

Diag. Cht. No. 1265-2

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. HSB-20-1-79

Office No. H-9804

LOCALITY

State Florida

General Locality Gulf of Mexico

Locality Offshore of Santa Rosa

Island

1979

CHIEF OF PARTY LCDR. Thomas W. Richards

LIBRARY & ARCHIVES

DATE August 29, 1980

area 4

- 11360-11006-1138**2**- ☆ U.S. GOV. PRINTING OFFICE: 1976-669-441

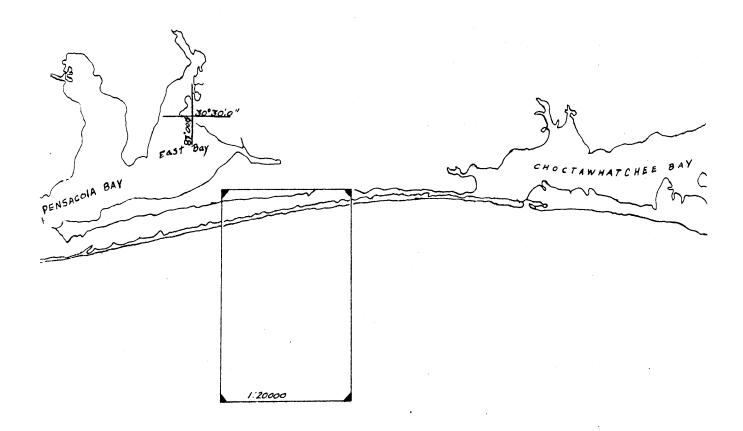
FORM C&GS-537

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

REGISTER NO.

H-9804

HYDROGRAPHIC TITLE SHEET	
INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.	FIELD NO. HSB 20-1-79
State_Florida	
Locality Approaches To Pensacola Bay Offshore of	
Scale 1:20000 Date of sur	vey 1 Feb, 1979 - 8 AU 6 1979
Instructions dated Sept. 9. 1977 Project No.	OPR-J217-HFP-78
Vessel NOAA LAUNCH 1257	
Chief of party LCDR, Thomas W. Richards, NOAA.	
Surveyed by LCDR, Micheel F. Kolesar, NOAA.	
Soundings taken by echo sounder,	
Graphic record scaled by MK, GL, GM, GH	
Graphic record checked by MK	D. 11 01
Protracted by Automa	ted plot by AMC XYNINETICS 1209
Soundings penciled by	. D.V. Meen 8/1/80
Soundings in Marken's feet at MARKEN Gulf Coast	Low Water Datum
REMARKS: MK- Michael Kolesar	
GL- G. Lloyd	
GM- G. Merrill	
GH- G. Hendrix	
applied to stop 1/	27/8/
(1.)	



30°00'.0°

APPROACHES TO PENSACOLA BAY

CHART: 11382 OPR-J217-HFP-78 HSB-20-1-79 H-9804

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SURVEY HSB 20-1-79 (H-9804)

Scale: 1:20,000 Chief of Party: Thomas W. Richards, LCDR, NOAA Officer-in-Charge: Michael F. Kolesar, LCDR, NOAA Hydrographic Surveys Branch, Hydrographic Field Party #1 Launch 1257

A. PROJECT

This survey was accomplished under Project Instructions OPR-J217-HFP-78, Gulf of Mexico, dated September 9, 1977, and amended by:

Change No. 9-15-77 Change No. 2 12-21-77 3 Change No. 12-21-77 Change No. 4 6-15-78 5 6-21-78 Change No. Change No. 12-04-78 6 7 Change No. 12-08-78 Change No. 8 12-19-78 Change No. 9 1-24-79 Change No. 10 2-08-79 Change No. 11 3-07-79 Change No. 12 8-24-79

B. AREA

The area surveyed was south of Santa Rosa Island, Florida from approximately the 3 fathom curve seaward to approximately the 18 fathom curve and bounded by the following points:

1. Latitude 30°24.5' Longitude 86°46.2'
2. Latitude 30°24.5' Longitude 86°57.4'
3. Latitude 30°08.4' Longitude 86°46.1'
4. Latitude 30°08.4' Longitude 86°57.4'

The survey was conducted from February 1, 1979 to August 8, 1979.

C. SOUNDING VESSEL

All sounding on this survey was accomplished by NOAA Launch 1257 (VESNO 1257). All survey records are annotated with the vessel number.

D. SOUNDING EQUIPMENT AND CORRECTIONS TO ECHO SOUNDINGS

1. Equipment.

The following Raytheon Fathometer equipment was used during the survey:

Recorder Model #723-40

Serial #2042

ECU Model #723-42 Serial #1910

DDM Model #723-41

Serial #2772

No unusual problems were encountered with the sounding equipment.

2. Settlement and Squat.

Settlement and squat were run on January 3, 1979 and April 16, 1979 after modifications to the trim tabs. Results are shown in the appendix. All hydro through day 005 was run at 1875 rpm. All hydro from day 110 on was run at 1925 rpm. In both cases settlement and squat correction was 0. The difference in speed was due to improved plane angle of the launch. All settlement and squat correctors are incorporated into the TRA slot on the corrector tapes.

3. Velocity Corrections.

Velocity corrections were determined by barchecks and TDC casts. Barchecks and TDC casts from this survey and surveys HSB 40-1-78 (H-9786), HSB 20-6-78 (H-9797), HSB 20-8-78 (H-9803), and HSB 40-2-78 (H-9798) were combined

as the sheets were adjacent and run concurrently.

