

# 9350

Diag. Cht. No. 1257-2.

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. .... **HSL-20-1-72** .....

Office No. .... **H-9350** .....

### LOCALITY

State ..... **Florida** .....

General Locality .. **Gulf Coast of Florida** .....

Locality ..... **Pass-a-grill Channel** .....

..... **to Johns Pass** .....

19 72

### CHIEF OF PARTY

..... **LCDR F.T. Smith, NOAA** .....

### LIBRARY & ARCHIVES

DATE ..... **3/4/77** .....

# 9350

*Area 4*  
*Charts*  
*858*  
*1257*  
*1114*

INDEX

	Page
Hydrographic Title Sheet.....	1
Boatsheet Layout.....	2
A. Project.....	3
B. Area Surveyed.....	3
C. Sounding Vessel.....	4
D. Sounding Equipment.....	4-5
E. Smooth Sheet.....	5
F. Control.....	5
G. Shoreline.....	6
H. Crosslines.....	6
I. Junctions.....	6
J. Comparison with Prior Surveys.....	6-7
K. Comparison with the Chart.....	7
L. Adequacy of Survey.....	7
M. Aids to Navigation.....	8
N. Statistics.....	8
O. Miscellaneous.....	8
P. Recommendations.....	8
Q. References to Reports.....	8
Approval Sheet.....	9
Electronic Control.....	
1. Projection Parameters.....	10
<del>2. Electronic Control Parameters.....</del>	<del>11</del>
<del>3. Parameter Tape Listings.....</del>	<del>12</del>
4. Electronic Corrector Abstract.....	13-15
List of Signals.....	16
Velocity Table & TC/TI Listing.....	17
Abstract of Settlement and Squat... (See Report on Correction to Echo Sounders)	
Actual Times of Hydrography.....	18
Tide Note.....	19
Bottom Sample Log Sheet.....	20-26

Category 1

HYDROGRAPHIC TITLE SHEET

H-9350

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.

HSL-20-1-72

State Florida

General locality Northwest Coast

Locality Pass-A-Grill to John's Pass

Scale 1:20,000 Date of survey 12/12/72 - 01/30/73

Instructions dated September 11, 1972 Project No. OPR-508-HSL-72

Vessel NOAA Launch 1257

Chief of party LCDR F.T. Smith, NOAA

Surveyed by Launch Personnel

Soundings taken by echo sounder, ~~handheld~~ Raytheon DE-723D, sn's 1904 & 37024

Graphic record scaled by Launch Personnel

Graphic record checked by Launch Personnel

Protracted by N.A. Automated plot by Calcomp-618 (AMC)

Verification by R.G. Cram and C. Meekins

Soundings in ~~fathoms~~ feet at MLW ~~MLLW~~

REMARKS: Raydist DRS System Navigator used for positioning

*changed to Category 1*

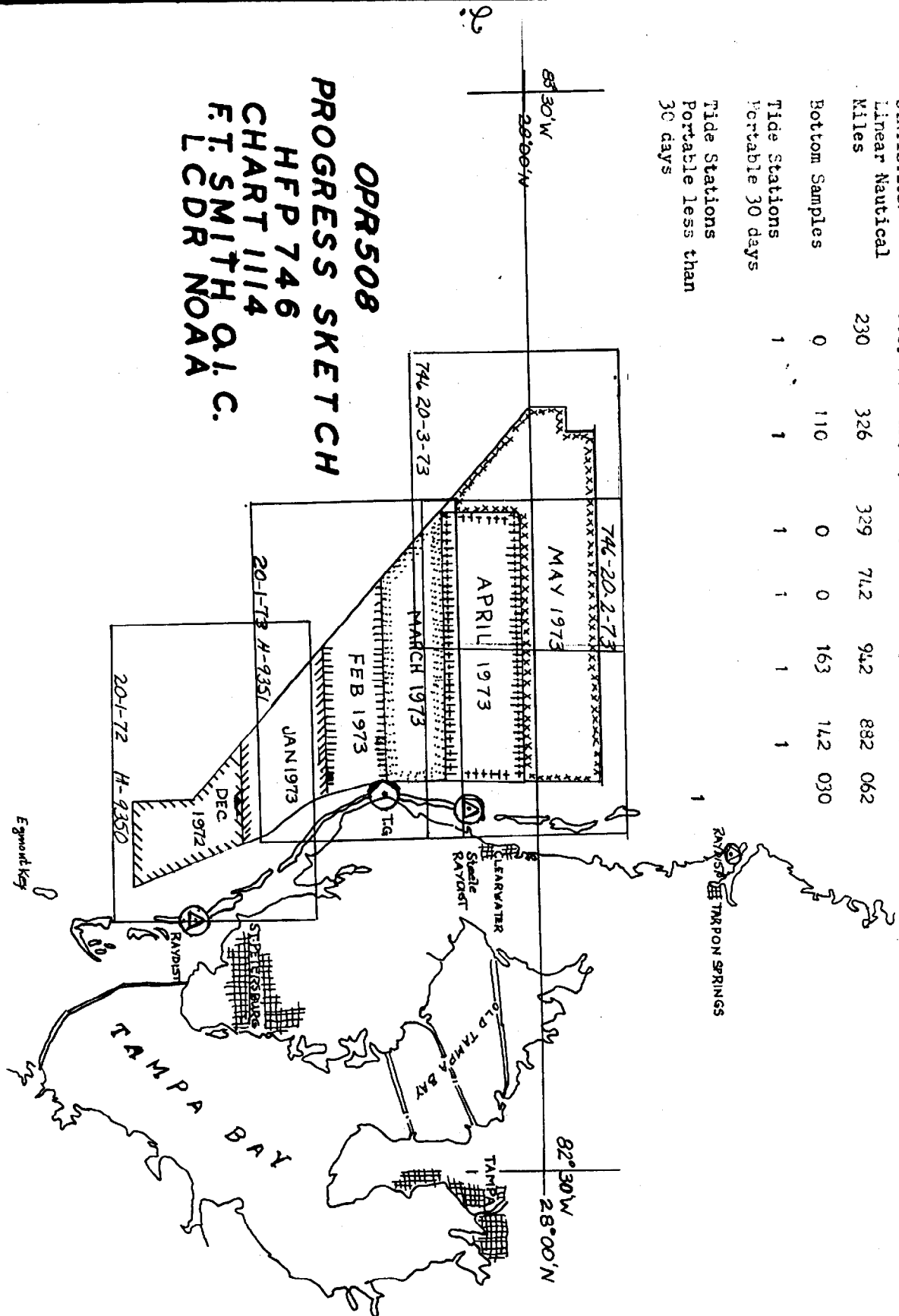
*Applied to table 3-10-77*

*CR*

STATISTICS:

