

8950

Smooth Copy

8950

FORM C&GS-504	
U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	Hydrographic
Field No.	WH-10-2-67
Office No.	H-8950
LOCALITY	
State	New York
General locality	Long Island Sound
Locality	Smithtown Bay
19.67	
CHIEF OF PARTY	
CDR. Sidney C. Miller, USESSA	
LIBRARY & ARCHIVES	
DATE	4-11-73

*Charts 1175C
1213*

HYDROGRAPHIC TITLE SHEET

H-8950

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.

WH-10-2-67

State New York

General locality Long Island Sound

Locality Smithtown Bay

Scale 1:10,000 Date of survey 6 July Thru 11 Oct. 1967

Instructions dated 18 May 1967 Project No. OPR-474

Vessel Launch 1&2, Attached to USC&GSS Whiting

Chief of party CDR. SIDNEY C. MILLER, ESSA.

Surveyed by CDR. S.C. Miller, LT. J.C. Carlen, ENS D. McCall, ENS P.M. Hall
ENS J.R. Avampato, and ENS C.L. Hardt

Soundings taken by echo sounder, ~~Raytheon~~ DE-723 Raytheon Fathometer

Graphic record scaled by Ships force

Graphic record checked by Ships force

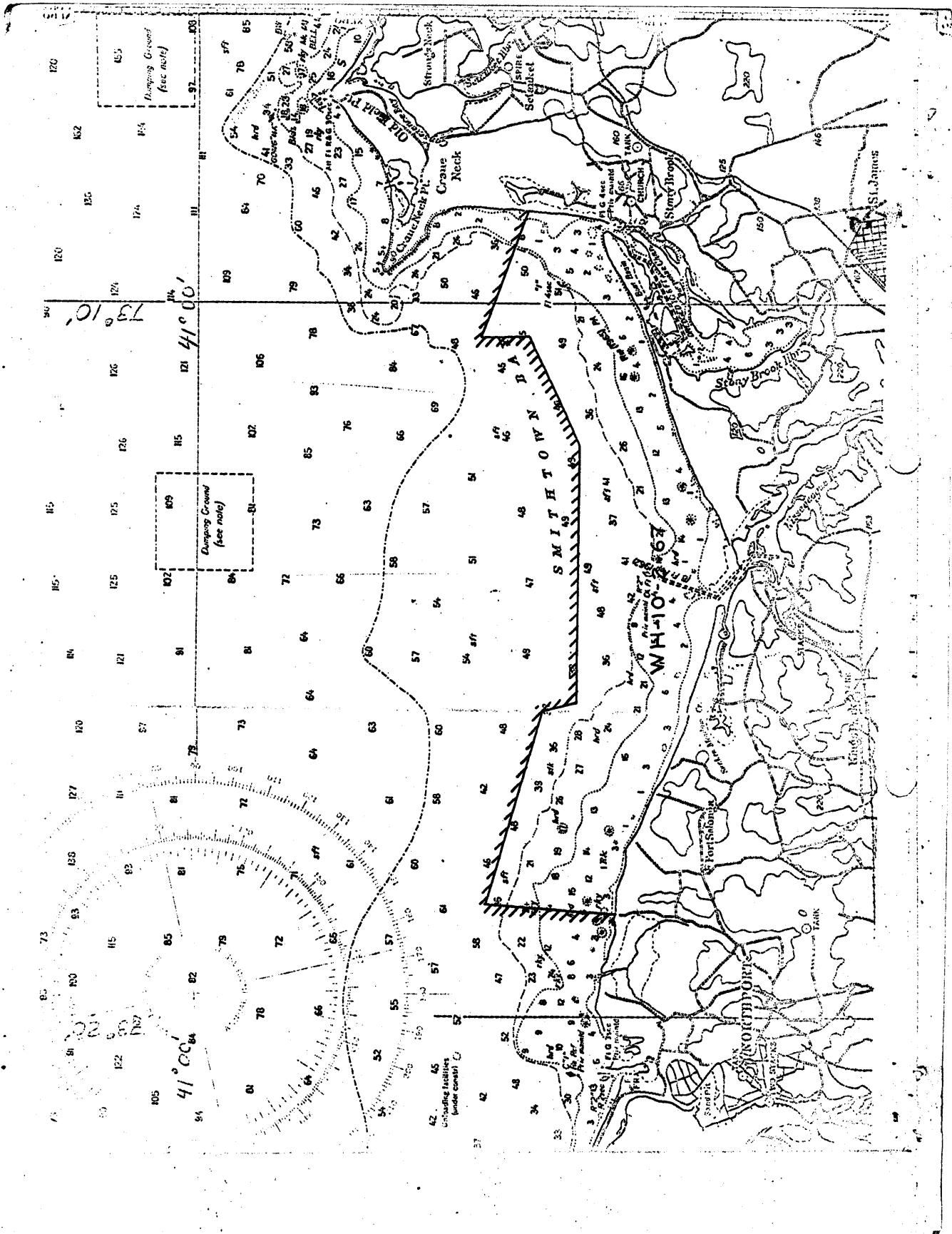
Protracted by Computer-Plotter System Automated plot by P.M.C.

Soundings penciled by Computer-Plotter-System

Soundings in ~~fathoms~~ feet at MLW ~~XXXXXX~~

REMARKS: Whiting Computer-Plotter System was used to plot boat sheet,
Smooth Sheet will be Plotted in Seattle, Wash.

*Applied to Ado 4/12/73
CAS*



170
165
160
155
150
145
140
135
130
125
120
115
110
105
100

41°00'

Dumping Ground
(see note)

41°00' 41' 00"

42
41
40
39
38
37
36
35
34
33
32
31
30
29
28
27
26
25
24
23
22
21
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19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0

Contours
under contour

SMITH TOWN

WH-10-63

SMITH TOWN

St. James

TANK

SMITH TOWN

SMITH TOWN

SMITH TOWN

SMITH TOWN

SMITH TOWN

DESCRIPTIVE REPORT

WH-10-2-67

H-8950

A. Project.

Authorization for work on this project is contained in Instructions, OPR-474, Long Island Sound, 18 May 1967.

B. Area Surveyed.

The area surveyed is bounded on the west by $73^{\circ}18'45''W$ and on the east by $73^{\circ}08'45''W$. The southern boundary is the northern shore of Long Island. Hydrography extends approximately 1.3 miles northward from the Long Island shore. The area is known as Smithtown Bay. The Nissequogue River and Stony Brook Harbor were also surveyed.

Survey operations were begun 6 July 1967 and completed 11 October 1967.

This survey joins contemporary surveys WH-10-1-67, WH-20-2-67, and WH-10-3-67, and supercedes portions of H-1709, 1886, 1:10,000 and H-1734, 1886, 1:10,000.

H-8949

H-8952

H-8951

C. Sounding Vessel.

All work was done with WHITING Launch # 2 with the exception of Stony Brook Harbor which was done with WHITING Launch # 1.

Several rock DP's were taken with a skiff. All computer plotted

soundings appear in green and hand plotted soundings are in black.

ON boat sheet

D. Sounding Equipment.

All soundings were taken with Raytheon DE 723 fathometers except for rock DP's. Launch # 2 used fathometer #213, and Launch # 1 used fathometer #251. To determine echo sounder corrections, bar checks were taken twice daily and temperature and salinity corrections were calculated. Settlement and squat corrections were previously determined. The echo sounders were used in depths ranging from 4 to 60 feet.

E. Smooth Sheet.

The computer-plotter system on board the WHITING was used to plot both boat sheets making up WH-10-2-67. The system was also used to plot HI-FIX arcs on the sheets. All work using Decca Hyperbolic HI-FIX for control was plotted by the computer plotter system.

Present plans indicate that the smooth sheet will be made using the Gerber plotting system in Seattle, Washington.

F. Control.

The chief means of control was Decca Hyperbolic HI-FIX. All work within one half mile of shore also used visual fixes taken simultaneously with HI-FIX readings and recorded in a separate volume. The visual fixes were plotted on a mylar overlay to show agreement with HI-FIX.

All shoreline, the Nissequogue River, Stony Brook Harbor, and the greatest part of the rock DP's were done using visual control only.

All HI-FIX shore stations were located by third order triangulation. The stations are listed below.