Field sheets were plotted using approximately velocity curves developed by moving the TDC curve to extend the barchæck curves. Final velocity curves and tables were constructed from the TDC curves. Instrument Correction is shown on the TRA abstract.

The following TDC was used:

Manufacturer: Martek Instruments

Model number: 167-10 Serial number: 130

Four velocity tables will be used for the smooth plot:

> J.D. 346 to 066 Velocity Table #9 J.D. 108095 to 121 Velocity Table #10 Velocity Table #11 J.D. 135 to 1928 J.D. 218 to 234 Velocity Table #12

Graphs and tables are shown in the appendix.

HYDROGRAPHIC SHEETS

The field sheets were prepared on a PDP8/E computer with a DP-3-5 plotter. A work sheet, smooth sheet, and overlay sheet are included with the survey. Mainscheme hydrography and crosslines are plotted on the smooth sheet while developments, holidays, bottom samples, prior survey soundings, junction soundings, charted soundings, pre-surveyreview items and aids to navigation are shown on the overlay sheet.

Verification and smooth plotting will be done at the Atlantic Marine Center, Norfolk, Virginia. Projection and control parameters are in the Appendix.

F. CONTROL STATIONS

Raydist stations were located at the following geodetic positions:

Left (Green) Station 1955

Name: Clausen R.M. 3 (Signal #903)

Location:

Moreno Point (Destin, Florida) Latitude 30^o23'03.963" Longitude 86^o26'50.175" Position:

Right (Red) Station

Name: H-1-FL-77A (Signal #901)

Location: Cape San Blas

Latitude 29^o40'29.369" Longitude 85^o21'47.113" Position:

field Position

Station H-1-FL-77A was established by field party personnel. Station Clausen R.M. 3 is a reference mark established by USC and GS. 1955

HYDROGRAPHIC POSITION CONTROL

1. Equipment.

Control for this survey was a Hasting-Raydist DR-S system operating in the range-range mode.

Shore station equipment:

Left Station: Green Raydist Model AA-60

S/N 68

Right Station: Red Raydist Model AA-60 S/N

Launch equipment:

J.D. 032-065, 183-220

Navigator Model ZA 67B

S/N 67

Ant. Loading Model QB 52 Coil S/N 81

Transmitter Model TA 96 S/N 37

J.D. 110-145

Navigator (Third Party) Model ZA 67B

S/N 110

Transmitter (Third Party) Model TA 96

S/N

The system frequency was 3306.40 KH3 Shore station antennas were loaded 100 foot aluminum towers. The launch antenna was a 35 foot whip located over the fathometer transducer.

Calibrations.

Calibrations consisted of a visual three point sextant fix with a check angle. Calibrations were taken in the morning and evening whenever possible. A strip chart recorder was monitored between calibrations to check lane gains or losses. Strip charts from this survey are included with Survey H-9798 which was run concurrently.

Η. SHORELINE

There was no shoreline delineated on this survey.

CROSSLINES

Crosslines constituted 8.9% of mainscheme hydrography. Crossline agreement was very good, 0 to 1 foot.

J. JUNCTIONS

This survey junctions with the following surveys:

- 1. H-9803 to the east.
- 2. H-9798 to the south.
- 3. H-6687 to the west.

Junction with these contemporary surveys was excellent within 0-1 feet. Survey H-6687 is considered a prior survey and is discussed below.

K. COMPARISON WITH PRIOR SURVEYS

This survey was previously covered by the following surveys:

- 1. H-6687 (1941)
- 2. H-5033 (1930)
- 3. H-4604 (1926-27)
- 4. H-5115 (1930-31)

Comparison with these surveys is at best fair. Position discrepancies of 200-300 meters probably results from the use of survey buoys on these old surveys. The position discrepancies are apparent in areas of rough bottom.

L. COMPARISON WITH CHART

1. General.

This survey is covered by the following charts:

- 1. Chart 11382, edition 23, 11-19-77.
- 2. Chart 11360, edition 22, 4-22-78.

Agreement with the chart is good with differences generally 2 feet or less except where noted below.

2. Pre-survey Review Items.

There were no pre-survey review items on this survey.

3. Miscellaneous Developments:

The following developments were run for various reasons:

Development #1√

Latitude 30°20.60', Longitude 86°47.9'

This is the center of an isolated shoal with depths to 64 feet outside the 11 fathom curve. 100 meter spacing was run. Nothing shoaler was found.

Recommendation: Chart the seaward 64 foot sounding.

Development #2/

Latitude 30°20.1%, Longitude 86°47.8

This is the shoalest point, 63 feet, on an isolated 11 fathom shoal. 100 meter spacing was run. Nothing shoaler was found. This development abuts development #15 on an adjacent field plotter sheet. Development # 15 displays shoaler soundings.

Recommendation: See Development #15 below. Vconcur

Development #3√

Latitude 30°20.80', Longitude 86°49.62'

A charted 62 foot sounding which originated from H-5115 is shown at this position. Surveyed depths showed 65-66 feet. 100 meter spacing was run. Least depth found was 64 feet 0.1 miles southwest of the charted sounding. Concert 63ft is high point of this rise.

Recommendation: Chart soundings from the present survey.

Development #4

Latitude 30°20.65' Longitude 86°51.50'

This is the center of a detached ll fathom shoal with depths to 64 feet. 100 meter spacing was run. Least depth found was 63 feet.

