9746

Diag. Cht. No. 1245

NOAA FORM 76-35A

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

DESCRIPTIVE REPORT

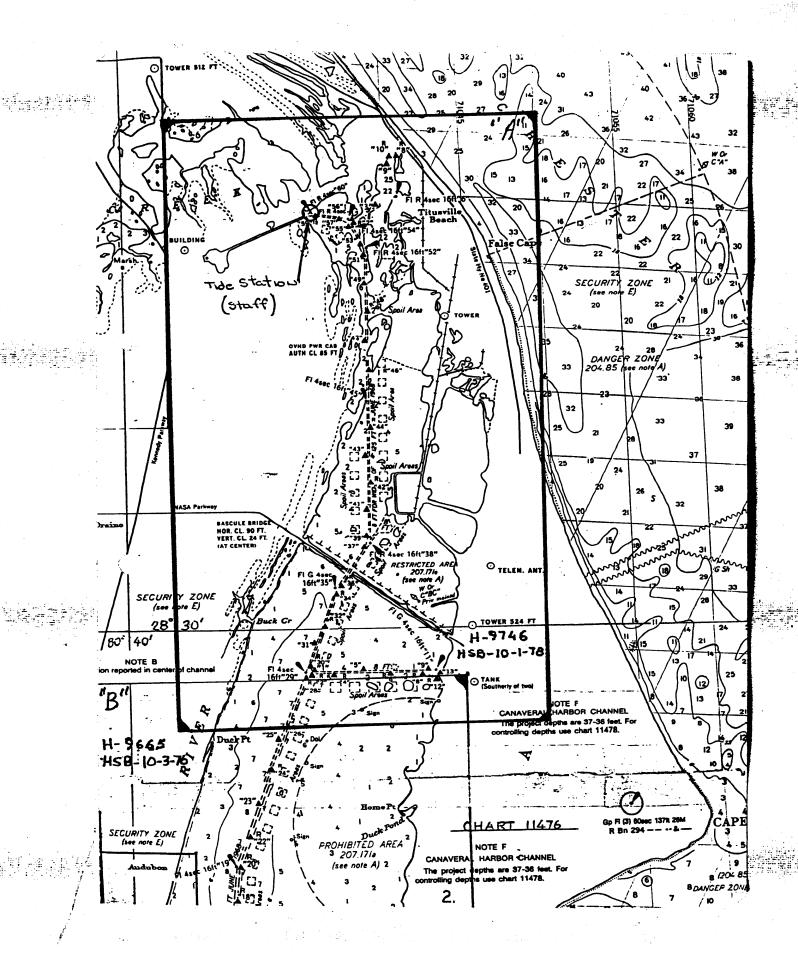
(HYDROGRAPHIC)

Type of Survey
LOCALITY
State Florida
General Locality Banana River
Locality Puck Creek to Pintail Creek
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19 78
CHIEF OF PARTY Thomas W. Richards
LIBRARY & ARCHIVES
DATE July 28, 1979
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☆ U.S. GOV. PRINTING OFFICE: 1976-669-441

(OAA FORM 77-28 U.S. DEPARTMENT OF COMMERCE (11-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	RIEGISTER NO.
HYDROGRAPHIC TITLE SHEET	н-9746
INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.	FIELD NO. HSB-10-1-78
Scate Florida	
General locality *Banana River	
Locality North Banana River Buck Creek A	o Pintail Creek
Scale 1:10,000 Date of sur	vey 8 March - 19 May 1978
Instructions dated 1 October 1975 Project No.	OPR-G207-HFP-78
Vessel NOAA Launch 1286 and Skiff 570	
Chief of party LCDR Thomas W. Richards	
"Surveyed by LT. Stanley R. Iwamoto	
Soundings taken by echo sounder, HANGENE Pole	
Graphic record scaled by **SRI, MB, LCG, RS, JD, ED	
Graphic record checked by SRI MB LCG	
Protracted by LCG, SRI Automa	XYNETICS 1201
Verification by	J. S. Bradford June 25
Soundings in Market feet at The XXXXXX	J. J. Frontoic June &
REMARKS: *Sounding Volumes show Canaveral, Fl	. as General locality
** SRI - S. R. Iwamoto, MB - M. Bradley, LC	G - L.C. Gilden,
RS - R. Snow, JD - J. Daniel, DE - Dave Ell	iott
	:
applied to stale 2/6	/80 LAGE
1.	



DESCRIPTIVE REPORT TO Accompany HYDROGRAPHIC SURVEY H-9746 (HSB-10-1-78)

Scale 1:10,000 (1978)
LCDR Thomas W. Richards

Hydrographic Field Party #3
Chief of Party

A. PROJECT

This survey was conducted in accordance with project instructions OPR-499-AHP-76 (G207), dated October 1, 1975, and the following changes; Change No. 1, January 16, 1976; Change No. 2, December 7, 1977; Change No. 3, December 21, 1977; Change No. 4, January 31, 1978; and Change No. 5, June 12, 1978.

B. AREA SURVEYED

The survey area includes the Banana River from its northern limit at approximate Lat. 28°36' to below the NASA Causeway at approximate Lat. 28°29'. Survey operations began March 8, 1978, and were completed May 19, 1978.

C. SOUNDING VESSEL

NOAA Launch 1286, a 20-foot Monark with 85 HP outboard, and Skiff 570, a 13-foot Boston Whaler with 25 HP, were used to obtain all soundings.

D. SOUNDING EQUIPMENT AND CORRECTIONS TO ECHO SOUNDINGS

A Raytheon 719B (s/n 5881) fathometer was used on both Launch 1286 and Skiff 570. The transducer is mounted on a through hull fitting midships for Launch 1286. Skiff 570 had a portable transducer mounted outboard on the port quarter.

Pole soundings were taken when the bottom trace was obscured by the initial trace, generally less than 2.0 feet.

Velocity corrections were determined from bar checks. Bar check data were averaged and corrections are applied on Velocity Tables 1 and 2. Velocity correctors were not applied to soundings plotted in the field.

A static transducer draft of one (1) foot was used for Launch 1286, 0.4-foot for Skiff 570. These corrections are applied to soundings on the field sheet.

The initial was maintained at zero on line; any variations observed were recorded during scanning and corrections were applied via the TC-TI tape.

A settlement and squat test was run on the Banana River on March 22, 1978 with Launch 1286. The correction observed was 0.2 foot at all sounding speeds. The abstract of the settlement and squat test is appended.

Skiff 570 was always run at slow speeds when sounding so no settlement and squat correctors were necessary.