	Dec. 72	Jan. 73	Feb. 73	Mar. 73	April 73	May 73	Jun. 73
Linear Nautical Miles	230	326	329	742	942	832	062
Bottom Samples	0	110	0	0	163	142	030
Tide Stations Portable 30 days	1	1	1	1	1	1	1
Tide Stations Portable less than 30 days							

OPR 508  
 HFP 746  
 CHART 1114  
 F. T. SMITH O.I.C.  
 L. CDR NOAA



DESCRIPTIVE REPORT

TO

ACCOMPANY HYDROGRAPHIC SURVEY H-9350

FIELD NO. HSL-20-1-73

Scale 1:20,000  
Year 1972

NOAA Launch 1257  
LCDR F. T. Smith, OIC

A. PROJECT

This survey was conducted as a part of Project OPR-508 in accordance with Project Instructions OPR-508-HSL-72, Gulf Coast of Florida, dated September 11, 1972.

B. AREA SURVEYED

The following GP's define the corners of the survey:

<u>LATITUDE (north)</u>	<u>LONGITUDE (west)</u>
27 40.0	82 46.4
27 40.0	82 50.8
27 42.2	82 50.8
27 48.0	82 57.7
27 48.0	82 50.0
27 46.1	82 48.7

The adjacent coast is the west coast of Florida. The sheet extends from Pass-A-Grille Channel to about one mile north of Johns Pass.

This survey makes no junction with prior surveys. Junctions are made with the following contemporary surveys:

Registry No. 7971 (1952)  
7968 (1951-52)  
8427 (1958)

The survey was during the period 12 December 1972 through 30 January 1973.

C. SOUNDING VESSEL

NOAA Launch 1257 of HFP 746 was the only vessel used to obtain soundings on this boatsheet.

D. SOUNDING EQUIPMENT

Two Raytheon DE-723D's were used as sounding units.

<u>MODEL NUMBER</u>	<u>SERIAL NUMBER</u>
723-40	1904
723-40	37024

Also used with the above sounding units were the following:

- (1) TRACOR - Model number 20 - Precision Frequency - Square Wave - Power Module
- (2) Electronic Cabinet Unit (ECU) - Model Number 723-42 - Serial Number 1910
- (3) Raytheon Digital Depth Monitor - Model 723-41 - Serial Number 37016

These units were used in 9-35 feet of water.

Echo sounding corrections were determined from barchecks.

Faults in the sounding equipment or records included the following:

- (1) Fine Arc - does not coincide with the printed arc on the analog record (fathogram). There is coincidence at top and bottom with approximately 1 mm disagreement at the center. Fine arc comparisons were made daily. For further information see Corrections to Echo Soundings.
- (2) Some portions of the analog trace were missing due to stylus needle not being properly adjusted or because of bad fathometer paper.
- (3) Digital output from the hydroplot controller was erroneous on two days. The problem was that the depths of over 19.9 feet were incorrect in the tens. (i.e. 20.9 read 00.9, etc.) This hardware problem was corrected and the soundings concerned were corrected using the corrector tape.

- (4) The gain settings on the bar checks was zero (0) and was between 0 and 3.5 while sounding on line. The gain settings were not consistently noted by the fathometer operators. The digital analog relationship is affected by gain setting and a 0.1 foot variation could exist when gain setting is changed.

Settlement and squat was determined using the "level method." See Corrections to Echo Soundings for abstract on settlement and squat.

#### E. SMOOTH SHEET

The smooth sheet is to be plotted by the Processing Division at the Atlantic Marine Center in Norfolk, Virginia. This division will also plot soundings corrected for velocity and smooth tides.

#### F. CONTROL

Control for the entire survey was by Raydist operating in the range-range mode. The following stations were located by third-order ground methods and were used for the electronic control stations:

<u>STATION</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>
RUSCOE . blue .	27-42-28.830	82-44-16.570
STEEL RAYDIST . red .	27-56-32.724	82-50-13.464

Calibration was done using the three-point fix-check angle method. The calibration signals were located by ground method and listed in the Appendix. An abstract of the corrections is included in the Appendix.

The following electronic equipment was used in conjunction with a Digital Equipment Corporation PDP/8I computer for electronic positioning.

<u>EQUIPMENT</u>	<u>MODEL NO.</u>	<u>SERIAL NO.</u>	<u>FREQUENCY</u>
Raydist DRS System Navigator	ZA-673	67	3296.495 Khz

C&GS Hydroplot (Marine Digital Navigation Unit Systems, Inc.)

C&GS Hydroplot (DEC) Controller

(Note this letter attached at front of Disc. Report.)

G. SHORELINE

Shoreline not placed on Smooth Sheet, as per letter dated Feb. 5, 1976 from Robert C. Munson, Associate Director, Office of Marine Surveys & maps.

There is no shoreline on this sheet. The survey was generally run into the 12 foot curve. The inshore area (Phase II) is to be accomplished at another time by an inshore field party.

H. CROSSLINES

Crosslines were run to the extent of 9% of regular sounding lines. Development work was not included as regular sounding line. Differences at crossings were reconciled by reviewing the fathograms. Any difference of 1 foot or more was checked and in most cases was found to be either due to scanning error or computer "rounding" method.

I. JUNCTIONS

Very good agreement was achieved with contemporary Survey No. 7971, scale 1:20,000, dated 1952. Soundings agreed within 1 foot everywhere. Contemporary survey soundings generally deeper when discrepancy exists. Very good agreement with contemporary Survey No. 8427, scale 1:20,000, dated 1958. Soundings within 1 foot of H-9350. The contemporary survey is generally deeper than H-9350.

Very good agreement with contemporary Survey No. 7968, scale 1:20,000 dated 1951 and 1952, except at Latitude 27-46.8, Longitude 82-49.3 where a three foot discrepancy exists. (i.e. 16-17' found amid 19-20' on H-9350). *Smooth Sheet agrees... CW*

J. COMPARISON WITH PRIOR SURVEYS

... See note below ...

- (1) No. 4580, 1:40,000, dated 1924-1926  
24 and 30 foot depth curves appear to have moved to seaward 1/2 mile or more over the years.

Shallow submarine valley at Latitude 27-47.7, Longitude 82-50.75 has closed up due to shoaling.

23 foot depth found at 27-46.1, 82-53.5 where prior survey indicates 28 foot.

24 foot shoal found at 27-46.35, 82-55.25 where prior survey indicated 28 foot.

23 foot found at 27-44.2, 82-50.75 that is not indicated on prior survey.

