9371

Dia Cht. No. 1244

NOAA FORM 76-35A

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

DESCRIPTIVE REPORT

(HYDROGRAPHIC)

Type of Survey HYDROGRAPHIC
Field No. AHR-40-1-74
Office No
LOCALITY
State FICRIDA
General Locality EAST COAST OF FLORIDA
Locality CRMOND BEACH TO FLAGIER BEACH
\$4000 - 1
19 74
CHIEF OF PARTY FIDEL T. SMITH
LIBRARY & ARCHIVES
DATE 9-29-75

±U.S. GOVERNMENT PRINT NG OFFICE: 1974-763-098

1244 Apply 2-26-16 ABS

HYDRO	OGRAPHIC TITLE SHEET		
·			н-9371
STRUCTIONS - The Hydro	graphic Sheet should be accompanied by	y this form,	FIELD NO.
led in as completely as po	ssible, when the sheet is forwarded to	the Office.	AHP 40-1-74
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	t Coast of Florida		
ocality Domand	Beach to Flagler Beach		
cale 1:40,000		. Date of surve	y February - August 1974
nstructions dated Me	arch 26, 1973	_Project No	OPR 436-746-73
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surveyed by LCDR J.	Rolland, LT D. Yeager, LT	IJG R. Well	.s
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A. Project

This survey was conducted under OPR 436-746-73 Coasts of Florida and Georgia. Supplemental Instructions are as follows:

Change #1, Supplement to Instructions, dated May 3, 1973

Change #2, Supplement to Instructions, dated May 17, 1973

B. Area Surveyed

The area surveyed from the 12 foot curve to about 8 miles offshore between latitudes 29°16' and 29°29' and offshore to about longitude 80°43' between latitudes 29°29' and 29°33'.

The field work for this survey was accomplished between February 1, 1974 and August 26, 1974, inclusive.

This survey junctions with the following contemporary surveys:

H-9358	1:40,000	1974	on the south
H-8879	1:80,000	1966 ′	on the east
H-8937 /	1:80,000	1966 /	on the east
H-9455 /	1:40,000/	1974	on the north

C. Sounding Vessel

NOAA Launches 1257, 1255, and 1261 accomplished this survey. All records are annotated with vessel numbers. Launch 1257 used black to identify records and Launches 1255 and 1261 used red. All soundings and position numbers on the boat sheets are plotted in black, regardless of which launch obtained them.

D. Sounding Equipment

The following sounding equipment was used on Launch 1257 for this survey:

Raytheon Fathometer, Model DE-723, Unit 723-40, SN 37024
Raytheon Digital Depth Monitor, Model DE-723, Unit 723-41, SN 37016
Raytheon Electronic Cabinet Unit, Model DE-723, Unit 723-42, SN 1910

The following sounding equipment was used on Launch 1255:

Raytheon Fathometer, Model DE-723, Unit 723-40, SN 2934
Raytheon Digital Depth Monitor, Model DE-723, Unit 723-41, SN 1045
Raytheon Electronic Cabinet Unit, Model DE-723, Unit 723-42, SN 2132

The following sounding equipment was used on Launch 1261:

Raytheon Fathometer, Model DE-723, Unit 723-40, SN 1279
Raytheon Electronic Cabinet Unit, Model DE-723, Unit 723-42, SN 37013

Depths in this survey range from 6 feet to 83 feet(velocity corrections not applied).

Corrections to echo soundings include draft, settlement and squat, and velocity corrections. Velocity corrections were determined by a combination of bar checks and Beckman TDC data. See the report in the appendix on Corrections to Echo Soundings for more detail.

E. Smooth Sheet

The smooth sheet will be plotted at the Atlantic Marine Center, Processing Division, Norfolk, Virginia.

F. Control

Two independent methods of control were used in this survey. The first was the Del Norte Technology Trisponder/202 System using the Model 210 Microwave Transponders operating in a range-range mode. This system was used by Launches 1257 and 1261 and many problems were encountered with it. One major problem was finding suitable locations for the shore stations. Since this system is a line of sight system, the stations had to be placed close to the beach to prevent blockage by buildings and other structures. This resulted in another problem. Stations had to be located very close together to allow the launches to develop the 12 foot contour without going too far inside the 30 intersection line. This meant moving shore stations far more often than was feasible, consequently, the Del Norte shore stations were generally located a little farther apart than was desirable.

As a result of surveying too far inside the 30° intersection limit, it is of the hydrographers' opinion that some of the depths obtained by Launch 1261 were poorly located and should be checked. It is recommended that the AMC, Verification Branch take a close look at the soundings obtained by Launch 1261 located farthest inshore between latitudes 29°20.3' and 29°21.9'. These do not agree with the depths obtained by Launch 1257 using Raydist. No conflicts here on smooth sheet

Another problem encountered with the Del Norte control system was that of skip zones. These zones are areas where interference caused the system to jump hundreds and thousands of meters. Soundings between the good fixes were plotted by time and course.

The Del Norte system was used on the southern portion of the sheet from the southern limit to approximately latitude 29°19.5' and from there, northward to about 29°25.5" from the inshore limit to one mile offshore. The shore stations used each day are noted at the beginning of each days master printout.

Four sets of Del Norte stations were used in this survey. For operation between days 032 and 044 inclusive, the stations were located as follows:

Left Station: Signal 224 C Latitude 29°15'22.79" Congitude 81°01'19.66"

Right Station: Signal 406

Latitude 29019112.961

Longitude 81003112.031

For operation on days 063 and 065, the stations were located as follows:

Left Station: Signal 406 ______ Latitude 29°19'12.96" ______ Longitude 81°03'12.03" ______

Right Station: Signal 462

Latitude 29°25'50.75"

Longitude 81°06'17.18"

For operation during a portion of day 078, the stations were located as follows:

Left Station: Signal 406 / Latitude 29°19.12.96" Longitude 81°03'12.03"

Right Station Signal 438 Latitude 29°22'32.85" Longitude 81°04'45.79"

For operation during the remainder of day 078 and for the entire day 088, the stations were located as follows:

Left Station: Signal 438

Latitude 29°22'32.85"

Longitude 81°04'45.79"

Right Station: Signal 462 —
Latitude 29°25'50.75" —
Longitude 81°06'17.18" —

The remainder of the sheet was controlled using the Hastings Raydist system in the range-range mode. This system was used by Launches 1257 and 1255. Both vessels used the same sets of shore stations.

Launch 1257 used a 1st party system, Navigator SN 59, Transmitter SN 37 operating at a frequency of 3306.400 kHz. Launch 1255 operated with a 4th party system, Navigator SN 58, Transmitter SN A5 at a frequency of 3306.520 kHz.

Three sets of Raydist shore stations were used in this survey. For operation between days 060 and 179, inclusive, the stations were located as follows:

Left(red) Station: Flar, 1973 — Latitude 29 29 22.61 — Longitude 81 07 57.11 —

Right(green) Station: Signal 585

Latitude 29 50 40.54 Longitude 81 56.98 Longitude 81 56

For operation between days 207 and 210, inclusive, the stations were located as follows:

Left Station: Palm, 1974 — Latitude 29°28'35.256" — Longitude 81°10'52.216"

Right Station: Deltona, 1974 Latitude 29°46'50.817" Longitude 81°18'30.545"

For operation between days 213 and 238, inclusive, the stations were located as follows:

Left Station: Chicken, 1974 Chicken, 1974 Latitude 29°16'53.19" Longitude 81°06'48.88"

Right Station: Palm, 1974 — Latitude 29°28'35.256" — Longitude 81°10'52.216"

The same two units were used in each set of shore stations. They were Red Raydist Model AA60, SN 54 and Green Raydist Model AA60, SN 119.

