

8761

Diag. Cht. No. 1209-3.

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. 41-12.5-1-60 Office No. H-0701

### LOCALITY

State Massachusetts

General locality Coast of Massachusetts

Locality Nantucket Sound

1963

### CHIEF OF PARTY

H. R. Lippold, Jr., LCDR, C&GS

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DATE

SEP 30 1965

USCOMM-DC 5087

8761

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

**HYDROGRAPHIC TITLE SHEET**

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

REGISTER NO. H-8761

Field No. G1 12.5-1-60

State MASSACHUSETTS

General locality CAPE COD

Locality NANTUCKET SOUND

Scale 1:12,500 Date of survey 9/11 to 10/9, 1963

Instructions dated March 11, 1963

Vessel SHIP WHITING

Chief of party H.R. LIPPOLD, JR.

Surveyed by F.J. TUCKER, JR., J. COLLINS, J.W. BRICKER, F.P. KAPINOS  
D.G. HICKERSON

Soundings taken by ~~XXXXXX~~ graphic recorder, hand lead, ~~XXX~~

Fathograms scaled by Ship Personnel

Fathograms checked by Ship Personnel

Protracted by D.C. Calland (Norfolk Office)

Soundings penciled by D.C. Calland " "

Soundings in ~~XXXX~~ feet at MLW ~~XXXX~~

REMARKS:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DESCRIPTIVE REPORT TO ACCOMPANY  
HYDROGRAPHIC SURVEY H-8761  
FIELD No. GI-12.5-1-60

Nantucket Sound, Massachusetts

Scale 1:12,500  
1963

Ship WHITING  
H. R. Lippold, Jr., Comdg

Surveyed by:

LCDR H.R. Lippold, Jr.  
LCDR F.J. Tucker, Jr.  
LT J. Collins  
LTJG J.W. Brieker  
LTJG F.P. Kapinos  
ENS D.G. Hickerson

A. PROJECT

The authority for this survey is contained in revised instructions for Project OPR-369, Nantucket Sound, Massachusetts, dated March 11, 1963, and amended June 19, 1963. It should be noted that this survey was a follow-up to the GILBERT's work of 1960.

B. AREA SURVEYED

The area surveyed is in Nantucket Sound just south of Cross Rip Shoal. For sheet limits and area surveyed see attached section of C&GS Chart 1107.

The survey by this party commenced on September 11, 1963, and terminated on October 9, 1963.

Junction was made with prior surveys H-2599 (1:20,000 - 1902), H-1879 (1:20,000 - 1888), H-2530 (1:20,000 - 1901) on the north, ~~GI-12.5-1-60~~ on the east, H-8631 (1:10,000 - 1960-61) on the south, as well as H-1947 (1:20,000 - 1889) and H-1844 (1:20,000 - 1888) on the west.

Junction was also made with contemporary survey WH-12.5-1-63 on the north. (H-8824)

C. SOUNDING VESSELS

The Ship WHITING and two 26' survey launches were used during this survey. A purple capital day-letter was used

by the ship; launch 1 used a purple lower-case day-letter, while launch 2 used a red lower-case day-letter.

D. SOUNDING EQUIPMENT *Wch. #2, 1963 WRLC - changed to green day letters*

All soundings were taken by echo sounders of the Raytheon type DE-723-1 with the following serial numbers: Ship WHITING, #262; launch 1, #250; launch 2, #251 for a day and positions 1 - 105, b day, then #249 for positions 106 - 207, b day, as well as c day.

Velocity corrections for the ship were obtained from lead-line comparisons along with temperature-salinity observations, while those for the launches were obtained from bar checks taken daily.

#### E. SMOOTH SHEET

The smooth-sheet projection and hiran curves were drawn by the Washington Office. The smooth sheet will be transferred to the Norfolk Processing Section for plotting.

#### F. CONTROL

Hiran electronic positioning equipment was used to control the entire survey. The shore stations were erected over triangulation stations <sup>bead</sup> Great Neck, 1963, and Gammon, 19

An abstract of corrections to distance measurements is included with this report; the corrections were obtained by visual calibrations, range and angle at both maximum and minimum distances from each station.

#### G. SHORELINE

There is no shoreline on this sheet.

#### H. CROSSLINES

Crosslines were run to an extent of about 6 per cent of the regular scheme of sounding lines. The crosslines in general are in good agreement with our own work, but discrepancies do exist by as much as five feet in the area of overlap (between the 14- and 15-mile arcs of Gam) as surveyed by the GILBERT in 1960 and the WHITING in 1963. The differences may be attributed to the irregularity of the bottom as well as to the passage of time between the two surveys. *Gilbert work is consistently shallower*

## I. JUNCTIONS

Junctions made with prior surveys agreed in general fairly well in areas of comparatively smooth bottom, but disagreed considerably with respect to displacement and 3 - 6 feet of depth in areas of a more irregular nature. This, more than likely, is due to the extreme lapse of time between the 1880's and the present, but may also be due to the type of control used.

## J. COMPARISON WITH PRIOR SURVEYS

As stated above, our survey of 1963 differs considerably from those of the 1800's, particularly in areas of irregular configuration.

As far as the presurvey review, the results may be described as follows:

1. The area of the wreck which was charted in  $41^{\circ} 24.25'$  N,  $70^{\circ} 12.95'$  W (1916) from an undetermined source was thoroughly investigated and after three days of hydrography found not to exist.