*note Junctions ... H. 7968 (1951-52)  
no significant difference between this and H-9350 (1 to 2' max. except for discrepancy noted above) - junction was made but curves not matched. Considering the 20 year difference between surveys, it is felt that data on current survey supersedes the earlier data.  
Chris M. Sm. Sheet.*



- (2) No. 1557A, 1:40,000, dated 1883  
 Generally good comparison. Prior survey's smaller scale, considerably less densification of soundings and the fact that soundings are plotted in fathoms make comparison difficult.

Discrepancies are due to the fact that the prior surveys did not have the great density of soundings that the new survey contains. Also the old survey methods could account for some of this discrepancy. However, the fact that the new survey has not been corrected for the velocity of sound or smooth tides could also account for some of the discrepancy.

The Pre-survey review item at 27-45.65, 82-50.25 was not found to be significant. A least depth at this position was found to be 15' when developing the area.

K. COMPARISON WITH THE CHART

The following charts were used for comparison.

<u>CHART</u>	<u>SCALE</u>	<u>PRINT DATE</u>
586	1:40,000	April 22, 1972, 16th Edition
1257	1:80,000	February 5, 1972, 17th Edition

Excellent agreement on inshore end. There is a 2 foot discrepancy at 27-42.15, 82-50.25. A feature (shoal) was found here that is not on the charts. *NO All Sdgs. between 27°42' 80°50' & 27°43' 82°51' agree within one foot of charted depths.*

A 3-4 foot discrepancy at 27-43.75, 82-50.9. Feature (shoal) found here not on charts. *NO All Sdgs. appear to agree within one ft. of charted depths.*

A 2-3 foot discrepancy at 27-41.1, 82-43.5. Features were found in this area (shoals) which are not charted.

A 10 foot depth on chart at 27-47.6, 82-51.8 was not found during current survey. Shoalest depth found in this area was 11 foot. However, 10 foot sounding was found approximately 550 meters northwest of charted sounding.

A 9 foot charted sounding at 27-47.5, 82-50.75 was not found during the current survey. The shoalest depth found in this area was 11 foot.

L. ADEQUACY OF SURVEY

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

M. AIDS TO NAVIGATION

There are no Landmarks for Charts and Fixed Aids to Navigation in the project area.

There are no floating aids to navigation in the project area.

N. STATISTICS

Total number of positions	1446
Total number of nautical miles of sounding lines	463.9
Total area in square nautical miles	39.8
Total number of bottom samples	111
Total number of tide stations	1 bubbler

*Day 030 - Time 14 03 20  
Pos. 1475 - Due to Duplicate  
Numbers ... added 6 to all  
Pos. nos.*

O. MISCELLANEOUS

The survey area is well trafficed by small craft.

P. RECOMMENDATIONS

None.

Q. REFERENCE TO REPORTS

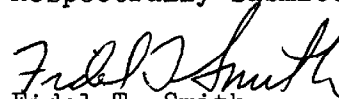
Reports, records and forms not included in the Descriptive Report which will be submitted separately include:

1. Master & Corrector Tapes
2. TC/VI tapes and Velocity Table number tapes
3. Parameter tapes
4. Binary & ASCII signal tapes
5. Master & Corrector tape hardcopy printouts
6. Fathograms
7. Complot sheets "A & B"
8. Recording volume
9. Report on Correction to Echo Soundings
10. Report on Corrections to Electronic Control
11. Report on Horizontal Control

APPROVAL SHEET

All records and data for this survey has been collected under my supervision and examined by me daily for completeness and adequacy.

Respectfully Submitted,



Fidel T. Smith  
LCDR, NOAA  
Chief, HFP 746

APPENDIX

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ATLANTIC MARINE CENTER

PROJECTION PARAMETERS

POLYCONIC OR MODIFIED TRANSVERSE MERCATOR

- 1. Project No. OPR-508                      4. Requested By R. Gram
- 2. Reg. No. H-9350                            5. Ship or Office Verification Branch
- 3. Field No. HSL-20-1-72                  6. Date Required A.S.A.P.

7. Polyconic                       Modified Transverse Mercator

8. Central Meridian of Projection 82 ° 52 ' 00 "

9. Survey Scale: 1: 20,000

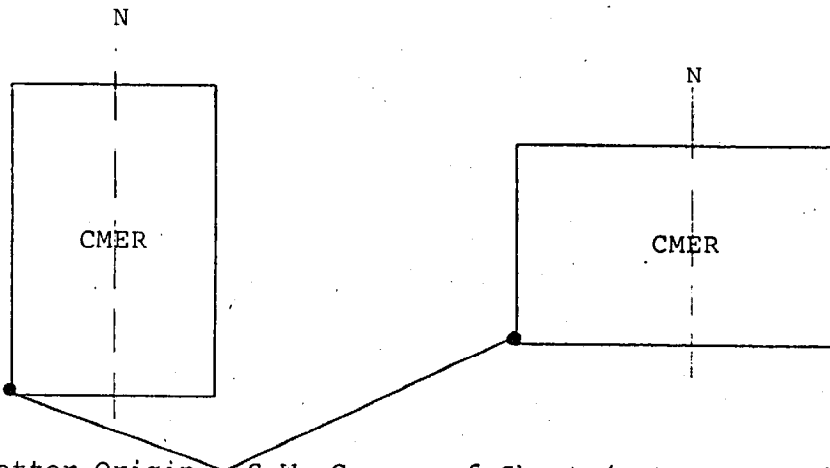
10. Size of Sheet (check one):

36 x 54     36 x 60     Other     Specify 36 x 48

11. Sheet Orientation (check one):

NYX = 1

NYX =  $\emptyset$



12. Plotter Origin: S.W. Corner of Sheet (not necessarily a grid intersection)

Latitude 27 ° 39 ' 30 " ✓

Longitude 82 ° 58 ' 45 " ✓

13. G.P.'s of triangulation and/or signals attached

14. Material Desired: Tracing Paper  Mylar

Smooth Sheet  Other  Specify \_\_\_\_\_

15. Remarks: Please plot Triangulation Station Sure as per Verification Note to EDP (8 March 1976).

ELECTRONIC CORRECTOR ABSTRACT

VESSEL : 1257

SHEET : H-9350

TIME	DAY	PATTERN 1	PATTERN 2
143616	347	+00022	-00008
173015		+00022	-00008
180431		+00022	-00008
235959		+00022	-00008
161544	348	+00016	-00002
235959		+00016	-00002
142623	349	+00011	-00009
235959		+00011	-00009
172742	349	+00011	-00009
235959		+00011	-00009
144453	010	-00016	-00043
145103		-00016	-00043
151814		-00016	-00043
153213		-00016	-00043
155935		-00016	-00043
161547		-00016	-00043
165049		-00016	-00043
165858		-00016	-00043
170048		-00016	-00043
170538		-00016	-00043
173321		-00013	-00043
173501		-00016	-00043
173801		-00016	-00043
180431		-00016	-00043
180451		-00016	-00043
180511		-00016	-00043
180701		-00016	-00043
180711		-00016	-00043
180721		-00016	-00043
180901		-00016	-00043
183334		-00016	-00043
183444		-00016	-00043
183654		-00016	-00043
183714		-00016	-00043
184114		-00016	-00043
184529		-00016	-00043
184649		-00016	-00043
184809		-00016	-00043
185009		-00016	-00043
185049		-00016	-00043
185059		-00016	-00043
185159		-00016	-00043
185209		-00016	-00043
185259		-00016	-00043
185419		-00016	-00043