All but three stations and calibration signals were either triangulation stations or points located by 3rd order traverse methods by Mr. Jim Shea of the Atlantic Marine Center, Operations Division. The three exceptions were as follows:

Signal 406; Located by T-2 and taped distance by personnel from Launch 1257.

Signal 438; Located by sextant and tape by personnel from Launch 1261. Signal 462; Located by sextant and tape by personnel from Launch 1261.

Calibration was accomplished by 3 point sextant fix. Check angles were used if enough people were available. Otherwise, at least one object was changed during each series of fixes. Corrections were determined by computer using RK 561, Version 8/23/73 and AM 530, Version 6/6/73 and printouts and original data have been submitted with field records.

G. Shoreline

No photo control or manuscripts were provided to delineate the shoreline on this survey. In accordance with the project instructions, the 12 foot contour was developed as much as possible. Sounding lines had to be run parallel to the shoreline to accomplish this, however.

H. Crosslines

Crosslines were run to the extent of 8% of the principle system of sounding lines. Agreement was excellent, one foot or less in most cases. Apparent disagreement in a few cases is probably due to a relatively rough bottom in the immediate vicinity of the discrepancy.

I. Junctions

(AHP 40-2.73)

Soundings agree very well with those from H-9358, which joins the survey on the south and H-9455, which junctions with the north edge of this survey. These two junctions were done by A.H.P. Launches 1257, 1255, and 1261 under the same project instructions as this survey. Agreement with H-8879, which bounds this survey on the east, generally is good after applying velocity corrections. Soundings in the northwest corner of that survey, however, are about 2-4 feet deeper than those obtained in the current survey. Agreement with H-8937, which joins the northern quarter of the eastern edge of this survey is good after velocity corrections have been applied.

J. Comparison with Prior Surveys

The only presurvey review items on this sheet are dashed-circled items. There are no numbered items. All dashed-circled items not specifically mentioned here were found to agree within 3 feet after velocity corrections were applied.

The charted 57 foot depth at latitude 29°16.81, longitude 80°58.01 was not found. The nearest depth to this is 63 feet (after applying velocity corrections). The bottom in this area is very flat so the area was not developed.

A depth of 40 feet (velocity correction applied) was found at latitude 29°20.61, longitude 80°56.01. A development of the area produced no shoaler depths. The charted depth in this vicinity is 45 feet.

No comparison was made with prior surveys.

K. Comparison with the Chart

Much of the bottom is different than what is indicated by C & GS 1244, 6th Edition, August 4, 1973. For example, the shoal areas centered about longitude 80°56' from 29°18' to 29°22' are not adequately shown on the chart.

There is a 46 foot depth (velocity correction applied) at latitude 29°25.9°, longitude 80°59.7 that is not charted. Likewise, many other shoal soundings along a line running NNW, SSE through that point are not shown.

A 57 foot depth(velocity correction applied) at latitude 29°29.51, longitude 80°44.9 is not charted and the bottom in this area is very poorly represented.

The water in the vicinity of latitude 29°29.51, 80°521 is 5-6 feet deeper than what the chart indicates.

L. Adequacy of Survey

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

M. Aids to Navigation

There are no fixed or floating aids to navigation within the limits of this survey.

N. Statistics

Nautical Miles of Sounding Line 1737 230 109 2076 Nautical Miles of Crossline 148 10 0 158 Nautical Miles of Development 93 4 0 97 Miscellaneous Distance Run (NM) 348 13 30 391 Nautical Miles to and from Bottom Samples 1725 233 172 2130 Bottom Samples 32 2 0 34		<u>125</u> 7	1255	1261	Total
	Nautical Miles of Crossline Nautical Miles of Development Miscellaneous Distance Run (NM) Nautical Miles to and from Bottom Samples	148 /- 93 /- 348 /- 1725 /- 32 /-	10 - 4 - 13 - 233 - 2-	0 0 30 – 172 –	158 97 391 2130

O. Miscellaneous

Field work on this survey was accomplished rather intermittently. There were many reasons for this, including mechanical and electrical problems aboard the launches, party moves, and work on AHP 40-2-74 and AHP 40-3-74 during the same period of time.

Position numbers 500-596 and 602-769 inclusive were duplicated as both Launches 1257 and 1261 used these numbers. Position number 681 was used three times because Launch 1261 duplicated it once itself and Launch 1257 also used it.

Data obtained by Launch 1257 during the entire day 234 was rejected. All original records except the master tape were retained. The master tape was destroyed. This day was rejected because the end of day calibration did not agree with the beginning of day calibration by approximately two lanes on each Raydist pattern. The Raydist strip chart was closely examined and no evidence of lane losses could be found. Even if lane losses had been found the problem would not be solved entirely, as pattern I correctors would have drifted about 0.4 lane in that event.

Day 234 was spent on developments and splits and for that reason the original printout, fathogram, and Raydist strip chart are retained. It may be possible for verifiers to resolve the problem. The field work done on day 234 was redone on subsequent days, however. The data for 234 day was not used when the processing section spooled the tapes, and the regulation section did not request the data be plotted since the Possible Recommendations field party rejected it.

None

Q. References to Reports

- 1. Electronic Control Report, OPR 436, AHP 40-1-74, H-9371
- 2. Report on Corrections to Echo Soundings OPR 436, AHP 40-1-74, H-9371

APPROVAL SHEET SURVEY H-9371 (AHP 40-1-74)

The hydrographic records transmitted with this report are complete and adequate.

J. Smith LCDR, NOAA Chief, AHP

1.	Project # OPR- 436	2. Reg. # <u>H-9371</u> 3. Field # <u>AHP-40-1-74</u>
4.	Type of Control: _	Raydist (Hi-Fix, Raydist, EPI, etc.)
5.	Frequency 3306.520	(for conversion of electronic lanes to meters)
	Mode of Operation	
	Range-Range 🗶	Type 24 Range-Visual
	Range One (R ₁) Station I.D. Range Two (R ₂) Station I.D.	(Green) Lat. 29 ° 16 ' 53.19 " Chicken Raydist, 1974 Long. 81 ° 06 ' 48.88 "06 ' Lat. 29 ° 28 ' 35.26 " "60 ' Palm Raydist, 1974 Long. 81 ° 10 ' 52.22 "
	Hyperbolic (3-st	ation) Hyper-Visual
	Slave One Station I.D. Master Station I.D. Slave Two Station I.D.	Lat
7.	Location of Survey	
	Range-Range x	Imagine an observer is standing at R_1 Station and looking directly at R_2 (check one):
		Survey area is to observer's Right \emptyset A= \emptyset
		Survey area is to observer's Left A=1
	Hyperbolic	Looking from survey area toward Master Station:
		Slave One must be to observer's Left;
		Slave Two must be to observer's Right.
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9. Remarks:	9. I	Remarks:						. —	

1.	Project # OPR-436	2. Reg. # H-9371	3. Field #	AHP-40-1-74
4.	Type of Control: _	Raydist	(Hi-Fix, Ray	dist, EPI, etc.)
5.	Frequency <u>3306.400</u>	(for conversio	n of electronic	lanes to meters)
6.	Mode of Operation	(check one):		
	Range-Range x	Type 22	Range-Visual [
	Range One (R ₁) Station I.D. Range Two (R ₂) Station I.D.	(Purple) Flag Raydist 1973 (Blue) Signal 585	Lat. 29 ° Long. 81 ° Lat. 29 ° Long. 81 °	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	Hyperbolic (3-st	ation)	Hyper-Visual [
	Slave One Station I.D. Master Station I.D. Slave Two Station I.D.		Lat. ° Long. ° Lat. Cong. ° Lat. Cong. ° Lat. Cong. ° Lat. Cong. °	
7.	Location of Survey	•		
	Range-Range x	Imagine an observe looking directly a	r is standing a t R ₂ (check one	t R ₁ Station and .
		Survey area is to	observer's Righ	t Ø A=Ø
	Hyperbolic	Survey area is to Looking from surve		
		Slave One must be	•	
		Slave Two must be	to observer's R	ight.
8.	This form is su	ubmitted as an aid i	n preparing a b	oat sheet.
	This form appl	ies to all data on t	his survey.	
	x This form appl	ies to part of the d	ata on this sur	vey.
	Vessel EDP # Time			sition Numbers (inclusive)
	1257 1620	24 060 193756	179 489	to 1897
9.	Remarks:		William to a photos and a photo	