Yacht (Master)	ϕ 41°05'56".81 N λ 73°22'01".18 W	} These values differ slightly from those in the HI-Fix report. The latter values were used -
Lloyd (Slave 1)	ϕ 41°56'41".22 N λ 73°29'15".99 W	
Strat (Slave 2)	ϕ 41°09'07".77 N λ 73°06'12".57 W	

The signals used for visual control were located by Robert Tibbetts of Photo Party # . The photogrammetric compilations used were the incomplete manuscripts listed below.

T-12392	April 1967
T-12393	May 1967
T-12394	May 1967
T-12395	June 1967
T-12390	June 1967

G. Shoreline.

Shoreline was transferred to the boat sheet using the incomplete manuscripts listed in Section F. No revisions were made by the hydrographer.

H. Crosslines.

Crosslines were run to the extent of 8% of the regular system of sounding lines. The agreement between crosslines and regular sounding lines was good in Smithtown Bay. The agreement between crosslines and regular lines in Stony Brook Harbor was not good with discrepancies as great as four feet. These discrepancies were caused by using tide reducers for Smithtown Bay. When reducers were taken directly from the tide gage placed in Stony Brook Harbor and

plotted on an overlay, the agreement between crosslines and regular lines was very good.

I. Junctions.

Agreement between depths taken on the survey and depths taken on all contemporary surveys was good. No junction was made with any prior survey.

J. Prior Surveys.

Three items on the pre-survey review were included in this survey.

1. An 8 foot channel reported in 1962 in about $\phi 40^{\circ}55'$, $\lambda 73^{\circ}14'$.
2. Rock awash in $\phi 40^{\circ}55'.47$, $\lambda 73^{\circ}10'.60$.
3. Rock awash in $\phi 40^{\circ}55'.41$, $\lambda 73^{\circ}11'.04$.

Investigated in Day 284
 beh. # 2, Vol. 26
 Not logged - Pos. 4254 Smooth
 Plotted

The channel was well developed and found to have a 7 foot controlling depth. ✓

An extensive search was made for both rocks awash, but neither was found. ✓

Comparison of the survey with prior surveys H-1709, 1886, ✓
 1:10,000 and H-1/34, 1886, 1:10,000 shows general agreement of 0-2 feet. In the areas immediately outside the Nissequogue River and Stony Brook Harbor entrances, depths have changed as much as four feet. This is attributed to dredging and the shifting of sand bars by swift tidal currents.

K. Comparison With the Chart.

The survey was compared with Chart 117 SC, 22 October 1967,

1:40,000, and the agreement was good. Three features noted as "reported" on the chart have already been discussed in Section J.

No recommendations can be made for the reported depths in Stony Brook Harbor until smooth tides have been applied to the depths.

dangers to navigation were found during this survey.

No new
4' controlling depth
at entrance -

M. Aids to Navigation.

All aids to navigation for the survey listed in the Light List were found to be in proper positions as indicated by the Light List and the chart. The aids adequately serve the purpose for which they were established.

Stony Brook Harbor has a great number of buoys marking the channel both entering and inside the channel. The buoys are privately maintained, but it was not determined if the maintenance is year round. The buoys are listed below.

<u>Pos. No.</u>	<u>Description</u> <u>Entrance Buoys</u>	<u>Position</u>
3458	#1, BW vertical stripe can, 18" diameter	Ø 40°56'12".0 λ 73°09'24".2
3457	#2, BW vertical stripe can, 18" diameter	40°56'10".0 73°09'19".3
3456	#4, BW vertical stripe can, 18" diameter	40°56'05".5 73°09'04".0
3455	#5, BW vertical stripe can, 18" diameter	40°56'02".7 73°08'53".0
3454	#6, BW vertical stripe can, 18" diameter	40°55'55".3 73°08'52".0
3453	BW vertical stripe can, 18" diameter	40°55'50".0 73°08'53".0
3459	Black lighted Entr. Buoy #1	40°56'07".0 73°09'44".0

Buoys Inside Harbor

3452	Red spherical, 18" diameter	∅ 40°55'34".5 λ 73°09'01".0
3451	Red and black spherical, 18" diameter	40°55'33".0 73°08'59".2
3450	Red spherical, 18" diameter	40°55'27".5 73°09'10".7
3449	Black spherical, 18" diameter	40°55'28".0 73°09'10".7
3448	Red spherical, 18" diameter	40°55'27".0 73°09'20".5
3447	Black spherical, 18" diameter	40°55'25".7 73°09'19".0
3446	Black spherical, 18" diameter	40°55'22".5 73°09'21".0
3445	Red spherical, 18" diameter	40°55'18".0 73°09'24".5
3444	Black spherical, 18" diameter	40°55'17".5 73°09'23".2
3443	Red spherical, 18" diameter	40°55'45".0 73°09'31".0
3442	Red spherical, 18" diameter	40°55'17".0 73°09'49".0
3441	Red spherical, 18" diameter	40°55'09".0 73°09'45".5
3440	Black spherical, 18" diameter	40°55'08".0 73°09'44".5
3439	Red spherical, 18" diameter	40°55'06".0 73°09'52".5
3438	Red spherical, 18" diameter	40°55'02".0 73°10'00".5
3437	Red spherical, 18" diameter	40°55'00".0 73°10'07".5

<u>Pos. No.</u>	<u>Description</u>	<u>Position</u>
3436	Black spherical, 18" diameter	ϕ 40°55'58".5 λ 73°10'07".0
3435	Red spherical, 18" diameter	40°54'56".5 73°10'14".5
3434	Red spherical, 18" diameter	40°54'45".0 73°10'30".5 <i>Poor fix</i>
3433	Black spherical, 18" diameter	40°54'52".0 73°10'28".3
3432	Red spherical, 18" diameter	40°54'53".0 73°10'30".0
3431	Red spherical, 18" diameter	40°54'56".0 73°10'33".0

The Nissequogue River channel is marked by several buoys. They are privately maintained, but it was not determined if the maintenance is year round. The buoys are listed below.

<u>Pos. No.</u>	<u>Description</u> <u>Entrance Buoys</u>	<u>Position</u>
2690	#1, red spar, lighted	ϕ 40°54'56".5 λ 73°14'00".0
2691	#2, small red spar	40°54'54".0 73°13'59".7
2692	#3, small red spar	40°54'50".5 73°14'01".0
2693	#4, small red spar	40°54'45".0 73°14'02".5
2694	#5, small red spar	40°54'42".0 73°14'04".0
2695	#6, small red spar	40°54'39".0 73°14'06".0
2696	#7, small red spar	40°54'34".0 73°14'08".8

Buoys Inside Channel

<u>Pos. No.</u>	<u>Description</u>	<u>Position</u>
2697	#8, small red spar	^{40°54'} φ 41°55'22".0 73°13'55".0
2698	#9, small red spar	40°54'16".7 73°13'48".3

N. Statistics.

<u>Vessel</u>	<u>No. Positions</u>	<u>N.M. Sounding Line</u>
Launch 1	498	34.5
Launch 2	3737	404.3
Skiff 1	<u>72</u>	<u>0.0</u>
	4207	438.8

Total area surveyed: 15.5 sq. N. M.

No. bottom samples: 38

O. Miscellaneous.

To be completed by the smooth plotter.

P. Recommendations.

No recommendations are made for this survey.

Q. References to reports.

1. Fathometer report
2. HI-FIX report

Respectfully Submitted:

ENS Dave McCall, USESSA.

Approved and Forwarded:

CDR. Sidney C. Miller

Commanding USC&GSS WHITING

Tide Note

Tides during this survey were recorded on a standard tide gage located at Port Jefferson, Long Island, New York, $\phi 40^{\circ}58'N$, $\lambda 73^{\circ}05'W$. The 60th time meridian was used for recording the tides. Hourly heights were furnished by the Washington office. The gage was referenced at 3.7 feet on the staff. Three ratios were applied to different areas of the survey to correct the tides. The ratios are 0.0 eastward of $73^{\circ}13'00''W$, 1.1 westward of $73^{\circ}13'00''W$ and 0.9 inside Stony Brook Harbor.

The table below shows the breakdown of the positions for different tide ratios.