ELECTRONIC CORRECTOR ABSTRACT

VESSEL : 1257

SHEET : H-9350

TIME	DAY	PATTERN 1	PATTERN 2
191537	010	-00016	-00043
191617		-00016	-00043
191857		-00016	-00043
191937		-00016	-00043
191947		-00016	-00043
192017		-00016	-00043
192257		-00016	-00043
193015		-00016	-00043
193045		-00016	-00043
193055		-00016	-00043
193245		-00016	-00043
193325		-00016	-00043
193445		-00016	-00043
93455	010	-00016	-00043
193535		-00016	-00043
193745		-00016	-00043
193825		-00016	-00043
200112		-00016	-00043
200152		-00016	-00043
200242		-00016	-00043
200312		-00016	-00043
200352		-00016	-00043
200412		-00016	-00043
200422		-00016	-00043
200432		-00016	-00043
200602		-00016	-00043
200802		-00016	-00043
200912		-00016	-00043
201826		-00016	-00043
202006		-00016	-00043
202136		-00016	-00043
202206		-00016	-00043
202236		-00016	-00043
202306		-00016	-00043
202326		-00016	-00043
202446		-00016	-00043
202546		-00016	-00043
202656		-00016	-00043
202706		-00016	-00043
202746		-00016	-00043
202816		-00016	-00043
205221		-00016	-00043
205411		-00016	-00043
205631		-00016	-00043
235959		-00016	-00043

ELECTRONIC CORRECTOR ABSTRACT

VESSEL : 1257

SHEET : H-9350

TIME	DAY	PATTERN 1	PATTERN 2
172350	015	-00013	-00038
173250		-00013	-00038
173320		-00013	-00038
173330		-00013	-00038
175914		-00013	-00038
181808		-00013	-00038
181938		-00013	-00038
182008		-00013	-00038
184416		-00013	-00038
190347		-00013	-00038
190427		-00013	-00038
190517		-00013	-00038
195102		-00013	-00038
95225	015	-00013	-00038
200955		-00013	-00038
235959		-00013	-00038
135325	023	-00011	-00030
235959		-00011	-00030
142100	024	-00005	-00035
235959		<del>-00005</del>	-00035
		-00005	
154231	025	-00010	-00025
235959		-00010	-00025
152649	030	-00015	-00055
162335		-00015	-00050
235959		-00015	-00050
140326	030	-00015	-00055
144326		-00015	-00055



LIST OF SIGNALS

<u>NOS.</u>	<u>NAME</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>METHOD OF LOCATION</u>
100	Egmont Key Lighthouse (Rear Range) 1873	27 36 0174	82 45 3908	At least third-order triangulation/traverse
105	Pink Hotel	27 42 3236	82 44 1477	"
107	SW Corner, Happy Dolphin	27 43 1759	82 44 2986	"
108	Penthouse, Elev. Shaft	27 44 1153	82 45 1218	"
110	Cross Atop St. John's Catholic Church	27 44 5249	82 45 1686	"
111	Blind Pass Tank	27 45 2328	82 45 3342	"
122	U. S. Veterans Hospital (Northwest of St. Petersburg) Squat White Tank 1934	27 48 3659	82 46 2178	"
133	Madeira Beach Tank	27 48 0605	82 47 5918	"
135	Light, 17408 Gulf Blvd.	27 49 2066	82 49 4295	"
144	Belleair Beach Tank	27 55 0060	82 50 2955	"
155	Belleair Silver Municipal Tank 1926	27 56 0214	82 48 0332	"
156	Clearwater, Belleview II Hotel, White Brick Stack 1925	27 56 3764	82 48 3773	"
166	Clearwater Beach Tank	27 59 0316	82 49 3848	"
170	Mandalay Shores	27 59 5043	82 49 3943	"
500	Ruscoe	27 42 2883	82 44 1657	"
505	Steel Raydist	27 56 3272	82 50 1346	"

*depth from surface*

**VELOCITY TABLE 01  
(VELOCITY CORRECTOR TAPE)**

000000 0 0000 0001 000 125700 009350  
000070 0 0002  
000118 0 0004  
000166 0 0006  
000214 0 0008  
000262 0 0010  
000310 0 0012  
000358 0 0014  
999999 0 1000

**TC/TI TAPE**

000000 0 0000 0001 347 125700 009350  
000000 0 0000 0001 348 125700 009350  
000000 0 0000 0001 349 125700 009350  
000000 0 0000 0001 010 125700 009350  
000000 0 0000 0001 015 125700 009350  
000000 0 0000 0001 023 125700 009350  
000000 0 0000 0001 024 125700 009350  
000000 0 0000 0001 025 125700 009350  
000000 0 0000 0001 030 125700 009350

ACTUAL TIMES OF HYDROGRAPHY

<u>DATE</u> <u>1972-3</u>	<u>JULIAN</u> <u>DAY</u>	<u>START TIME</u> <u>(GMT)</u>	<u>END TIME</u> <u>(GMT)</u>
Dec. 12	347	143616	204158
Dec. 13	348	161544	213626
Dec. 14	349	142623	212132
Jan. 9	This days work rejected		
Jan. 10	010	144453	210201
Jan. 15	015	172350	205749
Jan. 23	023	135325	201326
Jan. 24	024	142100	194527
Jan. 25	025	154231	185848
Jan. 30	030	140326	190402

11/26/75

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 Form 362

Tide Station Used (NOAA Form 77-12): Indian Rocks Beach

Period: December, 1972-January, 1973

HYDROGRAPHIC SHEET: H-9350

OPR: 508

Locality: Off the west coast of Florida

Plane of reference (mean ~~lower~~ low water): 2.0 ft. - Dec., 1972  
diurnal 1.3 ft. - Jan., 1973

Height of Mean High Water above Plane of Reference:  
2.1 ft.