E. HYDROGRAPHIC SHEETS

Field sheets were prepared at Processing Division, AMC, Norfolk. Shoreline was transferred from the topographic manuscripts listed in Section H of this report. Hydrographic data was manually logged, plotted and edited in the field. Data will be forwarded to AMC for final smooth plotting.

F. CONTROL STATIONS

All control stations used were of 3rd order accuracy. Stations were located and/or verified by Hydrographic Surveys Branch, Norfolk. Ref. Control Report OPR-G207 HFP-78, March 1978, also Photo Party #61, OPR-499-AHP-76, Control Report, August 1976, and Supplemental Control Report, March 1977.

G. HYDROGRAPHIC POSITION CONTROL

The launch and skiff were positioned by range-range and range-azimuth control methods. In the range-range mode, two (2) remote Del Norte units were positioned on two (2) shore control stations while the master and DMU were installed aboard the launch or skiff. In range-azimuth mode, a Wild T-2 and a remote Del Norte were colocated at a shore station, while the master and DMU were on board the launch or skiff.

The following equipment was used:

T-2 12118 DMU 429
Master 78M 912 Remote 72R (256)
Remote 76R (251) Remote 74R (262)

Del Norte was calibrated daily along inverse distances between 3rd order stations. Del Norte correctors were maintained at zero. No variations greater than three (3) meters were observed from one calibration to the next. Calibrations are recorded in the sounding volume.

H. SHORELINE

Shoreline detail was transferred to the field sheets from TP 00135, 00114, 00111, 00110. Field Edit was accomplished in 1971 and had been applied to these orthophotos.

Shoreline changes since field edit was accomplished are indicated on the field sheet in red ink.

Significant changes were observed in the vicinity of Lat. 28°35.2'N, Long. 80°36.5'W. See JD 102, Pos. 873-880 and 883-890. JD 136, Pos. 6969 - 6972.

The small island charted at approximately 28°30.65, 80°35.8 is no longer exposed at MLW and should be shown as awash on the chart. See JD 107, Pos. 6424, D.P. on shoal awash.

I. CROSSLINES

Crosslines were run at 12% of the regular lines. Crossings are excellent with no observed disagreements greater than one foot.

J. JUNCTIONS

This survey has one junction at the southern limit of the sheet and is with Contemporary Survey H-9665 (OPR-499, 1976). Junction is excellent with no disagreements greater than one foot.

K. COMPARISON WITH PRIOR SURVEYS

This survey was compared with Prior Survey H-1415, 1:20,000, 1878.

The entire area has changed drastically so a detailed comparison is of little value. The NASA causeway and all dredged channels with accompanying spoil banks are not indicated on the prior survey.

L. COMPARISON WITH THE CHART

This survey was compared with Chart 11484, 11th Ed., June 4, 1977, 1:80,000.

Depths agree to within one foot south of the NASA causeway. Only a few soundings are charted north of the NASA Causeway and these agree within 1 to 2 feet with the field sheet. The \swarrow chart does not show the deep holes caused by "fill dredging."

Exposed ruins indicated on Manuscript TP 00135 were verified, JD 123, Pos. 1310 & 1311. These ruins are not presently charted. It is recommended the ruins be charted (bare 2' MLW) at Lat. 28°29.88', Long. 80°37.94'.

on smooth sheet

7195

An uncharted submerged pipe was located on JD 138, Pos. 1879 at Lat. 28°30.78, Long. 80°37.02'. The pipe is 2" diameter, submerged one foot and should be charted. The 2" pipe is considered a "Danger to Navigation" and was reported to the United States Coast Guard and C322 by memo. Copies of this correspondence are appended. pipe (0) on smooth sheet

All maintained channels are adequately marked and control ... depths are correct.

The numerous deep holes shown on this survey are the result of dredging fill for causeways and construction and should be charted.

M. ADEQUACY OF SURVEY

This survey is complete and adequate to supersede prior surveys of the area.

N. AIDS TO NAVIGATION

Aids to navigation in the survey area are accurate on Chart 11484 and Light List Vol. II, 1978. All aids were found to be adequately positioned for their intended purpose. Banana River (North) Dbn "44" ELT. "45" were not addiessed in the survey records.

STATISTICS

	700	
Number of positions	Launch 1286 Skiff 570	660 2041
Number of Tide Stations		2
Nautical miles of sounding line	Launch 1286 Skiff 570	81.1 150.1
Square miles of Sounding Line		9.7
Bottom Samples		56

P. MISCELLANEOUS

Dredging operations are scheduled this summer in all channels.

Q. RECOMMENDATIONS

None

R. AUTOMATED DATA PROCESSING

Data was manually recorded, logged and plotted in the field. Data tapes were edited with Elinore, AM-602, 5/20/75; calibration distances determined with RK-407, Geodetic - Direct & Inverse Computations 10/23/75. G.p.'s determined by Program AM-401 Transverse Mercator State Plane Coordinate Forward and Inverse 4/1/73.

Utility Computations RK-300, 2/5/76.

S. REFERENCE TO REPORTS

Control Report OPR-G207_HFP-78, March, 1978.
Field Edit Report 1971.
Control Report, August, 1976, Photo Party #61, OPR-499-AHP-76.
Descriptive Report, OPR-499, Banana and Indian Rivers, Florida,
H-9665(HSB-10-3-76).

Respectfully submitted,

Stanley R. Iwamoto

LT. NOAA

APPROVAL SHEET

SURVEY H-9746 (HSB-10-1-78)

The hydrographic records transmitted with this report are complete and adequate to supersede prior surveys for charting. Direct daily supervision was not given by me during the field work. No additional field work is recommended.

Approved and forwarded,

Thomas W. Richards

LCDR, NOAA

Chief, Hydrographic Surveys Branch

FIELD TIDE NOTE H-9746 HSB 10-1-78

Predicted tides were not applied since tide levels range less than 0.2 foot. Non-periodic water level changes were less than 0.5 foot observed at the northern limits of the survey area.

One tide gage was operated in the survey area; Cape Canaveral Locks #872-1609 installed November 4, 1977, Removed May 22, 1978. Levels were run November 7, 1977, and May 22, of functs 1978. The gage is located at Lat. 28°24.5', Long. 80°38.3'.

A tide staff was installed and leveled March 7, 1978; removed and leveled again on May 22, 1978. The staff was located at Lat. 28°35'36", Long. 80°37'12" and was read during periods of hydrography above Lat. 28°34.5'.



