8821

Diag. Cht. No. 1209-3.

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. WH-10-2-64 *Office No.* H-8821

LOCALITY

State Massachusetts

General locality Coast of Massachusetts

Locality Nantucket Sound

1964

CHIEF OF PARTY

H.R. Lippold, Jr. CDR., USC&GS

LIBRARY & ARCHIVES

DATE FEB [illegible] 1966

USCOMM-DC 5087

FORM C&GS-537
(8-15-59)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

REGISTER NO.

H-8821

HYDROGRAPHIC TITLE SHEET

FIELD NO.

WH-10-2-64

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 Massachusetts

General locality Coast of Massachusetts

Locality Nantucket Sound

Scale 1:10,000 Date of survey 25 Jun - 21 Sep 1964

Instructions dated 11 March 1963 Project No. OPR-369

Vessel WHITING

Chief of party H. R. Lippold Jr. CDR, USC&GS

Surveyed by Ship's Officers

Soundings taken by echo sounder, [redacted], pole

Graphic record scaled by Ship's Personnel

Graphic record checked by Ship's Personnel

Protracted by Harry R. Smith (Norfolk Processing Branch)

Soundings penciled by Harry R. Smith " " "

Soundings in [redacted] feet at MLW [redacted]

REMARKS:

USCOMM-DC 8272-P62

C. Soundings Vessels

Soundings were taken using launch II of the WHITING and a flat-bottomed skiff powered by outboard. Lower case day-letters were assigned as follows: launch II- red; skiff- green; The WHITING took 29 bottom samples indicated by violet capital day-letters.

D. Sounding Equipment

Depths recorded aboard launchII were taken using a Ratheon DE-723 fathometer, serial number 251, until 7 Sept. when another unit having serial number 249 was installed. The initial trace setting was 1 foot, corrections to fathometer soundings were derived from bar checks averaged over several selected time intervals during the season. Pole soundings were taken from the skiff in shallow areas.

E. Smooth Sheet

The plotting of the smooth sheet is to be done by the Norfolk processing office.

F. Control

Hydrography was controlled both visually using three-point fixes and electronically, using HIRAN. The shoreline and inlets were covered visually, all other areas electronically. Visual signals include triangulation landmarks plotted on the boatsheet and photogrammetric signals pricked through from manuscripts T-10641,T-10642, and T-10643. A photogrammetrist, Mr. Bob Tibbetts of party 6420, was assigned to the project by Washington. HIRAN stations were located ashore over triangulation marks GAMMON,1954, and DEAD NECK,1963. Corrections to electronic distances have been abstracted and are given in Table II. These corrections are calculated from values obtained at known positions and positions determined visually sighting only on triangulation marks.

G. Shoreline

The shoreline was transferred from blueline manuscript T-10641,T-10642, and T-10643.

DESCRIPTIVE REPORT TO ACCOMPANY
HYDROGRAPHIC SURVEY H-8821
FIELD No. WH-10-2-64

Scale 1;10,000
Ship WHITING

H.R.Lippold,Jr.Comdg.
1964

Surveyed by:

CDR H. R. Lippold, Jr.
LTCDR R. M. Buffington
LT James Collins
LT L. E. Pickens
LTJG D. G. Hickerson
LTJG J. D. Boon III
ENS J. L. Gammon

A. Project

Authorization for this survey is given in revised instructions for project OPR-369 dated 11 March, 1963, amended 19 June,1963, and supplemented 7 April,1964.

B. Area Surveyed

The area surveyed is included between Lats. 41°25.0'N to 41°29.0'N and Longs. 70°24.5'W to 70°34.5'W. Soundings were taken along the northern coast of Martha's Vinyard and in all navigatable inlets covered by the sheet. Hydrography was begun 25 June and ended 21 Sept.,1964, upon completion of the project survey.

The adjoining survey is H-8820 to the south. Prior surveys are:

Registry No.	Date	Scale
H-1829	1887	1:10,000
H-1947	1889	1:20,000
H-2210	1894	1:10,000
H-4898	1928	1:10,000
H-5314WD	1933	1:20,000

H. Crosslines

Crosslines amounted to about 10 per cent of the total sounding distance run. Good agreement was obtained in all areas, soundings generally agreeing within 1 foot.

I. Junctions

The junction with H-8820 to the south is very good, soundings agreeing within 1 foot.

J. Comparison with Prior Surveys

Pre-survey review items checked for this sheet include the following:

1. There is no entry to Farm Pond from Harts Pond. The only entrance to Harts Pond is at Lat.41°26.38'N, Long. 70°33.20'W. The entrance is protected by jetties and will admit medium-sized boats.
2. There are two entrances to Sengekontacket Pond, one at Lat.41°25.95'N, Long.70°33.40'W and one at Lat.41° 24.95'N, Long.70°32.95'W. Both entrances are deep enough to permit the entry of small boats; However, there is no further entry into Trapps Pond.
3. Pole soundings were taken in Harts Pond and Sengekontacket Pond using the skiff.

Prior surveys include three conducted in the 1800's and one dated 1928(excluding a limited wire drag survey done in 1933). The old surveys agree with the present one in many areas although shoals such as Squash Meadow northeast of Oak Bluffs have changed somewhat. The 1928(H-4898,1:10,000) survey is of the Oak Bluffs vicinity and the most significant change noted is that of the entrance and eastern side of Oak Bluffs Harbor, the result of dredging in 1961. This survey also shows the old entrance to Harts Pond at Lat.41°26.75'N, Long.70° 33.20'W which is now closed although portions of the rock jetties remain and are shown on the boatsheet.

K. Comparison with the Chart

A comparison was made with C&GS Chart 346. In general, charted soundings agree within 1 or 2 feet of those of the present survey.

(K cont)
The main points noted in the comparison are as follows:

1. Squash Meadow Shoal contains two soundings of 5 and 9 feet according to the chart. Lines run at 50 meter spacing failed to confirm these. Minor differences occurred elsewhere on the shoal.
2. Numerous rocks shown on the extension of Middle Flats Shoal north of Edgartown were searched for using sounding lines spaced at 10 meter intervals. Some confirmation of these was obtained from the fathograms; However, differences in depth were slight and identification uncertain, Although swimmers looked for the rocks in relatively shallow water, none were seen. It is suggested that better results might be obtained by wire drag or diving operations.
3. A rock awash at low tide was located at Lat.41°25.26'N Long.70°27.00'W. It is marked by a red and black banded post placed there by the Edgartown Harbormaster.

L. Adequacy of Survey

This survey is complete and adequate with the possible exception of the suggestion made in section K,2. It should supercede all prior surveys.

M. Aids to Navigation

All aids to navigation were found as indicated in Lists of Lights,Vol I,1963, and on chart 346. Determined positions agree closely with those given. No other aids were noted with the exception of the red and black banded post mentioned in section K,3.

N. Tides

The portable automatic tide gage used was installed in Edgartown Harbor at Lat.41°23.20'N, Long. 70°30.19'W. The MLW value on the tide staff was 2.2 feet. The time meridian used is 60°W.

O. Other

Settlement and squat corrections are presented in Table III.