Recommendation: Chart the seaward 63 foot sounding survey.

Development #5

Latitude 30°21.00 Longitude 86°54.30 Longitude 86°5

This is the center of a detached 10 fathom shoal.

100 meter spacing was run. Nothing shoaler was found. comment

Smooth Recommendation: Chart the shoal as shown on the field sheet.

Development #6

Latitude 30°20.65' Longitude 86°55.15'

A charted 59 foot sounding which originates from H-4604 is shown at this position. Surveyed depths showed 61 feet. 100 meter spacing was run. Least depth found was 60 feet. Comments

Recommendation: Chart the shoal as shown on the field sheet.

Development #7√

Latitude 30^o22.63' Longitude 86^o48.68'

A spike was found at this location between positions 26 and 27. Twenty five meter spacing was run. Fish were found on the trace in the same vicinity.

Recommendations: Disregard. concur

Development #8 ✓ ✓

Latitude 30°23.05' Longitude 86°47.02'

A spike was found at this location between positions 91 and 92. 25 meter spacing was run. Nothing was found.

Recommendation: Disregard. cencur

Development #9

Latitude 30°19.85' Longitude 86°54.80'

A shoal with depths to 62 feet was found at this location. 100 meter spacing was run. Nothing shoaler was found. Concer

Recommendation: Chart the 61 foot sounding.

Development #10

Latitude 30°19.25' Longitude 86°54.15'

An isolated 66 foot shoal was found at this location. 100 meter spacing was run. A least depth of 65 feet was found at the above position.

Recommendation: Chart the 45 foot sounding.

Development #11

Latitude 30°18.65' Longitude 86°53.70'

An isolated 12 fathom shoal with depths to 71 feet was found at this location. The area was split to 100 meters. Nothing shoaler was found.

Recommendation: Chart soundings from present survey. concur

Development #12

Latitude 30^O19.50' Longitude 86^O53.30'

An isolated 11 fathom shoal was found in this location. 100 meter spacing was run. Least depth found was 656feet. Comm

Recommendation: Chart the seaward 656foot sounding.

Development #13

Latitude $30^{\circ}19.23'$ Longitude $86^{\circ}49.52 \checkmark$

A 62 foot sounding, the shallow point on an isolated 11 fathom shoal was found at this location. 100 meter spacing was run. Nothing shoaler was found. A 62 foot charted sounding is shown 0.3 miles east of the surveyed soundings. Concern

Recommendation: Chart the 62 foot soundings from this survey.

Development #14

Latitude 30°19.76' Longitude 86°49.18'

This is another shallow area on the 11 fathom shoal listed above. 100 meter spacing was run. A least depth of 63 feet was found.

Recommendation: Chart the 63 foot sounding.

Development #15 /

Latitude 30°19.60' Longitude 86°47.68'

A shoal with depths to 61 feet was found at this location. 100 meter spacing was run. Nothing shoaler was found. Lencon

Recommendation: Chart the seaward 61 foot sounding.

Development #16 /

Latitude 30°17.96' Longitude 86°47.75'

A 75 foot sounding from H-5115 is shown at this location. 100 meter spacing was run. Least depth determined was 78 feet. A comparison of the hydro line on H-5115 shows that none of the soundings on the line match up with this survey. In addition the prior survey sounding from H-6087 which lies 0.11 miles southeast appears to have been transferred from H-5115 to H-6087. The verifier should plot both prior survey lines. Comme

Recommendation: Disregard the prior surveys. Chart soundings from this survey as required. the present survey.

Development #17 √

Latitude 30°18.35' Longitude 86°50.75'

This is a shallow area on a large detached 11 fathom shoal. 100 meter spacing was run. Least depth found was of feet. Com

Recommendation: Chart the 61 foot sounding at the above position. as shown on the present survey.

Development #18√

Latitude 30^o17.80' Longitude 86^o51.68'

This is another shallow area on the shoal mentioned in Development #17. 100 meter spacing was run. Least depth found was 62 feet. Com, seaward

Recommendation: Chart the 62 foot sounding.

Development #19 6

Latitude 30°17.59' Longitude 86°51.14'

This is another shallow area on the shoal mentioned in Development #17. 100 meter spacing was run. Least depth found was 62 feet.

Recommendation: Chart the 62 foot sounding.

Development #20 /

Latitude 30°17.00' Longitude 86°52.20'

Vaps

This is an isolated 66 foot shoal. 100 meter spacing was run. Least depth found was 66 feet.

Recommendation: Chart any of the 66 foot soundings on the shoal.cencur

Development #21

Latitude 30°16.75' Longitude 86°53.00'

This is the shallowest point on an isolated 12 fathom shoal. 100 meter spacing was run. Least depth found was 71 feet. Concern

Recommendation: Chart the 71 foot shounding.

Development #22

Latitude 30°16.22' Longitude 86°53.50'

Depths of 69 feet in surrounding water of 72-73 feet were found in this area. 100 meter spacing was run. Least depths found was 68 feet.

Recommendation: Chart the 68 foot sounding.

Development #23

Latitude 30°15.20' Longitude 80°53.30'

Two isolated twelve fathom shoals were found in this area. 100 meter spacing was run. Least depths of 70 of 71 feet were found on both shoals. Comment as shown on the present survey

Recommendation: Chart the seaward 71 foot sounding.