U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration

NATIONAL OCEAN SURVEY
Hydrographic Surveys Branch
439 W. York Street
Norfolk, Virginia 23510

June 7, 1978

CAM11/RAL

TO:

Chief, Tides Branch

Rabut Lewis

FROM:

LCDR Thomas W. Richards

Chief, HSB

SUBJECT:

Request for Tide Data

Please furnish tide data to AMC Processing Division for Survey H-9746 (HSB-10-1-78), Project OPR-G207-HFP-78 (OPR-499-AHP-76).

One tide gage at Cape Canaveral Locks (#872-1609) was in operation during hydrography on this survey. A tide staff was installed and leveled 7 March 1978 at Lat. 28 35'36", Long. 80 37'12" (Lt. "60"). The staff was read during periods of hydrography north of Lat. 28-34.5'.

The following times of hydrography include two hours before and after actual times:

J.D. 1978	Hydro Begins (GMT)	Hydro Ends (GMT)
067	1200	1800
072	1100	2400
073	1100	1900
074	1200	2400
075	1300	1900
086	1400	2400
087	1400	2300
089	1500	2100
090	1300	2200
093	1300	2300
094	1300	2200
095	1200	2400
096	0000	0100
097	1200	2200
101	1300	2400
102	1300	2300
104	1500	2100
107	1300	2400
110	1200	2400



U.S. DEPARTMENT OF COMMERCE July 19, 1978NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY

TIDE NOTE FOR HYDROGRAPHIC SHEET

Processing Division Atlantic Marine Center:

Hourly heights are approved for

872-1609 Cape Canaveral Locks, Fl.

Tide Station Used (NOAA Form 77-12): 872-1475 Kennedy Space Center, Fl. (staff only)

Period: March 8 - May 19, 1978

HYDROGRAPHIC SHEET: H-9746

OPR: 499 G 207

Locality: Banana River, Florida

(low water datum

): 2.46 ft.-Cape Canaveral

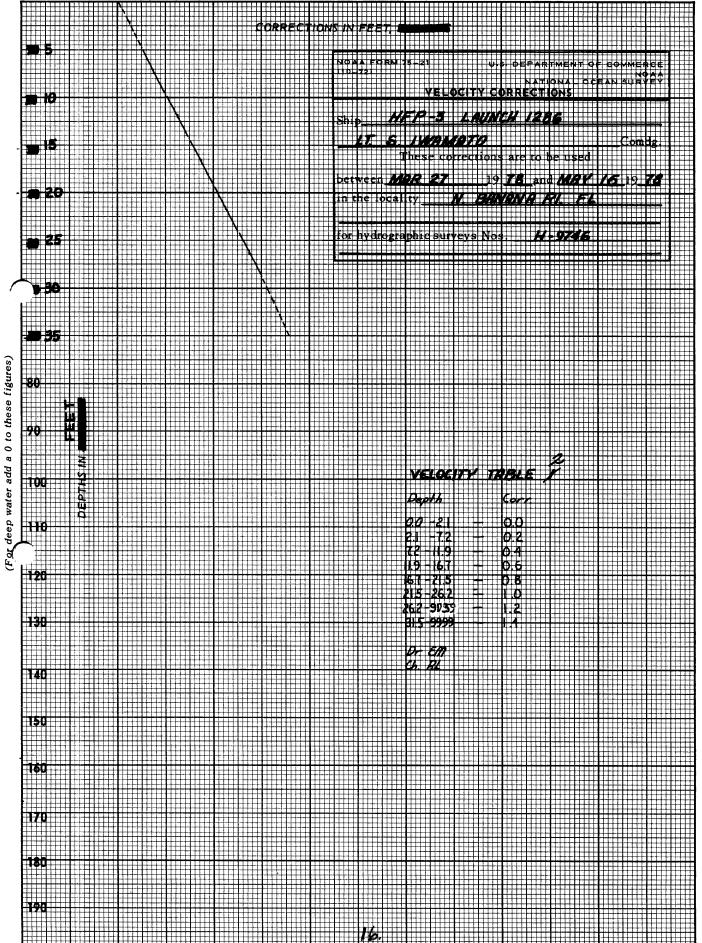
Plane of reference (mean-lower-low-water): 1.4 ft. - Kennedy Space

Height of Mean High Water above Plane of Reference is

Recommended zoning: Remarks:

Zine 2 (1) North of 28°34.5' zone direct on Kennedy Space Center.

Zone"/ (2) South of 28°34.5' zone direct on Cape Canaveral.



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SIGNAL LIST

HFP-3

SKIFF 570, LAUNCH 1286

OPR-G207

H-9746, HSB 10-1-78 JD067-JD139

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		COMPILER	1
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OLUMN TITLE	TYPE OF ENTRES	···.	
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★ U.S. GOVERNMENT PRINTING OFFICE: 1971-769374/445 REG.A

3. Position Verified - Enter 'Verif. mo/day/yr.'

NOAA FORM 76-40 (2-71)

