9351

Diag. Cht. No. 1114 & 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-20-1-73

Office No. H-9351

LOCALITY

State .... Florida

General Locality .... Northwest Coast

Locality ... Indian Rocks Beach, Florida

1973

CHIEF OF PARTY
Fidel T. Smith, Lt. Cdr., NOAA

LIBRARY & ARCHIVES

DATE .... March 11, 1977

☆U.S. GOVERNMENT PRINTING OFFICE: 1974-763-098

9351

Area A
Chart -1257
-1114

FORM 77-28 (2)

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

HYDROGRAPHIC TITLE SHEET

REGISTER NO.: H-9351

FIELD NO.: HSL-20-1-73

INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

State: Florida

General locality: Northwest Coast

Locality: Indian Rocks Beach Florida

Scale: 1:20,000 Date of survey: 01/31/73 - 04/09/73

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

Vessel: NOAA Launch 1257

Chief of party: F.T. Smith, LCDR, NOAA

Surveyed by: F.T. Smith, W. Adams, F. Saunders, & D. Mason

Soundings taken by echo sounder, ~~hand lead, pole~~: Raytheon DE-723D

Graphic record scaled by: Digitizer

Graphic record checked by: Launch Personnel

Protracted by: Hydroplot Automated plot by: Calcomp 618 AMC-EDP

Verification by: Charles Meekins

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

REMARKS: Raydist DRS used for position, Hydroplot survey equipment used for logging and plotting.

Changed to category I survey

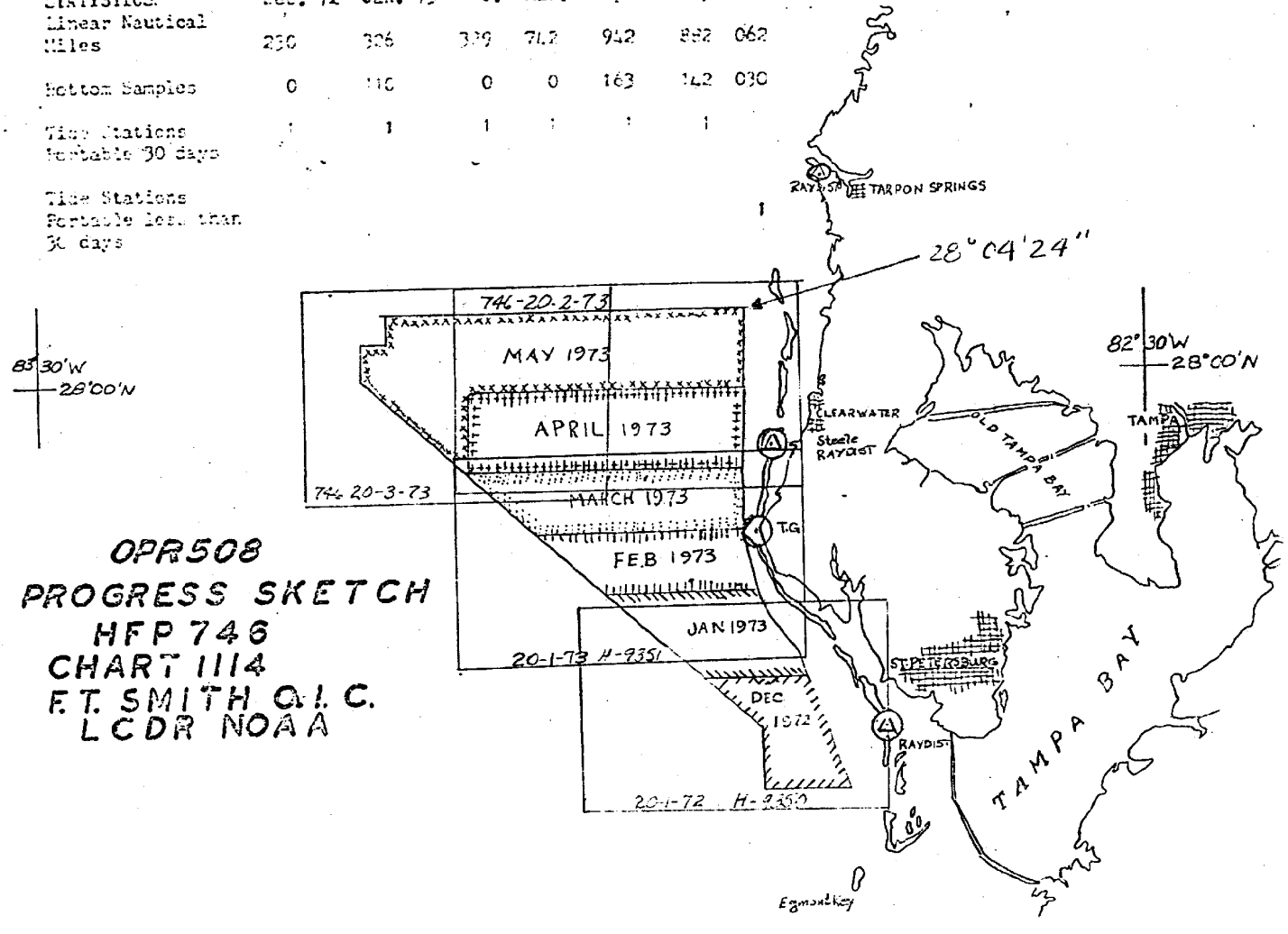
applied to stds 3-16-77

NOAA FORM 77-28 SUPERSEDES FORM C&GS-537.

☆ U.S. GPO: 1974-0-768-081/1207

INDEX

STATISTICS.	Dec. 72	Jan. 73	Feb.	Mar.	April	May	June
Linear Nautical Miles	230	306	339	742	942	882	062
Bottom Samples	0	110	0	0	163	142	030
Tide Stations Portable 30 days	1	1	1	1	1	1	
Tide Stations Portable less than 30 days							



OPR508
PROGRESS SKETCH
HFP 746
CHART 1114
F.T. SMITH O.I.C.
LCDR NOAA

DESCRIPTIVE REPORT

FOR

HYDROGRAPHIC SURVEY H-9351

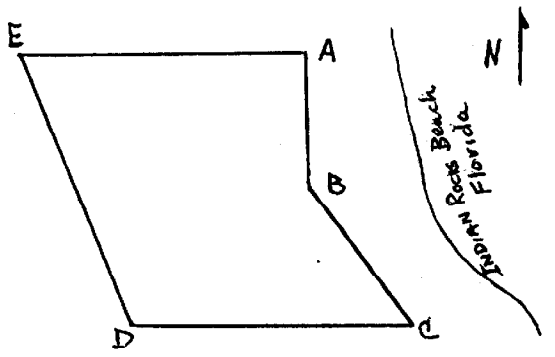
HSL-20-1-73

A. Project

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

B. Area Surveyed

This survey covers an area offshore of Indian Rocks Beach, Florida. The area lies from 2 miles to 11 miles offshore. The preceding page shows the boatsheet layout. The following sketch and coordinates give the limits of hydrography:



PT. A Lat. 27° 56' 00"
Long. 82° 52' 00"

PT. B Lat. 27° 51' 45"
Long. 82° 52' 00"

PT. C Lat. 27° 48' 00"
Long. 82° 50' 00"

PT. D Lat. 27° 48' 00"
Long. 82° 57' 30"

PT. E Lat. 27° 56' 00"
Long. 83° 06' 00"

Project Instructions state that this survey should junction with contemporary surveys. There was some doubt as to what the contemporary survey were and it was concluded that the surveys of 1950 were not contemporary surveys. The limits of the survey were taken to be the limits shown on the Project Instructions as the limits of Area I.

The project area I is the area bound by a 1950 survey. This survey junctions with the 1950 surveys even though it was considered a prior survey by the field party.

C. Sounding Vessel

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

D. Sounding Equipment

Two Raytheon DE 723Ds were used as sounding units. Both recorders were model number 723-40. One had serial number 1704 and the other was serial number 37024. Also used with the above units was a Tracor Precision Frequency - Square Wave - Power Module for AC power to the fathometers and the computer real time clock. The ECU on the fathometer was a model 723-42 with the serial number 1910.