Development #24

Latitude 30°15.15' Longitude 86°51.50'

This is the shoalest point on a detached 12 fathom shoal. 100 meter spacing was run. Least depth found was 66 feet. Career

Recommendation: Chart the 66 foot sounding.

Development #25

Latitude 30^O15.50' Longitude 86^O52.70'

A detached 11 fathom shoal was found at this location. 100 meter, spacing was run. Least depth found was 65 feet. Comen V

Recommendation: Chart the 65 foot sounding.

Development #26

Latitude 30°17.15' Longitude 86°81.30'

A charted 70 foot sounding and prior 69 foot sounding from H-5115 are shown in this vicinity. 100 meter spacing was run. Least depth found was 71√feet. Concer-

Recommendation: Chart soundings from this survey. concur

Development #27 /

Latitude 30^o15.80' Longitude 86^o50.65'

An isolated ll fathom shoal was found at this location. 100 meter spacing was run. Least depth found was 65 feet V Cerem

Recommendation: Chart the 65 foot sounding. concur

Development #28

Latitude 30°15.70' Longitude 86°49.36'

A prior survey sounding of 68 feet from H-5115 is shown at this position. 100 meter spacing was run. Least depth found was 69 feet. Concerv

Shoaler soundings exist east Recommendation: of the area and they are more significant. This 69 foot depth need not be charted Development #29 L

Latitude 30°15.70' Longitude 86°48.03'

This the southeast end of a detached 12 fathom 100 meter spacing was run. Least depth found was 69 feet. Concer-

Recommendation: Chart the 69 foot sounding.

Development #30 /

Latitude 30^O16.25' Longitude 86^O48.40'

JAPS

This is the northwest end of the shoal mentioned in Development #29. 100 meter spacing was run. Least depth found was 70 feet. Corcum

Recommendation: Chart the 70 foot sounding.

Development #31

Latitude 30°20.06' Longitude 86°49.11'

An isolated 60 foot soundings was found at this location. 100 meter spacing was run. Nothing shoaler was found.

Two Recommendation: Chart the 60 foot sounding.

A 63 foot soundings exists .25 miles south (See Development #14). 67 ft sdqs. are part of the Shoal with least depths of 63 ft.

Development #32 /

Latitude 30^O20.06' Longitude 86^O52.15'

An isolated 66 foot soundings was found at this location. 100 meter spacing was run. Nothing shoaler was found.

Recommendation: Chart the foot sounding.

Development #33 /

Latitude 30°20.06' Longitude 86°53.28'

This was originally thought to be an isolated ll fathom shoal with depths to 640 feet. 100 meter spacing was run. The shoal was found to be connected to the area within ll the fathom curve.

Recommendation: Chart the 64 foot sounding.

Development #34 √

Latitude 30°20.10' Longitude 86°55.30'
Disregard. \(Small rise here to 66 ft depths

Development #35

Latitude 30^O15.20' Longitude 86^O55.70'

17PS

A detached 12 fathom shoal was found at this location. 100 meter spacing was run. Least depth; found was 70 feet.

Recommendation: Chart the seaward 70 foot sounding.

Latitude 30°14.75' Longitude 86°54.40',86°54.60'

Two 69 foot soundings on an isolated 12 fathom shoal were found at this location. 100 meter spacing was run. Nothing shoaler was found. concur

Recommendation: Chart either of the 69 foot soundings (See Development #41).

Development #37 1/2

Latitude 30°16.40' Longitude 86°47.18'

This is a detached 12 fathom shoal. 100 meter spacing was run. Least depth found was 67 feet. Concur

Recommendation: Chart the 67 foot soundings

Development #38

Latitude 30^O17.95' Longitude 86^O48.70'

This is the end of a 12 fathom finger off the main depth curve. 100 meter spacing was run. Least depth found was 70 feet. concern

Recommendation: Chart the 70-foot sounding.

Latitude 30^O19.23' Longitude 86^O48.87'

An isolated 66 foot sounding was found at this location. 100 meter spacing was run. Nothing shoaler was found. Comme

Recommendation: Chart shoaler soundings which lie just west of the area. (62 ft 3dqs-west)

Development #40

Latitude 30^O18.40' Longitude 86^O52.45'

1/2/5

Numerous 71 and 72 foot soundings with surrounding depths of 75 to 854 feet were found in this area. 100 meter spacing was run. Nothing shoaler was found. Comment

Recommendation: Chart the seaward 71 foot soundings

Development #41

Latitude 30°14.50' Longitude 86°54.30'

This is a continuation of Development #36. least depths of 69 feet were found.

Recommendation: Chart the seaward 69 foot sounding

Development #42

Latitude 30^o14.23' Longitude 86^o51.63'

An isolated 72 foot sounding was found at this position. 100 meter spacing was run. Nothing shoaler was found. Genem /

Recommendation: Chart the 72 foot shoal.

Development #43

Latitude 30°14.40' Longitude 86°49.30'

sdq, An isolated 72 foot shoal was found at this location. 100 meter spacing was run. Nothing shoaler was found. Recommendation: Chart the seaward 72 foot soundings.

Μ. ADEQUACY OF SURVEY.

This survey is adequate to supersede prior surveys

for charting. Roman /

N. AIDS TO NAVIGATION.

There are no aids to navigation within the survey area.

O. STATISTICS

Number of positions	2499
Nautical miles of sounding line	1010.3
Nautical miles of crossline	90.1
Nautical miles of development	47.3
Total miles of hydrography	1147.7

16.