1.	Project # OPR- 436	2. Reg. # H-9371 3. Field # AHP-40-1-74
4.	Type of Control:	Raydist (Hi-Fix, Raydist, EPI, etc.)
5.	Frequency 3306.520	(for conversion of electronic lanes to meters)
6.	Mode of Operation (check one):
•	Range-Range 🔣	Type 21 Range-Visual
	Range Two (R ₂)	Lat. 29 ° 28 ' 35.26 " Palm Raydist 1974 Long. 81 ° 10 ' 52.22 "60' (Red) Lat. 29 ° 46 ' 50.82 " Deltona Raydist 1974 Long. 81 ° 18 ' 30.54 "
	Hyperbolic (3-sta	tion) Hyper-Visual
- -	Slave One Station I.D. Master Station I.D. Slave Two Station I.D.	Lat.
7.	Location of Survey:	
	Range-Range x	Imagine an observer is standing at R_1 Station and looking directly at R_2 (check one):
		Survey area is to observer's Right X A=Ø Survey area is to observer's Left A=1
	Hyperbolic	Looking from survey area toward Master Station:
	1000年 400年 400年	Slave One must be to observer's Left;
	· · · · · · · · · · · · · · · · · · ·	Slave Two must be to observer's Right.
8.	This form is su	bmitted as an aid in preparing a boat sheet.
	This form appli	es to all data on this survey.
•	x This form appli	es to part of the data on this survey.
•	Vessel EDP # Time	From To Position Numbers Day Time Day (inclusive)
	1255 125300	
9 .	Remarks:	

1. Project # OPR	-436 2. Reg. # H-	9371 3. Field	# AHP-40-1-74	
4. Type of Contro	• ,	•	Raydist, EPI,	etc.)
5. Frequency 14	•	ersion of electron	nic lanes to	meters)
6. Mode of Opera	tion (check one):		•	. •
Range-Range	x Type 104	Range-Visual		
Range One Station Range Two Station	I.D. <u>Signal 438</u> (R ₂) (8/ue)	Lat. 29 Long. 81 Lat. 29 Long. 81	04	32.85 45.79 "off 50.75 "off
. Hyperbolic	(3-station)	Hyper-Visual		
Slave One Station Master Station Slave Two Station	n I.D	Lat. Long. Lat. Long. Lat. Long.		n n n n n n
	_	and the second s		
7. Location of S		•		
7. Location of S Range-Range	e x Imagine an obling direct	oserver is standin	one):	
•	e x Imagine an obling direction. Survey area in	etly at R_2 (check is to observer's F	one):	A=Ø
Range-Range	e x Imagine an oblicoking direction Survey area in	etly at R ₂ (check is to observer's F is to observer's I	one): Right Reft	A=Ø A=l
•	E X Imagine an oblooking direction Survey area in Survey area in Looking from	etly at R ₂ (check is to observer's F is to observer's I survey area towar	one): Right Ø Left Ind Master Sta	A=Ø A=l
Range-Range	E X Imagine an oblooking direction Survey area if Survey area if Looking from Slave One must	etly at R ₂ (check is to observer's F is to observer's I survey area towars to observer's the toolserver's	one): Right Right Reft R	A=Ø A=l
Range-Range	Imagine an oblooking direction Survey area in Survey area in Looking from Slave One must share Two must share the share Two must share the share Two must share the share	is to observer's F is to observer's F survey area towar st be to observer' st be to observer	one): Right Right Reft Right Right Right:	A=Ø A=l tion:
Range-Range	E X Imagine an oblooking direction Survey area if Survey area if Looking from Slave One must	is to observer's F is to observer's F survey area towar st be to observer' st be to observer	one): Right Right Reft Right Right Right:	A=Ø A=l tion:
Range-Range Hyperbolic 8. This for	Imagine an oblooking direction Survey area in Survey area in Looking from Slave One must share Two must share the share Two must share the share Two must share the share	is to observer's F is to observer's I survey area towar st be to observer' st be to observer aid in preparing	one): Right Right Reft Right Right Right:	A=Ø A=l tion:
Range-Range Hyperbolic 8. This for This for	Imagine an oblooking direct Survey area is Survey area is Looking from Slave One must Slave Two must submitted as an	is to observer's F is to observer's F survey area towar st be to observer aid in preparing a on this survey.	one): Right Left Ind Master State 's Left; 's Right. a boat sheet	A=Ø A=l tion:
Range-Range Hyperbolic 8. This for	Imagine an oblooking direct Survey area is Survey area is Looking from Slave One must Slave Two must submitted as an applies to all dates.	is to observer's F is to observer's F survey area towar st be to observer aid in preparing a on this survey.	one): Right Left Ind Master State 's Left; 's Right. a boat sheet	A=Ø A=l tion:
Range-Range Hyperbolic This for This for This for Vessel	Imagine an oblooking direct Survey area is Survey area is Looking from Slave One must Slave Two must submitted as an applies to all datum applies to part of From	is to observer's F is to observer's F is to observer's I survey area towar st be to observer aid in preparing a on this survey. the data on this	one): Right Right Left Ind Master State Sta	A=Ø A=l tion:
Range-Range Hyperbolic This for This for Vessel EDP #	Imagine an oblooking direct Survey area is Survey area is Looking from Slave One must Slave Two must submitted as an applies to all dates applies to part of From Time Day	is to observer's F is to observer's F is to observer's I survey area towar st be to observer aid in preparing a on this survey. the data on this To Time Day	one): Right Right Left Ind Master State Sta	A=Ø A=l .tion:
Range-Range Hyperbolic This for This for Vessel EDP 7 1261	Imagine an oblooking direct Survey area is Survey area is Looking from Slave One must Slave Two must submitted as an applies to all dates applies to part of From Time Day	is to observer's F is to observer's F is to observer's I survey area towar st be to observer aid in preparing a on this survey. the data on this To Time Day	one): Right Left Ind Master State 's Left; 's Right. a boat sheet survey. Position No (inclusive) 737 to to	A=Ø A=l .tion:
Range-Range Hyperbolic This for This for Vessel EDP **	Imagine an oblooking direct Survey area is Survey area is Looking from Slave One must Slave Two must submitted as an applies to all dates applies to part of From Time Day	is to observer's F is to observer's F is to observer's I survey area towar st be to observer aid in preparing a on this survey. the data on this To Time Day	one): Right Left Ind Master State 's Left; 's Right. a boat sheet survey. Position No (inclusive) 737 to to	A=Ø A=l .tion:

1. Project # OPR-436 2. Reg. # H-9371	3. Field #		
4 Type of Control: Del Norte	(Hi-Fix, Ray	•	
5. Frequency 1498.35 (for conversion	n of electronic	c lanes to me	eters)
6. Mode of Operation (check one):			
	Range-Visual [
Range One (R ₁) (Red) Station I.D. Signal 406 Range Two (R ₂) (Brown) Station I.D. Signal 438	Lat. 29 Long. 81 Lat. 29 Long. 81	$ \begin{array}{c c} $	2.85 5.79 oil
Hyperbolic (3-station)	Hyper-Visual [.	
Slave One Station I.D. Master Station I.D. Slave Two Station I.D.	Lat. Long. Lat. Long. Lat. Long. Lat.		" " " " " " " " " " " "
7. Location of Survey:	•		
Range-Range x Imagine an observe looking directly	ver is standing at R_2 (check C	g at R ₁ Stati one):	on and
Survey area is to	o observer's R	ight Ø	1 =∅
Survey area is t			\=1
Hyperbolic Looking from sur	vey area towar	d Master Sta	tion:
Slave One must b			•
Slave Two must b	e to observer'	s Right.	•
8. This form is submitted as an aid			•
This form applies to all data or	n this survey.	•	
This form applies to part of the	e data on this	survey.	
1 - This torm appared		Position N	
Vessel From	To me Day	(inclusi	umbers ve)
Vessel From EDP Time Day Ti	To	(inclusion 602 to	umbers ve) 734
Vessel From EDP Time Day Ti	To me Day	(inclusi	ve)
Vessel From EDP Time Day Ti	To me Day	(inclusi	ve)
Vessel From EDP Time Day Ti	To Day Day 078	(inclusi	ve)

•				
1. Project # OPR	- 436 2. Reg. # <u>H</u> -	9371 3. Field	# AHP-40-1-74	•
4. Type of Contro	oI: <u>Del Norte</u>	(Hi-Fix,	Raydist, EPI, etc.	ı
5. Frequency 149	98.35 (for conv	ersion of electro	nic lanes to meter:	s)
6. Mode of Opera	tion (check one):		•	٠,
Range-Range	Type 102	Range-Visual	- 🗀	
Range Two	I.D. Signal 406	Lat. 29 Long. 83 Lat. 29 Long. 8	03 12.03 25 50.75	600 610
Hyperbolic	(3-station)	Hyper-Visua		:
Slave One Station Master Station Slave Two Station	n I.D.	Lat. Long. Lat. Long. Long. Lat. Long.		# # # # # # # # #
7. Location of S	Survey:		•	
Range-Range	e x Imagine an o	bserver is standi	ng at R ₁ Station ar	ıd
3	looking dire	ctly at R_2 (check	one):	
	we see .	ctly at R ₂ (check is to observer's	one):	
,	Survey area	ctly at R ₂ (check	one): Right Ø A=Ø	
Hyperbolic	Survey area	ctly at R ₂ (check is to observer's is to observer's	one): Right Ø A=Ø	
	Survey area Survey area Looking from	ctly at R ₂ (check is to observer's is to observer's	one): Right Ø A=Ø Left A=1 rd Master Station:	
	Survey area Survey area Looking from	ctly at R ₂ (check is to observer's is to observer's survey area towa	one): Right Ø A=Ø Left A=1 rd Haster Station: 's Left;	
Hyperbolic	Survey area Survey area Looking from	ctly at R ₂ (check is to observer's is to observer's survey area towant be to observer the total conserver the total conserve	one): Right Ø A=Ø Left A=1 rd Haster Station: 's Left; 's Right.	
Hyperbolic 8. This for	Survey area Survey area Looking from Slave One mu Slave Two mu	ctly at R ₂ (check is to observer's is to observer's survey area towants be to observer and in preparing	ne): Right	
Hyperbolic 8. This for	Survey area Survey area Looking from Slave One mu Slave Two mu m is submitted as an	ctly at R ₂ (check is to observer's is to observer's survey area towants be to observer and in preparing a on this survey	one): Right	
Hyperbolic 8. This for This for	Survey area Survey area Looking from Slave One mu Slave Two mu m is submitted as an m applies to all dat	ctly at R ₂ (check is to observer's is to observer's survey area towants be to observer and in preparing a on this survey	one): Right	
Hyperbolic 8. This for This for This for Vessel	Survey area Survey area Looking from Slave One mu Slave Two mu mu is submitted as an mu applies to all dat mu applies to part of	ctly at R ₂ (check is to observer's is to observer's survey area towants be to observer and in preparing a on this survey is the data on this	none): Right	
Hyperbolic 8. This for This for This for Vessel EDP #	Survey area Survey area Looking from Slave One mu Slave Two mu m is submitted as an m applies to all dat m applies to part of From Time Day	is to observer's is to observer's survey area towards be to observer and in preparing a on this survey the data on this To	none): Right	

4. Type of Control:	1.	Project # OPR-436	2. Reg. # <u>H-9371</u>	3. Field	# _AHP-40-1-	74	
6. Mode of Operation (check one): Range-Range	4.	Type of Control: _	Del Norte	(Hi-Fix,	Raydist, EPI	, etc.)	
Range Range	5.	Frequency 1498.35	(for convers	ion of electro	nic lanes to	meters)	
Range One (R,) (Oreoge)	6.	Mode of Operation	(check one):				
Station I.D. Signal 224 Long. 81		Range-Range x	Type 101	Range-Visual			
Slave One Station I.D. Master Station I.D. Slave Two Station I.D. Long. Lat. Lat. Long. Lat.		Station I.D. Range Two (R ₂)	Signal 224' (Red)	Long. 81	01 19	12.96	
Station I.D. Long. "" Station I.D. Long. "" Station I.D. Long. "" Slave Two Station I.D. Long. "" Lat. "" Lat. " Lat.		Hyperbolic (3-sta	ation)	Hyper-Visual			
Range-Range Imagine an observer is standing at R1 Station and looking directly at R2 (check one): Survey area is to observer's Right A=Ø Survey area is to observer's Left A=1 Hyperbolic Looking from survey area toward Master Station: Slave One must be to observer's Left; Slave Two must be to observer's Right. 8. This form is submitted as an aid in preparing a boat sheet. This form applies to all data on this survey. X This form applies to part of the data on this survey. Vessel From To Position Numbers EDP # Time Day Time Day (inclusive) 1257 144301 032 200602 044 00001 to 0488 to 10001 to 0488 to		Station I.D. Master Station I.D. Slave Two		Long. Lat. Long. Lat.			
looking directly at R2 (check one): Survey area is to observer's Right A=Ø Survey area is to observer's Left A=1 Hyperbolic Looking from survey area toward Master Station: Slave One must be to observer's Left; Slave Two must be to observer's Right. 8. This form is submitted as an aid in preparing a boat sheet. This form applies to all data on this survey. X This form applies to part of the data on this survey. Vessel From To Position Numbers EDP # Time Day Time Day (inclusive) 1257 144301 032 200602 044 00001 to 0488	7.	Location of Survey				•	
Survey area is to observer's Left A=1 Hyperbolic Looking from survey area toward Master Station: Slave One must be to observer's Left; Slave Two must be to observer's Right. 8. This form is submitted as an aid in preparing a boat sheet. This form applies to all data on this survey. This form applies to part of the data on this survey. Vessel From To Position Numbers EDP # Time Day (inclusive) 1257 144301 032 200602 044 00001 to 0488 to		Range-Range x	looking directly	at R ₂ (check	one):	*	
Hyperbolic Looking from survey area toward Master Station: Slave One must be to observer's Left; Slave Two must be to observer's Right. 8. This form is submitted as an aid in preparing a boat sheet. This form applies to all data on this survey. X This form applies to part of the data on this survey. Vessel From To Position Numbers EDP # Time Day (inclusive) 1257 144301 032 200602 044 00001 to 0488 to							
Slave One must be to observer's Left; Slave Two must be to observer's Right. 8. This form is submitted as an aid in preparing a boat sheet. This form applies to all data on this survey. This form applies to part of the data on this survey. Vessel From To Position Numbers (inclusive) 1257 144301 032 200602 044 00001 to 0488 to			Survey area is to	o observer's L	eft	A=1	
Slave Two must be to observer's Right. 8. This form is submitted as an aid in preparing a boat sheet. This form applies to all data on this survey. This form applies to part of the data on this survey. Vessel From To Position Numbers EDP # Time Day Time Day (inclusive) 1257 144301 032 200602 044 00001 to 0488 to		Hyperbolic	Looking from sur	vey area towar	d Master Sta	tion:	
8. This form is submitted as an aid in preparing a boat sheet. This form applies to all data on this survey. X This form applies to part of the data on this survey. Vessel From To Position Numbers EDP # Time Day Time Day (inclusive) 1257 144301 032 200602 044 00001 to 0488 to			Slave One must b	e to observer'	s <u>Left;</u>		
This form applies to all data on this survey. This form applies to part of the data on this survey. Vessel From To Position Numbers EDP # Time Day Time Day (inclusive) 1257 144301 032 200602 044 00001 to 0488 to	٠		Slave Two must b	e to observer'	s <u>Right</u> .	•	
This form applies to part of the data on this survey. Vessel From To Position Numbers EDP # Time Day Time Day (inclusive) 1257 144301 032 200602 044 00001 to 0488 to	8.	This form is s	ubmitted as an aid	in preparing	a boat sheet	:-	•
Vessel From To Position Numbers EDP # Time Day Time Day (inclusive) 1257 144301 032 200602 044 00001 to 0488		This form appl	ies to all data on	this survey.			
EDP # Time Day Time Day (inclusive) 1257 144301 032 200602 044 00001 to 0488 to		x This form appl	ies to part of the	data on this	survey.		
to							•
	. •	1257 1443	01 032 20060	02 044		0488	
9. Remarks:	9.	Remarks:					