Soundings were taken from 10 to 58 feet.

Echo sounding corrections were determined by bar check and temperature/salinity readings. See the Report on Corrections to Echo Soundings OPR-508-1972-1973.

E. Smooth Sheet

The smooth sheet will be plotted by the Processing Division at the Atlantic Marine Center in Norfolk, Virginia. Field records consisting of fathograms, strip chart for Raydist, hard copy printouts of on line logging, corrector tapes, master data tapes, TC/TI tapes, velocity table, etc. are being transferred to AMC with this report.

A "field smooth sheet" consisting of a composite plot of field data is being submitted with the original field sheets. The composite plots (complot) show the field data as corrected for final electronic correctors, scanning for peaks and deeps and predicted tides. The composite plot being submitted for this boatsheet consists of A and B plotter sheets and several overlays. Notes have been made on the plotter sheets as to errors noted.

Some additional notes for the processing personnel and cartographic technicians:

1. The inshore (east end) of the survey area was originally sounded at 190 meter intervals. These lines were split at a later date. Due to rough seas (2-4 foot) on one day there is some problem with getting contour agreement. The fathograms were rescanned but this failed to resolve the problem. Smooth tides(to adjust for storm tides) might resolve this difference. The bottom is flat and one foot of difference shifts the contour a significant distance. The area referred to here is between latitude 27° 49.8' and 27° 51.1'.

2. The inshore area between latitude 27° 52.5' and 27° 53.7' was sounded on several different days. The last set of lines were splits to reduce line spacings to 95 meters. These lines were misplotted on the field "smooth sheet" due to the plotter pen not starting at the origin. Contouring of this area was examined on the field sheet.

3. The inshore area north of latitude 27° 52' was sounded and re-sounded at 95 meter intervals on several days.

The area was first sounded just using Raydist for control. In this area the Raydist signal from the southern station has passed over land and the relative signal strength of the two stations is near 5 to 1. There was warbling in the tones and some jitter in the dials on the inshore end.

Day 082 was run just using Raydist. It was decided to rerun the area using Raydist and 3 pt. sextant fixes. This procedure was used on several days on the inshore end of lines. Examination of the two sets of data showed the 3 pt. fixes to be less accurate than the Raydist. Days 082 and 089 were originally rejected. However they have been retained since they are necessary to completely cover the area. There is duplication of position numbers and there will be a congestion soundings in this area.

Pos'n. No's. revised during verification, See Notes page no. 8, this report.

Tapes for both the visual control and the Raydist control have been submitted. The visual control may be of interest to the verifier. It is recommended that the Raydist control be used for the final plot. Overlays of the visual data has been submitted.

Raydist Control was used for all of final Smooth Sheet.

Additional information on this can be found in the report on electronic control.

F. Control

Hastings Raydist electronic positioning equipment (DRS) used in a range-range mode was used for position on this survey. Shore sites were located by Mr. Jim Shea from NOS-AMC Operations Division. The stations were located at

Station	Latitude	Longitude
Steele Raydist	27° 56' 32.724"	82° 50' 13.464"
Ruscoe	27° 42' 28.830"	82° 44' 16.570"

Calibrations were by three point sextant fixes taken to signals on shore that were third order triangulation or traverse stations. See the Report on Corrections to Electronic Control on OPR 508 1972-1973. Attempts were made to calibrate offshore in the survey area. These calibrations proved to be misleading since the strength of the fixes were very poor.

In that portion of the survey where the Raydist signal passed over land and the ratio of signal strength was getting poor, sextant fixes were taken in conjunction with the Raydist. Several plots were made of both sets of data. The Raydist plot proved to be the better of the two. Both sets (range-range and visual) of records have been submitted for the day. It is recommended that the Raydist data be accepted as the final.

The Hastings Raydist DRS system was a model number ZA 673 with the serial number 67. It was tuned to 3296.495 kHz. This equipment was used in conjunction with the DEC PDP8I Hydroplot System.

G. Shoreline Also see attached letter from office of Marine Surveys & Maps, dated Feb. 5, '76.

There is no shoreline available for this boatsheet. The inshore area is to be surveyed at a later date by a different boat.

H. Crosslines

Crosslines were run to the extent of 10% of the regular sounding lines. Agreement was good. There were cases of disagreements of 2-3 feet. These disagreements were not uniform and are due to rough sea conditions.

I. Junctions

This survey junctions with H-9350 (1972) on the south and with H-9390 (1973) on the north. Both are contemporary surveys. The junctions are good and there are no holidays. The depths agree and there is no displacement of depth curves.

This survey junctions with prior survey H-7966 (1951) on the inshore end of the survey. Agreement is good with the maximum difference being 2 feet. Junction made on Smooth Sheet but Curves not made identical.

H-9351 ~~junctions with~~ overlaps prior survey H-7793 on the west. H-7793 was a 1:100,000 survey from 1950 using EPI. The junction is not a real good one. This is a relatively flat area and soundings disagree by as much as 4 feet. Approximately 80% of the compared junction soundings agree within 2 feet. This is not a junction - H-9351 covers part of same area as prior survey.

J. Comparison with Prior Surveys

No Comparison made with Smooth Sheet.

This survey was compared to the 1924-1927 surveys reg. no. 4580 and 4581. The 1973 survey has shoaler depths than the prior surveys. The controlling depths were up to 5 foot shoaler than the prior surveys indicated in the offshore area.

On the inshore areas the size of the shoals have increased and some have shifted. They are shoaler in some cases by 2-3 feet.

K. Comparison with Chart

A comparison was made with C&GS chart 1257. This chart area was compiled from prior surveys 4580 & 4581 which were surveyed in 1924-1927.

Most of the charted soundings were verified by identical soundings within a radius of 400m. There were some soundings which could not be verified.

1. The charted 16 foot sounding on a shoal at lat. 27° 54' 30". long. 82° 55' 16". A shoal exists in this area but the least depth was ~~17~~ 18 feet. Posn. no. 2631-2632 & 2817-2818 ... day no. 074 & 078
2. A 17 foot sounding was located at lat. 27° 54' 20" long. 82° 56' 36". This area is charted as 23 to 26 feet deep. Posn. no. 2476-2477 ... day no. 073
3. The pre survey review item (dashed circled sounding) of a 13 foot sounding at lat. 27° 51.35' long. 82° 54.1' was not found. The area was sounded at 100 m spacing. The shoal previously charted in this area has broken up and the area now ranges between 21 and ~~19~~ 14 feet. There is a 15 foot sounding about 200 m WNW. Posn. no. 1227-1228 & 3552 ... day no. 053 & 088
4. The pre survey review sounding of 22 feet at lat. 27° 48.5 and long. 82° 55.0 was verified. least depth 21 ft. ... posn. 3801-3818 ... day 089
5. The pre survey review sounding of 36 feet at lat. 27° 53.6' long. 83° 01.8' was verified. least depth 33 ft. ... posn. 2119-2120 ... day 072.
6. See bottom of page 7.

The inshore end of this survey (H-9351) shows changes in the charted 18 foot contour. The area is sand and there is some tidal action and extensive sand bars have shifted in some areas. The minimum depths observed were close to the previous charted minimum depths.

L. Adequacy of Survey

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

The area between latitude 27° 55' and 27° 56' and longitude 82° 52' and 82° 58' did not have any bottom samples.

M. Aids to Navigation Light list no. 117.50 - pp. 14 Volume no. II

There are no landmarks or fixed aids to navigation on this boatsheet. There is one floating aid and it is RN "20". It marks a 17 foot shoal at Lat. 27° 53.05' Long. 82° 56.0'. It was located as it is charted. Position no. ~~3819~~ 4425 on day 99 gives the location.

*6. The pre survey reivew item of a fish haven at 27° 55' 40" and 83° 00' 20" was not detected. Fathograms in the vicinity were examined and no indications of obstructions was found.