<u>Pos. Nos.</u>	<u>Date of Change</u>	<u>Ratio</u>	<u>Sheet</u>
1-1883		1.1	WH-10-2A-67
1884-2481	Aug. 2, 1967	0.0	WH-10-2B-67
2482-2514	Aug. 6, 1967	1.1	WH-10-2A-67
2515-2640	Aug. 6, 1967	0.0	WH-10-2B-67
2641-2775	Aug. 7, 1967	1.1	WH-10-2A-67
2778-3248	Aug. 23, 1967	0.0	WH-10-2B-67
3249-3252	Aug. 29, 1967	1.1	WH-10-2A-67
3253-3257	Aug. 29, 1967	0.0	WH-10-2B-67
3258-3760	Sept. 17, 1967	0.9	WH-10-2B-67 Stony Brook Hbr.
3761-4173	Sept. 20, 1967	0.0	WH-10-2B-67

TIDE NOTE FOR HYDROGRAPHIC SHEET

February 11, 1969

~~Nautical Chart Division~~ Pacific Marine Center

Plane of reference approved in
~~hydrographic survey for~~

HYDROGRAPHIC SHEETS 8949-52 and 8967

Locality: North shore of Long Island

Chief of Party: S. C. Miller, 1967

Plane of reference is mean low water

Tide Station Used (Form C&GS-681):

Port Jefferson

Height of Mean High Water above Plane of Reference is as follows:

East of Long. 73°13'	= 6.6 feet
Stonybrook Harbor	= 5.9 "
West of Long. 73°13'	= 7.3 "

Remarks

J. M. Symons
Chief, Tides and Currents Branch

<u>Pos. Nos.</u>	<u>Date of change</u>	<u>Ratio</u>	<u>Sheet</u>
4174-4240	Oct. 1, 1967	1.1	WH-10-2A-67
4246-4301	Oct. 5, 1967	0.0	WH-10-2B-67
4302-4307	Oct. 5, 1967	1.1	WH-10-2A-67
4308	Oct. 11, 1967	0.0	WH-10-2B-67
4309-4316	Oct. 11, 1967	1.1	WH-10-2A-67

ENDORSEMENT AMC VERIFICATION BRANCH MARCH 21, 1973

Tide corrections were compiled and logged by the AMC Verification Branch.

Soundings in Stony Brook Harbor were referenced to a temporary gage in the harbor with-out time or range corrections. Otherwise, soundings were referenced to the Port Jefferson gage. Ratio corrections of 1.0 and 1.1 were used East and West of Longitude 73-13' respectively.

List of Signals

WH-10-2-67

<u>Name</u>	<u>Number</u>	<u>Source</u>
✓ ACE ✓	⁰ 812	T-12393 (Topographic)
✓ ACT	018	T-12394 "
✓ ADD ✓	011 022	T-12394 "
✓ ADD AID	011	T-12395 "
✓ BED	021	T-12394 "
✓ BIB	030	T-12395 "
✓ BIG	033	T-12390 "
✓ BOA	060	T-12395 "
✓ CAB	100	T-12392 "
✓ CAM	105	T-12394 "
✓ CAT (H)	108	Hydrographic ✓
✓ CON	165	T-12395 "
✓ DEB	120	T-12394 "
✓ DIF	132	T-12395 "
✓ DIM	135	T-12394 "
✓ DIP	136	T-12392 "
✓ DIX	139	T-12395 "
✓ EAR	207	T-12394 "
✓ EBB	200	" "
✓ EEL ✓	224	" "
✓ EGO	236	T-12392 "
✓ ELF	242	T-12395 "

<u>Name</u>	<u>Number</u>	<u>Source</u>
✓ FED	221	T-12394 (Topographic)
✓ FEW (H)	229	Hydrographic ✓
✓ FIG	233	T-12395 (Topographic)
✓ FIN	235	T-12394 "
✓ FIT	238	T-12395 "
✓ GAD	301	T-12394 "
✓ GAL	304	T-12395 "
✓ GAS	307	T-12393 "
✓ GET	328	T-12395 "
✓ HAT	308	T-12394 "
✓ HEM	325	T-12395 "
✓ HEX	329	T-12393 "
✓ HID	331	T-12395 "
✓ IDA	310	T-12393 "
✓ ION	365	T-12394 "
✓ IRK	374	T-12395 "
✓ IVY	389	T-12395 "
✓ JAR	407	T-12394 "
✓ JOB	460	T-12395 "
✓ JUG	483	T-12393 "
✓ KEN	425	T-12394 "
✓ KEY	429	T-12395 "
✓ KID	431	T-12393 "

<u>Name</u>	<u>Number</u>	<u>Source</u>
✓ LAD	401	T-12393 (Topographic)
✓ LAM	405	T-12394 "
✓ LEG	423	T-12395 "
✓ MAG	503	T-12394 "
✓ MAN	505	T-12395 "
✓ MAR	507	T-12395 "
✓ MAX ✓	509	T-12393 "
✓ NAT	508	T-12394 "
✓ NED	521	T-12395 "
✓ NEO	526	T-12393 "
✓ NIC	533	T-12395 "
✓ NIL ✓	534	T-12394 "
✓ OBI	603	T-12394 "
✓ ODD	611	T-12393 "
✓ OFF (H)	622	Hydrographic ✓
✓ OHM	635	T-12395 (Topographic)
✓ OIL	634	" "
✓ PAR	607	T-12394 "
✓ PAW	609	T-12395 "
✓ PEG	623	T-12393 "
✓ PEP	626	T-12393 "
✓ RAG	703	T-12393 "
✓ RAM	705	T-12394 "
✓ REV	728	T-12395 "

<u>Name</u>	<u>Number</u>	<u>Source</u>
✓RIG	733	T-12395 (Topographic)
✓SAD	701	T-12394 "
✓SAL	704	T-12393 "
✓SAX	706 ⁹	T-12395 "
✓SIP	736	T-12395 "
✓TAP	806	T-12394 "
✓TAX	809	T-12390 "
✓THY	839	T-12395 "
✓TOM	865	T-12390 "
✓TRY	879	T-12393 "
✓VAL	804	T-12394 "
✓VEX	829	T-12390 "
✓VIA	830	T-12395 "
✓VIM	835	T-12393 "
✓WAG	903	T-12394 "
✓WAR	907	T-12390 "
✓WAX	909	T-12395 "
✓WHO	936	T-12394 "
✓YAM	905	T-12394 "
✓YEA	920	T-12394 "
✓YET	928	T-12390 "
✓ZOO	966	T-12394 "

08950	001100	000000	0	00000	40540353	073101427	13278	02057	011 /
08950	001200	000000	0	00000	40552668	073180244	01776	04750	012 /
08950	001800	000000	0	00000	40542924	073140872	07517	02890	018 /
08950	002100	000000	0	00000	40542178	073140551	07596	02648	021 /
08950	002200	000000	0	00000	40545326	073115652	10765	03668	022 /
08950	003000	000000	0	00000	40545887	073113725	11239	03849	030 /
08950	003300	000000	0	00000	40564782	073082347	15996	07382	033 /
08950	006000	000000	0	00000	40541060	073100632	13474	02286	060 /
08950	010000	000000	0	00000	40553903	073191419	00014	05150	100
08950	010500	000000	0	00000	40541576	073135404	07878	02453	105
08950	010800	000000	0	00000	40550149	073112718	11486	03934	108
08950	012000	000000	0	00000	40540807	073134623	08070	02204	120
08950	013200	000000	0	00000	40550846	073105461	12286	04160	132
08950	013500	000000	0	00000	40534944	073122499	10066	01601	135
08950	013600	000000	0	00000	40553611	073190017	00358	05055	136
08950	013900	000000	0	00000	40544856	073100128	13597	03516	139
08950	016500	000000	0	00000	40543258	073100658	13467	02998	165
08950	020000	000000	0	00000	40551193	073103662	12728	04272	200
08950	020700	000000	0	00000	40540441	073134738	08042	02086	207
08950	022100	000000	0	00000	40535506	073134861	08011	01783	221
08950	022400	000000	0	00000	40531595	073122084	10169	00516	224
08950	022900	000000	0	00000	40553410	073183030	01092	04990	229
08950	023300	000000	0	00000	40551618	073101919	13156	04410	233
08950	023500	000000	0	00000	40533820	073120226	10625	01237	235
08950	023600	000000	0	00000	40553420	073184799	00657	04994	236

