings, junction soundings and prior survey soundings are plotted on the various overlay sheets.

The projection parameter tapes are included with the project data. Parameter tape listings are included in the appendix.

All records will be forwarded to the Hydrographic Surveys Branch at the Atlantic Marine Center for verification and smooth plotting.

### F. CONTROL STATIONS

Control stations used during this survey were either existing geodetic control published by the National Geodetic Survey or control established by the Hydrographic Field Parties Support Group. All stations meet a minimum of third-order, class I standards. All positions are based on the North American 1927 Datum.

A listing of control stations used during this survey is included in the appendix.

### G. HYDROGRAPHIC POSITION CONTROL

The Del Norte Trisponder system. operated in the non-automated rangerange mode, provided position control for most of this survey. "See Boatsheet" was used for Haulover Canal and a small area just south of the western entrance to Haulover Canal.

The following Del Norte equipment was used:

		LAUNCH 0520
UNIT	S/N	JULIAN DAYS USED
DMU	429 192	047 049,053,055,056,067,068,069,082,091,095, 097,098,108,110,111,112,116,117,118,122
Master	620 277	047 049,053,055,056,067,068,069,082,091,095, 097,098,108,110,111,112,116,117,118,122
Remotes (U\$ed ashore)	245 256 218 244	047 047 110,111, 112,116,117,118,122,123,132 049,053,055,056,066,067,068,069,110,111, 112,116,117,118,122,132 049,053,055,056,066,067,068,069,122,123, 132
		LAUNCH 1283
UNIT	<u>S/N</u>	JULIAN DAYS USED
DMU	180	108,109,110,111,118,119,123,125,129
Ma <b>s</b> ter	162	108,109,110,111,118,119,123,125,129
Remotes	218	108,109,110,111,118,119,123,125,129
(U <b>s</b> ed ashore)	244 1313 1063	108,109 111 110,118,119,123,125,129,

The master unit aboard Launch 0520 and 1283 were mounted atop 3-inch diameter pipe-masts about 2.5 meters and 2 meters (respectively) above the waterline. The remote units were mounted atop Wild Tripods.

Except where otherwise noted in the position abstracts, all two launches were steered along arcs.

On Launches 0520 and 1283, static system checks of the Del Norte equipment were performed at fixed aids-to-navigation which were positioned to third-order, class I control accuracy. These static system checks were performed at least twice daily in accordance with AMC Operations Order 79, dated 25 February 1982 and superseded 25 January 1983.

The Del Norte equipment was baseline calibrated before the survey began, after the survey was completed approximately 2 to 3 week intervals during the course of the survey. The baseline calibrations were performed in accordance with AMC Operations Order 79. The baseline distance was 2,367 meters: Station NO USE 1940 to Station CROW 1976 (both are published third-order, class I stations). Results of the baseline calibrations are included with Survey H-10067.

Electronic correctors applied on the corrector tapes are mean correctors determined by the baseline calibrations for the respective periods of hydrography. These correctors are shown in the Electronic Corrector Abstract included in the appendix. Original baseline calibration data were submitted with Survey H-10067. Copies of these are included with this survey, H-10071.

### H. SHORELINE

Shoreline details for this survey were transferred to the final field sheets from stable-base film copies of coastal zone orthophoto maps TP-00103, TP-00104, TP-00105, and TP-00106. The aerial photography was taken in 1967 and 1970. The field edit on these maps was performed in 1970. The shoreline details have already been applied to Chart 11485.

The shoreline details north of Latitude 28°45'00"N were not verified and are shown on the final field sheet in blue. All shoreline details south of Latitude 28°45'00"N were verified visually and with hydrographic positions. Changes to the shoreline are shown on the final field sheet in red. Data for the recon survey north of Lat.28°45'00" was transmitted separately.

The following change to the shoreline wasa found:

Spoil island Lat 28°41'29"N, Lon 80°48' 14"W Delete this island from the chart.

### I. CROSSLINES

Crosslines totalled 26 miles or 9.6% of the hydrography. Ninety-nine percent (99%) of all crossline soundings agreed within one foot of the mainscheme soundings. No soundings disagreed by more than two feet.