N. Statistics

1973 Day	Time GMT From	Time GMT To	Starting Position	Final Position	N.M. of Sdgn. Line	B.S.
031	1456	2147	1	319	98.5	
032	1632	1813	320	423	29.0	
043	1503	1647	424	480	16.0	
045	1605	1834	481	595		Rejected
046	1545	1957	596	820	66.4	
052	1454	1803	821	1006	53.1	
053	1449	1904	1007	1261	66.0	
054	1527	2040	1262	1500	67.0	
067	1715	2018	1501	1683	51.0	
068	1737	2142	1684	1885	66.0	
072	1318	2233	1886	2318	145.0	
073	1310	1915	2319	2562	76.1	
074	1424	1834	2563	2808	80.0	
078	1338	2026	2809	3203	122.0	
079	1607	1706	3204	3263	12.0	
082	1405	2008	3264	3502	68.1	
088	1441	1825	~~3203~~ 3509	~~3372~~ * 3678	46.4	
089	1335	2100	~~3373~~ 3674	~~3672~~ 3978	75.6	
092	1454	1954	~~3373~~ 3979	~~3699~~ ** 4305	74.6	
096	1335	2213	~~3700~~ 4306	~~3786~~ 4392		87
099	1837	2312	~~3787~~ 4393	~~3863~~ 4469	4.5	47
					1217.3	134

Added 306 to all positions for day 088 & 089
Added 606 to all positions for days 092, 096, & 099
These Changes were made during pre-verification to Correct duplicate posn. numbers.

Lineal n. miles of sounding lines	1217
Square n. miles of survey area	74
Total number of bottom samples	134
Tide Stations	1

* positions 3203-3502 on days 088 and 089 duplicate positions on day 082.

** positions 3373-3672 on day 092 duplicate positions on day 082 and day 089 and as such is a reduplication of positions 3373-3502.

O. Miscellaneous

This area has pleasure craft and small boat traffic. There is no deep draft ocean going traffic in the area.

Bottom samples are listed in the Form 275 accompanying the survey records.

P. Recommendations

None

Q. References to Reports

Reports not included with this report which have been submitted seperately include:

1. Report on Corrections to Echo Soundings OPR-508 1972-1973
2. Report on Corrections to Electronic Control OPR-508 1972-1973
3. Report on Horizontal Control OPR-508 1972-1973.

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
Lt. Cdr., NOAA
Chief, AHP

A P P E N D I X

CAM3-1
1/31/74

ATLANTIC MARINE CENTER

PROJECTION PARAMETERS

POLYCONIC OR MODIFIED TRANSVERSE MERCATOR

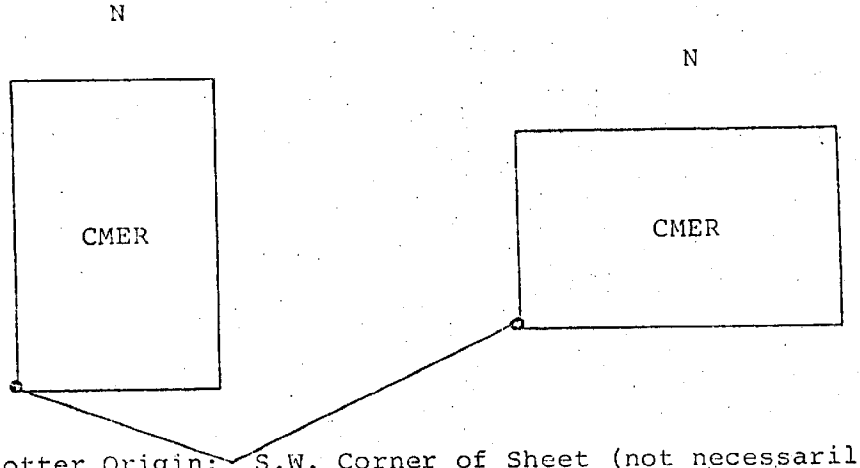
1. Project No. OPR-508
2. Reg. No. H-9351
3. Field No. HSL-20-1-73
4. Requested By Verification Branch (FLS)
5. Ship or Office AMC
6. Date Required ASAP

7. Polyconic [x] Modified Transverse Mercator [ ]
8. Central Meridian of Projection 82 ° 58 ' 00 "
9. Survey Scale: 1: 20,000
10. Size of Sheet (check one):

36 x 54 [ ] 36 x 60 [x] Other [ ] Specify _____

11. Sheet Orientation (check one):

NYX = 1 [ ] NYX = Ø [Ø]



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

Latitude 27 ° 47 ' 00 "
Longitude 83 ° 07 ' 15 "

13. G.P.'s of triangulation and/or signals attached [ ]
14. Material Desired: Tracing Paper [ ] Mylar [x]

Smooth Sheet [ ] Other [x] Specify Sounding Overlay.

15. Remarks: & Smooth Sheet

CAM3-2
2-22-71

ATLANTIC MARINE CENTER

ELECTRONIC CONTROL PARAMETERS

1. Project # OPR-508 2. Reg. # H-9351 3. Field # AHP-20-1-73

4. Type of Control: Raydist (Hi-Fix, Raydist, EPI, etc.)

5. Frequency 3296.495 (for conversion of electronic lanes to meters)

6. Mode of Operation (check one):

Range-Range ☒ Range-Visual ☐

Range One (R_1) Station I.D.	Steele Raydist	Lat.	27 ° 56 ' 32.724"
		Long.	82 ° 50 ' 13.464"
Range Two (R_2) Station I.D.	Ruscoe	Lat.	27 ° 42 ' 28.830"
		Long.	82 ° 44 ' 16.570"

Hyperbolic (3-station) ☐ Hyper-Visual ☐

Slave One Station I.D.		Lat.	° ' "
		Long.	° ' "
Master Station I.D.		Lat.	° ' "
		Long.	° ' "
Slave Two Station I.D.		Lat.	° ' "
		Long.	° ' "

7. Location of Survey:

Range-Range ☐ Imagine an observer is standing at R_1 Station and looking directly at R_2 (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.

☐ This form applies to part of the data on this survey.

Vessel EDP #	From Time	From Day	To Time	To Day	Position Numbers (inclusive)
1257	1450	031	2330	099	0001 to 3787
					to
					to

9. Remarks: _____

ABSTRACT OF CORRECTORS TO ELECTRONIC CONTROL

HSL 20-1-73 H-9351

Day	From	To	Pat I	Pat II
031	145629	214445	- 15	- 55
032	163247	181326	- 30	- 40
043	150344	164754	- 30	- 60
045	Rejected			
046	154506	195656	- 10	- 55
052	145436	155954	- 25	- 55
052	160004	180228	- 15	- 55
053	144956	190354	- 15	- 45
054	152721	155711	+ 10	- 110
054	171004	185955	+ 20	- 130
054	190005	203911	+ 30	- 140
067	171549	201729	- 10	- 25
068	173758	214256	+ 40	+ 20
072	131833	223300	+ 45	- 60
073	131026	170943	+ 45	- 760
073	174617	191457	+ 45	- 60
074	142445	183305	+ 55	+ 30
078	133832	194035	+ 40	+ 25
078	194146	202554	+ 40	- 375
079	160730	170536	+ 40	- 80
082	140554	200822	+ 50	+ 15
088	144107	182445	- 20	- 45
089	133538	172602	+ 00	- 35
089	190842	205950	+ 60	- 60
092	171624	195337	+ 45	+ 55
096	133543	165745	- 10	- 35
096	134710	181254	- 05	- 35
099	183736	231159	+ 35	- 50