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- 1		GRN REFL		51 28-82	9	80-36	770	\$5.45 ST. 5.50		R/A De/Nark 7-2 (3)	ì	
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	1730, "41"							4-17-78			i	T
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	RESPONSIBLE PERSONNEL		
	NAME	TITLE	
Objects inspected from seaward	WEDS	FIELD INSPECTOR	
		FIELD INSPECTOR	
. Positions determined and/or verified		FIELD EDITOR	
		COMPILER	
. Forms originated by Quality Control and Review Group and final review activities		REVIEWER QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	
	INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION	. 1955	
IOTE: 'Photogrammetric Positions' are dependent entirely 'Field Positions' are determined by field observations be	'Photogrammetric Positions' are dependent entirely, or in part, upon control established by photogrammetric methods. 'Field Positions' are determined by field observations based entirely upon ground control.	c methods.	
COLUMN TITLE	TYPE OF ENTIRES	weeks T	
COMPILATION	Applicable to office identified and located objects only. Enter the number and date of the photograph used to identify the object.	mber and date of the photograph used to	_
TELD INSPECTION	1. New Position Determined-Enter the applicable data by symbols as indicated below:	below:	•
AND HELD EDIT	F - Field 1. Frield identified	EXAMPLES:	
		J. 3.0	
•	3. Intersection 3. Planetable 4. Resection 4. Sextant	P.2	
	a. Theodolite	•	
	c. Sextant		
	Immediately beneath the data described above, enter the following:	· density · f	
	a. For 'Field Positions' enter the date of location. b. For 'Photogrammetric Positions' enter the date of field work; and, if a photograph was used in locating the object or the object was identified on a photograph, enter the number of the photograph used	itograph oh, enter the number of the photograph used.	
	2, Triangulation Station Recovered - Enter 'Triang, Rec. mo/day/yr.'	e en	
NOAA FORM 78-40 (2-71)	3. Position Verified - Enter 'Verif. mo/day/yr.' * U.S. GOVERNM	U.S. GOVERNMENT PRINTING OFFICE: 1971-769374/445 REG.	S REG.
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NOAA FORM 76-40	40	U.S. DEPARTMENT OF		MERCE-NA.	TION AL OC	EANIC AND	COMMERCE-NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	IINISTRATION	ORIGINATING ACTIVITY	TIVITY	
PRESCRIBED BY	RESCRIBED BY PHOTOGRAMMETRY INSTRUCTION NO. 64.	NONFLOAT		AIDS OR	LANDM	ARKS FO	ING AIDS OR LANDMARKS FOR CHARTS	l	X FIELD INSPECTION	NOIL	
	TO BE CHARTED TO BE DELETED	ORIGINATING LOCATION HFP3 HYOROGK	ECCEAP PCCAAP	HAMIC SU	SURVEYS G HSB	3RANCH 10-1-78	<i>H</i> ,	DATE 30 MAY 1978	COMPILATION FINAL REVIEW QUALITY CONTROL AND F #VIEW	FROL AND F	VIEW
The following	The following objects have (have not) been inspected from seaward	been inspected from s		stermine th	to determine their value as landmarks:	s landmark:	: \$		(See reverse for responsible persignuel)	onsible pers	innel)
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STATE: FLORIDA	02104	TP-00/14		POSITION	NOI		(See instruction	(See instructions on reverse of this form)	of this form)		
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NAME	DESCRIPTION	NO.	`	D.M.METERS	`	D.P.METERS	INSPECTION	COMPILATION	lastion	•	
	RED REFL		CE-22	34	80-30	Ŝ	NSW NSW		R/R JANG		
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"32" '80 N						Ġ	12-78			"	
4.	GRN REFL	77-00135	62-83	, 815	80-37	13	F34		"		<u>. </u>
"/E" (180)			ř			·	5-17-78			"	
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D801 2"					,		2-11-5			;	
	RED REFL		62-82	64	80-30 57	Ì			*		
OBa, "4"							2-11-5				

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34.

1. Objects inspected from seaward	NF/03		FIELD EDITOR	
	h		FIELD INSPECTOR	
2. Positions determined and/or verified			FIELD EDITOR	
			COMPILER	
3. Forms originated by Quality Control and Review Group and final review activities			REVIEWER QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	****
	INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION	N' SECTION		
NOTE: 'Photogrammetric Positions' are dependent entirely, 'Field Positions' are determined by field observations ba	dependent entirely, or in part, upon control established by photogrammetric methods. field observations based entirely upon ground control.	photogrammetric	methods.	······································
COLUMN TITLE	TYPE OF	TYPE OF ENTRIES		a. ••
COMPILATION	Applicable to office identified and located objects only. Enter the number and date of the photograph used to identify the object.	/. Enter the num	ber and date of the photograph used	2
TELD INSPECTION	1. New Position Determined-Enter the applicable data by symbols as indicated below:	ols as indicated be	dow:	
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	2. Traverse 2. The 3. Intersection 3. Discontinual discon	2. Theodolite	F. 3.c	
	-	4. Sextant	P.2	•
•	a. Theodolite			
	b. Planetable			
	c. Sextant			
	Immediately beneath the data described above, enter the following:	owing:		
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	was used in locating the object or the object was identified on a photograph, enter the number of the photograph used	od on a photograph,	graphi enter the number of the photograph use	- -
	2, Triangulation Station Recovered - Enter 'Triang, Rec. mo/day/yr.'	ay/yr.		
IOAA FORM 76-40 (2-71)	3. Position Verified - Enter 'Verif. mo/day/yr.'	U.S. GOVERNMENT	U.S. GOVERNMENT PRINTING OFFICE: 1971-769374/445 REG.	45 REG.1

<u>(</u>

e de	CTIVITY ,	ECTION	COMPILATION FINAL REVIEW QUALITY CONTROL AND FEVIEW	See reverse for responsible personnel)		••	CHARTS	AFFECTED		18811			•		,			"			· · · · · · · · · · · · · · · · · · ·	••	
184	ORIGINATING ACTIVIT	FIELD INSPECTION	COMPILATION FINAL REVIEW	(See reverse for n	LOCATION	of this form) 👵	Hulto		R/R Warte	Derman	" "	* "	•	. 11	•		R/R Norfe		11 11	K/R	DelNone		
	DMINISTRATION		DATE 30 MAY 1978	·	METHOD AND DATE OF LOCATION	(See instructions on reverse of this form)		COMPILATION															
	F-COMMERCE-NATIONAL OCEANIC AND ATMOSPH! C ADMINISTRATION	NONFLOAT NG AIDS OR LANDMARKS FOR CHARTS	<i>*</i> 2	KS :	METHOD /	(See instruct		FIELD		5-17-78		5-11-18	5-5-78		5-5-18			5-2-28	5-5-74		5-5-78		
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	-NATIONAL	OR LAN	SURVE 46 H	DipA Hatti	727	POSITION	LO	ER3	80-36		96-98	, 80-35	1	80-35			80-35	1	80-35	\$6-35			
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	U.S. DEPARTMENT O		ORIGINATING LOCATION HEP3 HYDROGRAPHIC SURVEYS OF G207 H 9746 HSB	District Name of the Control of the	SURVEY NUMBER T -	TP-00/35		NO												: : : : : : : : : : : : : : : : : : : :			
07	÷	PRESCRIBED BY Photogrammetry instruction no. 64.	TO BE CHARTED HFP3 HYDROGRAPHIC SURVEYS BRALLI TO BE DELETED OPC GRO7 H 9740 HSB 10-1-7 The following objects have that inspected from seaward to determine this value of the following objects have the follo		-	ELORIDA		DESCRIPTION	GRN REFL		RED REFL	RED PRES	1	GRN REFL			Ø	F4.6.40	RED REFL	BRN REFL			
NOAA FORM 74-40	(2-71)	PRESCRIBED BY	To BE C		PH-	STATE: FLOK	CHARTING	NAME		0805"	, ', ', ', ', ', ', ', ', ', ', ', ', ',		7.8.080 3.	3	08m 9			1	Obv "2"		OBn 13"		