SIGNAL LIST

OPR 426 AHP 40-1- 74 H-9371

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081 04 0731 ORMOND BCH TK (Traverse)
196
      29 21 0473
                 081 03 1331 NE COR OF NORTH BEACH CLUB CONDO (Traverse)
200
      29 19 1561
                 081 02 1889 NE COR JULIANS OCEAN FRONT APTS (Traverse)
208
      29 17 2395
                 081 02 4800 ORMOND HOTEL CHIMNEY 1906 (4 Vol 1, pq 801)
      29 17 2610
٤ , , و
                 081 03 4631 ORMOND MUNICIPAL WATER TK CTR 1934 (4 Vol 1, pg 190)
212
      29 16 4619
                 081 01 3766 SE COR ALIKI CONDO (Traverse)
      29 16 0006
216
                  081 01 1966 SE COR BEACHCOMBER MOTEL (Traverse)
      29 15 2279
224
                  081 00 2451 SPACE NEEDLE (Traverse)
      29 13 3653
228
                  080 58 3694 NE COR OLEANS CONDO (Traverse)
      29 09 5755
 234
                  081 03 1203 NE COR OF SOUTH BEACH CLUB CONDO (Traverse)
      29 19 1296
 406
                  081 04 4705 2" BRONZE WASHER (Traverse)
 440
      29 22 3449
                  081 05 4208 ORANGE BANNER (Traverse)
      29 24 3597
                  081 06 1640 GRANGE TWIST BANNER (Traverse)
      29 25 5137
 460
                  081 06 5139 GRANGE TRIPOD (Traverse)
 480
      29 27 0938
                  081 08 3470 MICRO TOWER (Photo Signal)
      29 28 0280
 486
      29 28 4243
                  081 07 4286 FLAGLER BEACH WATER TANK (Traverse)
 500
                 081 09 2064 STACK (EASTERLY OF TWO) (Photo Signal) 243
      29 29 3839
 506
                 081 08 3581 ORANGE TRIPOD (Traverse.)
      29 30 4642
 512
 516
      29 31 2660
                 081 08 5575 NE COR WHITE CONCRETE BLOG. (Traverse)
                  081 10 0096 ORANGE TRIPOD (Traverse)
      29 33 3902
 524
                  881 11 2631 CENTER OF ABANDONIOLIFE GUARD TOWER (Traverse)
- 536
      29 37 0168
```

ATLANTIC MARINE CHRIER

PROJECTION PARAMETERS

POLYCORIC OR MODIFIED TRANSVERSE MERCATOR

1. Project No. OPR-436	4. Requested By W.H. Tyndall
2. Reg. No. H-9371	5. Ship or Office Verification
3. Field No. AHP-40-1-74	6. Date Required on sdg. o/1
7. Polyconic XX Modi	fied Transverse Mercator
8. Central Medidikk of Project	ion 80 ° 54 ' 30 "
9. Survey Scale: 1: 40,000	and the contract of the contra
10. Size of Sheet (check one):	
36 x 54 xxx 36 x 60	Other Specify
11. Sheet Orientation (check or	ne):
$NYX = 1 \boxed{}$	$NYX = \beta $
. N	
	, N
CMER	CMER
1	
	and shoot Inot passessmile a smid
•	ner of Sheet (not necessarily a grid intersection)
Date Leade.	<u>15 ' 00 "</u>
Jong Louis	11 ' 30 "
13. G.P.'s of triangulation as	
14. Material Desired: Tracing	
Smooth Sheet 🔀 Oth	er Specify
15. Remarks: <u>no origin che</u>	ange, only change sheet size

ELECTRONIC CORRECTOR ABSTRACT

VESSEL : 1257

SHEET : H-9371

TIME	DAY	PATTERN 1	PATTERN 2
	•	1	,
144301	• 032	-00010	-00036
235959	1	-00010	-00036
2.0000	•	,	1
164729	942	-00007	-00041
175742	•	-00007	-00047
235959		-00007	-00041
	•	•	•
135356	043	-00010	-00036
235959	•	-00010	• - 00 03 6
	•	•	
141343	044	-00007	-00037
235959		-00007	- 06037
162024	. 060	-00070	+00050
235959	1	-00070	_
233333	•	•	+00050
150825	061	+00036	-00051
235959	,	+00036	' -00051
	•	•	,
144410	063	+00024	· -00 05 8
235959	•	+00024	-00058
	•	•	•
142843	' 066	+00022	-00060
235959	•	+00022	• - 00060
	t	•	•
152728	067	+00028	+00034
235959		+00028	+00034
	•		
144155			
144155	084	-00002	-00071
235959	•	-00002	-00071
153136	088	-00001	-00067
235959	•	' -00001	-00067
	•		
163432	. 091	+00005	-00057
235959	•	+00005	-00057
	•	•	• 1000 000 000
145803	992	+00001	-00062
235959	•	+00001	-00068
	•	• • • • • • • • • • • • • • • • • • • •	•
	•	•	• • • • • • • • • • • • • • • • • • • •
143800	. 093	+00004	-00058
235959	•	+00004	-00058
140003			*
142330	107	+00002	-00061

ELECTRONIC CORRECTOR ABSTRACT

VESSEL : 1257

SHEET : H-9371

TIME	DAY		PATTERN 1	PATTERN 2
T	•	,		· ·
235959	107	•	+00002	-00061
	•	•	,	1*
144015	108	•	-00003	+00039
235959	1	•	-00003	+00039
	•	•		•
140757	136	. '	-00006	+00030
235959	1	•	-00006	+00030
	•	•		<u> </u>
134155	148		+00023	+00023
235959	•		+00023	+00023
100007		•	00014	
132237	171		-00016	-00064
235959	•		-00016	-02064
133920	179	•	-00030	1 +00001
235959	179	•	-00030	' +00021 ' +00021
603939	•	•	- 00030	12000+
133418	214	•	-00035	+00023
235959		•	-00035	+00023
	•	•	•	•
131149	. 215	1	-00032	+00027
160750	•	•	-00032	+00027 .
	•	•	-,	•
141021	' 225	•	+00008	+00082
235959	•	1	+00008	. +00055

ELECTRONIC CORRECTOR ABSTRACT

VESSEL : 1257

SHEET : H9371

TIME		DAY	•	PATTERN 1	PATTERN 2
+	• - +		+		• • • •
131244	•	226	•	+00007	+00005
235959	•	:	•	+00007	+00005
	•		•		•
130606	•	227	•	+00017	+00012
235959	• .	i :	• .	+00017	+00012
	•			5 -	•
150000	•	558	•	+00015	. +00014
235959	•			+00015	+00014
124457	•	229	•	+00018	+00002
235959	•		•	+00018	+00005
	•		•		1 6
125850	•	231	•	+00025	+00016
235959	•		•	+00025	+00016
	•		•	, ·	■ 4
122102	•	232	•	+00036	-00006
235959	•		•	+00036	-00006
	. •		•		•
130145	•	235	•	+00012	+00003
235959	•		•	+00012	+00003
			•		
125794		534	•	+00027	+00011.
175420	•		•	+00027	+00011

TINCTROMIC CORRECTOR ABSTRACT

VESSEL: 1255

SIRET : H-9371

TIME	DAY	PATTERN	1	PATTERN 2
125300 135315	297	+90023 +90028	• •	+000048 +00048
205)39		+20023		+00040
152125 173529	293	+00020 +00020		+00 0 23 +00023
132236 143937 235959	210	-0000 -0000	1	+ ØØØ25 + ØØØ25 + 4øØ25
146 7 53 ¹ - 2 3 3959	213	+0204 +0004		+ 0003 0 + 00030

ELECTRUNIC CURRECTUR ABSTRACT

VESSEL : 1261

SHEET : H-9371

TIME		DAY		PATTERN 1		PATTERN	5
+	+		+		ं।		+
151647	•	063	•	+00004		-00081	
235959	•		•	+00004	• .	-00021	