SIGNAL NAME LISTING

100 EGMONT KEY LIGHTHOUSE (REAR RANGE) 1873

105 PINK HOTEL (DON CESAR'S)

107 SW CORNER, HAPPY DOLPHIN

108 PENTHOUSE, ELEV. SHAFT

110 CROSS ATOP ST. JOHN'S CATHOLIC CHURCH

111 BLIND PASS TANK

122 U S VETERANS HOSPITAL (NORTHWEST OF ST) PETERSBURG
SQUAT WHITE TANK 1934

133 MADEIRA BEACH TANK

135 LIGHT, 17408 GULF BLVD

144 BELLEAIR BEACH TANK

137 PUBLIC FISHING PIER(SOUTH)

139 PUBLIC FISHING PIER(NORTH)

155 BELLEAIR SILVER MUNICIPAL TANK 1926

156 CLEARWATER, BELLEVIEW HOTEL, WHITE BRICK STAC, 1925

166 CLEARWATER BEACH TANK

170 MANDALAY SHORES

171 MICRO WAVE TOWER

172 DUNEDIN MUNICIPAL TANK

173 TRIPOD(PINK)

180 TARPON SPRINGS MUN TANK(TAR 1929)

190 TARPON SPRINGS MUN TANK(PON 1925)

200 ANCLOTE KEYS LIGHTHOUSE

100	27	36	0174	08 2	45	39 08
105	27	42	3236	08 2	44	1477
107	27	43	1759	08 2	44	2936
108	27	44	1153	08 2	45	1218
110	27	44	5249	08 2	45	1636
111	27	45	2328	08 2	45	3342
122	27	48	3659	08 2	46	2173
133	27	48	0605	08 2	47	59 18
135	27	49	2066	08 2	49	4295
137	27	51	1315	08 2	50	5626
139	27	53	4417	08 2	51	1076
144	27	55	0060	08 2	50	2955
155	27	56	0214	08 2	48	0332
156	27	56	3764	08 2	48	3773
166	27	59	0316	08 2	49	38 48
170	27	59	5043	08 2	49	39 43
171	28	01	5207	08 2	49	1574
172	28	02	5360	08 2	46	3952
173	28	05	3114	08 2	50	1657
180	28	08	4236	08 2	45	1049
190	28	09	1569	08 2	45	4206
200	28	10	0018	08 2	50	4149
500	27	42	2383	08 2	44	1657
505	27	56	3272	08 2	50	1346

VELOCITY TABLE

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000047 0 0000 0002 000 125700 009351
000094 0 0002
000141 0 0004
000188 0 0006
000235 0 0008
000282 0 0010
000329 0 0012
000376 0 0014
000422 0 0016
000470 0 0018
000515 0 0020
  2562 0 0022
000609 0 0024
000656 0 0026
000702 0 0028
000749 0 0030
999999 0 0030
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TC/TI LISTING

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000000 0 0000 0002 031 125700 009351
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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: January-May, 1973

HYDROGRAPHIC SHEET: H-9351

OPR: 508

Locality: Off the west coast of Florida

Plane of reference (mean ~~lower~~ diurnal low water): 1.3 ft.

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

Remarks: Zone direct

James R. Hubbard
for Chief, Tides Branch

FORM C&GS-733M
(8-23-60)

OCEANOGRAPHIC LOG SHEET - M
BOTTOM SEDIMENT DATA

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

VESSEL	PROJ. NO.	YEAR		CHECKED BY	DATE CHECKED
LAUNCH 1257	OPR-508	'73	H-9351 (HSL-20-1-73)		

SERIAL NO.	DATE	SAMPLE POSITION		DEPTH (Fathoms)	WEIGHT OF SAMPLER	APPROX. PENETRATION	LENGTH OF CORE	COLOR OF SEDIMENT	FIELD DESCRIPTION	REMARKS (Unusual conditions, cohesiveness, dented cutter, stat. no., type of bottom relief i.e., slope, plain, disposition, etc.)	OBS. INIT.
		LATITUDE	LONGITUDE								
3700	Apr. 6, '73	27° 51' 53"	82° 52' 31"	-	-	-	-	gy	brk Sh & crs gy S	Pos. No. 4306	
3701	Apr. 6, '73	27° 51' 53"	82° 53' 26"	-	-	-	-	gy	crs gy S	Pos. No. 4307	
3702	Apr. 6, '73	27° 51' 53"	82° 54' 15"		-	-	-	gy	crs gy S	Pos. No. 4308	
3703	Apr. 6, '73	27° 51' 53"	82° 55' 01"		-	-	-	-	brk Sh	Pos. No. 4309	
3704	Apr. 6, '73	27° 51' 54"	82° 55' 48"		-	-	-	gy	fine gy S	Pos. No. 4310	
3705	Apr. 6, '73	27° 51' 53"	82° 56' 36"		-	-	-	gy	fine lt gy S	Pos. No. 4311	
3706	Apr. 6, '73	27° 52' 23"	82° 56' 59"		-	-	-	gy	fine gy S	Pos. No. 4312	
3707	Apr. 6, '73	27° 52' 23"	82° 56' 14"		-	-	-	gy	Crs gy S & Brk Sh	Pos. No. 4313	
3708	Apr. 6, '73	27° 52' 25"	82° 55' 27"		-	-	-	gy	crs gy S	Pos. No. 4314	
3709	Apr. 6, '73	27° 52' 25"	82° 54' 39"		-	-	-	gy	crs gy S & brk Sh	Pos. No. 4315	
3710	Apr. 6, '73	27° 52' 24"	82° 53' 59"		-	-	-	gy	fine lt gy S	Pos. No. 4316	
3711	Apr. 6, '73	27° 52' 24"	82° 53' 07"		-	-	-	gy	fine gy S	Pos. No. 4317	
3712	Apr. 6, '73	27° 52' 25"	82° 52' 18"		-	-	-	gy	fine lt gy S	Pos. No. 4318	
3713	Apr. 6, '73	27° 52' 57"	82° 52' 31"		-	-	-	gy	crs gy S & brk Sh	Pos. No. 4319	
3714	Apr. 6, '73	27° 52' 54"	82° 53' 20"		-	-	-	gy	crs gy S & brk Sh	Pos. No. 4320	
~~3715~~	~~Apr. 6, '73~~	~~27° 52' 57"~~	~~82° 54' 06"~~		~~-~~	~~-~~	~~-~~	~~gy~~	~~crs gy S & brk Sh~~	~~Pos. No. 4321~~ Not used. Same as pos 4312	
~~3716~~	~~Apr. 6, '73~~	~~27° 52' 55"~~	~~82° 54' 48"~~		~~-~~	~~-~~	~~-~~	~~gy~~	~~crs gy S & brk Sh~~	~~Pos. No. 4322~~ Not used. Same as pos 4426	

Use more than one line per sample if necessary.

USCOMM-DC 8220-P62

FORM C&GS-733M (8-23-60)

OCEANOGRAPHIC LOG SHEET - M
BOTTOM SEDIMENT DATA

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

VESSEL	PROJ. NO.	YEAR		CHECKED BY	DATE CHECKED
Launch 1257	OPR-508	1973	H-9351 (HSL-20-1-73)		