Remarks: Zone direct

*James R. Hubbard*  
for Chief, Tides Branch



183  
**U.S. DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
NATIONAL OCEAN SURVEY  
Rockville, Md. 20852

C323

FEB 5 1976

Call 31 notebook

*ACB*  
TO: Alfred C. Holmes  
Director, Atlantic Marine Center  
Attention: Chief, Processing Division  
FROM: Robert C. Munson *Robert C. Munson*  
Associate Director  
Office of Marine Surveys and Maps  
SUBJECT: Omission of High Water Line

In accordance with telephone communication with Mr. William L. Jonns on January 29, 1976, hydrographic surveys H-9390, H-9350, and H-9351 of Project OPR-508, Offshore, Florida West Coast, may be considered complete and forwarded to this Office without the application of the mean high water line. Future surveys inshore from these should have the high water line shown.



OCEANOGRAPHIC LOG SHEET - M  
BOTTOM SEDIMENT DATA

Registry # H-9350

FORM CGS-733M  
(6-66)

SERIAL NO.	DATE	SAMPLE POSITION		DEPTH (STATIONS)	WEIGHT ON SAMPLER	AP. PROX. PENE- TRA- TION	LENGTH OF CORE	COLOR SEDI- MENT	FIELD DESCRIPTION	REMARKS (Unusual conditions, cohesiveness, denting, cutter, stat. no., type of bottom relief, etc., slope, plain, disposition, etc.)	OBS. INIT.	
		LATITUDE	LONGITUDE									
		VESSEL		YEAR	CHECKED BY							DATE CHECKED
		HSL-NOAA 1257		73	OPR 508							
1225	1/23/73	N	W	22.9		1 1/2			FINE GRAY SAND		DM	
1226	"	27°44'13"	82°49'27.5"	21.5		"			BROKEN SHELLS FINE GRAY SAND		"	
1227	"	27°44'14"	82°50'20"	23.7		"			BROKEN SHELLS FINE GRAY SAND		"	
1228	"	27°44'16"	82°50'51"	25.8		"			BROKEN SHELLS FINE GRAY SAND		"	
1229	"	27°44'15"	82°50'59"	27.0		"			BROKEN SHELLS A WORM FINE GRAY SAND		"	
1230	"	27°44'15"	82°53'08"	27.4		"			BROKEN SHELLS FINE GRAY SAND		"	
1232	"	27°44'45"	82°53'08"	29.0		"			BROKEN SHELLS FINE GRAY SAND		"	
1233	"	27°44'46"	82°52'21"	24.4		"			BROKEN SHELLS BLACK SHELS FINE GRAY SAND		"	
1234	"	27°44'46"	82°51'34"	24.1		"			BROKEN SHELLS FINE GRAY SAND		"	
1235	"	27°44'46"	82°50'47"	24.7		"			BROKEN SHELLS A WORM FINE GRAY SAND		"	
1236	"	27°44'45"	82°50'04"	22.5		"			BROKEN SHELLS FINE GRAY SAND		"	
1237	"	27°44'46"	82°49'14"	20.8		"			BROKEN SHELLS FINE GRAY F-BROWN SAND		"	
1238	"	27°44'46"	82°48'26"	22.2		"			BROKEN SHELLS FINE GRAY SAND		"	
1239	"	27°45'18"	82°48'40"	19.7		"			BROKEN SHELLS FINE GRAY MUD & SAND		"	
1240	"	27°45'17"	82°49'18"	21.4		"			BROKEN SHELLS FINE GRAY BROWN SAND		"	
1241	"	27°45'18"	82°50'02"	20.1		"			BROKEN SHELLS VERY FINE GRAY MUD		"	
<del>1242</del>	"					"					"	

Use more than one line per sample if necessary.

OCEANOGRAPHIC LOG SHEET - M  
BOTTOM SEDIMENT DATA

U.S. DEPARTMENT OF COMMERCE  
ESSA  
COAST AND GEODETIC SURVEY

VESSEL NOVA-1257 PROJ. NO. 0FR 508 YEAR 73 CHECKED BY Regis by # H-9350 DATE CHECKED

SERIAL NO.	DATE	SAMPLE POSITION		DEPTH (METERS)	WEIGHT OF SAM- PLER	AP. PROX. PEN- ETRA- TION	LENGTH OF CORE	COLOR OF SEDI- MENT	FIELD DESCRIPTION	REMARKS (Unusual conditions, cores/veins, dented cutter, stat. no., type of bottom relief, etc.)	OBS. INIT.
		LATITUDE	LONGITUDE								
1242	1/23/73	27°45'18"	82°50'02"	21.6		lim			FINE GRAY SAND BROKEN SHELLS		DM
1243	"	27°45'18"	82°51'31"	22.0		"			FINE GRAY SAND BROKEN SHELLS		"
1244	"	27°45'18"	82°51'24"	25.8		"			FINE GRAY SAND BROKEN SHELLS		"
1245	"	27°45'18"	82°53'10"	26.7		"			FINE GRAY SAND BROKEN SHELLS		"
1246	"	27°45'18"	82°53'57"	26.4		"			SHELLS		"
1247	"	27°45'48"	82°54'31"	30.5		"			WHITE F GRAY SAND		"
1248	"	27°45'49"	82°54'11"	27.5		"			GRAY SAND		"
1249	"	27°45'44"	82°53'27"	31.3		"			WHITE F GRAY SAND GRASS		"
1250	"	27°45'48"	82°52'33"	26.2		"			WHITE F GRAY SAND		"
1251	"	27°45'48"	82°51'53"	21.4		"			GRAY SAND		"
1252	"	27°45'48"	82°50'23"	18.7		"			SHELLS		"
1253	"	27°45'48"	82°49'06"	20.7		"			GRAY SAND		"
1254	"	27°45'48"	82°49'35"	19.8		"			GRAY SAND BROKEN SHELLS GRASS		"
1255	"	27°45'48"	82°48'46"	20.2		"			GRAY SAND		"
1256	"	27°46'18"	82°49'13"	16.9		"			GRAY SAND GRASS		"
1257	"	27°46'20"	82°50'00"	20.7		"			GRAY SAND BROKEN SHELLS		"
1258	"	27°46'19"	82°50'48"	18.7		"			SHELLS		"
1259	"	27°46'20"	82°51'33"	20.5		"			SHELLS		"