08950	023800	000000	0	00000	40550619	073092645	14452	04086	238
08950	024200	000000	0	00000	40545825	073094529	13989	03829	242
08950	030100	000000	0	00000	40535000	073132448	08604	01619	301
08950	030400	000000	0	00000	40552162	073100397	13530	04586	304
08950	030700	000000	0	00000	40553219	073180667	01672	04928	307
08950	030800	000000	0	00000	40540499	073131179	08916	02104	308
08950	031000	000000	0	00000	40552652	073174555	02191	04745	310
08950	032500	000000	0	00000	40551640	073095743	13690	04417	325
08950	032800	000000	0	00000	40551443	073090333	15020	04353	328
08950	032900	000000	0	00000	40552629	073175470	01966	04737	329
08950	033100	000000	0	00000	40551887	073085722	15170	04497	331
08950	036500	000000	0	00000	40534822	073130167	09165	01561	365
08950	037400	000000	0	00000	40552558	073095252	13811	04714	374
08950	038900	000000	0	00000	40550259	073111385	11813	03970	389
08950	040100	000000	0	00000	40551261	073170615	03158	04294	401
08950	040500	000000	0	00000	40543067	073135703	07804	02936	405
08950	040700	000000	0	00000	40534514	073125477	09335	01462	407
08950	042300	000000	0	00000	40553608	073092538	14477	05054	423
08950	042500	000000	0	00000	40534209	073124610	09548	01363	425
08950	042900	000000	0	00000	40553255	073093567	14225	04940	429
08950	043100	000000	0	00000	40552029	073172487	02699	04543	431
08950	046000	000000	0	00000	40552662	073084842	15385	04748	460
08950	048300	000000	0	00000	40552110	073172948	02585	04569	483
08950	050300	000000	0	00000	40541828	073133990	08225	02535	503
08950	050500	000000	0	00000	40554256	073090615	14949	05264	505

08950	050700	000000	0	00000	40544506	073110581	12011	03402	507
08950	050800	000000	0	00000	40542253	073132111	08687	02672	508
08950	050900	000000	0	00000	40551235	073170184	03264	04286	509
08950	052100	000000	0	00000	40553725	073085333	15265	05092	521
08950	052600	000000	0	00000	40550901	073164910	03577	04178	526
08950	053300	000000	0	00000	40542512	073110769	11965	02756	533
08950	053400	000000	0	00000	40534801	073121251	10373	01554	534
08950	060300	000000	0	00000	40541845	073131230	08904	02540	603
08950	060700	000000	0	00000	40542730	073130906	08983	02827	607
08950	060900	000000	0	00000	40555615	073084645	15433	05704	609
08950	061100	000000	0	00000	40550305	073163303	03972	03985	611
08950	062200	000000	0	00000	40554496	073084983	15350	05342	622
08950	062300	000000	0	00000	40545754	073161785	04345	03806	623
08950	062600	000000	0	00000	40540162	073104456	12534	01995	626
08950	063400	000000	0	00000	40550755	073090376	15009	04130	634
08950	063500	000000	0	00000	40541261	073105644	12242	02351	635
08950	070100	000000	0	00000	40543102	073125618	09300	02947	701
08950	070300	000000	0	00000	40545255	073160201	04734	03645	703
08950	070400	000000	0	00000	40544710	073154059	05260	03468	704
08950	070500	000000	0	00000	40543073	073130722	09028	02938	705
08950	070900	000000	0	00000	40561410	073084406	15491	06289	709
08950	072800	000000	0	00000	40560655	073084497	15469	06045	728
08950	073300	000000	0	00000	40534769	073104134	12614	01544	733
08950	073600	000000	0	00000	40534487	073103344	12808	01453	736
08950	080400	000000	0	00000	40543822	073124003	09696	03181	804

08950	080600	000000	0	00000	40543712	073124601	09549	03145	806
08950	080900	000000	0	00000	40562476	073084257	15527	06636	809
08950	082900	000000	0	00000	40563446	073084223	15535	06949	829
08950	083000	000000	0	00000	40533495	073101632	13229	01131	830
08950	083500	000000	0	00000	40544036	073151333	05930	03250	835
08950	083900	000000	0	00000	40533842	073102430	13033	01244	839
08950	086500	000000	0	00000	40571242	073083993	15590	08179	865
08950	087900	000000	0	00000	40544402	073152401	05667	03368	879
08950	090300	000000	0	00000	40544509	073122572	10048	03403	903
08950	090500	000000	0	00000	40543346	073143640	06837	03026	905
08950	090700	000000	0	00000	40563673	073083800	15639	07023	907
08950	090900	000000	0	00000	40535352	073101064	13368	01733	909
08950	092000	000000	0	00000	40544714	073121068	10417	03469	920
08950	092800	000000	0	00000	40564237	073084150	15553	07206	928
08950	093600	000000	0	00000	40543676	073142405	07141	03133	936
08950	096600	000000	0	00000	40543274	073142692	07070	03003	966

00091

TIDES: HOURLY HEIGHTS

Station: Stoney Brook Harbor Year: 1967
 Lat. _____ Long. _____
 Time Meridian: 60° Height datum is MLW

Month and Day	mo. d.	261 d.	262 d.	d.	d.	d.	d.	Horizontal Sum
Sept-17	260	18	19					
Hour	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet
0	.	.	.	.	.	.	.	.
1	.	.	.	.	.	.	.	.
2	.	.	.	.	.	.	.	.
3	.	.	.	.	.	.	.	.
4	.	.	.	.	.	.	.	.
5	.	.	.	.	.	.	.	.
6	.	.	.	.	.	.	.	.
7	.	.	.	.	.	.	.	.
8	1.2	1.	.	.	.	.	.	.
9	2.2	1.8	1.1	.	.	.	.	.
10	3.6	3.1	2.0	.	.	.	.	.
11	5.2	4.7	3.3	.	.	.	.	.
Noon	6.1	6.2	5.1	.	.	.	.	.
13	5.5	6.3	6.2	.	.	.	.	.
14	4.4	5.5	5.8	.	.	.	.	.
15	3.2	4.3	4.9	.	.	.	.	.
16	2.1	3.1	.	.	.	.	.	.
17	.	.	.	.	.	.	.	.
18	.	.	.	.	.	.	.	.
19	.	.	.	.	.	.	.	.
20	.	.	.	.	.	.	.	.
21	.	.	.	.	.	.	.	.
22	.	.	.	.	.	.	.	.
23	.	.	.	.	.	.	.	.
Sum	.	.	.	.	.	.	.	.
Sum for	=	Divisor=(28d) 672; (29d) 696; (30d) 720; (31d) 744.						Mean for month =

CAM

TIDES: HOURLY HEIGHTS

Station: _____ Year: _____

Lat. _____ Long. _____

Time Meridian: _____ Height datum is _____

Month and Day	mo.	d.	d.	d.	d.	d.	d.	d.	d.	Horizontal Sum
Day of Series										
Hour	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet
0
1
2
3
4
5
6
7
8
9
10
11
Noon
13
14
15
16
17
18
19
20
21
22
23
Sum

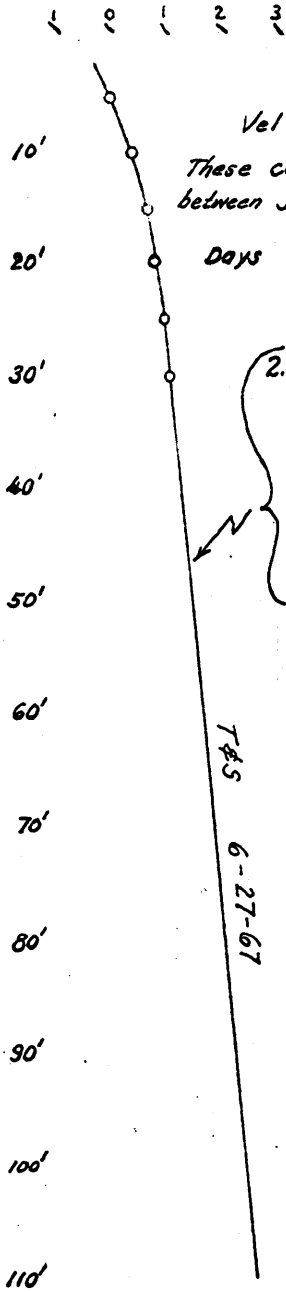
Sum for _____ = Divisor = (28d) 672; (29d) 696; (30d) 720; (31d) 744. Mean for month = _____