SERIAL NO.	DATE	SAMPLE POSITION LATITUDE	SAMPLE POSITION LONGITUDE	DEPTH (Fathoms)	WEIGHT OF SAMPLER	APPROX. PENETRATION	LENGTH OF CORE	COLOR OF SEDIMENT	FIELD DESCRIPTION	REMARKS (Unusual conditions, cohesiveness, dented cutter, stat. no., type of bottom relief i.e., slope, plain, disposition, etc.)	OBS. INIT.
3717	Apr. 6, 73	27°52'55"	82°55'31"		-	-	-	gy	fine lt gy S	Pos. No. 4323	
~~3718~~	~~Apr. 6, 73~~	~~27°52'59"~~	~~82°56'28"~~		-	-	-	-	hrd	~~Pos. No. 4324~~ Not used - same as Pos 4424	
~~3719~~	~~Apr. 6, 73~~	~~27°52'59"~~	~~82°57'59"~~		-	-	-	-	hrd	~~Pos. No. 4325~~ Not used - same as Pos 4422	
3720	Apr. 6, 73	27°53'27"	82°58'11"		-	-	-	-	Co	Pos. No. 4326	
3721	Apr. 6, 73	27°53'26"	82°57'20"		-	-	-	gy	crs gy S & brk Sh	Pos. No. 4327	
3722	Apr. 6, 73	27°53'25"	82°56'35"		-	-	-	gy	fine lt gy S	Pos. No. 4328	
3723	Apr. 6, 73	27°53'26"	82°55'48"		-	-	-	bk	bk Spk & brk Sh	Pos. No. 4329	
3724	Apr. 6, 73	27°53'25"	82°54'49"		-	-	-	gy	fine gy S & bk Spk	Pos. No. 4330	
3725	Apr. 6, 73	27°53'26"	82°54'16"		-	-	-	gy	fine gy S & bk Spk	Pos. No. 4331	
3726	Apr. 6, 73	27°53'25"	82°53'32"		-	-	-	gy	crs gy S & brk Sh	Pos. No. 4332	
3727	Apr. 6, 73	27°53'25"	82°52'45"		-	-	-	gy	fine lt gy S & bk Spk	Pos. No. 4333	
3728	Apr. 6, 73	27°53'59"	82°52'26"		-	-	-	gy	crs gy S & brk Sh	Pos. No. 4334	
3729	Apr. 6, 73	27°54'02"	82°53'12"		-	-	-	-	Sh & Co	Pos. No. 4335	
3730	Apr. 6, 73	27°53'59"	82°53'57"		-	-	-	gy	crs gy S & brk Sh	Pos. No. 4336	
3731	Apr. 6, 73	27°53'59"	82°54'49"		-	-	-	gy	crs gy S	Pos. No. 4337	
3732	Apr. 6, 73	27°53'59"	82°55'33"		-	-	-	gy	crs gy S	Pos. No. 4338	
3733	Apr. 6, 73	27°53'59"	82°56'19"		-	-	-	-	Co	Pos. No. 4339	

Use more than one line per sample if necessary.

USCOMM-DC 8220-P62

FORM C&GS-733M (8-23-60)

OCEANOGRAPHIC LOG SHEET - M
BOTTOM SEDIMENT DATA

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

VESSEL	PROJ. NO.	YEAR		CHECKED BY	DATE CHECKED
Launch 1257	OPR-508	1973	H-9351 (HSL-20-1-73)		

SERIAL NO.	DATE	SAMPLE POSITION LATITUDE	SAMPLE POSITION LONGITUDE	DEPTH (Fathoms)	WEIGHT OF SAMPLER	APPROX. PENETRATION	LENGTH OF CORE	COLOR OF SEDIMENT	FIELD DESCRIPTION	REMARKS (Unusual conditions, cohesiveness, dented cutter, stat. no., type of bottom relief i.e., slope, plain, disposition, etc.)	OBS. INIT.
3734	Apr. 6, '73	27°53'58"	82°57'09"		-	-	-	gy	crs gy S	Pos. No. 4340	
3735	Apr. 6, '73	27°53'58"	82°58'05"		-	-	-	-	co & crs S	Pos. No. 4341	
3736	Apr. 6, '73	27°51'09"	82°52'02"		-	-	-	gy	Sh & fine gy S	Pos. No. 4342	
3737	Apr. 6, '73	27°51'07"	82°52'50"		-	-	-	gy	crs gy S	Pos. No. 4343	
3738	Apr. 6, '73	27°51'08"	82°53'45"		-	-	-	gy	crs gy S	Pos. No. 4344	
3739	Apr. 6, '73	27°51'07"	82°54'45"		-	-	-	-	crs S & Sh	Pos. No. 4345	
3740	Apr. 6, '73	27°51'10"	82°55'42"		-	-	-	gy	crs gy S	Pos. No. 4346	
3741	Apr. 6, '73	27°51'09"	82°56'48"		-	-	-	gy	crs gy S	Pos. No. 4347	
3742	Apr. 6, '73	27°50'38"	82°56'52"		-	-	-	gy	crs gy S	Pos. No. 4348	
3743	Apr. 6, '73	27°50'31"	82°56'06"		-	-	-	gy	crs gy S & blk Sh	Pos. No. 4349	
3744	Apr. 6, '73	27°50'35"	82°55'11"		-	-	-	-	fine S	Pos. No. 4350	
3745	Apr. 6, '73	27°50'34"	82°54'07"		-	-	-	gy	fine gy S	Pos. No. 4351	
3746	Apr. 6, '73	27°50'35"	82°53'10"		-	-	-	-	crs S & Sh	Pos. No. 4352	
3747	Apr. 6, '73	27°50'34"	82°52'09"		-	-	-	gy	gy S	Pos. No. 4353	
3748	Apr. 6, '73	27°50'00"	82°51'32"		-	-	-	gy	fine gy S & Sh	Pos. No. 4354	
3749	Apr. 6, '73	27°49'58"	82°52'29"		-	-	-	gy	fine gy S	Pos. No. 4355	
3750	Apr. 6, '73	27°49'58"	82°53'31"					gy	crs gy S	Pos. No. 4356	

Use more than one line per sample if necessary.

USCOMM-DC 8220-P62

FORM C&GS-733M
(8-23-60)

OCEANOGRAPHIC LOG SHEET - M
BOTTOM SEDIMENT DATA

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

VESSEL	PROJ. NO.	YEAR		CHECKED BY	DATE CHECKED
Launch 1257	OPR-508	1973	H-9351 (HSL-20-1-73)		

SERIAL NO.	DATE	SAMPLE POSITION LATITUDE	SAMPLE POSITION LONGITUDE	DEPTH (Fathoms)	WEIGHT OF SAMPLER	APPROX. PENETRATION	LENGTH OF CORE	COLOR OF SEDIMENT	FIELD DESCRIPTION	REMARKS (Unusual conditions, cohesiveness, dented cutter, stat. no., type of bottom relief i.e., slope, plain, disposition, etc.)	OBS. INIT.
3751	Apr. 6, 73	27°49'59"	82°54'31"		-	-	-	gy	f sa gy S	Pos. No. 4357	
3752	Apr. 6, 73	27°49'54"	82°55'37"		-	-	-	gy	f sa gy S	Pos. No. 4358	
3753	Apr. 6, 73	27°49'55"	82°56'30"		-	-	-	gy	f sa gy S	Pos. No. 4359	
3754	Apr. 6, 73	27°49'20"	82°56'15"		-	-	-	gy	f sa gy S	Pos. No. 4360	
3755	Apr. 6, 73	27°49'19"	82°55'10"		-	-	-	gy	f sa gy S	Pos. No. 4361	
3756	Apr. 6, 73	27°49'19"	82°54'09"		-	-	-	gy	f sa gy S	Pos. No. 4362	
3757	Apr. 6, 73	27°49'20"	82°53'09"		-	-	-	gy	gy S & Sh.	Pos. No. 4363	
3758	Apr. 6, 73	27°49'20"	82°51'59"		-	-	-	gy	gy S & Sh.	Pos. No. 4364	
3759	Apr. 6, 73	27°49'19"	82°51'04"		-	-	-	gy	gy S & Sh.	Pos. No. 4365	
3760	Apr. 6, 73	27°48'28"	82°50'27"		-	-	-	gy	f sa gy S & brk Sh	Pos. No. 4366	
3761	Apr. 6, 73	27°48'30"	82°51'12"		-	-	-	gy	f sa gy S	Pos. No. 4367	
3762	Apr. 6 73	27°48'30"	82°51'58"		-	-	-	gy	gy S & Sh	Pos. No. 4368	
3763	Apr. 6, 73	27°48'30"	82°52'48"		-	-	-	gy	crs gy S	Pos. No. 4369	
3764	Apr. 6, 73	27°48'30"	82°53'45"		-	-	-	gy	Co. gy S. & Sh	Pos. No. 4370	
3765	Apr. 6, 73	27°48'30"	82°54'53"		-	-	-	gy	f sa gy S	Pos. No. 4371	
3766	Apr. 6, 73	27°48'30"	82°55'35"		-	-	-	gy	crs gy S & Sh	Pos. No. 4372	
3767	Apr. 6, 73	27°48'30"	82°56'29"		-	-	-	gy	crs gy S & Sh	Pos. No. 4373	

Use more than one line per sample if necessary.