### J. JUNCTIONS

This survey junctions well with Survey H-10067 (1982), 1:10,000 scale, to the south. The junction soundings are in excellent agreement. No soundings disagreed by more than one foot.

# K. COMPARISON WITH PRIOR SURVEYS

The survey area was covered by prior survey H-6676 (1941), 1:10,000 scale. Most depths agreed within one foot; Survey H-10071 being shoaler.

The greatest discrepancy between these two surveys is the area just north of the Intracoastal Waterway. Many of the spoil islands shown on Survey H-6676 have changed by erosion, silting, and spoils from later dredging operations. All the fixed and floating aids have been changed.

Dummit Creek and the small creeks at Latitude 28°41'00"N, Longitude 80°45'15"W and Latitude 28°41'00"N, Longitude 80°46'45"W were too shallow and foul with grass to permit the launch to survey these creeks.

# COMPARISON WITH THE CHART

Chart 11485, 20th Edition, 17 July 1982, scale 1:40,000, was compared to this survey and the two agreed well. Ninety-nine percent (99%) of the charted depths agreed within one foot of the soundings taken during this survey. The remainder of the soundings agreed within two feet.

The two most significant discrepancies in depth are a two-foot depth from a misc source, charted at Latitude 28°41'57"N, Longitude 80°49'48"W. and a four-foot depth charted at Latitude 28°45'30"N, Longitude 80°46'27"W. ootside survey limits RECOMMENDATION: Supersede the charted sounding (respectively) found during this survey.concor

Other discrepancies are as follows: Allfestures addressed are from misc. sources unless noted otherwise.

Feature: sign PA Rhomate Charted at: Lat 28°43'24"N, Lon 80°46'25"W

RECOMMANDATION: Chart the sign at Lat 28°43'21.2"N, Lon 80°46'25.4". Concor

Feature: sign PA Releaser

Charted at: Lat 28°43'26"N, Lon 80°46'15"W

Position 2370

RECOMMANDATION: Chart the sign at Lat 28°43'26.7"N, Lon 80°46'13.2"W.concur

Feature: sign PA Dalak

Charted at: Lat 28°43'19"N, Lon 80°46'00"W

Reference: No sign was found within 100-meters of this location.

RECOMMENDATION: Delete "sign PA" from the chart.

Feature: sign PA Delete

Charted at: Lat 28°43'38"N, Lon 80°46'05"W

Reference: No sign was found at this location.

RECOMMENDATION: Delete "sign PA" from the chart. signs as shown on present survey.

Feature: pile (from T-9167(1948-49)]

Charted at: Lat 28°43'38.1"N, Lon 80°47'11.8"W

Reference positions 8066-8067 and 8068-8069. These positions were as shown on the present survey. taken on two stool ruins, (steel piles)

RECOMMENDATIONS: Change the charted pile to ruins at the above location. Chart the second set of ruins at Latitude 28°43'38.5"N, Longitude 80°47'07.3"W. as shown on the present survey.

П

Building symbols Feature:

Along the southern side of Haulover Canal

RECOMMENDATION: These buildings do not exist. Delete the buildings

from the chart. concor

Geographic name "Allenhurst" Feature:

Along northern side of Haulover Canal. The town of Allenhurst Charted:

no longer exists.

Remove the name from the chart. See letter to NOS RECOMMENDATION:

Chief, Geographer appended to this report.

Feature: "Markers (at 1/4 mile intervals) PA" General nata in L- se 75 - 85

These markers are piles with signs that mark the boundary of the Merritt Island Wildlife Refuge.

RECOMMENDATION: Chart the location of the boundary of the Refuge as shown Ref. 4 58/78) NOS Source on the everlay to the final field sheets. present survey

Pier Feature:

Lat 28°44'58"N, Lon 80°46'08"W Charted:

This pier originated with Survey H=6676 (1941). Reference:

evidence of this pier was found during this survey.

RECOMMENDATION: Delete this pier from the chart.concur

Cantos vote; @ 28" A4' 58" 90" 46'01"

### ADEQUACY OF SURVEY Μ.

This survey is complete and adequate to supersede all prior surveys for charting.