P. Statistics

Vessel	Number of positions	Nautical Miles Sounding lines
launch II	3735	634.1
skiff	250	21.2
ship	29	0.0
total	4014	655.3

Total area surveyed: 23.8 Sq. Naut. Mi.
Number of bottom samples: 37

Respectfully submitted,

John D. Boon III
LTJG, USC&GS

NORFOLK HYDROGRAPHIC PROCESSING BRANCH
FLOATING AIDS TO NAVIGATION
H-8821

BUOY	LATITUDE	LONGITUDE	DEPTH	POS. NO.	DATE
NANTUCKET SD. MAIN CHANNEL					
East Chop Flats Bell buoy 23	41-28.43'	70-33.49'	24'	48g	7/ 9/64
West L'td. Buoy MO(A)W	29.40	34.20	79	25e	7/ 2/64
East Chop Shoal Buoy 23A	28.38	34.13	17	73d	7/ 1/64
Squash Meadow East end Bell Buoy 19	27.32	30.09	26	177j	7/11/64
Squash Meadow West End Buoy 21	27.87	32.10	34	52n	7/21/64
Cape Poge Flat Bell Buoy 15	26.57	26.05	22	88w	8/18/64
OAK BLUFF HARBOR					
Rhode I. Rock Buoy 2	28.04	33.49	16	100d	7/ 1/64
Vineyard Haven Obstr. Buoy	27.63	33.14	17	117d	7/ 1/ 64
Lone Rock Buoy 1	27.30	33.05	15	204c	6/27/64
EDGARTOWN HARBOR					
Outer Flats Bell Buoy 2	25.33	29.42	28	220f	7/ 8/64
Outer Flats Bell Buoy 17	26.22	29.49	25	1q	7/28/64
Channel Buoy 1	25.37	28.38	23	193j	7/11/64
MUSKEGET CHAN.					
Hawes Shoal Buoy 13	25.84	24.74	27	129v	8/10/64

Aim 035
Ann 055
AVA 080
ART 078
BAR 007
BAY 009
BET 028
CAN 105
COY 169
CUT 188
Din 135
Dow 109
EEK 224
EEL 224
Fit 238
Fog 263
Gob 360
Gum 385
Him 335
Hog 363
Hop 366
IDE 312
INK 354
JAB 400
JAN 405
Jet 428
Key
Kid 431
Liz 439
Mow 569
NED 521
NEY 529
Old 641
Poq 663
Pow 669
Que 682
Row 769
SPI 763
Sue 782
Tin 835
use 872
Vet 828
wit 938
Zoo 966

NORFOLK HYDROGRAPHIC PROCESSING BRANCH
LIST OF SIGNALS
H-8821

TRIANGUALTION STATIONS

HOP EAST CHOP L.H., 1904-40
JET JETTY LIGHT, RED, 1928-49
POG CAPE POGE L.H., 1961
SPI UNION CHAPEL, SPIRE, 1904-36

PHOTO-HYDRO STATIONS SOURCE T-10641

AIM	ANN	BAR	GOB	HIM	IDE	JAB	KID	LIZ	MOW	NED
OLD	POW	QUE	ROW	SUE	TIN	USE	VET	WIT	ZOO	

SOURCE T-10642

AVA	BET	CAN	DIN	EEL	FOG

SOURCE T-10643

ART	BAY	COY	DOW	EEK	FIT	GUM	HOG	INK	JAN	NEY

HYDROGRAPHIC STATIONS

CUT Vol. 22, pg. 7
Vol. 23, pgs. 6&7

TABLE I

VELOCITY CORR'N

LAUNCH 2 OPR-369 1964

Depth(ft)	Corr'n(ft)	Interval
<5.5	-0.6	
5.5-6.1	-0.4	
6.2-7.4	-0.2	
7.5-9.7	0.0	9 June-19 June, 1964
9.8-13.6	∠0.2	
13.7-19.5	∠0.4	
19.6-28.0	∠0.6	
28.1-42.5	∠0.8	
>42.5	∠1.0	

< 5.5	-0.4	Table 1
5.5-6.2	-0.2	
6.3-8.0	0.0	
8.1-11.0	∠0.2	
11.1-16.0	∠0.4	20 June-13 July 1964
16.1-24.2	∠0.6	
24.3-31.6	∠0.8	
31.7-38.3	∠1.0	
38.4-44.4	∠1.2	
44.5-50.1	∠1.4	
50.2-55.4	∠1.6	
55.5-60.3	∠1.8	
60.4-65.0	∠2.0	
65.1-69.5	∠2.2	
69.6-73.8	∠2.4	
73.9-79.9	∠2.6	
80.0-87.3	∠2.8	

TABLE I (CONT)

VELOCITY CORR'N

LAUNCH 2 OPR-369 1964

Depth(ft.)	Corr'n(ft.)	Interval
<5.0	-0.8	Table 2
5.0-5.4	-0.6	
5.5-6.0	-0.4	
6.1-7.2	-0.2	
7.3-9.0	-0.0	
9.1-11.5	+0.2	
11.6-14.6	+0.4	
14.7-18.6	+0.6	14 July-7 Sept.(pos. 12) 1964
18.7-23.2	+0.8	
23.3-27.4	+1.0	
27.5-31.5	+1.2	
31.6-35.0	+1.4	
35.1-38.4	+1.6	
38.5-42.5	+1.8	
42.6-59.1	+2.0	
59.2-62.5	+2.2	
62.6-65.9	+2.4	
66.0-69.0	+2.6	
69.1-72.3	+2.8	
72.4-	+3.0	

<5.9	-0.6	Table 3
5.9-7.2	-0.4	
7.3-9.3	-0.2	
9.4-13.8	0.0	
13.9-22.1	+0.2	
22.2-30.5	+0.4	7 Sept.(pos. 13)- 9 Oct. 1964
30.6-37.5	+0.6	
37.6-42.0	+0.8	
42.1-45.4	+1.0	
45.5-48.4	+1.2	
48.5-50.8	+1.4	
50.9-	+1.6	

From Archives special Report
ship Whiting 1964 - 102

VELOCITY CORRECTIONS

Project.. OPR-369
Year..... 1964

SHIP WHITING

Table 4

Depth (up to)	Corrn'
28.8	0.0
38.6	+0.2
80.0	+0.4

LAUNCH # 1

9 June thru 25 July

Depth (up to)	Corrn'
5.6	-0.6
6.6	-0.4
8.0	-0.2
10.0	0.0
12.8	+0.2
18.1	+0.4
22.1	+0.6
26.3	+0.8
31.3	+1.0
36.2	+1.2
40.0	+1.4
43.1	+1.6
46.4	+1.8
50.6	+2.0
54.4	+2.2
58.3	+2.4
60.9	+2.6
64.2	+2.8
71.2	+3.0
79.3	+3.2
88.0	+3.4
95.0	+3.6
103.0	+3.8
111.0	+4.0
118.5	+4.2
126.5	+4.4
134.5	+4.6

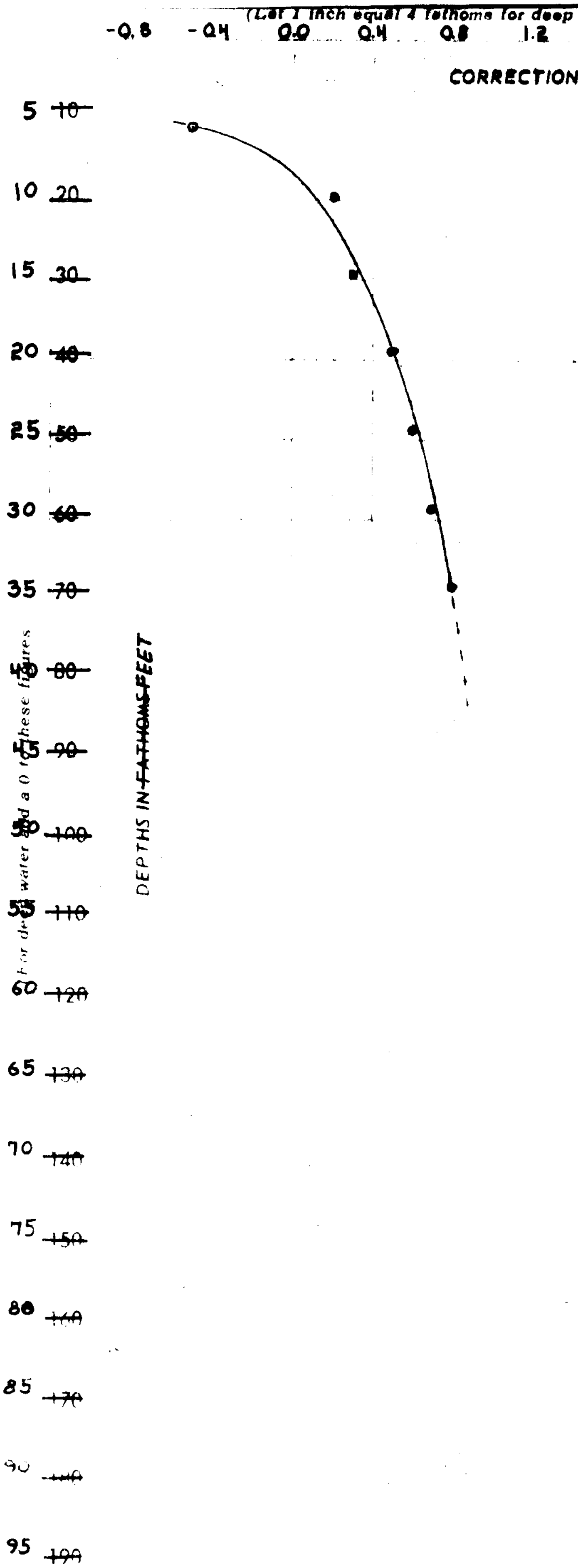
From Archives Special Report
Ship Whiting 1964-102.