USCOMM-DC 8220-P62

FORM C&GS-733M
(8-23-60)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

OCEANOGRAPHIC LOG SHEET - M
BOTTOM SEDIMENT DATA

VESSEL	PROJ. NO.	YEAR		CHECKED BY	DATE CHECKED
Lch. 1257	OPR - 508	1973	H-9351 (HSL-20-1-73)		

SERIAL NO.	DATE	SAMPLE POSITION LATITUDE	SAMPLE POSITION LONGITUDE	DEPTH (Fathoms)	WEIGHT OF SAMPLER	APPROX. PENETRATION	LENGTH OF CORE	COLOR OF SEDIMENT	FIELD DESCRIPTION	REMARKS (Unusual conditions, cohesiveness, dented cutter, stat. no., type of bottom relief i.e., slope, plain, disposition, etc.)	OBS. INIT.
3768	Apr. 6, 73	27°48'30"	82°57'34"		-	-	-	gy	crs gy S & Sh	Pos. No. 4374	
3769	Apr. 6, 73	27°49'22"	82°58'46"		-	-	-	gy	fine M gy S	Pos. No. 4375	
3770	Apr. 6, 73	27°49'20"	82°57'59"		-	-	-	-	fine S	Pos. No. 4376	
3771	Apr. 6, 73	27°49'20"	82°57'12"		-	-	-	gy	crs gy S, brk Sh, Co	Pos. No. 4377	
3772	Apr. 6, 73	27°49'51"	82°57'07"		-	-	-	gy	crs gy S	Pos. No. 4378	
3773	Apr. 6, 73	27°49'55"	82°58'00"		-	-	-	gy	fine gy S	Pos. No. 4379	
3774	Apr. 6, 73	27°49'55"	82°58'46"		-	-	-	gy	fine gy S	Pos. No. 4380	
3775	Apr. 6, 73	27°49'55"	82°59'32"		-	-	-	gy	crs gy S	Pos. No. 4381	
3776	Apr. 6, 73	27°50'43"	83°00'39"		-	-	-	gy	crs gy S	Pos. No. 4382	
3777	Apr. 6, 73	27°50'41"	82°59'55"		-	-	-	gy	fine gy S	Pos. No. 4383	
3778	Apr. 6, 73	27°50'41"	82°59'05"		-	-	-	gy	crs gy S, brk Sh	Pos. No. 4384	
3779	Apr. 6, 73	27°50'41"	82°58'23"		-	-	-	gy	crs gy S, Sh	Pos. No. 4385	
3780	Apr. 6, 73	27°50'41"	82°57'24"		-	-	-	gy	crs gy S	Pos. No. 4386	
3781	Apr. 6, 73	27°51'16"	82°57'24"		-	-	-	gy	fine gy S	Pos. No. 4387	
3782	Apr. 6, 73	27°51'16"	82°58'06"		-	-	-	gy	crs gy S, Sh	Pos. No. 4388	
3783	Apr. 6, 73	27°51'17"	82°59'01"		-	-	-	gy	fine gy S	Pos. No. 4389	
3784	Apr. 6, 73	27°51'16"	82°59'39"		-	-	-	-	crs S, brk Sh	Pos. No. 4390	

Use more than one line per sample if necessary.

USCOMM-DC 8220-P62

FORM C&GS-733M
(8-23-60)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

OCEANOGRAPHIC LOG SHEET - M
BOTTOM SEDIMENT DATA

VESSEL	PROJ. NO.	YEAR		CHECKED BY	DATE CHECKED
Launch 1257	OPR-508	1973	H-9351 (HSL: 20-1-73)		

SERIAL NO.	DATE	SAMPLE POSITION LATITUDE	SAMPLE POSITION LONGITUDE	DEPTH (Fathoms)	WEIGHT OF SAMPLER	APPROX. PENETRATION	LENGTH OF CORE	COLOR OF SEDIMENT	FIELD DESCRIPTION	REMARKS (Unusual conditions, cohesiveness, dented cutter, stat. no., type of bottom relief i.e., slope, plain, disposition, etc.)	OBS. INIT.
3785	Apr. 6, 73	27°51'17"	83°00'23"		-	-	-	gy	crs gy S	Pos. No. 4391	
3786	Apr. 6, 73	27°51'16"	83°01'08"		-	-	-	-	P, Wd, Co	Pos. No. 4392	
3787	Apr. 9, 73	27°55'36"	82°58'59"		-	-	-	-	brk Sh	Pos. No. 4393	
3788	Apr. 9, 73	27°55'36"	82°59'58"		-	-	-	-	brk Sh	Pos. No. 4394	
3789	Apr. 9, 73	27°55'36"	83°01'04"		-	-	-	-	Co	Pos. No. 4395	
3790	Apr. 9, 73	27°55'36"	83°02'02"		-	-	-	-	crs S, brk Sh	Pos. No. 4396	
3791	Apr. 9, 73	27°55'36"	83°02'59"		-	-	-	gy	fine gy S	Pos. No. 4397	
3792	Apr. 9, 73	27°55'36"	83°04'00"		-	-	-	-	crs S, brk Sh	Pos. No. 4398	
3793	Apr. 9, 73	27°55'36"	83°04'59"		-	-	-	-	Co, brk Sh, S	Pos. No. 4399	
3794	Apr. 9, 73	27°55'36"	83°06'00"		-	-	-	-	S, brk Sh	Pos. No. 4400	
3795	Apr. 9, 73	27°54'36"	83°04'57"		-	-	-	-	S, Co	Pos. No. 4401	
3796	Apr. 9, 73	27°54'36"	83°04'02"		-	-	-	rd	rd Co	Pos. No. 4402	
3797	Apr. 9, 73	27°54'36"	83°02'58"		-	-	-	-	fine S	Pos. No. 4403	
3798	Apr. 9, 73	27°54'36"	83°01'59"		-	-	-	-	Wd	Pos. No. 4404	
3799	Apr. 9, 73	27°54'35"	83°00'56"		-	-	-	gy	gy S, brk Sh	Pos. No. 4405	
3800	Apr. 9, 73	27°54'36"	82°59'59"		-	-	-	-	fine S	Pos. No. 4406	
3801	Apr. 9, 73	27°54'36"	82°58'58"		-	-	-	-	crs S, brk Sh	Pos. No. 4407	

Use more than one line per sample if necessary.

USCOMM-DC 8220-P62

FORM C&GS-733M (8-23-60)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

OCEANOGRAPHIC LOG SHEET - M
BOTTOM SEDIMENT DATA

VESSEL	PROJ. NO.	YEAR		CHECKED BY	DATE CHECKED
Launch 1257	OPR-508	1973	H-9351 (HSL-20-1-73)		