Tabulated by _____ Date _____ Summed by _____ Date _____

H-8950
WH-10-2-67

LAUNCH # 2

Fathometer # 213



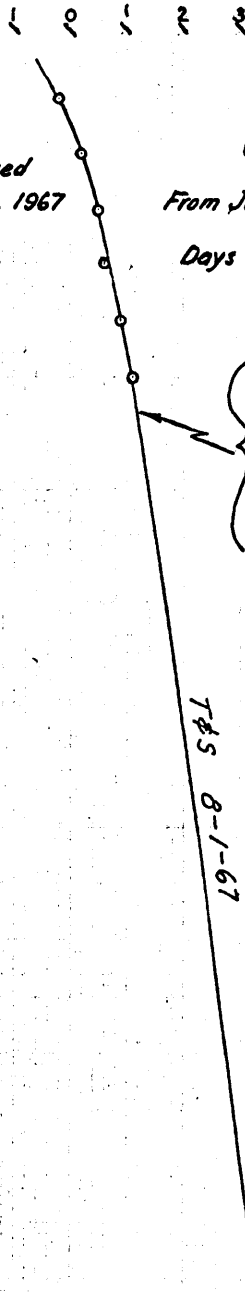
Vel Tab Ind ①

These corrections are to be used
between JUNE 27, 1967 & JULY 15, 1967

Days 187, 188

2.0 - 3.0	-0.2
6.0	0.0
9.0	+0.2
12.0	+0.4
15.0	+0.6
20.0	+0.8
30.0	+1.0
40.0	+1.2
50.0	+1.4
60.0	+1.6
70.0	+1.8
80.0	+2.0
90.0	+2.2
100.0	+2.4
110.0	+2.6

T#5 6-27-67



Vel Tab Ind ②

From July 16, 1967 Thru Aug. 15, 1967

Days 202, 203, 204, 205, 206,
207, 208, 214, 215, 216,
218, 219, 221,

2.0 - 4.0	-0.4
6.0	-0.2
9.0	0.0
12.0	+0.2
15.0	+0.4
21.0	+0.6
25.0	+0.8
30.0	+1.0
37.0	+1.2
45.0	+1.4
50.0	+1.6
57.0	+1.8
65.0	+2.0
73.0	+2.2
80.0	+2.4
88.0	+2.6
95.0	+2.8
103.0	+3.0
110.0	+3.2

T#5 8-1-67

T#5 9-19-67

Vel Tab Ind. ③

From Aug 16, 1967 Thru Oct 11, 1967

Days 235, 236, 238, 241, 263,
273, 274.

2.0 - 3.0	-0.6
5.0	-0.4
7.0	-0.2
9.0	0.0
11.0	+0.2
14.0	+0.4
18.0	+0.6
22.0	+0.8
27.0	+1.0
33.0	+1.2
38.0	+1.4
45.0	+1.6
50.0	+1.8
56.0	+2.0
63.0	+2.2
69.0	+2.4
75.0	+2.6
81.0	+2.8
88.0	+3.0
93.0	+3.2
99.0	+3.4
105.0	+3.6
110.0	+3.8

Tab Ind ⑬

0.0 Pole & Leadline

Camp by G.F.T.
by W.W.F.

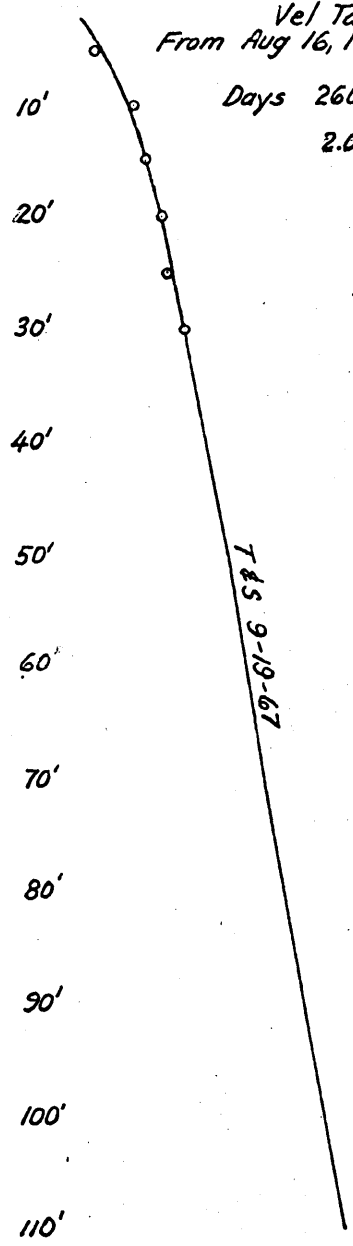
H-8950
WH-10-2-67

Launch #1 Fathometer #251

1 0 1 2 3

Vel Tab Ind. ④
From Aug 16, 1967 Thru Oct 11, 1967

Days 260, 261, 262.



2.0 - 3.0	-0.6
5.0	-0.4
7.0	-0.2
9.0	+0.0
11.0	+0.2
14.0	+0.4
18.0	+0.6
22.0	+0.8
28.0	+1.0
33.0	+1.2
39.0	+1.4
45.0	+1.6
50.0	+1.8
56.0	+2.0
62.0	+2.2
70.0	+2.4
75.0	+2.6
81.0	+2.8
88.0	+3.0
94.0	+3.2
100.0	+3.4
105.0	+3.6
110.0	+3.8

Comp by G.F.T.
✓ by W.W.F.

ELECTRONIC CONTROL PARAMETERS

1. Project # OPR-474 2. Reg. # H-8950 3. Field # WH-10-2-67
 4. Type of Control: Hi Fix (Hi-Fix, Raydist, EPI, etc.)
 5. Frequency 1799.6 KHz (for conversion of electronic lanes to meters)
 6. Mode of Operation (check one):

Range-Range

Range One (R₁)
 Station I.D. _____
 Range Two (R₂)
 Station I.D. _____

Range-Visual

Lat. _____ ° _____ ' _____ "
 Long. _____ ° _____ ' _____ "
 Lat. _____ ° _____ ' _____ "
 Long. _____ ° _____ ' _____ "

Hyperbolic (3-station)

Slave One
 Station I.D. LLOYD
 Master
 Station I.D. YACHT
 Slave Two
 Station I.D. STRAT

Hyper-Visual

Lat. 40 ° 56 ' 41.72 "
 Long. 73 ° 29 ' 15.26 "
 Lat. 41 ° 05 ' 56.91 "
 Long. 73 ° 22 ' 01.02 "
 Lat. 41 ° 09 ' 07.17 "
 Long. 73 ° 06 ' 12.27 "

7. Location of Survey:

Range-Range

Imagine an observer is standing at R₁ Station and looking directly at R₂ (check one):

Survey area is to observer's Right A=0

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 Day	To Time Day	Position Numbers (inclusive)
_____	_____	_____	_____ to _____
_____	_____	_____	_____ to _____
_____	_____	_____	_____ to _____

9. Remarks: to be used to plot Hyperbolic Control Areas

ATLANTIC MARINE CENTER

PROJECTION PARAMETERS

POLYCONIC OR MODIFIED TRANSVERSE MERCATOR

- 1. Project No. 474
- 2. Reg. No. H-8950
- 3. Field No. WH-10-2-67
- 4. Requested By Verif. Br.
- 5. Ship or Office Office
- 6. Date Required AYC

- 7. Polyconic Modified Transverse Mercator
- 8. Central Meridian of Projection 73° 13' 30"

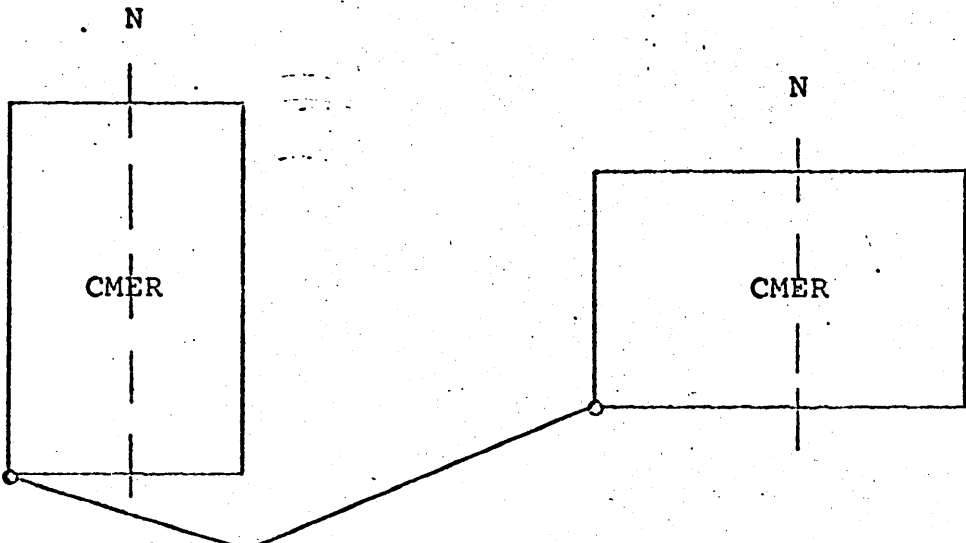
9. Survey Scale: 1: 10,000

10. Size of Sheet (check one):

- 36 x 54 36 x 60 Other Specify _____

11. Sheet Orientation (check one):

- NYX = 1 NYX = 0



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

Latitude 40° 53' 03"