### AIDS TO NAVIGATION N.

All fixed aids to navigation in the survey area were located and their positions and descriptions were compared with those listed in Light List Volume II, the FFAIDS listing, and as shown on Chart 11485, 20th Edition, 17 July 1982. These aids adequately serve the apparent purpose for which they were established.

The daybeacons were located by hydrographic positions instead of third-order horizontal control because the daybeacons were single pile structures that are frequently struck by vessels traveling the Intracoastal Waterway. All the daybeacons are leaning.

No landmarks exist in the survey area. The tower on Black Point has collapsed and has no landmark value.

Copies of NOAA Form 76-40 are included in the appendix.

No overhead cables exist in the survey area. One submarine cable No overhead cables exist in the survey around 28°44'10"N, longitude exists under the bridge at Haulover Canal (latitude 28°44'10"N, longitude Section. Reference Section 28°44'10"N, longitude 80°45'17"W).

Horizontal and vertical clearances for the bridge over Haulover Canal were measured on JD 137. See volume 11 pg 45

Horizontal: 90 ft. Vertical 27 ft.

### O. STATISTICS

Total number of positions	3,797
Total number of positions	258
Lineal nautical miles of mainscheme hydrography	
limes souties miles of crosslines	26
Lineal nautical miles of developments	36
Linear nautical miles of developments	333
Total lineal nautical miles of hydrography	
Total square nautical miles of hydrography	15
Total Square material miles of my are green,	70
Number of detached positions	2
Number of stations installed	_
Number of barchecks	47
Number of barchecks	94
Number of bottom samples*	<b>J</b> -1

<sup>\*</sup>Oceanographic Log Sheet "M" are included in the appendix.

### P. MISCELLANEOUS

No tide staffs were installed at the head of Dummit Creek or any of the other small creeks that feed into the Indian River. The mouths of these creeks are foul with weeds and grass or are too shoal to allow the launches access.

### Q. RECOMMENDATIONS

No additional field work is necessary. See Sections  ${\sf H}$ ,  ${\sf K}$  and  ${\sf L}$  for additional recommendations.

### R. AUTOMATED DATA PROCESSING

The following hydroplot system programs were used during this survey:

PROGRAM	VERSION	DATE
RK201 RK211 RK212 RK216 RK300 RK330 AM602 AM602 RK407	Grid, Signal and Lattice Plot Range-Range Non-Real Time Plot Visual Station Table Load Range Azimuth Non-Real Time Plot Utility Computations Data Reformat and Check Extended Line Oriented Editor Extended Line Oriented Editor Geodetic Direct and Inverse	5/18/76 1/15/76 4/01/74 2/05/76 2/05/76 5/04/76 5/20/75 12/08/82 9/25/78

# S. REFERENCE TO REPORTS

Field Tide Note (filed with Survey H-10067). Horizontal Control Report, OPR-G207-HSB-82. Descriptive Report accompanying Survey H-10067

Respectfully submitted,

C. Brian Greenawalt

Lt, NOAA OIC, HFP-4

### ATLANTIC MARINE CENTER Hydrographic Field Parties Section

August 31, 1983

N/MOA233:CBG

TO:

N/CG2X5

Charles E. Harrington

FROM:

HFP-4

Charles B. Greenawalt'

SUBJECT: Removal of ALLENHURST from Chart 11485

During Surveys H-10067 and H-10071, HFP-4 investigated the charted geographic names within the survey area. All names were correct except ALLENHURST.

The town of Allenhurst, charted at Latitude 28°44.2'N, Longitude  $80^\circ 45.3'W$  no longer exists. All buildings were razed and the remaining foundations are overgrown. The roads remain but are in poor condition. These roads provide access for non-commercial fishermen to the banks of Haulover Canal.

All local boaters interviewed know the area as Haulover Canal, not Allenhurst. I therefore recommend the removal of the name ALLENHURST from Chart 11485.

**CLEARANCE:** 

Signature & Date

N/HOA233:RWJones

### APPROVAL SHEET SURVEY H-10071 HFP-10-1-83

The hydrographic records transmitted with this report are complete and adequate to supersede prior surveys for charting with no additional field work recommended.