SERIAL NO.	DATE	SAMPLE POSITION LATITUDE	SAMPLE POSITION LONGITUDE	DEPTH (Fathoms)	WEIGHT OF SAMPLER	APPROX. PENETRATION	LENGTH OF CORE	COLOR OF SEDIMENT	FIELD DESCRIPTION	REMARKS (Unusual conditions, cohesiveness, dented cutter, stat. no., type of bottom relief i.e., slope, plain, disposition, etc.)	OBS. INIT.
3802	Apr. 9. 73	27°54'36"	82°57'39"		–	–	–	–	Sh, hrd	Pos. no. 4408	
3803	Apr. 9. 73	27°53'45"	82°57'29"		–	–	–	gy	dk gy M, Sh	Pos. no. 4409	
3804	Apr. 9. 73	27°53'46"	82°58'15"		–	–	–	–	fne S	Pos. no. 4410	
3805	Apr. 9. 73	27°53'46"	82°59'07"		–	–	–	–	fne S	Pos. no. 4411	
3806	Apr. 9. 73	27°53'46"	82°59'59"		–	–	–	–	P, Co	Pos. no. 4412	
3807	Apr. 9. 73	27°53'46"	83°01'01"		–	–	–	–	crs S, brk Sh	Pos. no. 4413	
3808	Apr. 9. 73	27°53'46"	83°02'04"		–	–	–	gy	fne gy S	Pos. no. 4414	
3809	Apr. 9. 73	27°53'46"	83°03'04"		–	–	–	–	crs S, P	Pos. no. 4415	
3810	Apr. 9. 73	27°53'46"	83°03'48"		–	–	–	gy	fne gy S	Pos. no. 4416	
3811	Apr. 9. 73	27°52'54"	83°02'53"		–	–	–	gy	fne gy S	Pos. no. 4417	
3812	Apr. 9. 73	27°52'36"	83°01'51"		–	–	–	gy	gy S, Sh	Pos. no. 4418	
3813	Apr. 9. 73	27°52'56"	83°00'58"		–	–	–	gy	fne gy S	Pos. no. 4419	
3814	Apr. 9. 73	27°52'56"	82°59'57"		–	–	–	–	crs S, slt Co	Pos. no. 4420	
3815	Apr. 9. 73	27°52'56"	82°58'58"		–	–	–	–	crs S, P	Pos. no. 4421	
3816	Apr. 9. 73	27°52'56"	82°58'00"		–	–	–	–	crs S, brk Sh	Pos. no. 4422	
3817	Apr. 9. 73	27°52'56"	82°57'00"		–	–	–	gy	crs gy S	Pos. no. 4423	
3818	Apr. 9. 73	27°52'56"	82°55'57"		–	–	–	gy	fne gy S	Pos. no. 4424	

Use more than one line per sample if necessary.

USCOMM-DC 8220-P62

FORM C&GS-733M (8-23-60)

OCEANOGRAPHIC LOG SHEET - M
BOTTOM SEDIMENT DATA

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

VESSEL	PROJ. NO.	YEAR		CHECKED BY	DATE CHECKED
Launch 1257	OPR-508	1973	H-9351 (HSL-20-1-73)		

SERIAL NO.	DATE	SAMPLE POSITION LATITUDE	SAMPLE POSITION LONGITUDE	DEPTH (Fathoms)	WEIGHT OF SAMPLER	APPROX. PENETRATION	LENGTH OF CORE	COLOR OF SEDIMENT	FIELD DESCRIPTION	REMARKS (Unusual conditions, cohesiveness, dented cutter, stat. no., type of bottom relief i.e., slope, plain, disposition, etc.)	OBS. INIT.
3820	Apr. 9, 73	27°52'56"	82°54'56"		-	-	-	-	crs S, brk Sh	Pos. No. 4426	
3821	Apr. 9, 73	27°52'56"	82°53'58"		-	-	-	gy	crs gy S, brk Sh	Pos. No. 4427	
~~3822~~	~~Apr. 9, 73~~	~~27°52'56"~~	~~82°55'01"~~		-	-	-	gy	crs gy S, brk Sh	~~Pos. No. 4428~~ Not used - See pos. 4319-4320	
~~3823~~	~~Apr. 9, 73~~	~~27°52'11"~~	~~82°55'21"~~		-	-	-	gy	fine gy S	~~Pos. No. 4429~~	
~~3824~~	~~Apr. 9, 73~~	~~27°52'12"~~	~~82°55'21"~~		-	-	-	gy	fine gy S, Wkl	~~Pos. No. 4430~~ Not used - Same as pos. 4316-4317-4318	
~~3825~~	~~Apr. 9, 73~~	~~27°52'12"~~	~~82°54'02"~~		-	-	-	gy	fine gy S, Sh	~~Pos. No. 4431~~	
~~3826~~	~~Apr. 9, 73~~	~~27°52'13"~~	~~82°55'00"~~		-	-	-	gy	gy S, brk Sh	~~Pos. No. 4432~~	
~~3827~~	~~Apr. 9, 73~~	~~27°52'13"~~	~~82°56'01"~~		-	-	-	gy	fine gy S	~~Pos. No. 4433~~ Not used - Same as Pos 4312-4313-4314	
~~3828~~	~~Apr. 9, 73~~	~~27°52'13"~~	~~82°56'58"~~		-	-	-	gy	crs gy S	~~Pos. No. 4434~~	
3829	Apr. 9, 73	27°52'13"	82°58'00"		-	-	-	gy	crs gy S	Pos No. 4435	
3830	Apr. 9, 73	27°52'13"	82°58'59"		-	-	-	gy	crs gy S	Pos. No. 4436	
3831	Apr. 9, 73	27°52'13"	83°00'03"		-	-	-	gy	crs gy S, Sh	Pos. No. 4437	
3832	Apr. 9, 73	27°52'13"	83°00'59"		-	-	-	gy	fine gy S	Pos. No. 4438	
3833	Apr. 9, 73	27°52'13"	83°01'49"		-	-	-	-	hard, Sh	Pos. No. 4439	

Use more than one line per sample if necessary.

USCOMM-DC 8220-P62

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

C323

FEB 5 1976

TO: Alfred C. Holmes
Director, Atlantic Marine Center
Attention: Chief, Processing Division

FROM: 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.

ATLANTIC MARINE CENTER
APPROVAL SHEET
FOR
AUTOMATED SURVEY H-9351

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: Robert C. Mull

Title: Chief, Processing Division

NOAA FORM 76-97
(2-72)
(PRES. BY HYDROGRAPHIC MANUAL, 6-94)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

VERIFIER'S REPORT

HYDROGRAPHIC SURVEY, H - 9351

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
Note: The verifier should first read the Descriptive Report for general information and problems.		
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	X	
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	X	
3. All reference to survey sheets mentioned in the Descriptive Report should include registry number and year. Remarks Required: -- None	X	
Part II - SHORELINE AND SIGNALS		
4. Source of shoreline signals Remarks Required: -- List all surveys		
a. Give earliest and latest dates of photographs	NA	
b. Field inspection date		
c. Field Edit date		
d. Reviewed-Unreviewed		
5. The transfer of contemporary topographic information was carefully examined and reconciled with the hydrography. Remarks Required: -- Discuss remaining differences.	NA	
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	X	
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.	NA	
Part III - JUNCTIONS		
Note: Make a cursory comparison preliminary to inking soundings in area of overlap.		
8. All junctions of contemporary or overlapping sheets were compared and overlapping curves were made identical. Remarks Required: ~~None~~ See note in D.R.	X	
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	X	

Part III - JUNCTIONS (Continued)	CL	R
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 **SUPERSEDED**. Note in D.R. - curves not identical	X	
Part IV - VOLUMES		
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	X	
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	X	
(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		
Part V - MACHINE PLOTTING		
13. All positions verified instrumentally were check marked in color in the sounding records, and verifier initialed the processing stamp. Remarks Required: -- None	X	
14. The plotting of all unsatisfactory crossings was verified. Remarks Required: -- None	X	
15. All detached positions locating critical soundings, rocks, buoys, breakers, obstructions, kelp, etc., were verified and the position numbers are legible. Remarks Required: -- None	X	

Part V - PROTRACTING (Continued)	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	
17. The protractor has been checked within the last three months. Remarks Required: -- Date of check, type of protractor and number.	NA	
Part VI - SOUNDINGS		
18. All soundings are clear and legible, and critical soundings are a little larger than adjacent soundings. Remarks Required: -- None	X	
19. Sounding line crossings were satisfactory except as follows: Remarks Required: -- Discuss adjustments.	X	
20. The spacing of soundings as recorded in the records was closely followed; Remarks Required: -- None	X	
21. The scanning, reduction, spacing, plotting of questionable soundings have been verified. 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	
Part VII - CURVES		
23. The depth curves have been inspected **before** inking. Remarks Required: -- By whom was the penciled curves inspected. GFT	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	
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	

Part VIII - AIDS TO NAVIGATION	CL	R
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	
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	X	
Part IX - BOATSHEET		
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	
29. Heights of rocks awash were correctly reduced and compared with topographic information. Remarks Required: -- Note excessive conflicts with topographic information.	NA	
Part X - GENERAL		
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	
31. Unnecessary pencil notes have been removed from the sheet. Remarks Required: -- None	X	
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	
33. The bottom characteristics are adequately shown. Remarks Required: -- None	X	
Part XI - NOTES TO THE REVIEWER		
34. Unresolved discrepancies and questionable soundings.	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	Date
Charles Meekins	07/13/76

* U.S. G.P.O. 1972-769380/540 REG.#6

Verification Note
Category II Survey
H-9351 (HSL-20-1-73) 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 the prior surveys H-7968 and H-7793 and the charted depths. It junctions with H-9350 on the south and H-9390 on the north. No displacement of depth curves were noted on these surveys.