203,07	•		•		•		
150611	•	Ø65	•	+00009	- 1 (100)	-00028	1
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180415	•		•	+00044	• •	-00038	
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TC/TI TAPE FOR OPR 436, H 9371 ... VESNO 1257

144301 0 0000 0001 032 125700 009371

140757 0 0003 0001 136 125700 009371

133418 0 0005 0001 214 125700 009371

VELOCITY TABLE FOR OPR 436, H 9371 ... VESNO 1257

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000366 0 0016

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000522 0 0024

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TC/TI TAPE FOR OPR 436, H 9371 ... VESNO 1255

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235959 0 0000 0004 213 125500 009371

VELOCITY TABLE FOR OPR 436, H 9371 ... UESNO 1255

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000290 0 0016

000330 0 0018

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TC/TI TAPE FOR OPR 436, H 9371 ... VESNO 1261

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VELOCITY TABLE FOR OPR 436, H 9371 ... VESNO 1261

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ABSTRACT OF TIMES OF HYDROGRAPHY NOAA LAUNCH 1257

Julian Day	Date 1974	Position Numbers From-To	Time From - To
032	2/1~	1 - 130	144301 - 194604
042	2/11 -	131 - 159	164729 - 185704
043 /	2/12/	160 - 344	135356 - 204906
044	2/13	345 - 488	141343 - 200602 -
060 ′	3/1 ′	489 - 572	162024 - 194619
061	3/2/	573 - 680	150825 = 193128
063 -	3/4	681 - 792	144410 - 194200
066 /	3/7 -	793 - 927	142843 - 201115
067 ~	3/8/	928 - 1033	152728 - 194410
084 /	3/25	1034 - 1140	144155 - 190051
088 /	3/29/	1141 - 1194	153136 - 174154
091	4/1/	1195 - 1274	163422 - 194648
092/	4/2-	1275 - 1300	145803 - 155830-
093 /	4/3/	1301 - 1354	143800 - 164402
107 /	4/17~	1355 - 1449	142330 - 192053
108	4/18/	1450 - 1460	144015 - 175654
136	5/16′	1461 - 1544 -	140757 - 173830
148	5/28 ′	1545 - 1642	134155 - 185838 -
171	6/20-	1643 - 1783	132237 = 190946-
179/	6/28	1784 - 1897 /	133920 - 193756
214	8/2 ′	1898 - 2007	133418 - 183831
215/	8/3 /	2008 - 2072	131149 = 160750
225	8/13	2073 - 2184	141021 - 192418
226/	8/14/	2185 - 2294	131244 - 181534
227/	8/15	2295 - 2404 /	130606 - 180823
228/	8/16	2405 - 2521	125911 - 181147
229	8/17	2522 - 2626	124457 - 175015
231⁄	8/19/	2627 - 2748	125850 - 183001
232/	8/20/	2749 - 2900 /	122102 - 183030 -

ABSTRACT OF TIMES OF HYDROGRAPHY NOAA LAUNCH 1257(CONTINUED)

Julian	Date	Position Numbers	Time	
Day	1974	From - To	From - To	
234	8/22		intout, fathogram, and sawtooth data. Master data tape destroyed	•
235 /	8/23⁄	2901 - 2952 ~	125739 - 180722-	
238 /	8/26 ⁄	2953 - 3071	125704 - 17585 5	

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

Processing Division: Atlantic Marine Center:

Hourly heights are approved for

Tide Station Used (NOAA Form 77-12): Daytona Beach, Florida

Period: February 1, 1974 - August 26, 1974

HYDROGRAPHIC SHEET: H-9371

OPR: 436

Locality: Off East Coast of Florida

Plane of reference (mean lowerx low water): 222 ft.

Height of Mean High Water above Plane of Reference is 4.0 ft.

Remarks: Zone direct.

James & Hulber

ATLANTIC MARINE CENTER VERIFICATION OF SMOOTH TIDES

SURVEY H- 9371

PLANE OF REFERENTIME MERIDIAN:	NCE:		OR XXXXX	ki .				
HEIGHT DATUM ON	STAFFS:	1.	2.2			3	ч.	
TIDE STATIONS	POSITION		TYPE GAGE		TIME H.W.	CORR.	HEIGHT	CORR.* L.W.
l. Daytona Beach, Florida	φ 29°14' λ 81°	•	standard	d.				
2.	φ λ							
3.	φ λ							
4.	φ λ				• .			
HOURLY HEIGHTS:	X FR	OM RC	CKVILL	E OF	FICE			
	FRO	OM FI	ELD MA	RIGRA	AMS	VERII	FIED BY:	<u>Rockvill</u> e
TIDE ZONING:	X NO	r APF	PLICABL	E				
199	ВУ	COMF	PUTER			÷		
	FR	VT MC	O OR M	ORE	GAGES			
LIMITS AND DESC	RIPTION O	F ZON	NING ME	THODS	<u>3</u> :			
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	•	. [MA	NUAL	ĻY	VERI	FIED BY:	
HEIGHT OF MHW A	BOVE PLAN	E OF	REFERE	NCE:	4.	.0		•
TIDE CORRECTION	S VERIFIE	D ON	SOUNDI	NG P	RINTO	UT BY:	GFT	Ţ,
DATE OF VERIFIC	ATION:		3/3/75					
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*OR RATIO

EXAMINED AND APPROVED

Tide Note OPR 436 AHP 40-1-74 H-9371

Predicted tides from Daytona Beach(Ocean), latitude 29°141, longitude 81°001, were applied to the depths obtained by AHP Launches 1257, 1255 and 1261 for the boatsheet. Actual tides from this station will be applied to these depths for the smooth sheet. No zoning is required.

STOCK NO. 37 (4-30-57) COMM-DC 28424

VESNO: 1261

Electronic Control Data Abstract

	Base	PATI	PATI	PATI	PATI	PATI	DATI	APPL	
DAY	Unit	STATION	T/R SN	STATION	T/R SN	CORRECTION	Corestia	FROM POS	70 DOS
063	147 B	406	IA3 MC	A62	185 MD	+A	-22		
063	167 B	406	143 MC	AGZ	185 MD		- 19		
Average						+4	-21	50U	549
065	167 B	406	143 MC	462	185 MD	+9	-27		
_~5	1678	406	143 MC	462	185 MD	+9	-27		
A rage	<u> </u>					+9	-27	550	5%
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<u> </u>	1808	406	143 MC	438	187 MA	-10	456		
0.6	1808	406	143 MC	438	187 MA	-10	+41		
Average						-10	+48	602	681 DUP
	 	100						.	
078	180B	438	187 MA	462	182 MD	+44	-38	481 DUP	736
088	10.0	100		• • • •		_			
	1808	A38	(87 MA	462	IBS MD	-32	~09	רצר	749
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	067			coled -		40.0	5.0		
	07/	****	Mej	c hed	, 0	40.0	5.0		
	075			Brok a		nlet			
	022		Turn	_		n let			
	078	/35	45.0	602	736	44.0	<i>S</i> .0		
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	078	602	734	Dale	che Pasit	4 681	Paret 7	25-221	In Elai
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	>7	£1457	br 16 Sh	5.50 10					64	80 454 64	29 32.8	11	(U
	56	25h B	75 1 4	Se ays					65	80454	29.30.2	=	2