OCEANOGRAPHIC LOG SHEET - M  
BOTTOM SEDIMENT DATA

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

Checked by **H-9350**

SERIAL NO.	DATE	SAMPLE POSITION		DEPTH (Fathoms)	WEIGHT OF SAM- PLER	AP- PROX. PENE- TRA- TION	LENGTH OF CORE	COLOR OF SEDI- MENT	FIELD DESCRIPTION	REMARKS (Unusual conditions, cohesiveness, denting, curter, star no., type of bottom relief i.e., INT. slope, plain, disposition, etc.)	OBS. NO.
		LATITUDE	LONGITUDE								
VESSEL <b>NOAA 1257</b>		PROJ. NO. <b>OPR 508</b>		YEAR <b>73</b>	DATE CHECKED						
1260	1/23/73	27°46'21"	82°52'14"	198		1 m			Gray Sand		DM
1261	"	27°46'20"	82°53'08"	248		"			Gray Sand		DM
1262	"	27°46'20"	82°53'04"	315		"			Gray Sand shells		"
1263	"	27°46'20"	82°54'38"	292		"			Gray Sand		"
1264	"	27°46'20"	82°55'24"	278		"			FINE Gray Sand Pebbles		"
1265	"	27°46'50"	82°55'57"	290		"			FINE Gray Sand Broken shells		"
1266	"	27°46'50"	82°55'11"	270		"			Gray sand, broken shells, black specks		"
1267	"	27°46'50"	82°54'21"	294		"			Rocks - pebbles coral		"
1268	"	27°46'50"	82°53'57"	274		"			BROWN shells pebbles		"
1269	"	27°46'50"	82°52'47"	195		"			COARSE Sand BROWN shells		"
1270	"	27°46'51"	82°51'59"	201		"			COARSE Gray Sand MEDIUM Gray Sand BROWN shells		"
1271	"	27°46'51"	82°51'12"	215		"			shells		"
1272	"	27°46'50"	82°50'26"	190		"			Fine Gray Sand Black specks		"
1273	"	27°46'50"	82°49'38"	208		"			Brown shells Coarse Sand		"
1274	"	27°47'21"	82°50'01"	166		"			FINE Gray Sand		"
1275	"	27°47'21"	82°50'59"	189		"					"
1276	"	27°47'21"	82°51'44"	172		"			FINE Gray Sand Black specks		"

82.

Use more than one line per sample if necessary.



OCEANOGRAPHIC LOG SHEET - M  
BOTTOM SEDIMENT DATA

H-9350

VESSEL	DATE	PROJ. NO.		YEAR	DEPTH Feet (Paros)	WEIGHT OF SAMPLER	AP. PROJ. TRANS- FORMATION	LENGTH OF SEDI- MENT CORE	COLOR OF SEDI- MENT	FIELD DESCRIPTION	REMARKS (Unusual conditions, color, freshness, demarcation, cutter, size, etc. for roller file, slope, plain, disposition, etc.)	OBS. INIT.
		LATITUDE	LONGITUDE									
NOAA 1257		OPR 508										
1277	1/23/73	27°47'21"	82°52'25"		186		1 m			Brown shells medium sand black specks		"
1278	"	27°47'21"	82°53'12"		208		"			Broken shells medium brown sand black specks		"
1279	"	27°47'21"	82°52'00"		280		"			Fine brown sand black specks		"
1280	"	27°47'21"	82°54'45"		302		"			Medium gray sand black specks		"
1281	"	27°47'21"	82°55'29"		299		"			Medium brown sand broken shells black specks		"
1282	"	27°47'21"	82°56'24"		280		"			Medium gray sand black specks		"
1283	"	27°47'54"	82°56'21"		296		"			Fine gray sand black specks		"
1284	"	27°47'51"	82°56'00"		282		"			Medium gray sand shells, black specks		"
1285	"	27°47'54"	82°55'03"		271		"			Fine brown gray sand black specks broken shells		"
1286	"	27°47'53"	82°54'19"		259		"			Fine brown & gray sand. black specks		"
1287	"	27°47'53"	82°53'28"		195		"			Fine gray sand black specks		"
1288	"	27°47'54"	82°52'46"		163		"			Fine gray sand black specks		"
1289	"	27°47'53"	82°51'55"		127		"			Medium dark gray sand & shells		"
1290	"	27°47'54"	82°51'10"		203		"			Fine brown sand black specks		"
1291	"	27°47'54"	82°50'29"		200		"			Shells - brown sand black specks		"
							"					
							"					

23.

OCEANOGRAPHIC LOG SHEET - M  
BOTTOM SEDIMENT DATA

FORM C&GS-733M  
(4-66)

SERIAL NO.	DATE	SAMPLE POSITION		DEPTH (FATHOMS)	WEIGHT OF SAMPLER	AP. PENE- TRA- TION	LENGTH OF CORE	COLOR OF SEDIMENT	FIELD DESCRIPTION	REMARKS (Unusual conditions, cohesiveness, denting cutter, etc., nor. type of bottom relief, i.e., slope, plain, disposition, etc.)	OBS. INIT.
		LATITUDE	LONGITUDE								
1292	1-24-23	27 40 13	82 46 50	18.5		1 in			LIGHT GRAY SAND SHELLS		"
1293	" "	27 40 13	82 47 03	20.3					LIGHT GRAY SAND SHELLS		"
1294	" "	27 40 14	82 47 58	21.9					LIGHT GRAY SAND SHELLS		"
1295	" "	27 40 13	82 48 14	23.3					LIGHT DARK GRAY SAND SHELLS		"
1296	" "	27 40 14	82 49 08	25.4					LIGHT DARK GRAY SAND SHELLS		"
1297	" "	27 40 14	82 50 15	26.0					LIGHT GRAY SAND		"
1298	" "	27 40 15	82 50 41	26.8					LIGHT GRAY SAND		"
1299	" "	27 40 25	82 49 56	26.6					LIGHT DARK GRAY SAND BROKEN SHELLS		"
1300	" "	27 40 25	82 49 56	26.6					LIGHT GRAY SAND BRAYEN SHELLS		"
1301	" "	27 40 54	82 48 28	23.3					BROKEN SHELLS		"
1302	" "	27 40 44	82 48 28	25.4					LIGHT GRAY SAND		"
1303	" "	27 40 44	82 47 42	35.0					BITS OF BROKEN SHELLS		"
1304	" "	27 40 43	82 46 59	21.0					BROKEN SAND FINE GRAY SAND		"
1305	" "	27 41 13	82 47 24	35.0					BITS BROKEN SHELLS		"
1306	" "	27 41 15	82 48 15	26.4					LIGHT GRAY SAND		"
1307	" "	27 41 15	82 48 15	26.4					BITS OF BROKEN SHELLS		"
1308	" "	27 41 15	82 49 01	25.9					LIGHT GRAY SAND BITS BROKEN SHELLS		"
1309	" "	27 41 17	82 49 47	26.0					BROKEN SHELLS		"
1310	" "	27 41 17	82 49 47	26.0					LIGHT GRAY SAND		"
1311	" "	27 41 16	82 50 28	22.4					LIGHT GRAY SAND BROKEN SHELLS		"

CHECKED BY  
H-9350

DATE CHECKED

24.