VELOCITY CORRECTIONS

Project.. OPR-369
Year..... 1964
Vessel..Launch #1

Table 5

26 July thru 30 Sept.		1 Oct. thru 10 Oct.	
Depth (up to)	Corrn'	Depth (up to)	Corrn'
5.5	-0.6	4.5	-1.0
6.4	-0.4	5.3	-0.8
7.6	-0.2	6.2	-0.6
9.1	0.0	7.2	-0.4
11.2	+0.2	8.5	-0.2
14.0	+0.4	10.4	0.0
18.7	+0.6	13.0	+0.2
23.5	+0.8	19.3	+0.4
28.0	+1.0	27.0	+0.6
32.1	+1.2	33.0	+0.8
35.9	+1.4	37.8	+1.0
39.5	+1.6	41.8	+1.2
46.8	+1.8	45.1	+1.4
52.4	+2.0		
58.0	+2.2		
64.5	+2.4		
68.9	+2.6		
74.4	+2.8		
79.9	+3.0		
85.4	+3.2		
90.9	+3.4		
96.4	+3.6		
101.9	+3.8		
107.4	+4.0		
112.9	+4.2		
118.4	+4.4		
123.9	+4.6		
129.4	+4.8		



FORM C&GS-117 (4-62)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

VELOCITY CORRECTIONS

Ship [illegible]

[illegible] Comdg.

These corrections are to be used between 9 JUNE 1964 and [illegible] 1964

in the locality [illegible]

for hydrographic surveys Nos.

DEPTH INT.	CORR'N
<5.5	- 0.6
5.5 - 6.1	- 0.4
6.2 - 7.4	- 0.2
7.5 - 9.7	0.0
9.8 - 13.6	+ 0.2
13.7 - 19.5	+ 0.4
19.6 - 28.0	+ 0.6
28.1 - 42.5	+ 0.8
>42.5	+ 1.0

DRAWN BY: RMP
CHECKED BY: JDB

~~(1 inch equal 4 fathoms for deep water and 1 inch equal 0.4 fathom for shoals)~~

-0.8 -0.4 0.0 0.4 0.8 1.2 1.6 2.0 2.4 2.8 3.2

CORRECTIONS IN FEET, ~~FATHOMS~~

5 ~~10~~
10 ~~20~~
15 ~~30~~
20 ~~40~~
25 ~~50~~
30 ~~60~~
35 ~~70~~
40 ~~80~~
45 ~~90~~
50 ~~100~~
55 ~~110~~
60 ~~120~~
65 ~~130~~
70 ~~140~~
75 ~~150~~
80 ~~160~~
85 ~~170~~
90 ~~180~~
95 ~~190~~

DEPTHS IN ~~FATHOMS~~ FEET

(For deep water add a 0 to these figures)

FORM C&GS-117 (4-62)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

VELOCITY CORRECTIONS

Ship WHITING, CSS-29, LAUNCH 2

Lt. Cdr. Lippolt Comdg.

These corrections are to be used

between 20 JUNE 1964 and 13 JULY 1964

in the locality NANTUCKET SOUND

for hydrographic surveys Nos.

DEPTH INT.	CORR'N
<5.5	-0.4
5.5 - 6.2	-0.2
6.3 - 8.0	0.0
8.1 - 11.0	+0.2
11.1 - 16.0	+0.4
16.1 - 24.2	+0.6
24.3 - 31.6	+0.8
31.7 - 38.3	+1.0
38.4 - 44.4	+1.2
44.5 - 50.1	+1.4
50.2 - 55.4	+1.6
55.5 - 60.3	+1.8
60.4 - 65.0	+2.0
65.1 - 69.5	+2.2
69.6 - 73.8	+2.4
73.9 - 79.9	+2.6
80.0 - 87.3	+2.8

DRAWN BY: RMP

CHECKED BY: JDB.

USCOMM-DC 16419-

-0.8 -0.4 0.0 +0.4 +0.8 +1.2 +1.6 +2.0 +2.4 +2.8 +3.2 +3.6 +4.0

CORRECTIONS IN FEET, ~~FATHOMS~~

10 5
20 10
30 15
40 20
50 25
60 30
70 35
80 40
90 45
100 50
110 55
120 60
130 65
140 70
150 75
160 80
170 85
180 90
190 95