	RESPONSIBLE PERSONNEL	i. i.e.
TYPE OF ACTION	NAME	
1. Objects inspected from seaward	HFP.3	FIELD INSPECTION
	•	FIELD INSPECTOR
2. Positions determined and/or verified		FIELD EDITOR
		COMPILER
3. Forms originated by Quality Control and Review Group and final review activities		REVIEWER QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
	INSTRUCTIONS FOR "METHOD AND DATE OF LOCATION" SECTION	
NOTE: 'Photogrammetric Positions' are dependent entirely 'Field Positions' are determined by field observations be	'Photogrammetric Positions' are dependent entirely, or in part, upon control established by photogrammetric methods. 'Field Positions' are determined by field observations based entirely upon ground control.	c methods.
COLUMN TITLE	TYPE OF ENTRIES	
COMPILATION	Applicable to office identified and located objects only. Enter the number and date of the photograph used identify the object.	mber and date of the photograph used to
PECTION	1. New Position Determined-Enter the applicable data by symbols as indicated below:	elow:
AND FIELD EDIT	F - Field Photogrammetric	EXAMPLES:
	1. Triangulation	- (
	2. Traverse 2. Theodolite	F. 3.0
	3. Intersection 3. Planetable	•
	4. Resection 4. Sextant	P.2
	a. Theodolite	***
	b. Planetable	
	c. Sextant	
	Immediately beneath the data described above, enter the following:	Taban
	a, For 'Field Positions' enter the date of location.	
	b. For 'Photogrammetric Positions' enter the date of field work; and, if a photograph	tograph
	was used in locating the object or the object was identified on a photograph, effer the number of the photograph used	n, enter ure number of the protograph used.
		A. Venenger and A. Venenger

3. Position Verified - Enter 'Verif. mo/day/yr.'



U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration

NATIONAL OCEAN SURVEY
Hydrographic Surveys Branch
439 W. York Street
Norfolk, Virginia 23510

June 16, 1978

CAM11/RAL

TO:

Chief, Nautical Chart Branch

C322

FROM:

ALCOR Thomas W. Richards

Chief, Hydrographic Surveys Branch

SUBJECT:

Advance information - Danger to Navigation -

Banana River, Florida (Chart 11484)

The enclosed copies of overlays and letter have been transmitted to the Commander, Seventh Coast Guard District.

The submerged pipe is considered to be a "Danger to Navigation" and is located on contemporary survey H-9746 (HSB-10-1-78) accomplished by HFP-3, Launch 1260.





U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration

NATIONAL OCEAN SURVEY

Atlantic Marine Center Hydrographic Surveys Branch 439 W. York Street Norfolk, Virginia 23510

June 15, 1978

TO:

Commander

Seventh Coast Guard District

FROM:

LCDR Thomas W. Richards

Chief, HSB

SUBJECT:

Information pertinent to navigation in the

Banana River, Florida (Chart 11484)

The following information is a result of a recent National Ocean Survey hydrographic survey of the Banana River, Florida H-9746 (HSB-10-1-78).

A 2" iron pipe, submerged 1 foot was located by one of our survey parties while conducting hydrographic operations. The pipe is located in an area frequently used by small-craft and should be considered a "Danger to Navigation."

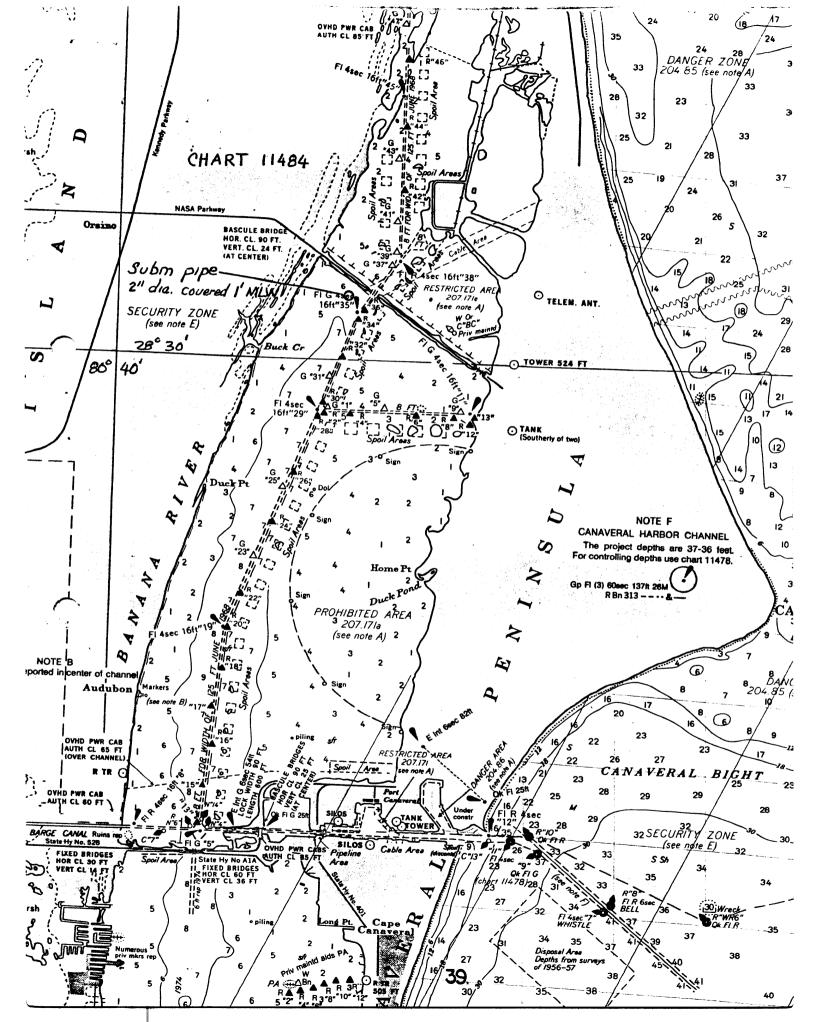
The pipe was located by "Range/Azimuth" techniques, a Del Norte distance/Wild T-2 angle. A pole sounding of 0.8 feet was obtained on the pipe.