I did not give direct daily supervision during the field work.

Approved and forwarded,

Ronald W. Jones

Lt. Cdr., NOAA Chief, Hydrographic Field Parties Section SIGNAL TAPE LISTING OPR-6207-HSB-82 HFP-10-1-83 H-10071 1:10000

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   **NGS published.
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			PHOTO FIELD PARTY      WYDROGRAPHIC PARTY
OBJECTS INSPECTED FROM SEAWARD	Lt. C. B. Greenawalt, OIC, HFP-4	4FP-4	GEODETIC PARTY OTHER (Specify)
		FP_4	FIELD ACTIVITY REPRESENTATIVE
COSTITIONS DETERMINED AND/OR VERIFIED			OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW			REVIEWER  QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
631141174	INSTRUCTIONS FOR ENTRIES UNDER "METHOD AND DATE OF LOCATION" (Consult Photogrammetric Instructions No. 64.	THOD AND DATE OF LOCATION Instructions No. 64.	
OFFICE IDENTIFIED AND LOCATED OBJECTS 1. OFFICE inmber and date (including month,	month,	FIELD (Cont'd)  B. Photogrammetric fie entry of method of	(Cont'd) Photogrammetric field positions** require entry of method of location or verification,
day, and year) of the photograph used to identify and locate the bject.  EXAMPLE: 75E(C)6042 8-12-75	otograph used to bject.	date of field work an graph used to locate EXAMPLE: P-8-V 8-12-75 74L(C)2982	date of field work and number of the procedurable used to locate or identify the object.  EXAMPLE: P-8-V  8-12-75  74L(C)2982
FIELD  I. NEW POSITION DETERMINED OR VERIFIED  Enter the applicable data by symbol  F - Field  Vis - Visually	ON DETERMINED OR VERIFIED applicable data by symbols as follows: P - Photogrammetric		A RECOVERED Id which is also a tri- s recovered, enter 'Triang.
d lation 5 -	Field identified	EXAMPLE: Trlang. Rec. 8-12-75	
1 1 1	Theodolite Planetable Sextant	<pre>!!. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis</pre>	SUALLY ON PHOTOGRAPH ate.
A. Field positions* require entry location and date of field wor	of method of k.	8-12-75	
		**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established	OSITIONS are dependent pon control established
*FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods.	ned by field obser- i ground survey methods.	by photogrammetric methods.	· spc

# HYDROGRAPHIC SURVEY STATISTICS REGISTRY NO.: H-10071

3788

Number of positions		3788
Number of soundings		14698
Number of control stations		7
	TIME-HOURS	DATE COMPLETED
Preprocessing Examination	16	05 MAR 1984
Verification of Field Data	378	24 JAN 1986
Quality Control Checks	105	
Evaluation and Analysis	31	17 MAR 1986
Final Inspection	12	17 APR 1986
TOTAL TIME	542	
Marine Center Approval		29 APR 1986

Transmittal letter of survey and survey records will be included in the Descriptive Report to identify the records accompanying the survey.

IOAA FORM 61-29 U. S. DEPARTMENT OF COMMEI 12-71) NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRAT	ION REPERENCE NO.
LETTER TRANSMITTING DATA	MOR 23 - 82-86 DATA AS LISTED BELOW WERE FORWARDED TO YOU BY (Check):
	ORDINARY MAIL AIR MAIL
O:	REGISTERED MAIL EXPRESS
CHIEF, DATA CONTROL SECTION HYDROGRAPHIC SURVEYS BRANCH, N/CG243	GBL (Give number)
NATIONAL OCEAN SERVICE, NOAA ROGKVILLE, MD 20852	DATE FORWARDED
ر -	July 30, 1986 NUMBER OF PACKAGES
NOTE: A separate transmittal letter is to be used for each type of	2 (Ibox, Itube
	INDIAN RIVER
tion the original and one copy of the letter should be sent unde receipt. This form should not be used for correspondence or trans	mitting accounting to connents.
r loot ork-day	
PACKAGE #1 (BOX) 2 CAHIERS FINAL PRINTOUTS A ORGINIAL DESCRIPTIVE REP PACKAGE #2 (TUBE) 1 SMOOTH SHEET 1 FINA	ΔRT
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DATE: 12/3/84
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