Number	of	bottom samples	92
Number	of	barchecks	14
Number	of	TDC casts	5

P. MISCELLANEOUS

1. Lines were run parallel to shore to better intersect the contours. They don't intersect contours, they are parallel to the 30 ft, depth curve.

2. The significant item on this survey is the extremely irregular bottom seaward of the 10 fathom curve.

Q. RECOMMENDATIONS

The 15 fathom curve has been deleted on Chart 11382. It is recommended that it be replaced.

R. AUTOMATED DATA PROCESSING

The following computer programs were used in processing data for this survey.

Pro	ogram	Program Name	Version Date
RK	111	R/R Real Time Plot	1-30-76
RK	211	R/R Non-Real Time Plot	4-18-75
RD	201	Grid, Signal and Lattice Plot	9-23-77
RK	300	Utility Computations	2-10-76
PM	360	Electronic Corrector Abstract	2-02-76
AM	500	Predicted Tide Generator	11-10-72
AM	602	Elinore	5-21-75
	530	Velocity Corrections Computations	5-10-76
RK	561	H/R Geodetic Calibration	2-19-75

S. REFERENCE TO REPORTS

Horizontal Control Report OPR-J217; AMC-HSB-HFP1-OCT 1978.

Respectfully submitted,

Michael F. Kolesar, LCDR, NOAA

Officer-in-Charge, NOAA Launch 1257

NOAA FORM 76-155 (11-72) NA	TIONAL	OCEANIC			ENT OF CO			RYEY N	UMBER	
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Santa Rosa Island	·									1
Lower Pritchard Long P	.									2
Upper Pritchard Long P	•									3
Wynne Haven Beach										4
FLORIDA										5
NAVARRE BEACH (+	opo) ame)									6
GULF OF MEXICO										7
										8
										9
										10
										11
										12
										13
										14
										15
					Appro	ved				16
										17
					6/	ns.	o. Ha	MM		18
					Chief	Geogra	pher~	C3×5		19
					24	Sept.	1980			20
						7				21
										22
										23
										24
·				(23.)						25

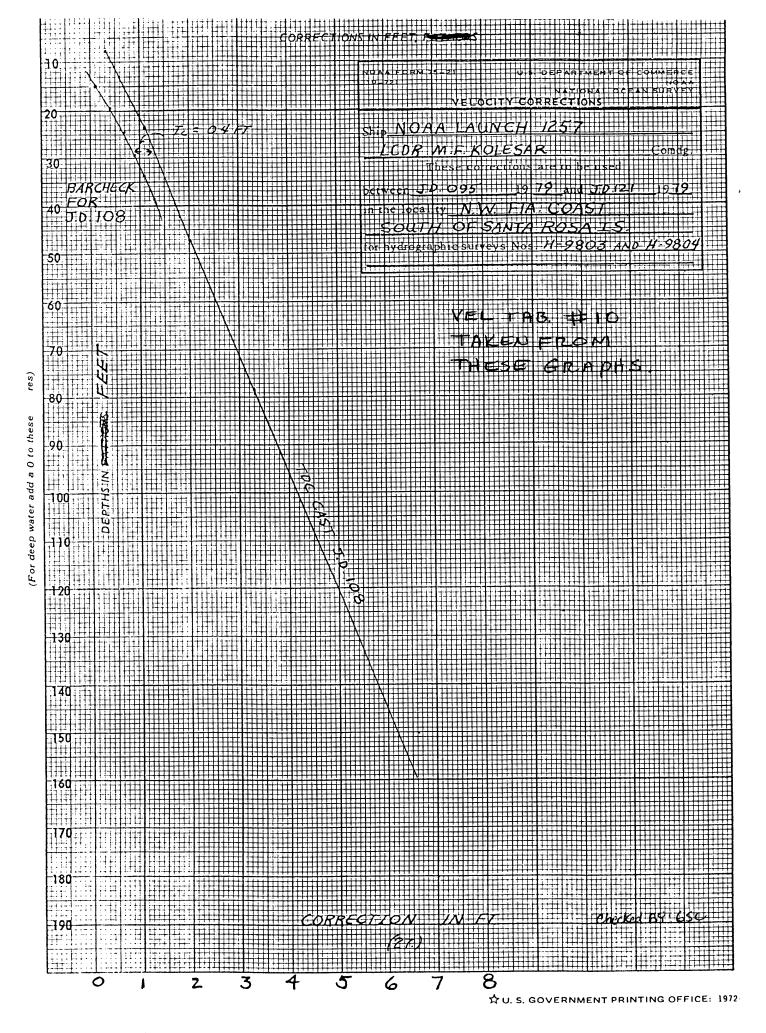
ABSTRACT OF BARCHECKS

JULIAN						DEPTH				
DAY	10	15	20	25	30	35	40	45	50	
346		• 4	•5	• 6	•8	• 9	1.1		-	
015			. 2	• 5	• 6	.8	• 9			
017			.1	• 6	.7 、	. •7	. 9			#9
0 2 9		.3	• 4	• 5	• 7	•7	•7			·
032		• 2	• 3	• 4	• 6	•6	•6			
044		• 1	•3	. •4	. 6	• 7	• 9			
058		.3	.5	.6	.6	.7	9			_
AVG.		•3	•3	• 5	.6	•7	•8			_
108	, .	.1	• 4	• 7	. 9	1.1	1.3			#10
*									•	•
125		2	/.	7	• 9	1.0	1 /			
135 169		•2 •3	• 4 • 4	•7	.9	1.0	1.4			
		.3		•6		1.1	1.2			
$\frac{191}{\text{AVG.}}$		•3	•4	.7	• 9	$\frac{1.3}{1.1}$	1.3			#11
A,VG.		• 3	• 4	• /	• 9	1.4.7	1.3			71 11
				•						
21 9		• 4	•8	.8	1.1	1.4	1.6			
221		•4	. 9	1.1	1.4	1.7	1.7			
226		• 6	• 7	1.0	1.3	1.5	1.5			
234_		.8	8	1.1	1.2	1.4	1.7		_	
AVG.		• 5	•8	1.0	1.2	1.5	1.6			#12