DEPTHS IN FATHOMS FEET

(For deep water add a 0 to these figures

FORM C&GS-117 (4-62)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

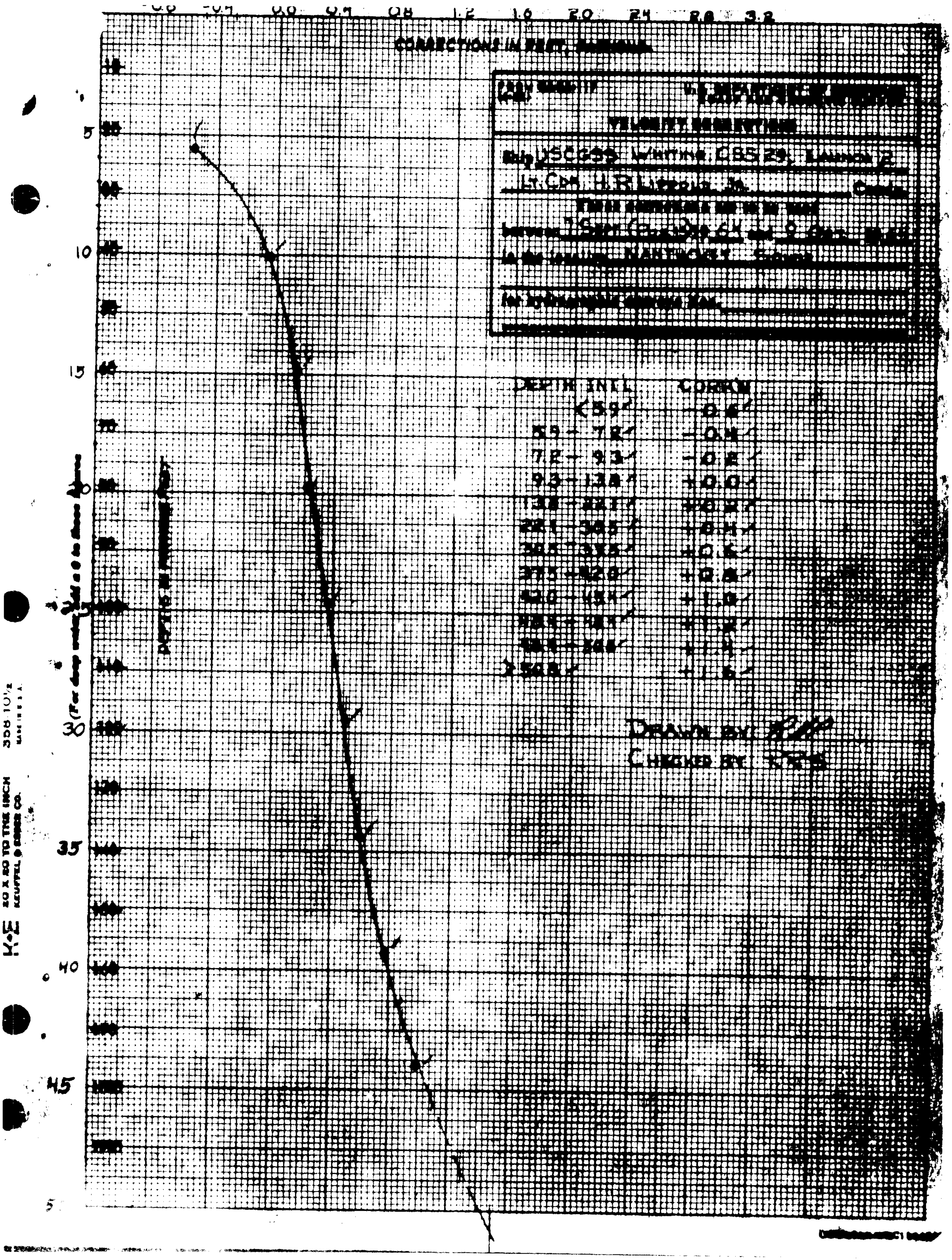
VELOCITY CORRECTIONS

Ship USCGSS WHITING, CSS 29, LAUNCH 2
LT. CDR. H.A. LINDAD, USR. Comdg.

These corrections are to be used
between 1st July 1964 and 2 Sept (est.) 1964
in the locality NANTUCKET SOUND
for hydrographic surveys Nos.

DEPTH (FT)	CORR'N
< 5.0	-0.8
5.0 - 5.4	-0.6
5.5 - 6.0	-0.4
6.1 - 7.2	-0.2
7.3 - 9.0	0.0
9.1 - 11.5	+0.2
11.6 - 14.6	+0.4
14.7 - 18.6	+0.6
18.7 - 23.2	+0.8
23.3 - 27.4	+1.0
27.5 - 31.5	+1.2
31.6 - 35.0	+1.4
35.1 - 38.4	+1.6
38.5 - 42.5	+1.8
42.6 - 58.1	+2.0
58.2 - 62.5	+2.2
62.6 - 65.7	+2.4
65.8 - 69	+2.6
69.1 - 72.3	+2.8
> 72.3	+3.0

DRAWN BY : JDB
CHECKED : RMP



CORRECTIONS IN FEET
VELOCITY CORRECTIONS
USC&GS WAINWRIGHT
NANTUCKET
DEPTH INTL
CORR'N
<5.9
5.9 - 7.2
7.2 - 9.3
-0.4
-0.2
+0.0
DRAWN BY
CHECKED BY
DEPTHS IN FATHOMS
20 X 20 TO THE INCH
KEUFFEL & ESSER CO.

TABLE II

HIRAN CORRECTIONS

OPR-369 1964 Launch II

Date	Gammon		Neck	
	dist.	corr.	dist.	corr.
1June-14July	2.000-20.000	+.010	3.900-4.949	+.040
			4.950-6.199	+.035
			6.200-7.319	+.030
			7.320-8.549	+.025
			8.550-9.699	+.020
			9.700-10.999	+.015
			11.000-12.049	+.010
			12.050-13.349	+.005
			13.350-14.449	.000
			14.450-15.619	-.005
			15.620-16.799	-.010
			16.800-17.999	-.015
			18.000-19.200	-.020
15July-31July	3.000-14.999	-.005	2.000-.9.199	+.005
	15.000-20.000	-.010	9.200-19.600	.000
1Aug-24Aug	2.000-9.499	.000	2.000- 7.499	+.025
	9.500-20.000	-.005	7.500-19.399	+.020
			19.400-20.000	+.015
25Aug-31Aug	3.000-14.999	-.005	2.000- 9.199	+.005
	15.000-20.000	-.010	9.200-19.600	.000
1Sept-10ct	2.000-3.399	+.015	3.400-12.499	+.030
	3.400-7.499	+.010	12.500-18.599	+.025
	7.500-10.199	+.005	18.600-20.000	+.020
	10.200-14.299	.000		
	14.300-17.049	-.005		
	17.050-20.000	-.010		

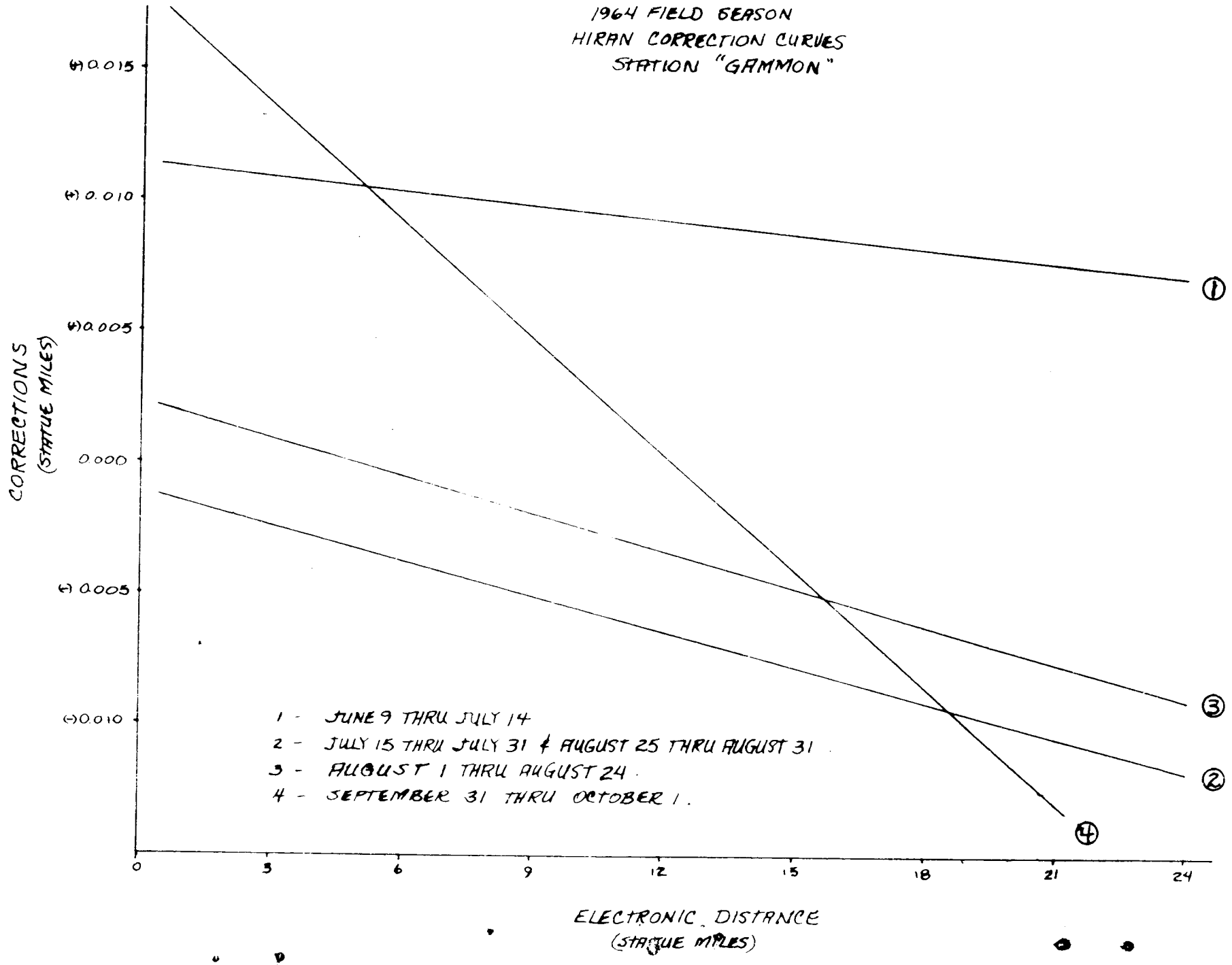
LAUNCH # 2

PROJECT OPR - 369

1964 FIELD SEASON

HIRAN CORRECTION CURVES

STATION "GAMMON"



DRAWN BY JLG.