# TIDE NOTE FOR HYDROGRAPHIC SHEET

Marine Center: Atlantic

**OPR:** G207

Hydrographic Sheet: H-10071

Locality: Indian River, Florida

Time Period: February 16 - May 16, 1983

Tide Station Used: 872-1374 Allenhurst, Florida

Height of Mean High Water Above Plane of Reference:

Remarks: Recommended Zoning

Zone Direct

Chief, Tidal Datums Section

NOAA FORM 76-155 (11-72) NA	ATIONAL	OCEANIC			ENT OF CO		SU	RVEY NU	MBER	
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### ATLANTIC MARINE CENTER EVALUATION REPORT

REGISTRY NO.: H-10071

FIELD NO.: HSB-10-1-83

Florida, Indian River, Black Point to Duckroost Point

SURVEYED: February 16 through May 21, 1983

SCALE: 1:10,000

PROJECT NO.: OPR-G207-HSB-82

Raytheon DE-719B Echo SOUNDINGS:

Sounder, Pole

Range/Range - Del Norte CONTROL:

"See Field Sheet" Method

R. W. Jones Chief of Party .....

.........

••••••

C. B. Greenawalt Surveyed by .....

E. Martin

D. Bryant L. Biscorner 

R. Adams

R. Lacy

F. W. Rossmann

D. Elliot

C. Bush

M. McMann

J. Oswald

Xynetics 1201 Plotter (AMC) Automated Plot by .....

#### INTRODUCTION 1.

- No unusual problems were encountered during evaluation.
- The sounding datum in this area is a local vertical datum and is referred to as LOW WATER DATUM. Tidal conditions are such that Mean Lower Low Water is not definable. Most features 1 foot or more above LWD are exposed at high water stages resulting from meteorological conditions. Elevations of features seaward of the shoreline are referenced to Low Water. Their descriptive labels are shown in vertical lettering when they extend 1 foot or more above LWD.
- Changes in the Descriptive Report were made in red during office processing.

#### CONTROL AND SHORELINE 2.

Control is adequately discussed in sections F and G of the Descriptive Report.

b. Shoreline originates with Class I registered shoreline (orthophoto) maps TP-00105 and TP-00106 of 1967-70. Shoreline revisions in red are by the hydrographer.

### 3. HYDROGRAPHY

- a. Depths at crossings are in good agreement.
- b. The standard depth curves are adequately delineated except for portions of the O-foot depth curve because of its proximity to shore and the existence of thick grass in nonnavigable areas of the foreshore. The 3-foot depth curve, a brown curve, and some dashed depth curves were added to emphasize shoal features.
- c. The development of the bottom configuration and the determination of least depths are considered adequate.

### 4. CONDITION OF SURVEY

The smooth sheet and accompanying overlays, hydrographic records, and reports comply with the requirements of the Hydrographic Manual.

### 5. JUNCTIONS

The junction with H-10067 (1982-83) on the south is discussed in the evaluation of that survey. No contemporary survey junctions with the present survey on the north. However, present depths are in good agreement with charted depths.

# 6. COMPARISON WITH PRIOR SURVEYS

# a. H-6676 (1941) 1:10,000

This survey covers the area common to the present survey. A comparison between present and prior depths reveals no significant differences except in the vicinity of the spoil areas located north of the Intracoastal Waterway where differences are attributed to subsequent dredging operations.

Most of the creeks and the foreshore areas on both sides of the river are now unnavigable and noted as foul because of the existence of thick grass.

The present survey is adequate to supersede the prior survey within the common area.

### b. T-9167 (1948-49) 1:20,000 T-9168 (1948-49) 1:20,000

These Class I registered shoreline maps cover the area common to the present survey and are superseded by the present survey within the common area.

# 7. COMPARISON WITH CHART 11485 (20th Edition, July 17, 1982)

### a. Hydrography

The charted hydrography originates with the previously discussed prior surveys which require no further consideration, supplemented by U.S. Army Corps of Engineers surveys and other miscellaneous sources.