Use more than one line per sample if necessary.

OCEANOGRAPHIC LOG SHEET - M  
BOTTOM SEDIMENT DATA

H-9350

VESSEL	SERIAL NO.	DATE	PROJ. NO.	YEAR	SAMPLE POSITION		DEPTH (Feet)	WEIGHT OF SAMPLER	AP. PROX. PEN- ETRA- TION	LENGTH OF CORE	COLOR OF SEDI- MENT	FIELD DESCRIPTION	REMARKS (Unusual conditions, cohesiveness, dented cutter, stat. no., type of bottom relief i.e., slope, plain, disposition, etc.)	OBS. (INIT.)
					LATITUDE	LONGITUDE								
NOAA	1257		CAR 88											
	1309	1-24-73	20 41 40	82 50 11	24.8				1 IN			LIGHT GRAY SAND BITS OF BROKEN SHELLS	"	
	1310	" "	20 41 40	82 48 25	26.1							LIGHT GRAY SAND BITS OF BROKEN SHELLS	"	
	1311	" "	20 41 40	82 48 40	26.8							LIGHT GRAY SAND BITS OF BROKEN SHELLS	"	
	1312	" "	20 41 39	82 48 51	24.4							BROWN SHELLS LIGHT GRAY SAND	"	
	1313	" "	20 41 38	82 48 57	24.4							SHELLS	"	
	1314	" "	20 41 38	82 47 12	23.5							SHELLS - LIGHT GRAY SAND	"	
	1315	" "	20 41 38	82 48 21	22.1							Brown shells Gray sand	"	
	1316	JAN 24 1973	20 43 44	82 49 09	23.1							SHELLS FINE GRAY BROWN SAND	"	
	1317	JAN 24 1973	20 43 44	82 49 09	23.1							BROWN SHELLS MED BROWN SAND	"	
	1318	JAN 24 1973	20 47 45	82 52 07	21.0							Brown shells Med Brown sand	"	
	1319	JAN 24 1973	20 47 14	82 51 00	29.1							Fine Brown & Gray Sand, Brown shells	"	
	1320	JAN 24 1973	20 47 14	82 50 54	26.8							Brown shells pebbles	"	
	1321	JAN 24 1973	20 47 45	82 52 33	25.6							Fine light Brown Gray sand, Brown shells	"	
	1322	JAN 24 1973	20 49 33	82 52 05	26.4							Brown sand Broken shells	"	
	1323	JAN 24 1973	20 47 13	82 49 21	22.3							BROWN SANDS	"	
	1324	JAN 24 1973	22 48 45	82 46 32	21.2							Fine Brown sand Broken shells Gray	"	
	1325	JAN 24 1973	20 41 39	82 47 51	24.4							Fine Brown Gray CRAB	"	

92  
51



ATLANTIC MARINE CENTER  
APPROVAL SHEET  
FOR  
AUTOMATED SURVEY H-9350

- 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.

Date: Feb, 18, 1977

Signed: William L. Jones

Title: Chief, Verification Branch

- B. The verified smooth sheet has been inspected, is complete, and meets the requirements of the Hydrographic and AMC Manuals. Exceptions are listed in the verifier's report.

Date: 2-22-77

Signed: R. A. Truitt

Title: Chief, Processing Division

GEOGRAPHIC NAMES

H-9350

Name on Survey											
	A	B	C	D	E	F	G	H	K		
											1
											2
											3
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											5
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											23
											24
											25

**HYDROGRAPHIC SURVEY STATISTICS**  
**HYDROGRAPHIC SURVEY NO. H-9350**

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

RECORD DESCRIPTION		AMOUNT	RECORD DESCRIPTION		AMOUNT	
SMOOTH SHEET with smooth PNO & excess overlay		/	BOAT SHEETS (4 parts, <sup>paper</sup> mylar)		/	
DESCRIPTIVE REPORT		/	OVERLAYS (preliminary)		2	
DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/SOURCE DOCUMENTS
ENVELOPES	XX		1-smooth & misc. data			/
CAHIERS	1- with P/O & sawtooth rec.		/			
VOLUMES		/				
BOXES						

T-SHEET PRINTS (List)

SPECIAL REPORTS (List)

**OFFICE PROCESSING ACTIVITIES**

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

PROCESSING ACTIVITY	AMOUNTS			
	PRE-VERIFICATION	VERIFICATION	REVIEW	TOTALS
POSITIONS ON SHEET				1446
POSITIONS CHECKED		110		
POSITIONS REVISED		2		
DEPTH SOUNDINGS REVISED				
DEPTH SOUNDINGS ERRONEOUSLY SPACED				
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED				
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS	0	0	0	0
JUNCTIONS		8		
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS	5	8		
SPECIAL ADJUSTMENTS	0	0		
ALL OTHER WORK	7	102		
<b>TOTALS</b>	<b>18</b>	<b>118</b>		
PRE-VERIFICATION BY F.L. Saunders, R.G. Cram	BEGINNING DATE 03/27/75	ENDING DATE 05/15/76		
VERIFICATION BY Charles Meekins	BEGINNING DATE 06/09/76	ENDING DATE 06/18/76		
REVIEW BY	BEGINNING DATE	ENDING DATE		

**VERIFIER'S REPORT**  
**HYDROGRAPHIC SURVEY, H - 9350**

**INSTRUCTIONS** - This form serves to identify items of a check list in verification together with items which are separately reported to the Reviewer. The form is not to be forwarded to the Reviewer. A report, which is prepared for the Reviewer, should identify items by number and letter and will be filed in the Descriptive Report until the survey is reviewed.

**CL - Check List Items:** should be checked as having been completed during the verification processes.

**R - Report Item:** This column refers to those items reported to the reviewer and is used to indicate the items discussed.