LAUNCH #2
PROJECT OPR - 369
1964 FIELD SEASON
HIRAN CORRECTION CURVES
STATION "NECK"

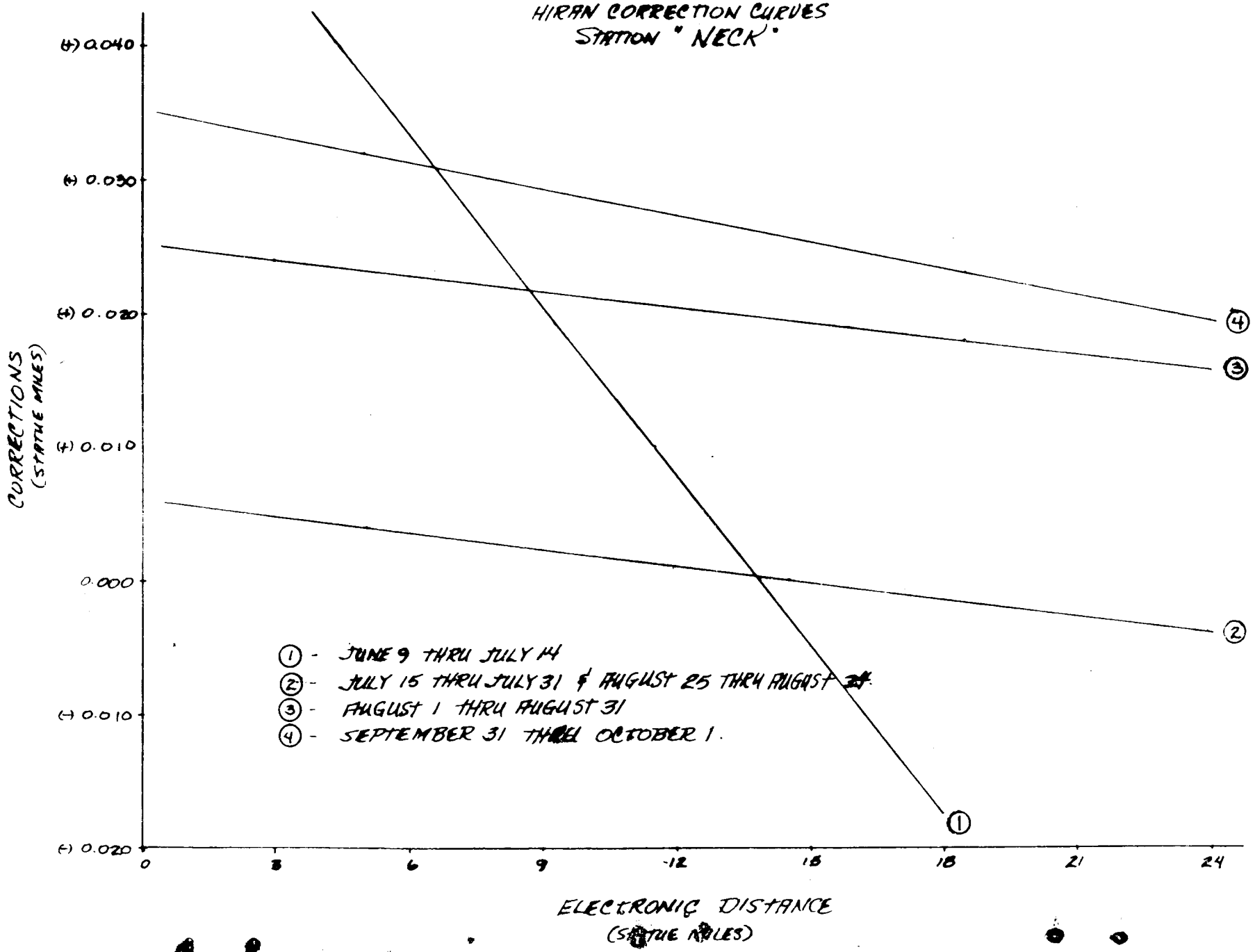


TABLE III

SETTLEMENT & SQUAT CORRECTION

Launches I & II

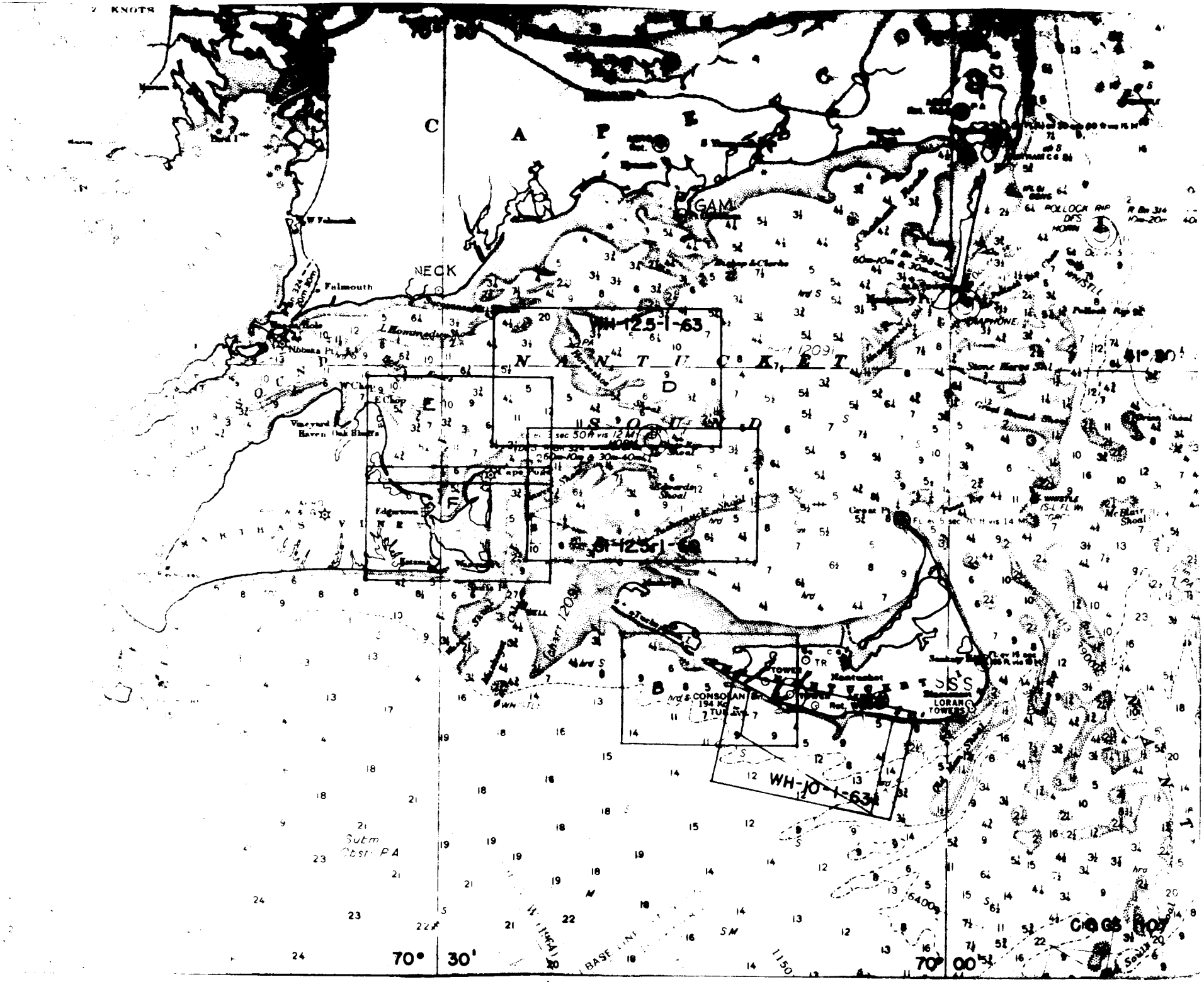
Speed (RPM)	Correction (feet)
0-1000	0.0
1000-2400	+0.2
2400-	0.0

APPROVAL SHEET

The boatsheet and records for the area surveyed are complete and approved. The boatsheet and sounding volumes were examined daily during the survey. The area surveyed is complete and adequate for charting.