VELOCITY TABLE #9 VESNO 1257 OPR-J217-HFP-78 HSB 20-1-79 H-9804

```
000100 0 0002 0009 125700 009804
000150 0 0004
000208 0 0006
000268 0 0008
000325 0 0010
000383 0 0012
000442 0 0014
000500 0 0016
000559 0 0018
000616 0 0020
000675 0 0022
000733 0 0024
000792 0 0026
000850 0 0028
000910 0 0030
000968 0 0032
001025 0 0034
001083 0 0036
001140 0 0038
001198 Ø 0040
001258 0 0042
001316 0 0044
ØØ1372 Ø ØØ46
999999 Ø ØØ48
```

26.



VELOCITY TABLE #10 VESNO 1257 OPR-J217-HFP-78 HSB-20-1-79 H- 9804

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000112 0 0004 0010 125700 009804
000158 0 0006
000205 0 0008
000251 0 0010
000300 0 0012
000348 0 0014
000395 Ø 0016
000445 0 0018
000493 0 0020
000542 0 0022
000593 0 0024
000643 0 0026
000692 0 0028
000740 0 0030
000790 0 0032
000840 0 0034
000890 0 0036
000940 0 0038
000990 0 0040
001040 0 0042
001090 0 0044
001140 0 0046
001190 Ø 0048
001240 0 0050
001290 0 0052
001340 0 0054
999999 Ø ØØ56
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VELOCITY TABLE #11 VESNO 1257 OPR-J217-HFP-78 HSB 20-1-79 H-9804

```
000168 0 0008 0011 125700 009804
000204 0 0010
000240 0 0012
000278 0 0014
000316 0 0016
000353 0 0018
000392 0 0020
000430 0 0022
000470 0 0024
000508 0 0026
000543 0 0028
000581 0 0030
000620 0 0032
000658 0 0034
ØØØ697 Ø ØØ36
000736 0 0038
000774 0 0040
000818 0 0042
000857 0 0044
000897 0 0046
000937 0 0048
000975 0 0050
001014 0 0052
ØØ1Ø65 Ø ØØ54
001095 0 0056
ØØ1133 Ø ØØ58
001174 0 0060
001201 0 0062
001260 0 0064
001300 0 0066
001340 0 0068
001380 0 0070
001420 0 0072
999999 Ø ØØ74
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VELOCITY TABLE #12 VESNO 1257 OPR-J217-HFρ-78 HSB 20-1-79 H-9804

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SIGNAL LIST

OPR J217-HFP-78 HSB 20-1-79 H-9804

029	7	30 22	38576	Ø86 1	8 29107	139	0000	000000	CENTEL MICRO TWR **
Ø31	7	30 23	31999	Ø86 2	8 48224	139	0000	000000	DESTIN E. TANK **
032	7	30 23	41160	Ø8 6 2	9 44045	139,	0000	000000	DESTIN W. TANK **
Ø33	7	30 23	28583	Ø86 3	3 27274	139	0000	000000	MICRO TWR SITE A-3 **
Ø34	7	30 23	48543	Ø86 3	5 23047	139	0000	000000	OKALOOSA CTY TANK **
Ø35	7	30 24	20602	Ø86 3	36 39361	139	0000	000000	FT. WALTON S. TANK X
Ø36	7	3Ø 25	09067	Ø86 3	36 42369	139	0000	000000	FT WALTON N. TANK *
31	7	29 40	29369	Ø85 2	21 47113	25Ø	0000	330640	CAPE SAN BLAS RAYD **
922	7	3Ø 19	15519	Ø8 7 1	3 24119	250	0000	330640	PEN SACOLA BCH RAYD ***
903	7	30 23	03963	Ø86 2	26 50475	250	0000	330640	CLAUSEN RM 3 RAYD * 555
904	7	29 40	29369	Ø85 2	21 47113	250	0000	330649	CAPE SAN BLAS RAYD **
905	7	30 23	03963	Ø86 2	26 50475	250	0000	330 649	CLAUSEN RM 3 RAYD * 1955

^{*} NGS published

^{**} HFP-1

^{***} Tibbetts

APPROVAL SHEET SURVEY H-9804 (HSB-20-1-79)

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

Direct daily supervision was not given by me during the field work.

Approved and fowarded,

Thomas W. Richards

Lt. Cdr., NOAA

Chief, Hydrographic Surveys Branch

November 6, 1979

U.S. DEPARIMENT 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): 872-9678 Navarre Beach, FL

Period: February 1 - August 8, 1979

HYDROGRAPHIC SHEET: H-9804

OPR: J217

Locality: West Coast of Florida

(Gulf Coast Low Water Datum): 25.57 ft. Plane of reference (near 1000 control control

Height of Mean High Water above Plane of Reference is 1.4 ft.

REMARKS: Zone direct.

Thief, Datums and Information Branch

APPROVAL SHEET FOR SURVEY H- 9804

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

Date: 8/14/80

Signed:

Title: Chief, Verification Branch

TOTALS 3 239 242 Sharon Kelley Ending Date
01/22/80
Ending Date 84722780 ver Kerney, F. Laminson, Beginning Date 03/15/80 08/01/80 Verlication Check by Harry R. Smith Time (Hours) Date 08/05/80 8 Marine Center Inspection by
Hydrographic Inspection Team (AMC) Time (Hours) O8/80/80 Quality Control Inspection by Time (Hours) P. SAULSBUR. 9/23/80 Requirements Evaluation by 12/18/80

REGISTRY NO. H-9804

The Computer and 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.

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:		
••		
•		
		nga
	REGISTRY NO.	