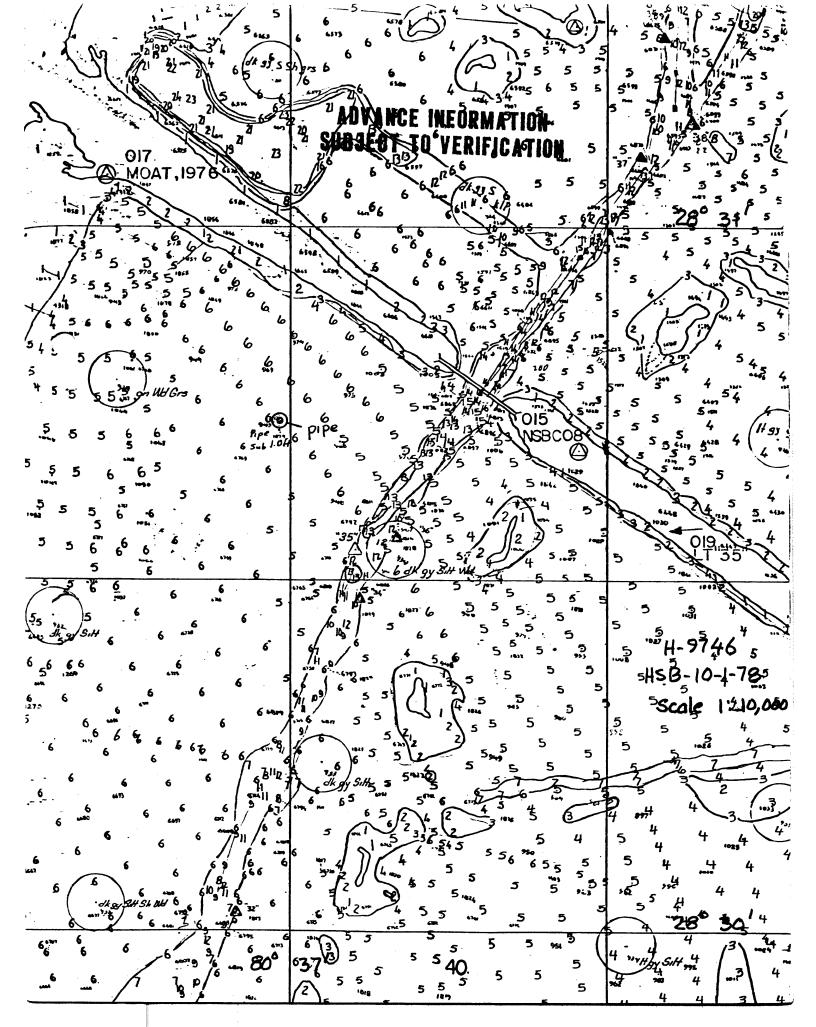
Although the following location of the pipe is subject to office verification it is considered to be a good position.

Date of location -Latitude Longitude

18 May 1978 28⁰30.73' 80⁰37.02'







	10AA FORM 76-155 U.S. DEPARTMENT OF COMMERC 11-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIO							SURVEY NUMBER			
	GEOGRAPHIC NAMES H-9746										
	Name on Survey A on chart no. D E Survey A on chart no. Con D E Survey A surve								Liour	SHERTS	
		/A °	Z g°	<u>*°/ e'`</u>		<u> </u>	/ F `	/ c *	/ _H 3	/ K E	
	Banana River	X								· х	1
	Bluebill Treek V									Х	2
	Buck Treek /	X -								х	3
	Futch Point /									Х	4
	Harrison Island 🗸		-							х	5
ı	Jack Davis Cut /									Х	6
-	Jack Davis Island			-					•	Х	7
	Merritt Island	X								Х	8
	NASA Causeway									X	9
	Peterson Point									X	10
	Pintail Creek /	. ,								*	11
	Saturn Barge Channel									¥	12
	Tea Creek 🗸									*	13
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٠	WHITES POINT						·				16
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						23	Aug.	1979			24
											25

APPROVAL SHEET FOR SURVEY H- 9746

- A. All revisions and additions made on the smooth sheet during verification have been entered in the magnetic tape records for this survey. A new final position printout has/has not been made. A new final sounding printout has/has not been made.
- B. The verified smooth sheet has been inspected, is complete, and meets the requirements of the Hydrographic
 Manual. Exceptions are listed in the Verifier's Report.

Date: 7/13/79

Signed:

Title: Chief, Verification Branch

NOAA FORM (5-77)	1 77–27		ι	ENT OF COMMERCE	HYDROGRAPHIC SURVEY NUMBER H-9746					
	HYDROGE	RAPH	IC SURVE	<u>Y STATISTI</u>	CS	1743] 40				
	CCOMPANYING SU	RVEY:			The second secon		AMOUNT			
RECOR	D DESCRIPTION		AMOUNT		RECORD DESCRIPTION					
SMOOTH SH	EET		1	BOAT SH	HEETS & PRELIMINAR	ETS & PRELIMINARY OVERLAYS				
DESCRIPTI	VE REPORT		1	SMOOTH	OVERLAYS: POS. AR	ERLAYS: POS. ARC, EXCESS				
			IZ. CONT. ECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS			
ENVELOPES							1-Tides & misc. date			
CAHIERS	2- with printou	its								
VOLUMES	<u> </u>									
BOXES				1-Smoo	oth					
T-SHEET P	RINTS (List)									
SPECIAL RE	PORTS (List)									
	The following	statisti		OCESSING ACT mitted with the c	IVITIES artographer's report on	the survey				
	PROCESSIN	G ACTI	VITY			AMOUNTS				
				PRE - VERIFICATION	VERIFICATION	TOTALS				
POSITIONS ON SHEET 2757					liam		2757			
POSITION	IS CHECKED				435					
POSITION	IS REVISED		**************************************			73				
SOUNDINGS	REVISED					103				
SOUNDINGS	ERRONEOUSLY SF	PACED				0				
SIGNALS (CO	ONTROL) ERRONE	OUSLY	PLOTTED			0				
						TIME - HOURS				
CRITIQUE O	F FIELD DATA PA	CKAG	E (PRE-VERI	FICATION)	2		•			
VERIFICATI	ON OF CONTROL									
VERIFICATI	ON OF POSITIONS					76				
VERIFICATI	ON OF SOUNDINGS	3			124					
COMPILATIO	ON OF SMOOTH SH	EET			73					
APPLICATION	ON OF TOPOGRAP	HY			10					
APPLICATION	N OF PHOTOBAT	HYMET	RY			α	-			
JUNCTIONS						la				
COMPARISO	N WITH PRIOR SUF	RVEYS	& CHARTS			26				
VERIFIER'S	REPORT					20				
OTHER						5				

344 346 TOTALS Pre-Verification by **F.** Saunders Basinnins Pats 08/16/78 Ending Bate 78 Verification by S. Kelly, J. Bradford
Verification Check by
R. Roberson 09/15/78 *67*762779 Time (Hours) 07/02/79 Miydrographic Inspection Team (AMC) Time (Heurs) **07**709/79 Quality Control Inspection by F.P. Saulsbury
Requirements Evaluation by D.J. Hill Time (Hours)
Time (Hours) Date 8-22-79 Date 9/25/79 G.N. Myers 9/7/29 17hz

Reg. No. <u>4-9746</u>

The Computer and Excess Sounding ards for this survey have not been corrected to reflect the changes made to the Computer Card and Excess Card Printouts at this time of the review.