Longitude 73° 19' 13"

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

14. Material Desired: Tracing Paper Mylar

Smooth Sheet Other Specify _____

15. Remarks: To be used for projection for Mylar control sheet

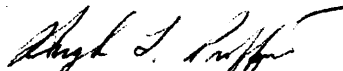
Norfolk, Va.
Aug. 5, 1969

AMC PLOTTER NOTE TO EDAT
SURVEY H-8950

Enclosed is a computer printout of what/~~is~~ ^{are} presumably the positions used by Ship Whiting for plotting the visual fixes on this survey.

Please furnish this office an overlay of these control points in order that we may check them against the T-sheets. Also, return the printout to us so we may submit it as part of the survey.

A priority is requested on this ~~XXXXXXXX~~ overlay as we are now verifying the survey.


Hugh L. Proffitt
Chief, Hydro Br., AMC

VERIFIER: Various

Norfolk, Va.
March 17, 1970

AMC PLOTTER NOTE TO EDAT
SURVEY. H-8950

overlays
The preliminary printouts for this survey have been reviewed and we have found several instances where major revisions will have to be made to the field data before you can proceed with the plot. For the present we plan to go ahead with the position and control to eliminate gross errors before proceeding to the sounding overlay.

We have checked the signal overlay against the control T-sheets and find that revisions will have to be made to the positions of about 25 stations. In addition, about five stations will have to be added to the list. These corrections and additions are shown on the signal printout in red pencil.

Furthermore, there was a duplication of signal numbers and you will find quite a few instances in the printout where signal 011 has been changed to 022. All of these positions will have to be recomputed.

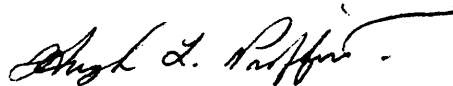
There are also 13 positions listed in red in the printout which were not logged by the field. These positions should be computed and incorporated into the survey.

Positions 2713 thru 2777 were logged incorrectly as Day 219. These should be changed to Day 221 as shown in red on the position printout.

Positions 3109 thru 3216 are to be destroyed. This work was rejected in the field but they apparently failed to destroy the tape. The work was rerun on positions 3453 to 3459 and 3761 to 3892.

We were able to find these "busts" without a position overlay and there will undoubtedly be others detected when one is furnished.

It is requested that you furnish control and position overlays incorporating the above changes. After these overlays have been verified we will be in a better position to detail the many changes that will be needed for the sounding overlay.



Hugh L. Proffitt
Chief, Hydro Branch, AMC

UNITED STATES GOVERNMENT

Memorandum

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

TO : CDR Wayne L. Mobley
Chief, Processing Division - AMC

DATE: March 17, 1970

In reply refer to: CFS 32

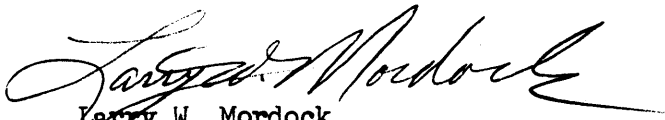
FROM : Chief, EDAT - PMC

SUBJECT: As per our telcon on 3/17/70 - requested printouts.

Enclosed are the position and sounding printouts for 8950 and 9093.

I have note that LT Wallace had trouble with sounding cards on 9093.

Mr. Proffitt indicated in a telcon on 3/11/70 that an entire new tide tape - one that can be re-applied to the entire survey is being logged for 8950. We may have that tape by now. Also, missing velocity and tc/ti tapes are being logged by his office.


Larry W. Mordock
LT, USESSA



BUY U.S. SAVINGS BONDS REGULARLY ON THE PAYROLL SAVINGS PLAN

VERIFIER: Harry R. Smith

Norfolk, Va.
June 1, 1970

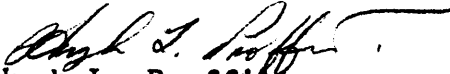
AMC PLOTTER NOTE TO EDAT
SURVEY H-8950

This office has completed the verification of the preliminary position overlay and, we find there ~~xxxx~~ are about 240 positional corrections to be made. They are marked in the position print-out in red pencil.

There is also one control station change needed. It is station 936 (WHO) and the corrected position is shown on the signal print-out in blue.

Since the position cards for this survey were apparently computed before radical changes or revisions were made in the positions of the control stations, numerous positions were marked "recompute" where no changes were indicated in the fixes or observed sextant angles. In other words, they were computed on incorrectly located signals.

After the position of signal 936 has been corrected and the indicated positional changes have been made, please furnish us a new position overlay. We are hesitant to go ahead with the sounding overlay until it has been checked.


Hugh L. Proffitt
Chief, Hydro Branch, AMC

VERIFIER: Harry Smith
Stephan Stanley

Norfolk, Va.
July 29, 1970

AMC PLOTTER NOTE TO EDAT
SURVEY H-8950

This office has completed the verification of the preliminary position overlay and we are returning the position card printout with applicable changes marked in red pencil.

We are also returning the sounding printout with changes marked in red. These changes consist of the following:

- (1) Soundings numbered 255001 to 264000, 254800 to 263803 and 269900 to 270900 were logged one digit too far to the left thus making the soundings too deep. This condition should be corrected. However, this should account for the troubles you experienced before when the velocity tables did not extend deep enough.
- (2) Soundings numbered 271300 to 277700 are incorrectly shown as DAY 219. They should be changed to DAY 221

Since the sounding cards were cut before radical changes were made in the positions of many of the visual control stations, you may find it necessary to make new sounding cards. We are enclosing a copy of our "NOTE" of 3/17/70 to remind you of the extent of these changes.

The tide problem you experienced on the sounding printout was undoubtedly caused by soundings plotting in the wrong tide zones because of incorrectly scaled visual signals. In order to avoid further tide problems this office recompiled the tide corrections and logged them to be applied by time and Julian Day. The tape and printout are being enclosed in this shipment.

When the problems listed above have been resolved, please furnish us a sounding overlay for this survey.


Hugh L. Proffitt
Chief, Verification Br., AMC

AMC PLOTTER NOTE TO EDAT
SURVEY H-8950

During the verification of the sounding overlay, additional changes and corrections were found to be needed before a smooth sheet can be ~~xxxxxx~~ requested. We are returning the position and sounding card printouts with needed changes marked in red pencil. Most of the major changes and the reasons for making them are listed below.

- (1) Please destroy soundings on positions 3110 thru 3216 (Day 238). The positions were destroyed as requested in our "Note" of March 17, 1970 but the sounding cards were not removed from the card file. This resulted in hundreds of soundings being
/rejected
interspersed with later hydrography.
- (2) A large number of sounding cards were not recomputed after changes were made to the position cards resulting in many misplaced soundings. These sounding cards are to be recomputed as indicated on the sounding printout.
- (3) There are 37 positions marked for change on the position printout. Because of simultaneous visual and electronic fixes there are duplicate positions for numbers 96, 120, 136, 146, 169, 184, 193, 208, ~~217~~ 217, 231, 240, 252, 263, 278, & 286. In each instance, one position and its accompanying sounding have been marked for destruction on position and sounding card printouts.