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

William L Jonns

Norfolk, Virginia
February 18, 1977

William L. Jonns
Chief, Verification Branch
AMC

NOAA FORM 76-155
(11-72)

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

SURVEY NUMBER

H-9351

GEOGRAPHIC NAMES

Name on Survey	A ON CHART NO.	B ON PREVIOUS SURVEY NO.	C ON U.S. QUADRANGLE MAPS	D FROM LOCAL INFORMATION	E ON LOCAL MAPS	F P.O. GUIDE OR MAP	G RAND MCNALLY ATLAS	H U.S. LIGHT LIST	K	
										1
										2
										3
										4
										5
										6
										7
										8
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										25

NOAA FORM 76-155 SUPERSEDES C&GS 197

☆ U.S. G.P.O. 1972-769-565/516 REG.#6

NOAA FORM 77-27 (9-72) (PRESC. BY HYDROGRAPHIC MANUAL 20-2, 6-94, 7-13)

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

HYDROGRAPHIC SURVEY STATISTICS

HYDROGRAPHIC SURVEY NO. H-9351

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

RECORD DESCRIPTION	AMOUNT	RECORD DESCRIPTION	AMOUNT
SMOOTH SHEET with smooth PNO & excess overlay	1	BOAT SHEETS (3 parts mylar & paper)	1
DESCRIPTIVE REPORT	1	OVERLAYS (preliminary)	4

DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES	2					1
CAHIERS	2 with printouts		X			
VOLUMES	2					
BOXES			1-smooth printouts, ~~misc, data~~			

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				4469
POSITIONS CHECKED	468	129		
POSITIONS REVISED				
DEPTH SOUNDINGS REVISED				
DEPTH SOUNDINGS ERRONEOUSLY SPACED				
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED				
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS	0	0		
JUNCTIONS	9	4		
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS	24	8		
SPECIAL ADJUSTMENTS	0	0		
ALL OTHER WORK	133	81		
TOTALS	166	93		

	BEGINNING DATE	ENDING DATE
PRE-VERIFICATION BY: Franklin L. Saunders, Robert R. Hill	04/14/75	04/06/76
VERIFICATION BY: Charles Meekins	06/18/76	07/12/76
REVIEW BY:		

* U.S. G.P.O. 1972-769-562/439 REG.#6

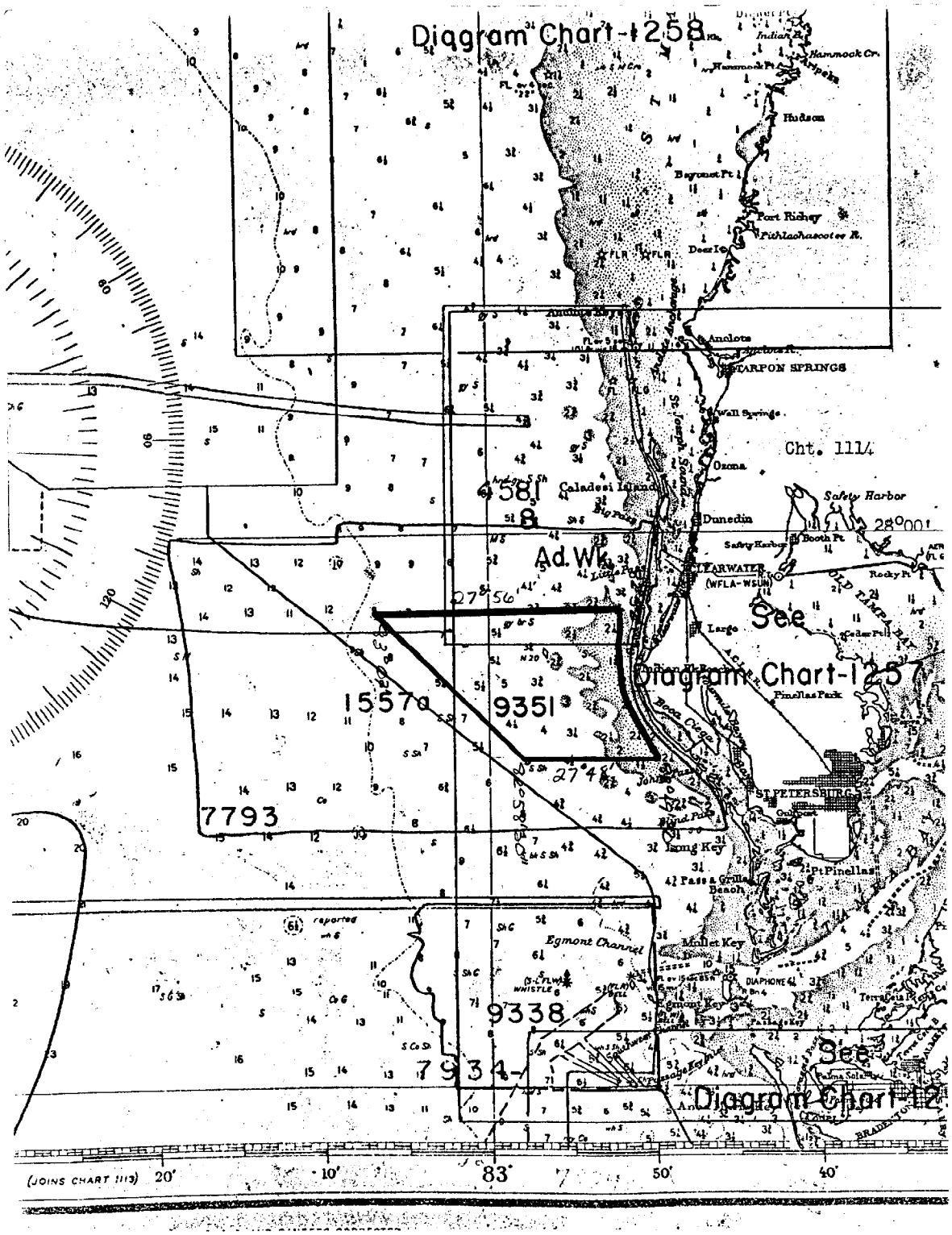
Diagram Chart-1258
Hudson
Port Richey
Anclote
TARPON SPRINGS
Cht. 1114
Ozona
Caladesi Island
Dunedin
Safety Harbor
CLEARWATER
(WFLA-WSUN)
Largo
Pinellas Park
Diagram Chart-1257
ST PETERSBURG
Long Key
Pt Pinellas
Mullet Key
Egmont Channel
4581
8
Ad. Wk.
27°56'
1557a
9351
2748
7793
9338
7934
See
See Diagram Chart-12
(JOINS CHART 1113)
20'
10'
83°
50'
40'

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

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. 9351

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
858	3-18-77	J. OWYANG	Full Part Before After Verification ~~Review~~ ~~Inspection~~ Signed Via
			Drawing No. 22 EXAMINED FOR CRITICAL CORRECTIONS.
			NO CORRECTION.
11411	3/23/81	Dick Miller	Full ~~Part Before~~ After Verification ~~Review~~ ~~Inspection~~ Signed Via
			Drawing No. 1 (CAT #1 3/23/81 RMM)
11412	5-8-84	Sue Tarter	Full ~~Part Before~~ After Verification ~~Review~~ ~~Inspection~~ Signed Via
			Drawing No. 54 (Applied thru 11411 reduction + Survey red.)
11400	7-31-91	L. McKenan	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. 37 Applied thru chart 7-31-91
			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
			Drawing No.
			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
			Drawing No.

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.

USCOMM-DC 8558-P63