1/6/65

James Collins
LT, USC&GS
Commanding ship WHITING


C A P E
NECK
Falmouth
NANTUCKET
SOUND
WH-125-1-63
WH-125-1-63
WH-10-1-63
LORAN TOWERS
Subm Obstr PA
70° 30'
70° 00'

NORFOLK HYDROGRAPHIC PROCESSING BRANCH
ADDENDUM
To Accompany

HYDROGRAPHIC SURVEY H-8821 (Wh 10-2-64)

GENERAL

This appears to be an excellent basic survey. Soundings are in good agreement at crossings in this area of sandwaves and generally irregular bottom.

OVERLAYS

In order to avoid undue congestion on the smooth sheet, soundings on the following positions are being submitted on three smooth overlays.

Launch 2, (red) - Positions 1-37y, 121-136y, 141-181y & 187-190y.
Launch 2, (red) - Positions 1-39aa
Launch 1, (blue) - Positions 1-36a

DISCREPANCIES

None of the soundings on overlay 1, positions 1-36a (blue), were transferred to the smooth sheet. Velocity corrections for this day, although entered in the volumes, were not listed in the descriptive report by the field. Soundings in the range from 4 to 7 feet are shoaler than surrounding hydrography, and bar check returns at these depths are inconsistent.

CHART COMPARISON

Intensive developement failed to show any indication of the rock charted at 11 feet just South of buoy "Bell 17" at Lat. 41-26.0' and Long. 70-29.5'. The origin of the 11 foot sounding charted just North of this buoy appears to have been a faulty interpretation of the boat sheet notation "Bell 17". In the word "Bell", the letter B is easily mistaken for a 13, and the letters 11 for an 11 foot sounding.

Numerous other charted submerged rocks and shoals are either no longer in existence, or else they were not confirmed on this survey. A chart section noting the most critical ones is being submitted with the smooth sheet.

Respectfully submitted,
Hugh L. Proffitt
Carto-Tech.

Norfolk, Va.
Feb. 14, 1966

FORM C&GS-712
(3-9-64)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

TIDE NOTE FOR HYDROGRAPHIC SHEET

June 1, 1966

Nautical Chart Division: R. H. Carstens

Plane of reference approved in
18 volumes of sounding records for

HYDROGRAPHIC SHEET 8821

Locality: Nantucket Sound
Coast of Massachusetts

Chief of Party: L. R. Lippold (1964)

Plane of reference is mean low water

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

Edgartown, Massachusetts

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

2 feet

Remarks Tide reducers for the following positions have been revised in red and verified.

Vol.	Position
14	#8 - 27
22	c34 - 44

J. W. Simmons
Chief, Tides and Currents Branch

USCOMM-DC 6680-P64

FORM 197
(3-16-55)

GEOGRAPHIC NAMES

Survey No. H-8821

Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Cape Poge										1
East Chop										2
Farm Pond										3
Harts Haven										4
Oak Bluffs Harbor										5
Vineyard Highlands										6
Sengekontacket Pond										7
		Names approved 4-5-66								8
		Frank Wilson								9
										10
										11
										12
										13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

FORM C&GS-946
(REV. 3-1-64)
(PRESC. BY HYDROGRAPHIC MANUAL 20-2, 6-94, 7-13)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
NAUTICAL CHART DIVISION

HYDROGRAPHIC SURVEY STATISTICS

HYDROGRAPHIC SURVEY NO. 8821

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

RECORD DESCRIPTION	AMOUNT	RECORD DESCRIPTION	AMOUNT
SMOOTH SHEET	1	BOAT SHEETS (2-parts)	1
DESCRIPTIVE REPORT	1	OVERLAYS	3

DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES	6 Fathograms					
CAHIERS						
VOLUMES	23					
BOXES						

T-SHEET PRINTS *(List)*

SPECIAL REPORTS *(List)* 1-Chart section 261

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				
POSITIONS CHECKED				
POSITIONS REVISED				
DEPTH SOUNDINGS REVISED				
DEPTH SOUNDINGS ERRONEOUSLY SPACED				
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED				
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS				
JUNCTIONS				
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS				
SPECIAL ADJUSTMENTS				
ALL OTHER WORK				
TOTALS				

PRE-VERIFICATION BY	BEGINNING DATE	ENDING DATE
VERIFICATION BY	BEGINNING DATE	ENDING DATE
REVIEW BY	BEGINNING DATE	ENDING DATE

USCOMM-DC 6641-P64

FORM C&GS-946A
(REV. 11-65)
(PRES. BY HYDROGRAPHIC MANUAL, 6-94)

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

VERIFIER'S REPORT

HYDROGRAPHIC SURVEY, H-8821

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		
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		
3. All reference to survey sheets mentioned in the Descriptive Report should include registry number and year. Remarks Required: -- None		
Part II - SHORELINE AND SIGNALS		
4. Source of shoreline signals Remarks Required: -- List all surveys a. Give earliest and latest dates of photographs b. Field inspection date c. Field Edit date d. Reviewed-Unreviewed		
5. The transfer of contemporary topographic information was carefully examined and reconciled with the hydrography. Remarks Required: -- Discuss remaining differences.		
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		
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.		
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 transferred in colored ink and overlapping curves were made identical. Remarks Required: -- None		
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		

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.**		
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		
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		
Part V - PROTRACTING		
13. All positions verified instrumentally were check marked in color in the sounding records, and verifier initialed the processing stamp. Remarks Required: -- None		
14. The protracting and plotting of all unsatisfactory crossings were verified. Remarks Required: -- None		
15. All detached positions locating **critical** soundings, rocks, buoys, breakers, obstructions, kelp, etc., were verified and the position numbers are legible. Remarks Required: -- None		