The present survey is adequate to supersede the charted hydrography within the common area.

### b. Controlling Depths

The controlling depth for the portion of the Intracoastal Waterway covered by the present survey originates with U.S. Army Corps of Engineers surveys of May and June 1982. Present survey depths are in agreement with the published controlling depths.

### c. Aids to Navigation

The aids to navigation located on the present survey are in substantial agreement with their charted positions and adequately mark the features intended.

### d. Overhead Power Cable

The overhead power cable (authorized clearance of 85 feet) charted at Haulover Canal Bascule Bridge at latitude 28°44.17'N, longitude 80°45.28'W was reported to no longer exist. The Nautical Data Unit has been asked to verify this information with the U.S. Army Corps of Engineers.

# 8. COMPLIANCE WITH INSTRUCTIONS

This survey adequately complies with the project instructions.

# ADDITIONAL FIELD WORK

This is a very good basic survey and no additional work is recommended.

Cartographic Technician Verification of Field Data S. R. Baumgardner

Cartographer
Standards Section (N/CG242)
Evaluation and Analysis

Senior Cartographic Technician

Verification Check

# Inspection Report H-10071

The completed survey has been inspected with regard to survey coverage, delineation of depth curves, development of critical depths, cartographic symbolization, and verification or disproval of charted data. The survey complies with National Ocean Service (NOS) requirements except as noted in the Evaluation Report. The survey records comply with NOS requirements except where noted in the Evaluation Report.

Inspected

George K. Myers

Chief, Standards Section (N/CG242)

Hydrographic Surveys Branch

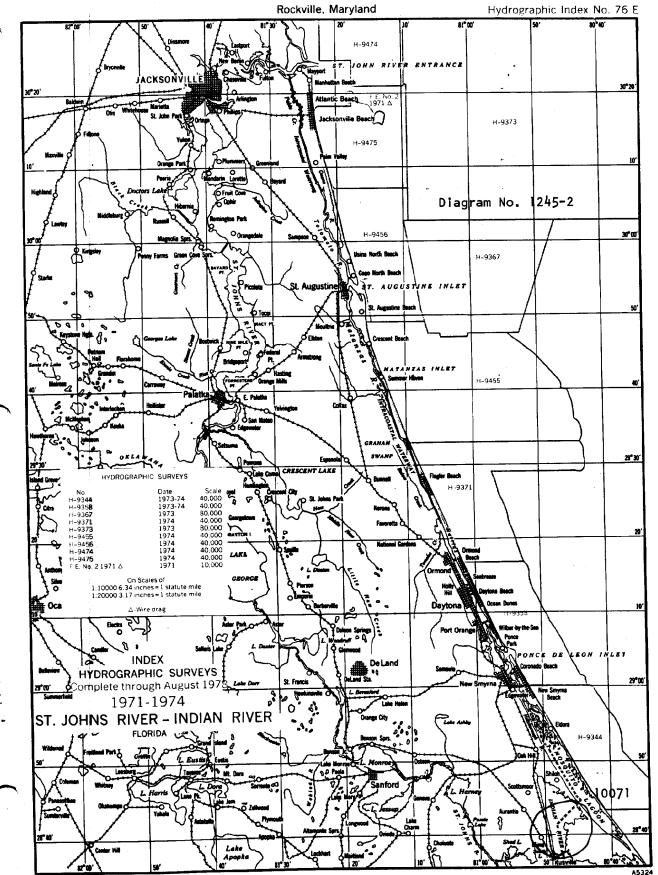
**Approved** 

Wesley V. Hull, RADM, NOAA

Director, Atlantic Marine Center

# DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration

National Ocean Survey



### MARINE CHART BRANCH **RECORD OF APPLICATION TO CHARTS**

H-10071

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

	-		2142
INSI	IHL	IC II	ONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

- 1. Letter all information.
- 2. In "Remarks" column cross out words that do not apply.
- 3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
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SUPERSEDES CAGS FORM 8352 WHICH MAY BE USED.

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