Pseudo positions, needed to show changes in courses, numbers 2496A, ~~2648A~~ 2648A, 2651A, 3272A, 3749A and 3750A should be computed and inserted. The positions of affected soundings should also be recomputed. These and the remaining positional changes are marked in red.
- (4) Because of rescanning 78 soundings have been marked for change on the sounding printout.
- (5) Due to radical disagreement of soundings on Days 260, 261 and 262, hourly heights of tides from Stoney Brook Harbor gage were requested and received from Rockville office. These new tide correctors have been entered on the sounding printout and are to be used on all soundings for these three days. An operating logger was not available for making a tide tape.
- (6) As a result of the above changes and corrections it will be necessary for you to furnish a new sounding overlay showing position dots and a complete new sounding edit,


Hugh L. Proffitt
Chief, Verification Br., AMC

Verifier: G.F. Trefethen

September 12, 1972

AMC PLOTTER NOTE
TO EDAT H-8950
(WH-10-2-67)

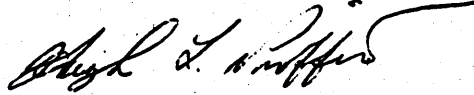
This office has completed verification of the preliminary sounding overlay for this survey and is returning the sounding and position card printouts. All changes are marked in red pencil in the margins.

The following fixes were destroyed because of poor fixes and check angles. Some of these were DP's on rocks. These rocks were then taken from the T-sheets. Some were ^{on} hydro lines; these lines were covered by other hydrography. Position numbers to be destroyed are:

3267	4225	4272	4307
3434	4228	4283	4310
4216	4250	4286	
4224	4258	4293	

All other changes are routine.

After all of the above changes have been made, please furnish this office with a smooth sheet of this survey.


Hugh L. Proffitt
Chief, Verification Br., AMC

ATLANTIC MARINE CENTER
APPROVAL SHEET
FOR
AUTOMATED SURVEY H-8950

Final

- A. ~~XXX~~ revisions and additions made on the smooth sheet ~~printouts~~ 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: Mar. 21, 1973

Signed:

Daryl J. Puffer

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: MAR 22, 1973

Signed:

Karl Wm Kremerger, LCDR NOAA

Title: Chief, Processing Division

AMC VERIFICATION NOTES
H-8950

GENERAL

This appears to be an excellent basic survey. Soundings are in good agreement at crossings and depth curves follow normal patterns. However, this is one of the original automated surveys and many problems were experienced and resolved during the verification process.

The discrepancies found and the methods used to resolve them may be found in the enclosed "AMC Plotter Notes to EDAT", and by the many hand corrections on the various repeat overlays and print-outs needed to complete the survey.

OVERLAYS

Two final Mylar overlays accompany the smooth sheet. One shows the position numbers and the other the Hi-Fix hyperbolic lattice.

FATHOMETER CORRECTIONS

Fathometer velocity corrections were compiled and logged by this office for all work done on Project OPR-474 during the 1967 field season. See the report titled "Corrections to Echo Soundings" accompanying this survey.

TIDE CORRECTIONS

Tide corrections were compiled and logged by this office. See "Plotter Notes" July 29, 1970 and March 8, 1972, and the Verification Branch endorsement on the field tide note.


Hugh L. Proffitt
Chief, Verification Br.

Norfolk, Va.
Mar. 21, 1973

GEOGRAPHIC NAMES

Survey No. H-8950

Name on Survey	Source										
	A	B	C	D	E	F	G	H	K		
LONG BEACH											1
LONG ISLAND SOUND											2
MAKAMAH BEACH											3
NISSEQUOGUE RIVER											4
PORPOISE CHANNEL											5
SAN REMO											6
SHORT BEACH											7
SMITHTOWN BAY											8
STONY BROOK											9
STONY BROOK HARBOR											10
SUNKEN MEADOW STATE PARK											11
WEST MEADOW BEACH											12
WEST MEADOW CREEK											13
											14
											15
											16
											17
											18
											19
											20
											21
											22
											23
											24
											25
											26
											27

PREPARED BY CARTOGRAPHER

Chas. P. Harrington

STAFF GEOGRAPHER (ACTING)

Aug 14, 1973

HYDROGRAPHIC SURVEY STATISTICS
 HYDROGRAPHIC SURVEY NO. H-8950

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

RECORD DESCRIPTION		AMOUNT	RECORD DESCRIPTION		AMOUNT	
SMOOTH SHEET & PNO		1	BOAT SHEETS A&B		2	
DESCRIPTIVE REPORT		1	OVERLAYS		10	
DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS / SOURCE DOCUMENTS
ENVELOPES						
CARRIERS	1		XX			
VOLUMES	31					
BOXES			5			

T-SHEET PRINTS (LIST)

~~1-19290, 2-19290, 3-19290, 4-19290, 5-19290~~

SPECIAL REPORTS (LIST) **1 Overlay, Hyperbolic Lattice (Mylar)**

See Par. Q of the descriptive report

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				4207
POSITIONS CHECKED	0	500		
POSITIONS REVISED		240		
DEPTH SOUNDINGS REVISED		50		
DEPTH SOUNDINGS ERRONEOUSLY SPACED				
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED		27		
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS		48		
JUNCTIONS		1		
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		25		
SPECIAL ADJUSTMENTS				
ALL OTHER WORK	222	351		
TOTALS	222	425		
PRE-VERIFICATION BY G F Trefethen	BEGINNING DATE 8/5/69	ENDING DATE 2/5/70		
VERIFICATION BY G.F. Trefethen H.R. Smith	BEGINNING DATE 8/5/69	ENDING DATE 3/15/73		
REVIEW BY	BEGINNING DATE	ENDING DATE		

*See plotter notes to EDAT

DESCRIPTIVE REPORT DATA RECORD		
PART I SMOOTH SHEET PREPARATION		DATE
		PREPARED BY/OPERATOR
A.	PLOTTER OPERATOR	EDAT-PMC
B.	DISTORTION MARKS PLOTTED	EDAT-PMC
C.	PROJECTION INTERSECTIONS PLOTTED	EDAT-PMC
D.	POINTS OF ELECTRONIC CONTROL ARCS PLOTTED	
E.	OVERLAYS PREPARED BY	EDAT-PMC
1.	POSITION NUMBER	EDAT-PMC
2.	EXCESS SOUNDINGS	
3.	PRELIMINARY SMOOTH PLOT	
4.	LIST OTHERS	
	A.	
	B.	
F.	SOUNDING SELECTION BY	EDAT-PMC
G.	PLOTTER INPUT PREPARED	EDAT-PMC
H.	CHECKED	
I.	DESCRIPTIVE REPORT ADDENDUMS	G.F.Trefethen 2/13/73
PART II SMOOTH SHEET COMPLETION		DATE
		CARTOGRAPHER
A.	DISTORTION SCALE TICKS IDENTIFIED BY NOTE	G.F.Trefethen 2/13/73
B.	PROJECTION INTERSECTIONS VERIFIED BY	G.F.Trefethen 2/13/73
C.	PROJECTION LINES RULED BY	G.F.Trefethen 2/13/73
D.	ELECTRONIC CONTROL ARCS RULED AND LOCATION VERIFIED	EDP-AMC 3/1/73
E.	OVERLAYS COMPLETED BY	
1.	POSITION NUMBER LEADERS ADDED	G.F.Trefethen 3/12/73
2.	EXCESS SOUNDING OVERLAY COMPARED	G.F.Trefethen 3/8/72
3.	PRELIMINARY SMOOTH PLOTS COMPARED	G.F.Trefethen 3/8/72
4.	OTHERS UTILIZED	
	A.	
	B.	
F.	DESCRIPTIVE REPORT ADDENDUM	G.F.Trefethen 3/14/73
G.	CONTROL STATIONS VERIFIED	H.R.Smith 6/1/70
H.	POSITIONS MANUALLY PLOTTED	H.R.Smith 7/29/70
I.	MANUAL PLOT VERIFIED	G.F.Trefethen 8/27/71
J.	SHORELINE APPLIED	G.F.Trefethen 2/14/73
K.	BOTTOM CHARACTERISTICS ADDED	G.F.Trefethen 2/27/73
L.	NOTES AND DEPTH CURVES ADDED	G.F.Trefethen 3/2/73

FORM C&GS-946A
(REV. 11-65)
PREF. BY HYDROGRAPHIC
MANUAL, 0-94)

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

VERIFIER'S REPORT
HYDROGRAPHIC SURVEY, H-8950

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.