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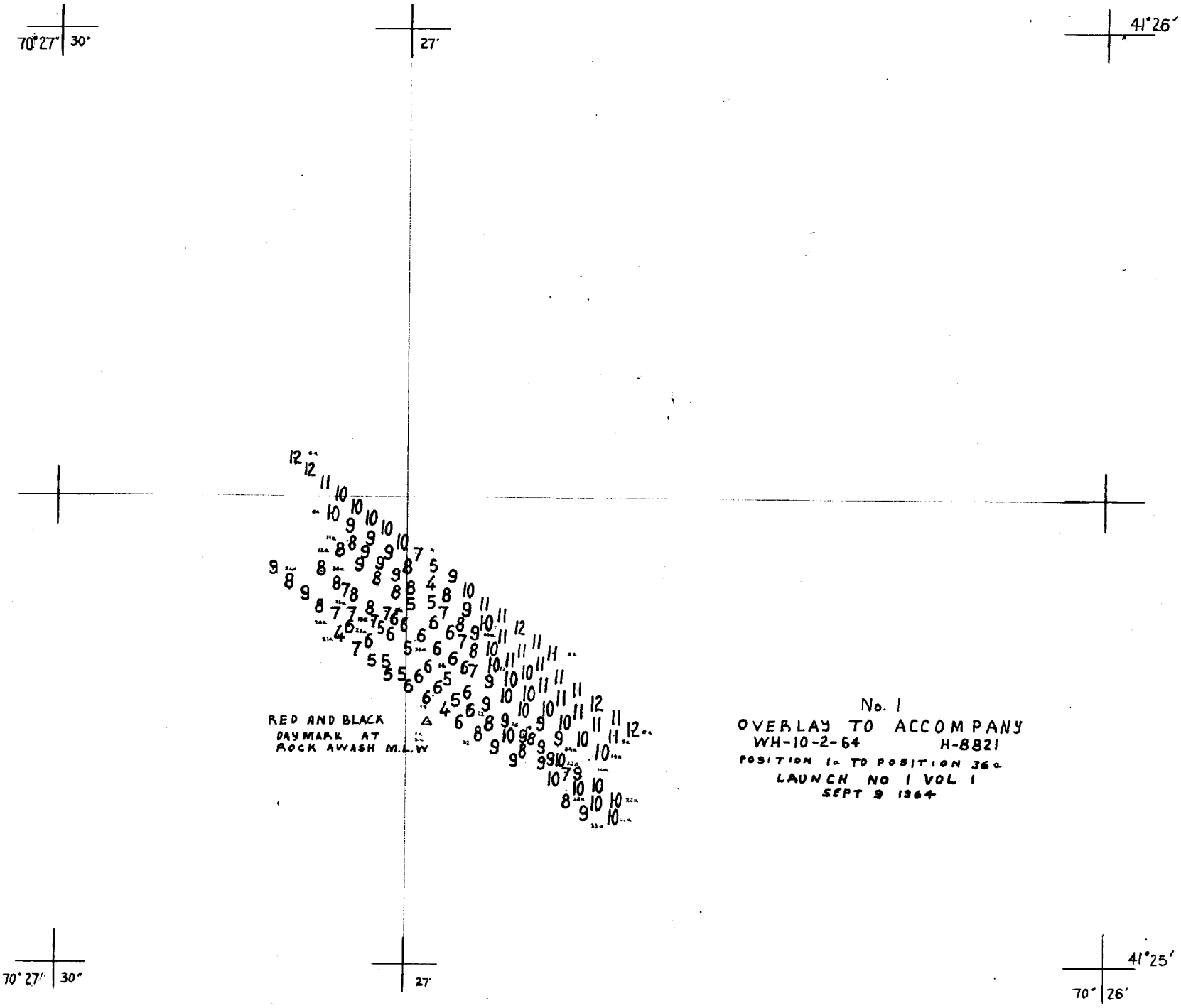
Part V - PROTRACTING (Continued)	CL	R
16. The protracting was satisfactory except as follows: Remarks Required: -- Refers to protracting in general except for specific faults repeated often, or faults in control information, which required considerable replotting or adjustments.		
17. The protractor has been checked within the last three months. Remarks Required: -- Date of check, type of protractor and number.		
Part VI - SOUNDINGS		
18. All soundings are clear and legible, and critical soundings are a little larger than adjacent soundings. Remarks Required: -- None		
19. Sounding line crossings were satisfactory except as follows: Remarks Required: -- Discuss adjustments.		
20. The spacing of soundings as recorded in the records was closely followed; Remarks Required: -- None		
21. The scanning, reduction, spacing, plotting of questionable soundings have been verified. Remarks Required: -- None		
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.		
Part VII - CURVES		
23. The depth curves have been inspected **before** inking. Remarks Required: -- By whom was the penciled curves inspected.		
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		
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.		

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.		
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		
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		
29. Heights of rocks awash were correctly reduced and compared with topographic information. Remarks Required: -- Note excessive conflicts with topographic information.		
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		
31. Unnecessary pencil notes have been removed from the sheet. Remarks Required: -- None		
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		
33. The bottom characteristics are adequately shown. Remarks Required: -- None		
Part XI - NOTES TO THE REVIEWER		
34. Unresolved discrepancies and questionable soundings.		
35. Notation of discrepancies with photogrammetric survey inserted in report of unreviewed photogrammetric survey or on copy.		
36. Supplemental information.		

Verified by	Date



No. 1

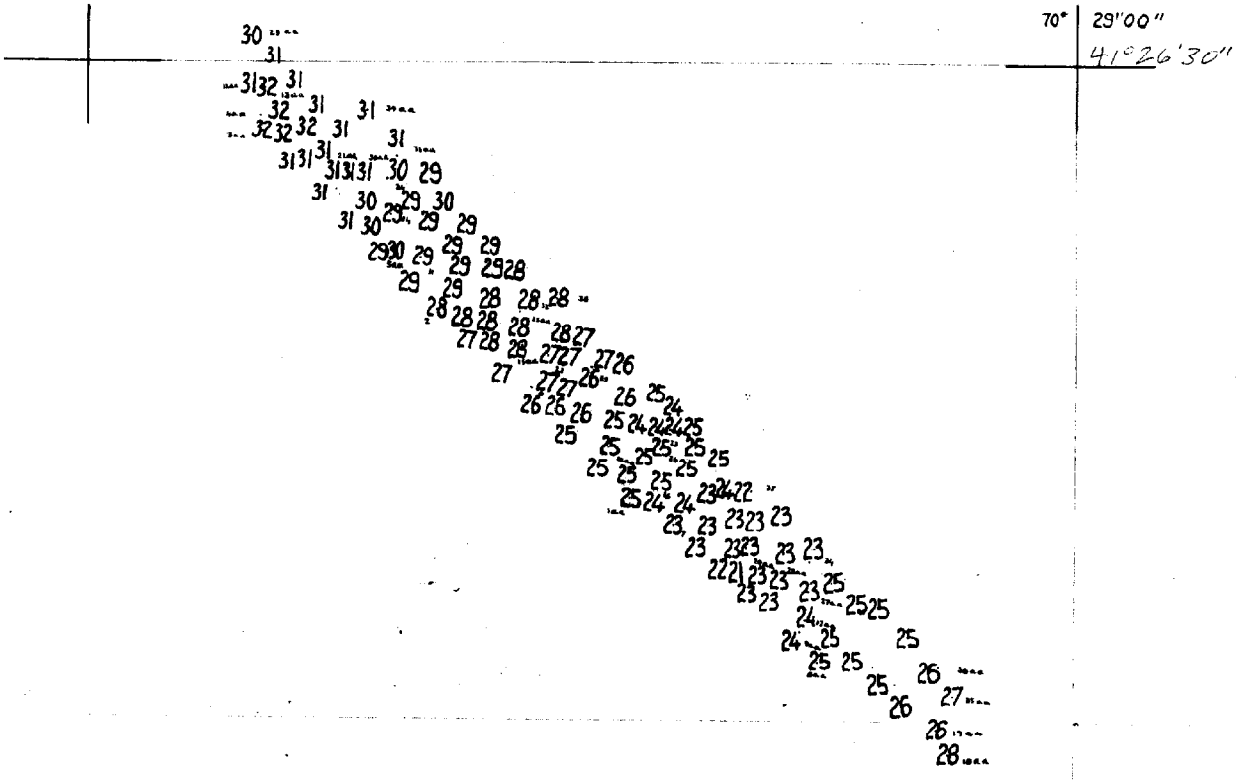
OVERLAY TO ACCOMPANY

WH-10-2-64 H-8821

POSITION 1a TO POSITION 36a

LAUNCH NO 1 VOL 1

SEPT 9 1964



NO 2

OVERLAY TO ACCOMPANY

WH-10-2-64 H-8821

POSITION 1 TO POSITION 39

LAUNCH 2 VOL NO 20

SEPT 21 1964

41°25'30"

70° 30'00"

41°25'30"

70°29'00"