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O Ñ	MENT OF COMMER	U.S. DEPARTMENT OF COMMERCE AL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL OC	HEET - M	OCEANOGRAPHIC LOG SHEET - BOTTOM SEDIMENT DATA	GRAPHI TOM SE	OCEANO BOT	_				5-44	NOAA FORM 75-44 (11-72)

☆ U.S. G.P.O. 1972-769-565/530 REG.#6

	NUMA FORE VIIII		
BOTTOM SEDIMENT DATA			
	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	U.S. DEPARTMENT OF COMMERCE	

SERIAL NO.

VESSEL

NOAA May 28 Aus. May 28 29° 32 8 81°00.8 May 28 29° 32,8 80° 57.8 SAMPLE POSITION DATE = ~ ---_ 2 -2 3 <u>-</u> 23 29 27.4 81 04.4 29°25.1/81°03.4/59 29° 32.8 81°04.6 29°27.5' 81°01.3 29,27.5 8058.1 2922,78559.4 29 20.6 Boss, 2 29°22.5 81°02.4 59 29°25,181°00.4 60 28° 12,7 | 80° 56.) | 55 29°200 80°55,0 56 29,20,0 910,4 57 2425.11 8557,0 62 LATITUDE LONGITUDE (Femore) PROJ. NO. 42 つり 62 28 2 DEPTH 25 53 60 かく プレ SAM-PLER TRAP LENGTH OF CORE SEDI-5K Z fre for by 5 by b Sh fine by S, byt Sh 300 Sne br S brk Sh Sne bo S tric \mathcal{S}_{λ} e 200 fre br S Suc and Lock Sh 73 FIELD DESCRIPTION کر *۱*۷ 5 - 3 5 29 1 bok Sh brk S S) CHECKED BY 7 REMARKS
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0002 Use more than one line per sample if necessary. #000 SERIAL NO. VESSEL NOAA FORM 75-44 (11-72) N 55 الله ولا 29/July DATE 29/32 84 LATITUDE LONGITUDE (Fathome) SAMPLE POSITION PROJ. NO. 81/06 81/07 0 RANDIST 57' 55, DEPTH WEIGHT 74 74 6 185 6138 PLER STATIONS SHEET OCEANOGRAPHIC LOG SHEET - M BOTTOM SEDIMENT DATA -TRAP -; LENGTH COLOR
OF
SEDICORE MENT ZA H/X AHP-40-1-74 brown USED brown Fine bry Said & box Sh **WERE** fine by Smideby Sh FIELD DESCRIPTION CHICKEIN U.S. DEPARTMENT OF COMMERCE いまり 日田大の日本の w. D. orro (Unusual conditions, cohesiveness, dented cutter, stat. no., type of bottom relief i.e., alope, plain, disposition, etc.) ١ FELM (974 DATE CHECKED

☆ U.S. G.P.O. 1972-769-565/530 REG.#6

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HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. H-9371 (AHP-40-1-74)

RECORDS ACCOMPANYING SURVEY: To be completed when survey is registered,

RECOR	D DESCRIPTION		АМО	UNT		RECORD DESCR	RIPTION	AMOUNT
SMOOTH SHEET	& 2-Overlay	s	1	-	BOATS	SHEETS		2
DESCRIPTIVE RI	EPORT		1		OVERL	AYS		4 🕸
DESCRIPTION	DEPTH RECORDS		CONT. ORDS	PRINT	routs	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
envelopes	3			9	t			
CAHIERS	1			31			40	
VOLUMES	2							
BOXES				2				

T-SHEET PRINTS (List)

ΤΡΗΟΟΚΑΡΟΙΘΕΡΗΟΟΚΑΡΟΙΘΕΡΙΟΟΚΑΚ

SPECIAL REPORTS (List)

Sawtooth Records (Filed with P/O.) Electronic Control Report (Filed

OFFICE PROCESSING ACTIVITIES

The following statistics will be submitted with the cartographer's report on the survey

	AMOUNTS						
PROCESSING ACTIVITY	PRE- VERIFICATION	VERIFICATION	REVIEW	TQTALS			
POSITIONS ON SHEET				3756			
POSITIONS CHECKED		375					
POSITIONS REVISED		52					
DEPTH SOUNDINGS REVISED		100					
DEPTH SOUNDINGS ERRONEOUSLY SPACED							
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED							
		· TIME (MA	NHOURS)				
TOPOGRAPHIC DETAILS		1					
JUNCTIONS		6					
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS							
SPECIAL ADJUSTMENTS							
ALL OTHER WORK		182					
TOTALS		189					
PRE-VERIFICATION BY		BEGINNING DATE	EN	IDING DATE			
W.H. Tyndall, M.W. Johnson		11-15-74		4-28-75			
VERIFICATION BY		BEGINNING DATE	E EN	IDING DATE			
B.J. Stephenson		6-14-75		9-15-75			
REVIEW BY HIT INSPO	5 hr	BEGINNING DATE	E	DING DATE			

H-9371

Items for Future Presurvey Reviews

The bottom is relatively stable. It contains several offlying sand ridges covered by 40-50 feet and numerous smaller ridges outlined by the 60-foot curve. No significant changes are apparent, although the bottom is largely sand and shell.

Position	Index	Bottom Change	Use	Resurvey
Lat.	Long.	Index	<u>Index</u>	Cycle
291 291 292 292 292 293 293 293	0811 0810 0811 0810 0805 0811 0810 0805	3 2 3 2 2 3 2 2	2 2 2 2 2 2 2 2 2	50 years

HYDROGRAPHIC INSPECTION TEAM

ATLANTIC MARINE CENTER

HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO. H-9371

FIELD NO. AHP-40-1-74

GENERAL LOCALITY and SPECIFIC LOCATION

East Coast of Florida Daytona Beach to Flagler Beach

SURVEYED: February 1, 1974 through August 26, 1974

PROJECT_NO.: OPR-436

SCALE: 1:40,000

SOUNDINGS BY: Raytheon Fathometer,

Model DE 723

CONTROL: Hastings Raydist (Range-Range)

Del Norte

1. Description of the Area

This survey covers the area from the 12 foot curve seaward to the 60 foot curve. The bottom is predominantly sand, shell and mud, and the bottom is regular sloping quickly to the 60^- foot curve and is relatively flat except for several shoaler areas with the general depths of 40 to 50 feet extending in a north - south direction about 3 miles off shore.

2. Control and Shoreline Type-Source-Origin

The control is adequately described in paragraph ${\bf F}$ of the Descriptive Report.

The shoreline originates with shoreline manuscripts TP-00664, TP-00665 and TP-00666 and was reduced to 1:40,000 by AMC personnel. Shoreline has been inked for orientation purposes.

3. Hydrography

A. Crossings: The crossings are in excellent agreement, with the exception of one to two feet differences in the area of relatively rough bottom on the shoals extending in a north - south direction.

- B. Depth Curves: The standard depth curves adequately delineate the area.
- C. Low-Water Line: None
- D. Developments: The developments of the bottom configuration are adequate.

4. Condition of the Survey

The sounding records, automated plot and the Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual, supplemented by the Instruction Manual-Automated Hydrographic Surveys.