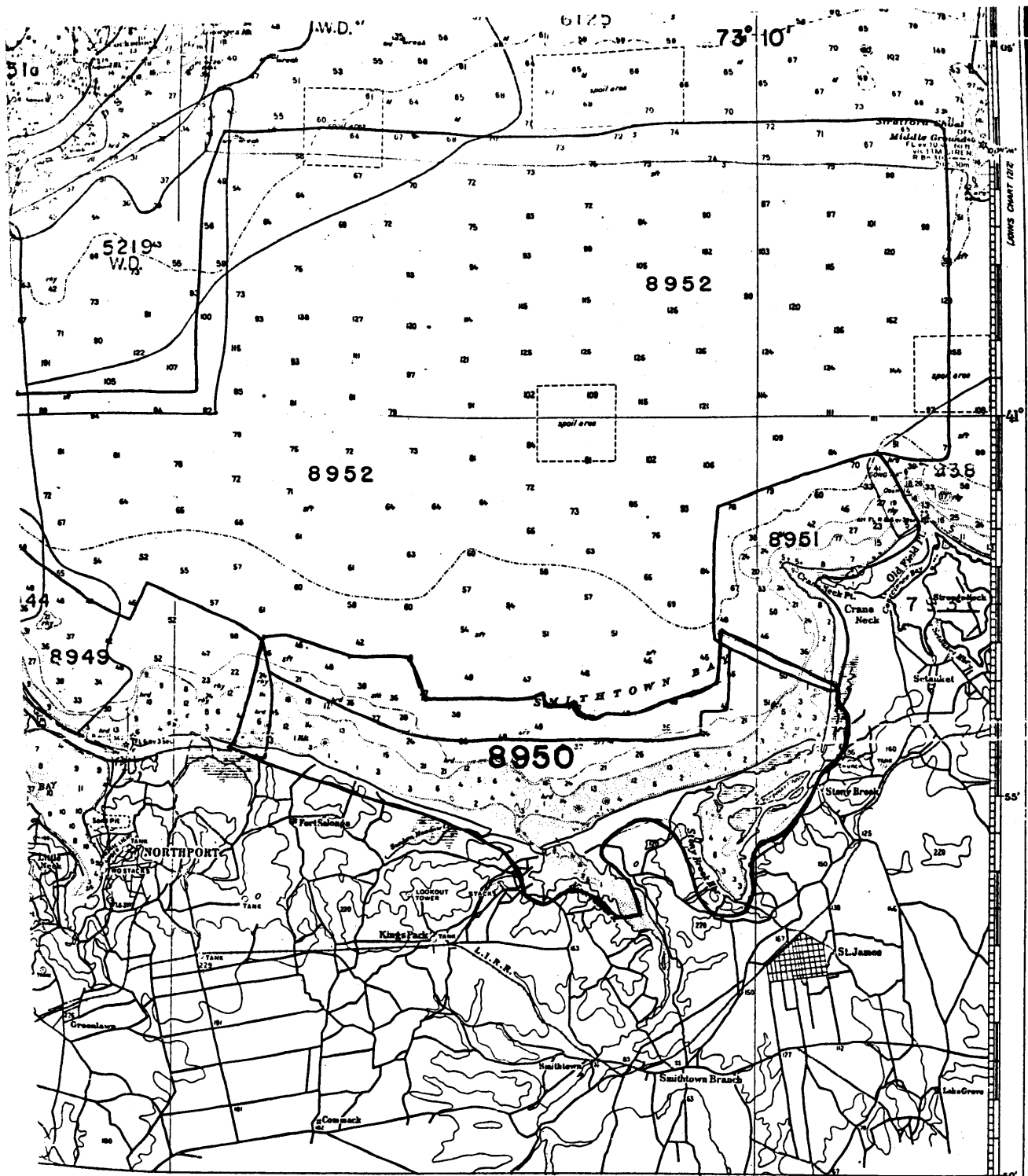
CL - Check List Items: should be checked as having been completed during the verification processes.

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>Note: 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 SUPERSEDED.</p>		
<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>Part IV - VOLUMES</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>		
<p>Part II - SHORELINE AND SIGNALS</p> <p>4. Source of shoreline signals Remarks Required: -- List all surveys T-12390, 92, 93, 94, 95 a. Give earliest and latest dates of photographs b. Field inspection date June 1966 c. Field Edit date Oct 1967 d. Reviewed-Unreviewed Oct 1969 The transfer of contemporary topographic information was carefully examined and reconciled with the hydrography. Remarks Required: -- Discuss remaining differences</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>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 unlocated. See verifier's notes</p>	X	*	<p>Part V - PROTRACTING</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>	X	
<p>Part III - JUNCTIONS</p> <p>Note: Make a cursory comparison preliminary to inking soundings in area of overlap.</p> <p>8. All junctions of contemporary or overlapping sheets were transferred in colored ink and original curves were made identical. Remarks Required: -- None</p>			<p>14. The protracting and plotting of all unsatisfactory crossings were verified. Remarks Required: -- None</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		<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>	X	

Fig. 20 (cont'd.)
Form 946 A (back of form)

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 reploting or adjustments.		X		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.		X	
17. The protractor has been checked within the last three months. Remarks Required: -- Date of check, type of protractor and number.		X		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 VI - SOUNDINGS				Part IX - BOATSHEET			
18. All soundings are clear and legible, and critical soundings are a little larger than adjacent soundings. Remarks Required: -- None		X		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.		X		29. Heights of rocks awash were correctly reduced and compared with topographic information. Remarks Required: -- Note excessive conflicts with topographic information.		X	
20. The spacing of soundings as recorded in the records was closely followed; Remarks Required: -- None		X		Part X - GENERAL			
21. The scanning, reduction, spacing, plotting of questionable soundings have been verified. Remarks Required: -- None		X		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	
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.		X		31. Unnecessary pencil notes have been removed from the sheet. Remarks Required: -- None		X	
Part VII - CURVES				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	
23. The depth curves have been inspected before inking. Remarks Required: -- By whom was the pencilled curves inspected. H.L.P.		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		X		Part XI - NOTES TO THE REVIEWER			
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.		X		34. Unresolved discrepancies and questionable soundings.		X	
				35. Notation of discrepancies with photogrammetric survey inserted in report of unreviewed photogrammetric survey or on copy.		X	
				36. Supplemental information.			X
Verified by						Date	
G.F. Trefethen						3/15/73	



Hydrographic Surveys

Chart - 1213

Number	Hydrographer	Scale	Date	Number	Hydrographer	Scale	Date
5222b-W.D.	H.A. Cotton	10,000	1933	7927	J. Laskowski	5,000	1951
5223	C.B. Cronell	10,000	1932	FE.No. 1-1963	N.E. Taylor	20,000	1957
5333	I.E. Hittensburg	10,000	1933	FE.No. 2-1960	D.G. Rushford	20,000	1960
5333 Adv.	(3 areas)	10,000	1933	FE.No. 1-1963	E.K. McCaffrey		
5402a							

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-8950

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
117SC	4-18-73	W. G. Chandler	Full Part Before After Verification ^{Before} Review Inspection Signed Via Drawing No. <i>Exam. for critical corr. only</i>
117SC H	4-19-73	BL Pollock	Full Part Before After Verification ^{BEFORE} Review Inspection Signed Via Drawing No. <i>EXAM FOR CRITICAL CORRECTIONS</i>
1213	6-1-73	W. Chandler	Full Part Before After Verification ^{Before} Review Inspection Signed Via Drawing No. <i>Exam. for critical corr only</i>
117 SC H	10-17-73	R. G. Winkfield	Full Part Before After Verification ^{BEFORE} Review Inspection Signed Via Drawing No. <i>CATEGORY ONE (NO FURTHER PROCESSING)</i>
117 SC Page G	10-17-73	R. G. Winkfield	Full Part Before After Verification ^{BEFORE} Review Inspection Signed Via Drawing No. <i>CATEGORY ONE (NO FURTHER PROCESSING PLANNED)</i>
1213	10-17-73	R. G. Winkfield	Full Part Before After Verification ^{BEFORE} Review Inspection Signed Via Drawing No. <i>Category one (No further processing planned)</i>
12364	4-17-90	John Rine	Full Part Before After Verification Review Inspection Signed Via Drawing No. <i>26, Category One, Adequately applied</i>
12364	8-13-90	W. G. Chandler	Full Part Before After Verification Review Inspection Signed Via Drawing No. <i>28 Reexamined, no further application necessary.</i>
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.