When the cards have been updated to reflect the final results of the survey the following shall be completed:

CARDS CORRECTED

DATE	TIME REQ'D	INITIALS	
	·		

Reg. No. <u>H-9746</u>

The magnetic tape containing the data for this survey has not been corrected to reflect the changes made during evaluation and review.

When the magnetic tape has been updated to reflect the final results of the survey, the following shall be completed:

MAGNETIC TAPE CORRECTED

DATE 12-22-82 TIME REQ'D.

INITIALS

REMARKS:

ATLANTIC MARINE CENTER VERIFIER'S REPORT

REGISTRY NO. H-9746

FIELD NO. HSB-10-1-78

Florida, Banana River, Buck Creek to Pintail Creek

SURVEYED: 8 March through 19 May 1978

SCALE: 1:10,000 PROJECT NO.: OPR-G207

SOUNDINGS: Raytheon 719B CONTROL: Del-Norte

Pole Soundings CONTROL: Bel-Norte

(Range/Range)
(Range/Azimuth)

Chief of Party ... T.W. Richards
Surveyed by ... S.R. Iwamoto
M. Bradley
L.C. Gilden
R. Snow
J. Daniel
D. Elliott
Automated Plot by ... XYNETICS 1201 Plotter (AMC)
Verified and Inked by ... J.S. Bradford
June 25, 1979

1. Introduction

- a. No unusual problems were encounted during verification.
- b. The red changes in the Descriptive Report were made by the verifier.

2. Control and Shoreline

- a. The source of control is adequately described in Sections F. & G. of the Descriptive Report.
- b. The shoreline application was made from Coastal Zone Maps TP-00110, TP-00111, TP-00114, and TP-00135 of 1967, 1969, 1970. The dashed lines delineating shallow areas were transferred from the Coastal Zone Maps to the smooth sheet where hydrography was sparse. The hydrographer located shoreline changes by range/azimuth fixes. Revised shoreline is shown in red on the smooth sheet.

3. Hydrography

- a. The agreement at crossings is adequate.
- b. The standard depth curves are adequately delineated with the inclusion of the supplemental three foot curve. The zero curve was not idelineated. The small range of water level generally precluded the acquisition of soundings needed to delineate the low water curve.

c. The development of the bottom configuration and investigation of least depths are considered adequate. Greater emphasis should have been placed on location of channels where these appeared to exist.

4. Condition of Survey

The sounding records, smooth field sheet, and the Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual, with the following exceptions:

- a. Closer spacing of fixes would have been beneficial for / defining shoreline changes.
- b. The small island located at approximately latitude 28°32'18", longitude 80°36'34" was referenced in volume 9, page 16, day 138, fix no. 1948 as "small island 20m S.W. of the end of line" was plotted as noted. The boat sheet position is some 100 meters further from the end of the line. A detached position would have eliminated any confusion in the islands concurlocation.
- c. In the area of latitude 28°35'14", longitude 80°36'05" /
 the hydrographer states that an Islet no longer exist. A
 development of this area should have been made to obtain a
 least depth. Shallow Ift. depths in area preclude a more detailed
 investigation Development is adaptate for this area.

Also, what appears to be dredged channels were not investigated or developed by the hydrographer, closer line-spacing would in the example have been desireable. For example the channel located at channel stir can latitude 28°31'25", longitude 80°37'03" extending South West be carried to can not traced to deep water with the information provided much by field. Several pseudo channels are considered to have been dredged by the charles are considered to have been dredged by the charles to pain appears to have been dredged.

e. Banana River (North) Light 45 and Daybeacon 44 were shown in error on the field sheet. Daybeacon 44 is "Light 44" in the signal list, and Light 45 is shown as a daybeacon. The smooth sheet shows these aids to navigation to be in agreement with chart #11484, TP-00114, and Coastal Guard Bight List, Vol. II, 1978 page 352, Light List number 4018.

L+ List shows "44" as a red daybn "45" as a 1196t

Cht shows "44" as a red daybn
"45" as a 14.

Check with Coast Gaurd on 1+ "45" & Obn "44" to be sure 785-

"45" is not shown as alt in the signal last.

"45" is not shown in the signal last.

Neither "44" or "45" are shown on the 76-40 form

5. Junctions

Adunction was effected with the following survey:

H-9565

(1976)

to the south

No other contemporary surveys join H-9746.

6. Comparison With Prior Survey

H-1415a

(1878)

1:20,000

Comparison with prior survey is adequately covered in Section K. of the Descriptive Report.

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

7. Comparison With Chart #11484 (11th Edition, June 4, 1977)

a. Hydrography

Although there has been <u>drastic change</u>, the few charted depths from the prior survey are in agreement, 1-2 feet, with the present survey. These changes can be attributed to cultural development.

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

b. Controlling Depth

There is no conflict between the charted controlling depth and the present survey. Two 7 ft sdgs found in mid channel were in error of were moved out of channels during

c. Aids to Nawigation

The aids to navigation on the present survey are in substantial agreement with their charted positions and adequately mark the features intended. Banana River (North) Channel A Turning Basin Lt. appears to be poorly located.

8. Compliance With Instruction

This survey adequately complies with the Project Instruction.

9. Additional Field Work

This is an adequate basic survey; additional field work is not recommended.

Inspection Report H-9746

Any verification errors regarding procedures and presentation of survey data detected during inspection by the Hydrographic Inspection Team have been corrected before submission for administrative approval. HIT comments regarding quality of field work, compliance with instructions, and adequacy of the survey have been incorporated within the Verifier's Réport.