The magnetic tarbeen corrected tand review.	e containing the data for the changes manages of the changes of th	or this survey has not hade during evaluation
When the magnetine results of the s	c tape has been updated urvey, the following sh	to reflect the final hall be completed:
	MAGNETIC TAPE CORRECT	TED
DATE	TIME REQUIRED	INITIALS
REMARKS:	•	

ATLANTIC MARINE CENTER VERIFIER'S REPORT

REGISTRY NO. H-9804

FIELD NO. HSB-20-1-79

Florida, Gulf of Mexico, Offshore of Santa Rosa Island

SURVEYED: Feburary I, 1979 through August 8, 1979

<u>SCALE:</u> 1:20,000 <u>PROJECT NO.</u> OPR-J217

SOUNDINGS: Raytheon DE-723D CONTROL: Raydist. (Rangl/Range)

Chief of Party T. W. Richards

Surveyed by M.F. Kolesar

G. Hendrix

G. Lloyd

G. Merrill

Automated Plot by Xynetics 1201 Plotter (AMC)

Verified and Inked by D.V. Mason

Date August 4, 1980

INTRODUCTION

During verification of this survey no unusual problems were encounted. All red notes in the Descriptive Report were made by the Verifier.

2. CONTROL AND SHORELINE

The source of control is adequately described under sections F, and G, of the \swarrow Descriptive Report.

b. There is no contemporary shoreline in the survey area. V S.L. was added during Q.C.I. from TP-00549&TP-00550 (1978-79) 7P5

3. <u>HYDROGRAPHY</u>

- a. Depth curves at crossings are in good agreement. $\sqrt{}$
- b. The standard depth curves were adequately delineated, with the inclusion of the 90 foot brown curve to better help delineate the bottom configuration. Also, the brown curve was used to show the irregular nature of the bottom in numerous areas between the 60 and 90 foot contours on this survey.
- c. The development of the bottom configuration and the investigation of least depths are considered adequate. \checkmark

4. CONDITION OF SURVEY

The smooth sheet and accompanying overlays hydrographic records and reports are adequate and conform to the requirements of the hydrographic manual with the following exceptions:

a. Analog position records (sawtooth records) were not filed with the graphic depth records of this survey as prescribed under section 4.8.6 of the Hydrographic Manual. These records are filed with survey records for H-9798 (1978).

- b. The Descriptive Report was not signed by the hydrographer. 🗸
- c. Landmarks from seaward were not evaluated by the hydrographer. / Landmark form 76-40 was not furnished in the survey records. No elevations accompany landmarks.

 Landmarks were transferred from TP-00549-50 (1978-79)

 JUNCTIONS
 - a. Adequate junctions have been effected with the following surveys:

-79) H-9803 (1978) 1:20,000 to the east ✓ O.K. 7PS H-9798 (1978) 1:40,000 to the south ✓ O.K. 7PS

Changes on the above surveys will have to be made by Quality Control Changes were accomplished Branch, C352, since the above mentioned surveys have been verified and mailed to during Q.C. I. Rockville. The 69-foot brown curve on H-9803 is not need, and should be deleted. adequate.

6. COMPARISON WITH PRIOR SURVEYS

5.

H-1309 1875-76 1:40,000 H-4604 1926-27 1:40,000 H-5033 1930 1:20,000 H-5115 1930-31 1:40,000 H-6687 1941 1:40,000

The above prior surveys taken together cover the area of the present survey. A comparison between the present and prior surveys reveals that the present survey is from 10 feet shoaler to 10 feet deeper with \P differences generally, +3 feet. These depth differences are attributed to natural changes in the bottom

configuration and less detailed and less accurate methods employed on the prior \checkmark surveys.

The present survey is adequate to supersede the prior surveys within the / common area. This does not include the area inshore of this survey.

7. COMPARISON WITH CHART #II388 (23rd) Edition November 19, 1977

a. HYDROGRAPHY

The charted hydrography originates with the previously discussed prior surveys which require no further consideration.

Attention is directed to the following:

- 1) Numerous developments were run to prove the existance of shoal to acquire least depths over rises soundings, these developments are adequately described under Section L of the Descriptive Report.