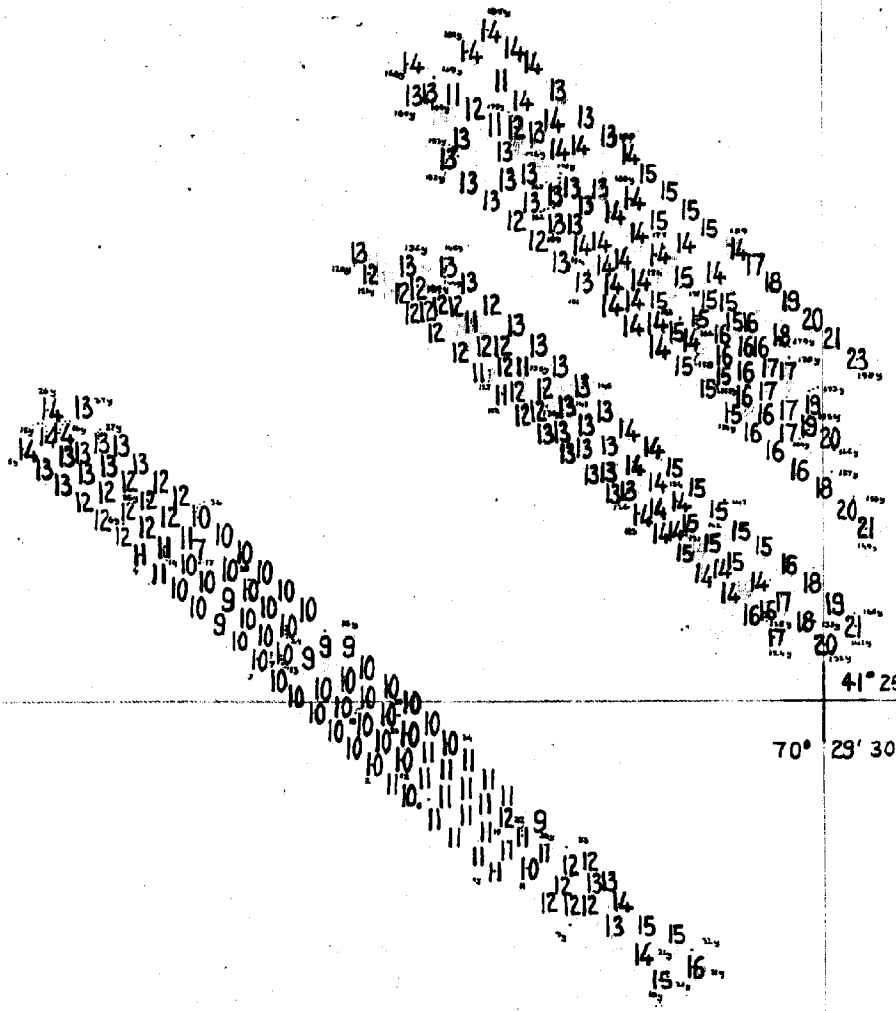
41° 26' 00"

70° 29' 30"

No. 3

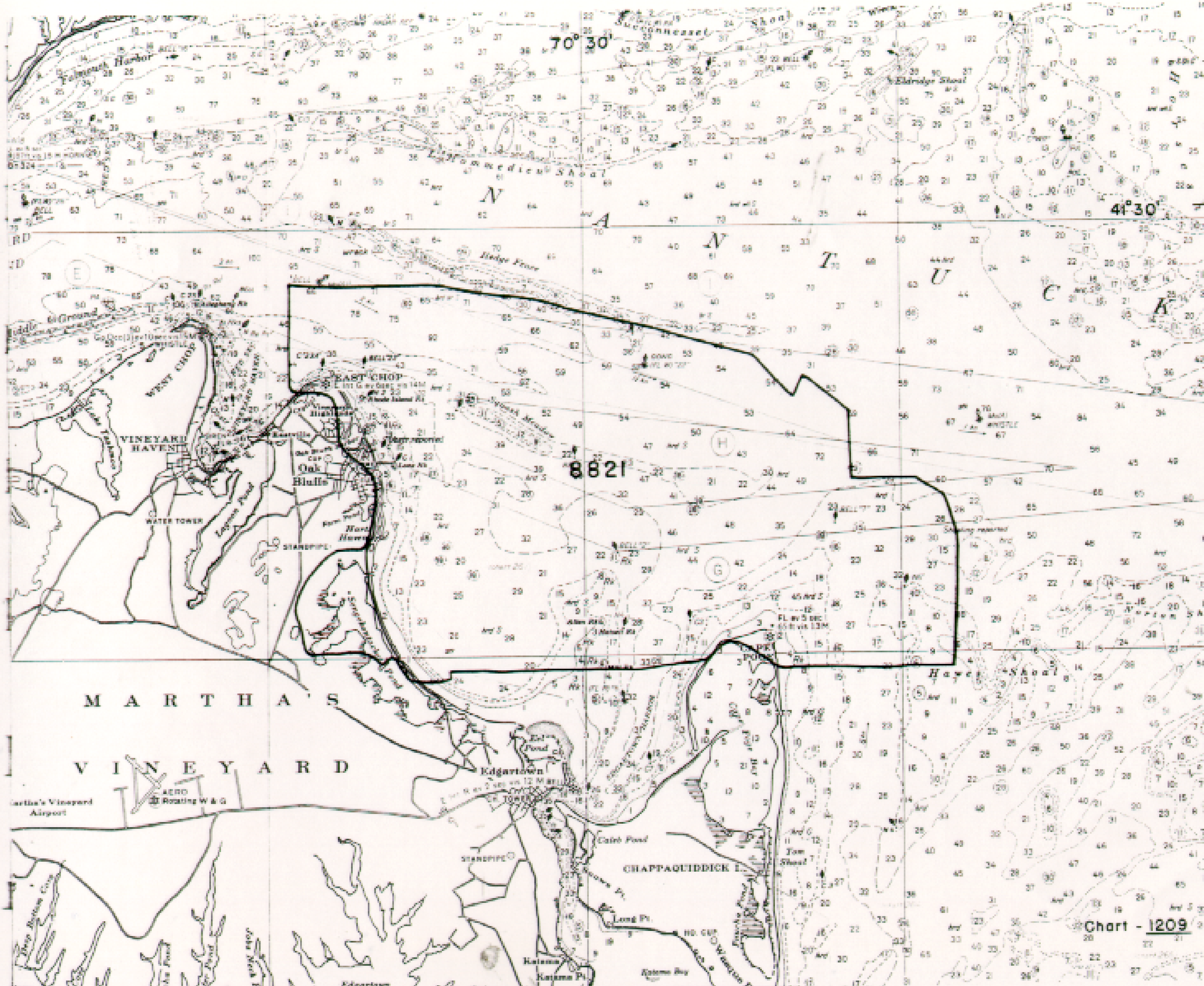
OVERLAY TO ACCOMPANY
WH-10-2-64 H-8821
LAUNCH 2 VOL NO. 19
SEPT 9 1964
Y-DAY POSITIONS:

1 – 37
121 – 136
141 – 181
187 – 190



41° 25" 00"

70° 29' 30"



70° 30'
41°30'
N A N T U C K E T
Falmouth Harbor
L'Hommedieu Shoal
Eldridge Shoal
Hedge Fence
Middle Ground
WEST CHOP
EAST CHOP
VINEYARD HAVEN
Oak Bluffs
WATER TOWER
STANDPIPE
8821
M A R T H A ' S
V I N E Y A R D
Martha's Vineyard Airport
AERO
Rotating W & G
Edgartown
Katama
Katama Pt.
Long Pt.
Caleb Pond
CHAPPAQUIDDICK I.
Katama Bay
Chart - 1209

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

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-8821

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
71	6-28-66	F.R. Scarcella	Full ~~Part~~ Before ~~After~~ Verification Review Inspection Signed Via
			Drawing No. Consider fully Applied. No Hydro on cht.
1207	7-19-66	H. Saddler	~~Full~~ Part Before ~~After~~ Verification Review Inspection Signed Via
			Drawing No. 33 Added Rocks
114	10-4-66	Fannie B. Powers	~~Full~~ Part Before ~~After~~ Verification Review Inspection Signed Via
			Drawing No. 3. applied directly to Cht 114. Largest conventional scale chart available
261	11/3/66	T. Anne Ware	~~Full~~ Part Before ~~After~~ Verification Review Inspection Signed Via
			Drawing No. Added three rocks and Shoal.
264	11/4/66	T. Anne Ware	~~Full~~ Part Before ~~After~~ Verification Review Inspection Signed Via
			Drawing No. Added two rocks and shoal from Cht 261.
260	10/23/67	[illegible]	~~Full~~ Part Before ~~After~~ Verification Review Inspection Signed Via
			Drawing No. No corr, chart 260 per cht 261
~~13233~~	~~9/1/92~~	[illegible]	
13233	9/1/92	[illegible]	Full ~~Part~~ Before ~~After~~ Verification Review Inspection Signed Via
			Drawing No. Re-examined, no further application necessary DRG # 15
13229 B	11/18/92	L. Ashman	Full ~~Part~~ Before ~~After~~ Verification Review Inspection Signed Via
			Drawing No. Re-examined No further Application necessary, DWG # 25
			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