Examined and Approved:
Hydrographic Inspection Team
Date:

Robert A. Trauschke, CDR,

Chief, Processing Division

R. D. Sanocki

Technical Assistant Processing Division

Billy J. Stephens

Team Leader Verification Branch Absant

Carl W. Fisher, CDR, NOAA Chief, Operations Division

Maureen Renny, LT, NOAA

Chief, Electronic Data
Processing Branch

Approved/Forwarded

Robert C. Munson RADM, NOAA Director, Atlantic Marine Center



UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL OCEAN SURVEY Rockville, Md. 20852

OA/C352:FPS

August 22, 1979

2HCarto

TO:

R. H. Carstens

Acting Chief, Hydrographic Surveys Division

THRU:

Chief, Quality Control Branch

FROM:

F. P. Saulsbury J. P. Saulsburg Quality Evaluator

SUBJECT:

Quality Control Report for H-9746 (1978), Florida, Banana River,

Buck Creek to Pintail Creek

A quality control inspection of H-9746 was accomplished to monitor the survey for obvious deficiencies with respect to data acquisition, delineation of the bottom, determination of least depths, navigational hazards, junctions, sounding line crossings, shoreline transfer, smooth plotting, decisions and actions taken by the verifier, and the cartographic presentation of data. In general, it was found to conform to the National Ocean Survey's standards and requirements except as stated in the Verifier's Report, the HIT Report, and as follows:

- Some soundings were taken out of excess and added to the smooth sheet to show the continuity of channels, to indicate abrupt changes in depth, or to supplement bottom coverage.
- 2. Minor revisions or additions to survey items made during quality control inspection are indicated on the one-half scale survey copy to be furnished the verifier.
- 3. All odd-numbered daybeacons shown on the smooth sheet are green in color; however, they are represented by black daybeacon symbols on the survey.
- The 1/2-foot sounding, originally plotted with a dashed zero curve, in latitude 28°30.94', longitude 80°37.18' was checked during quality control inspection because it was an unsupported shoal sounding. Position 1856, controlling the position of the 1/2-foot sounding, was found to plot 100 meters northeast of its smooth sheet location. The position of the fix and sounding was corrected during quality control inspection.



The 7-foot sounding plotted in latitude 28°29.40', longitude 80°35.51' falls in general depths of 10 to 11 feet in the middle of a dredged channel with charted controlling depths of 8 feet. The 7-foot sounding is noted on the fathogram to be on the edge of the channel where it is plotted on the boat sheet. The verified 7-foot sounding was rejected during quality control inspection.

Another 7-foot sounding in latitude 28°35.60', longitude 80°36.30' on the excess sounding overlay fell in the middle of a channel with a charted controlling depth of 8 feet. Position 293, controlling the position of the sounding, apparently recorded in error, plotted on land, 20 meters inside of the high water line. This fix was replotted on time and course thereby placing the 7 at the channel's edge.

5. The dolphin plotted in latitude 28°34.99', longitude 80°38.72' on the present survey, shown on TP-00110 (1967-71), and located by detached position 33 was overlooked during verification and was added to the smooth sheet during quality control inspection.

The dolphin plotted in latitude 28°33.69', longitude 80°36.36' on the present survey was overlooked during verification and was transferred to the smooth sheet from TP-00114 (1967-70) during quality control inspection.

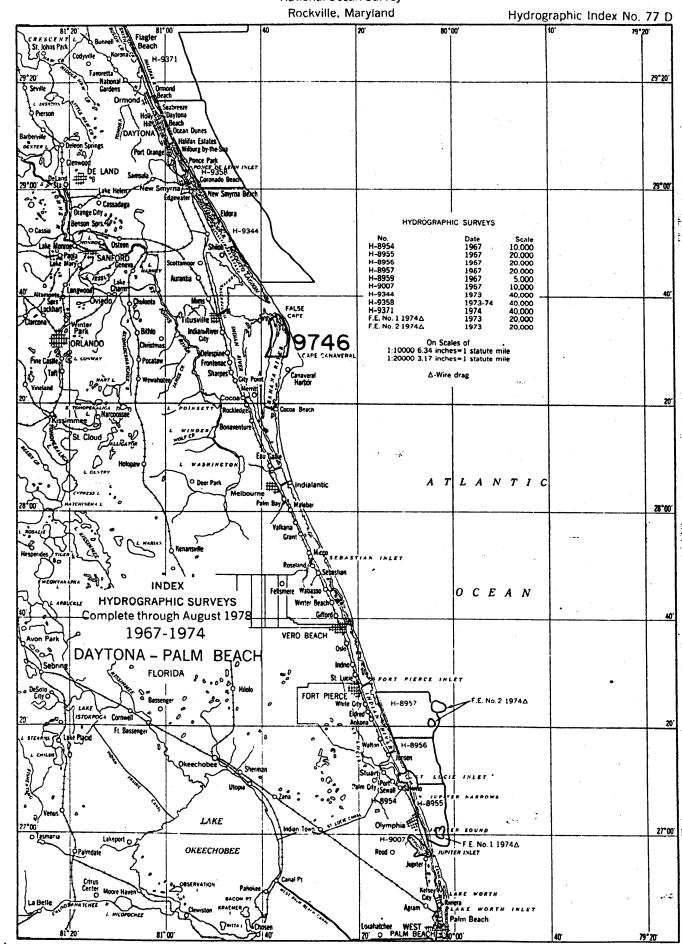
- 6. Two charted landmarks from TP-00115 (1967-70) and one charted landmark from TP-00136 (1970-71) were added to the smooth sheet during quality control inspection.
- 7. The comparison with junctional survey H-9665 (1976) during quality control inspection revealed generally good agreement between overlapping depths. However, depth curves were in conflict. The 10-foot sounding, representing the channel deep, was erroneously plotted about 50 meters east of the channel in a shoal area. Position 1651 controlling the location of this sounding was obviously recorded in error. A revised position back-plotted on time and course corresponds to the boat sheet position which resolves the junctional discrepancy in this area.
- 8. Though elevations are referenced to the LWD and usually indicated by an underscored slanting number in parenthesis, features of a topo-graphic nature (above a high water plane) should be annotated in vertical lettering. An approximate value for the difference between LWD and the high water plane is 1 foot.
- 9. Some items, falling in water, were referenced in the sounding volumes but were not shown on the boat sheet and were overlooked during verification.

10. The dolphins located within a charted Federal Project Channel at latitude 28°29.35', longitude 80°35.4' on TP-00135 (1969-71) were not mentioned by the hydrographer or addressed in the Verifier's Report. However, this area is reported by a miscellaneous source (CL 1612/78) to have been dredged. These features are now considered to have been removed.

cc: 0A/C35 0A/C351

DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration

National Ocean Survey



FORM C&GS-8352 (3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY	r NO. 9746
LIEF WILL DESCRIPTIAT MELOWI OF SOURT	

INSTRUCTIONS

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 Charte" in the Remarks.

CHART	DATE	CARTOGRAPHER	REMARKS
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			(DIRECTLY from H- sheet)
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