- 2) The hydrographer recommends the delineation of the 90-foot brown curve on chart 11382. The delineation of this curve should be left up to the chart complier. Q.C. concurs with the hydrographer's recommendation

The present survey is adequate to supesede the charted hydrography. Concur

b. Aids To Navigation

There are no aids to navigation within the limits of the present survey area. /

8. COMPLIANCE WITH INSTRUCTIONS

This survey adequately complies with the Project Instructions.

Project Instructions requested development inshare to
12 ft. depths. Survey was developed inshare to 19 to 29ft. depths
9. ADDITIONAL FIELD WORK

This is an excellent basic survey and no additional work is recommended at this time. Concur

INSPECTION REPORT H-9804

The completed survey has been inspected by the Hydrographic Inspection Team with regard to survey coverage, cartographic symbolization, and verification or disproval of charted data. The Verification Report has presented the facts accurately and properly, the procedures used were appropriate, and the recommendations are logical and justifiable. The survey records comply with NOS requirements except where noted in the Verification Report. The Hydrographic Inspection Team concurs with the verifier's findings, actions, and recommendations.

Examined and Approved Hydrographic Inspection Team DATE: August 8, 1980

Karl Wm. Kieninger, CDR, NOAA Chief, Processing Division

R. D. Sanocki

Technical Assistant, Processing Division

Maureen R. Kenny, LT, NOAA Chief, Electronic Data Processing Branch

Robert G. Roberson

Team Leader

Verification Branch

Approved/Forwarded

RX Hould

Richard H. Houlder, RADM, NOAA Director, Atlantic Marine Center



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

OA/C352:FPS

September 23, 1980

TO:

Glen R. Schaefer

Chief, Hydrographic Surveys Division

THRU:

Chief, Quality Control Branch Inc.

FROM:

Quality Evaluator

SUBJECT:

Quality Control Report for H-9804 (1979), Florida, Gulf of Mexico,

Offshore of Santa Rosa Island

A quality control inspection of H-9804 was accomplished to monitor the survey for adequacy with respect to data acquisition, delineation of the bottom, determination of least depths, navigational hazards, junctions, sounding line crossings, shoreline transfer, smooth plotting, decisions and actions taken by the verifier, and the cartographic presentation of data. In general, it was found to conform to the National Ocean Survey's standards and requirements except as stated in the Descriptive Report.

cc: OA/C351





UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL OCEAN SURVEY

Rockville, Md. 20852

DEC 30 1980

· 0A/C351:SR

T0:

OA/CAM - Bichard H. Houlder

FROM:

SUBJECT: H-9804 (1979), OPR-J217-HFP-78, Florida, Gulf of Mexico, Offshore of

Santa Rosa Island, Report of Compliance with Project Instructions

The smooth sheet and Descriptive Report for the subject survey have been examined. This survey, except as noted in the Quality Control Report, dated September 23, 1980 (copy attached), is complete and adequate for the purposes intended and is in compliance with Project Instructions OPR-J217-HFP-78, dated September 9, 1977.

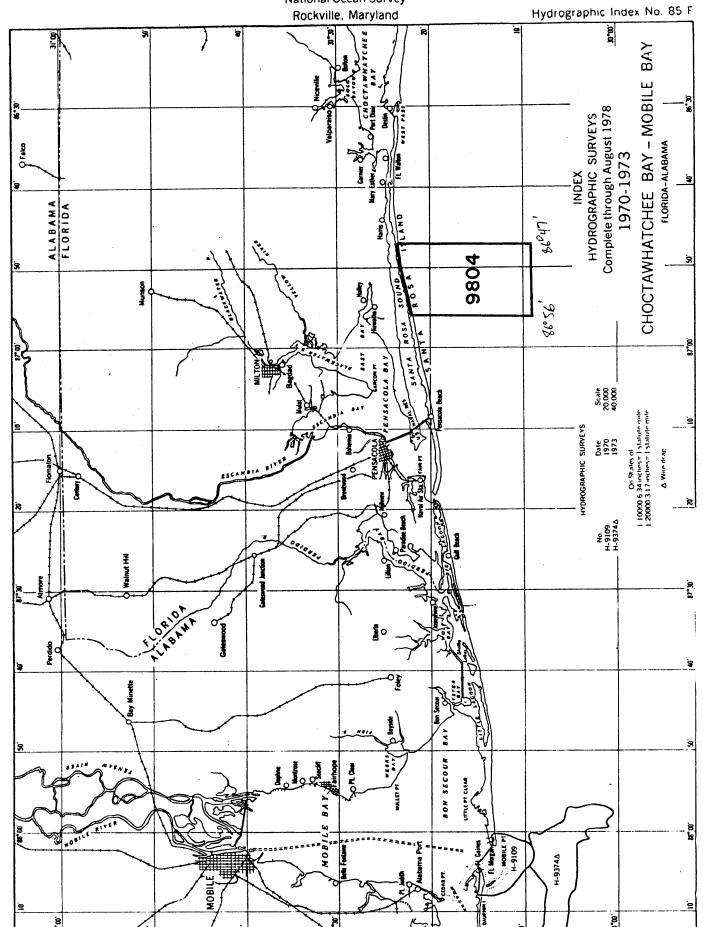
Attachment

cc: OA/C352 w/o att.



DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration

National Ocean Survey



NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO	9804
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INSTRUCTIONS

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

1. Letter all information.

In "Remarks" column cross out words that do not apply.
 Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Reviews.

CHART	DATE	CARTOGRAPHER	REMARKS
11382	2-23-8/	Q.Williams	Full Part Before After Verification Review Inspection Signed Via
		344	Drawing No. 35
1/360	3-10-81	O. Williams	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. 39
11006	3-23-81	O.W.Illiams	Full Part Before After Verification Review Inspection Signed Via
		D	Drawing No. 3/
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
		:	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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