5. Junctions

Adequate junction was made with H-9358 (1973) which joins this survey to the south. This survey also joins H-9455 (1974) on the north. Some problems were noted on the preliminary plot for this junction. It is believed that the discrepancies are on H-9455 and will be discussed in the verification of that survey. No contemporary surveys exist on the east.

6. Comparisons

- A. Prior Surveys: Comparisons with prior surveys were not possible as none are available to this branch at this time. See Descriptive Report, page 6, paragraph K.
- B. Contemporary Surveys: See paragraph 5 Junctions.
- C. Wire Drag: Not available at AMC.
- D. Comparison with Charts: Published Chart # 1244, 6th Ed., Dated: August 4, 1973.

(a) Hydrography

This survey's depths are in general harmony with the charted depths.

This survey is adequate to supersede the prior charted hydrography within the common area.

(b) Attention is directed to the following:

The depth of 40 feet found at 29° 20.6'N, 80° 56.0'W in charted depth of 45 feet. See sections J and K of Descriptive Report.

(c) Aids to Navigation

There are no aids to navigation within the area.

7. Compliance with Instructions

This survey adequately complies with the Project Instructions.

8. Additional Field Work

This is an excellent basic survey. Additional field work is not recommended.

Additional Notes

The crosslines and depth curves have been examined in the area surveyed inside of the 30° intersection as previously mentioned in paragraph F. of the Descriptive Report. There is no indication of depth misplacement.

> Examined and Approved: Hydrographic Inspection Team Date: September 16,1975

odessing Division

Chief, Verification Branch

fred C. Holmes

RADM., NOAA

Director, Atlantic Marine Center



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

NATIONAL OCEAN SURVEY Rockville, Md. 20852

C323

November 26, 1975

TO:

M. J. Umbach, Acting Chief

Marine Surveys Division

FROM:

R. H. Carstens

Quality Evaluator

SUBJECT:

Quality Control Report for H-9371 (1974), Vicinity

of Flagler Beach, Florida

Survey H-9371 was examined with respect to development of bottom configuration and least depths, junctions, sounding line crossings, data acquisition, shoreline transfer, cartographic presentation, and verification and review. In general, the survey conforms to National Ocean Survey standards and requirements except as follows:

- 1. The low water line, in places extending as much as 60 meters offshore, appears on the manuscripts but has not been transferred to the smooth sheet. In addition, two fishing piers extending about 200 meters offshore on the manuscripts and located by detached positions by the hydrographer had not been plotted on the smooth sheet.
- 2. The landmarks shown on the manuscripts were not transferred to the smooth sheet. One landmark plotted as a triangulation station was not properly identified as a landmark on the smooth sheet. Several charted landmarks are included in the list of signals in the Descriptive Report with positions which can be used to verify the charted positions.
- 3. The station dot was not shown in the plotted control station symbol.
- 4. Curves had been omitted from seven isolated features. In addition, an equal number of brown curves were added to emphasize features on the bottom not readily apparent.
- 5. The 49-foot depth charted in latitude 29°31.55', longitude 81°00.65' from H-4377 (1924) falls in present depths of 54-55 feet. The 49 is a single unsupported sounding on the prior survey and is considered discredited by the present development.
- 6. In the junctional area with H-8879 (1966) on the east, some slight shifting of the bottom and differences in depths preclude making curves coincide. The present survey should supersede H-8879 in charting this area of irregular bottom.

Attachment:

Descriptive Report H-9371

cc: CAM, AHP

	•			•		
Excess	Sounding	Cards	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.

REGISTRY NO.

The Computer and

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

CARDS CORRECTED

DATE	TIME	REQUIRED	•	INITIALS	·
REMARKS:					

During update, all hand-plotted soundings, crossed out in the final excess sounding printout, should be restored to the smooth plot data bank in the appropriate format.

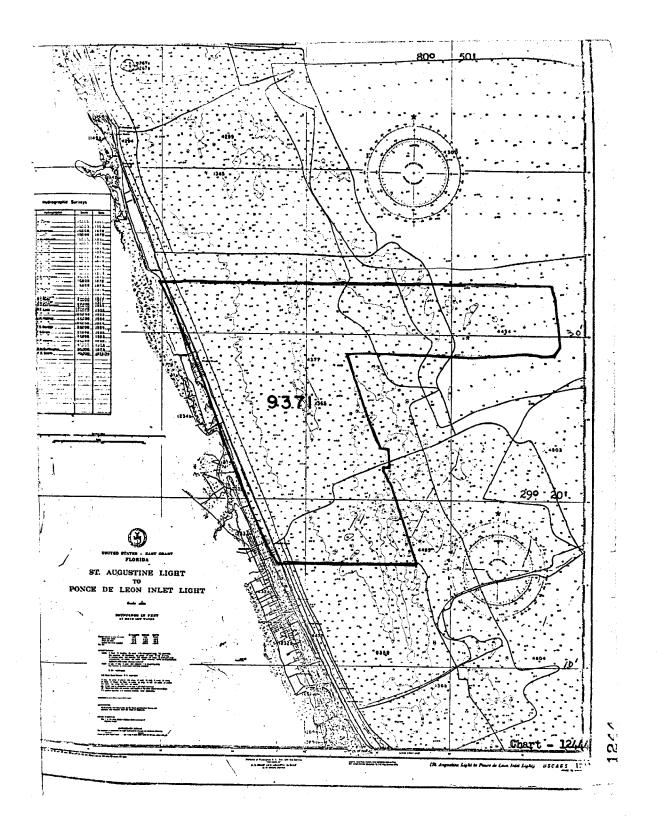
REGISTRY NO. <u>H-937/</u>

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 12/4/80	TIME	REQUIRED	 INITIALS A
REMARKS:			



NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

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 Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
\$43	1-27-70	E Bodovinac	Full Pare Before After Verification Review Inspection Signed Via
			Drawing No.
1244	2-23-76	RAShyphy	Full Para Pare After Verification Review Inspection Signed Via
		TCK STUPING	Drawing No.
11480	5-13-80	all Dep	Full Pare Defore After Verification Review Inspection Signed Via
11-7720	7700	au - y	Drawing No. 3.2
11009	6-17-83	BFenda	Full Par Priore After Verification Review Inspection Signed Via
	1,7-8-5		Drawing No. 48 + hrs 11480
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Day Pafer Afra V. C
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Day Defend Afra Verify of Defendance
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Day Parkers Africa Visit
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Tall Day D. C. and Tall St.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
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