Part I - DESCRIPTIVE REPORT	CL	R	Part III - JUNCTIONS (Continued)	CL	R
<p><b>Note:</b> The verifier should first read the Descriptive Report for general information and problems.</p> <p>1. The Descriptive Report was consulted, paragraphs checked if found satisfactory, and notations were made in soft black pencil regarding action taken. Remarks Required: -- None</p>	X		<p>10. Junctions with contemporary surveys were satisfactory except as follows: Remarks Required: -- Consider conditions after adjustments have been made; note adjustments made. Make special notes of Butt junctions and areas which are <b>SUPERSEDED</b>. Note in D.R. - curves not identical</p>	X	
<p>2. Soundings originating with the survey and mentioned in the Descriptive Report have been verified and checked in soft black pencil, including latitude and longitude, together with position identification. Remarks Required: -- None</p>	X		<p><b>Part IV - VOLUMES</b></p> <p>11. All items affecting the plotting of the survey which are entered in the remarks columns of the sounding records were noted and check marked. In all cases appropriate action was taken and exceptions noted in the volumes. Remarks Required: -- None</p>	X	
<p>3. All reference to survey sheets mentioned in the Descriptive Report should include registry number and year. Remarks Required: -- None</p>	X			<p>12. Condition of sounding records was satisfactory except as follows: Remarks Required: -- Mention deficiencies in completeness of notes or actions for the following: (a) rocks (b) line turns (c) position values of beginning and ending of lines (d) bar check or velocity correctors (e) time recording (f) notes or markings on fathograms (g) was reduction of soundings accurately done? (h) was scanning accurate? (i) were peaks at uneven intervals missed? (j) were stamps completed? (k) references to adjacent features</p>	X
<p><b>Part II - SHORELINE AND SIGNALS</b></p> <p>4. Source of shoreline signals Remarks Required: -- List all surveys a. Give earliest and latest dates of photographs b. Field inspection date c. Field Edit date d. Reviewed-Unreviewed</p>	NA		<p><b>Part V - MACHINE PLOTTING</b></p> <p>13. All positions verified instrumentally were check marked in color in the sounding records, and verifier initialed the processing stamp. Remarks Required: -- None</p>	NA	
<p>5. The transfer of contemporary topographic information was carefully examined and reconciled with the hydrography. Remarks Required: -- Discuss remaining differences.</p>	NA			<p>14. The plotting of all unsatisfactory crossings was verified. Remarks Required: -- None</p>	X
<p>6. The plotting of all triangulation stations, topographic stations and hydrographic signals has been checked and noted in processing stamp No. 42 on the smooth sheet. Remarks Required: -- None</p>	X		<p>15. All detached positions locating critical soundings, rocks, buoys, breakers, obstructions, kelp, etc., were verified and the position numbers are legible. Remarks Required: -- None</p>	NA	
<p>7. Objects on which signals are located and which fall outside of the high-water line have been described on the sheet. Remarks Required: -- List those signals still unidentified.</p>	NA			<p><b>Part III - JUNCTIONS</b></p> <p><b>Note:</b> Make a cursory comparison preliminary to inking soundings in area of overlap.</p> <p>8. All junctions of contemporary or overlapping sheets were compared and overlapping curves were made identical. Remarks Required: -- <del>None</del> See note in D.R.</p>	X
<p>9. The notation in slanted lettering "JOINS H---- (19 )" was added in colored ink for all verified contemporary adjoining or overlapping sheets. Those not verified are shown in pencil. Remarks Required: -- None</p>	X				



Part V - PROTRACTING (Continued)	CL	R	Part VIII - AIDS TO NAVIGATION	CL	R
16. The protracting was satisfactory except as follows: Remarks Required: -- Refers to protracting in general except for specific faults repeated often, or faults in control information, which required considerable replotting or adjustments.	NA		26. All fixed aids located together with those on the contemporary topographic sheets, have been shown on the survey.  Remarks Required: -- Conflicts of any nature listed.	NA	
17. The protractor has been checked within the last three months. Remarks Required: -- Date of check, type of protractor and number.	NA		27. All floating aids listed in the Descriptive Report should be verified and checked in soft black pencil, including latitude and longitude and position identification.  Remarks Required: -- None	NA	
<b>Part VI - SOUNDINGS</b> 18. All soundings are clear and legible, and critical soundings are a little larger than adjacent soundings. Remarks Required: -- None	X		<b>Part IX - BOATSHEET</b> 28. The boat sheet was constantly compared with the smooth sheet with reference to notes, position of sounding lines and supplemental information. Remarks Required: -- None	X	
19. Sounding line crossings were satisfactory except as follows: Remarks Required: -- Discuss adjustments.	NA		29. Heights of rocks awash were correctly reduced and compared with topographic information. Remarks Required: -- Note excessive conflicts with topographic information.	NA	
20. The spacing of soundings as recorded in the records was closely followed; Remarks Required: -- None	X		<b>Part X - GENERAL</b> 30. All information on the sheet is shown in accordance with figures 82 and 83 in the Hydrographic Manual (Pub. 20-2). Remarks Required: -- None	X	
21. The scanning, reduction, spacing, plotting of questionable soundings have been verified. Remarks Required: -- None	X		31. Unnecessary pencil notes have been removed from the sheet. Remarks Required: -- None	X	
22. The smooth plotting of soundings was satisfactory except as follows: Remarks Required: -- Refer to legibility, errors in spacing, and errors in numbers - but not to errors in scanning.	NA		32. Degree, minute values and symbols have been checked; also electronic distance arcs have been properly identified and checked on the smooth sheet.  Remarks Required: -- None	X	
<b>Part VII - CURVES</b> 23. The depth curves have been inspected before inking. Remarks Required: -- By whom was the penciled curves inspected. NA	X		33. The bottom characteristics are adequately shown. Remarks Required: -- None	X	
24. The low-water line and delineation of shoal areas have been properly shown in accordance with the following:  a. From T-Sheet in dotted black lines b. From soundings in orange c. Approximate position of sketched curve is dashed orange d. Approximate position of shoal area not sounded in black dashed  Remarks Required: -- None	NA		<b>Part XI - NOTES TO THE REVIEWER</b> 34. Unresolved discrepancies and questionable soundings.	X	
25. Depth curves were satisfactory except as follows: (This statement should not refer to the manner in which the curves were drawn). Remarks Required: -- Indicate areas where curves could not be drawn completely because of lack of soundings. For some inshore areas a general statement is sufficient.	NA		35. Notation of discrepancies with photogrammetric survey inserted in report of unreviewed photogrammetric survey or on copy.	NA	
			36. Supplemental information.	NA	
Verified by Charles Meekins			Date June 18, 1976		

Verification Note  
Category II Survey  
H-9350 (HSL-20-1-72) OPR-508

This appears to be an excellent basic survey. Soundings are in good agreement at crossings and the depth curves adequately delineate the features in this area of irregular bottom.

This survey compares favorably with prior surveys H-7968 and H-7971 and the charted depths, and junctions good with H-9351 to the north.

No shoreline was applied to this Smooth Sheet as per memo of C323 dated February 5, 1976.

Norfolk, Virginia  
February 18, 1977

*William L. Jenns*  
William L. Jenns  
Chief, Verification Branch  
AMC