2. a. The 11-foot sounding in Lat.  $41^{\circ} 26.35'$  N, Long.  $70^{\circ} 17.30'$  W, on Cross Rip Shoal seems to have deepened to 18 feet.

b. The 10-foot sounding in Lat.  $41^{\circ} 25.00'$  N, Long.  $70^{\circ} 17.40'$  W, on Edwards Shoal does not exist.

3. The 12-foot sounding in Lat.  $41^{\circ} 26.00'$  N, Long.  $70^{\circ} 24.20'$  W, does not exist, but since the position was determined with buoys, the reporter may have been about one-half mile to the eastward, where such soundings do exist.

## K. COMPARISON WITH THE CHART

Comparison with C&GS Chart 1209, scale 1:80,000, tenth edition, revised June 11, 1962, shows considerable disagreement since the chart was made from the surveys of the 1800's; the reasons for disagreement have been pointed out previously.

## L. ADEQUACY OF SURVEY

The part of the survey accomplished by the WHITING is complete and adequate to supersede prior surveys for charting.

M. AIDS TO NAVIGATION

All aids to navigation were located by the hydrographic party, compared with the Light List 1963 as well as C&GS Chart 1209, and found to adequately serve the purposes for which they were established.

N. STATISTICS

<u>Vessel</u>	<u>Number of Positions</u>	<u>Nautical Number of Miles Sounding Line</u>
Ship WHITING	282	54.8
Launch 1	1744	388.1
Launch 2	366	70.5
Totals	<u>2392</u>	<u>513.4</u>

Total area surveyed: 21.8 square nautical miles  
Number of bottom samples: 44  
Tide stations: 1  
Current stations: 1

Respectfully submitted,

*David G. Hickerson*

David G. Hickerson  
LTJG, C&GS

### TIDE NOTE

A portable automatic tide gage was used as a reference for the tidal data of this survey, using  $60^{\circ}$  W (ZD+4) as the time meridian; it was located in Edgartown Harbor, Chappaquiddick Island, in Lat.  $41^{\circ} 23.2$  N, Long.  $70^{\circ} 30.2$  W. In addition to minor irregularities of the gage, a one-hour (minus) time correction was applied. As mean low water was 2.7 feet on the staff, all heights recorded on the marigrams should be corrected by this amount.

*None of reference approved; division on tides and currents - June-1-1966.  
all volumes stamped.*

SPECIAL NOTE

The hydrography in the area of the charted wreck in Lat.  $41^{\circ} 24.25' N$ , Long.  $70^{\circ} 12.95' W$ , was run by Launch WH-2 using a hiran set which was reading .1 mile high from station Gam.

The only verification of this error was obtained from the zero check and no exact correction was obtained from any calibration because this set broke down two days later. It <sup>should be noted that</sup> was established from a comparison of <sup>the</sup> previous soundings <sup>that</sup> the new soundings had been displaced about .1 mile in the direction away from station Gam.

Therefore it is assumed that .100 mile will have to be subtracted from all the Gam readings on 5 and 6 October for the hydrography run by Launch WH-2 using red small-letter days a and b. *Changed to green on 55.*

*This correction has been applied to Gam readings on 5 and 6 October Vol number 17, a-day green page 6 and b-day green page 48. Verification of error was accepted from zero check.*

*(examined & approved by Mr Benson & Mr Corstens) GAK.*

ABSTRACT OF HIRAN CORRECTIONS  
 OPR-369 H-8761 (GI-12.5-1-60)

<u>Date</u>	<u>Station Gammon</u>		<u>Station Great Neck</u>	
	<u>Corr'n</u>	<u>Distance</u>	<u>Corr'n</u>	<u>Distance</u>
<u>Ship WHITING</u>				
A day - 11 Sept.	-.020	5.0-9.5	-.010	6.2-9.3
	-.015	9.5-16.0	-.015	9.3-12.3
	-.010	16.0-20.0	-.020	12.3-15.3
			-.025	15.3-18.3
B day - 12 Sept. to D day - 3 Oct.	-.015	5.0-10.4	-.015	5.5-8.5
	-.010	10.4-16.7	-.020	8.5-11.6
	-.005	16.7-20.0	-.025	11.6-14.1
			-.030	14.1-17.7
<u>Launch 1</u>				
<u>a</u> day - 18 Sept. to <u>m</u> day - 9 Oct.	-.005	5.0-9.3	-.015	5.0-14.6
	-.010	9.3-16.7	-.010	14.6-20.0
	-.015	16.7-20.0		
<u>Launch 2</u>				
<u>a</u> day - 5 Oct. to <u>c</u> day - 8 Oct.	-.010	5.0-10.5	-.025	5.0-7.1
	-.015	10.5-19.0	-.020	7.1-11.9
			-.015	11.9-16.7
			-.010	16.7-20.0

SETTLEMENT AND SQUAT CORRECTION  
 (LAUNCHES)

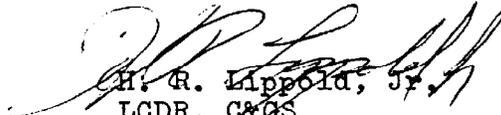
<u>Speed (RPM)</u>	<u>Correction (feet)</u>
0 - 1000	0.0
1000 - 2400	+0.2
2400 - -----	0.0

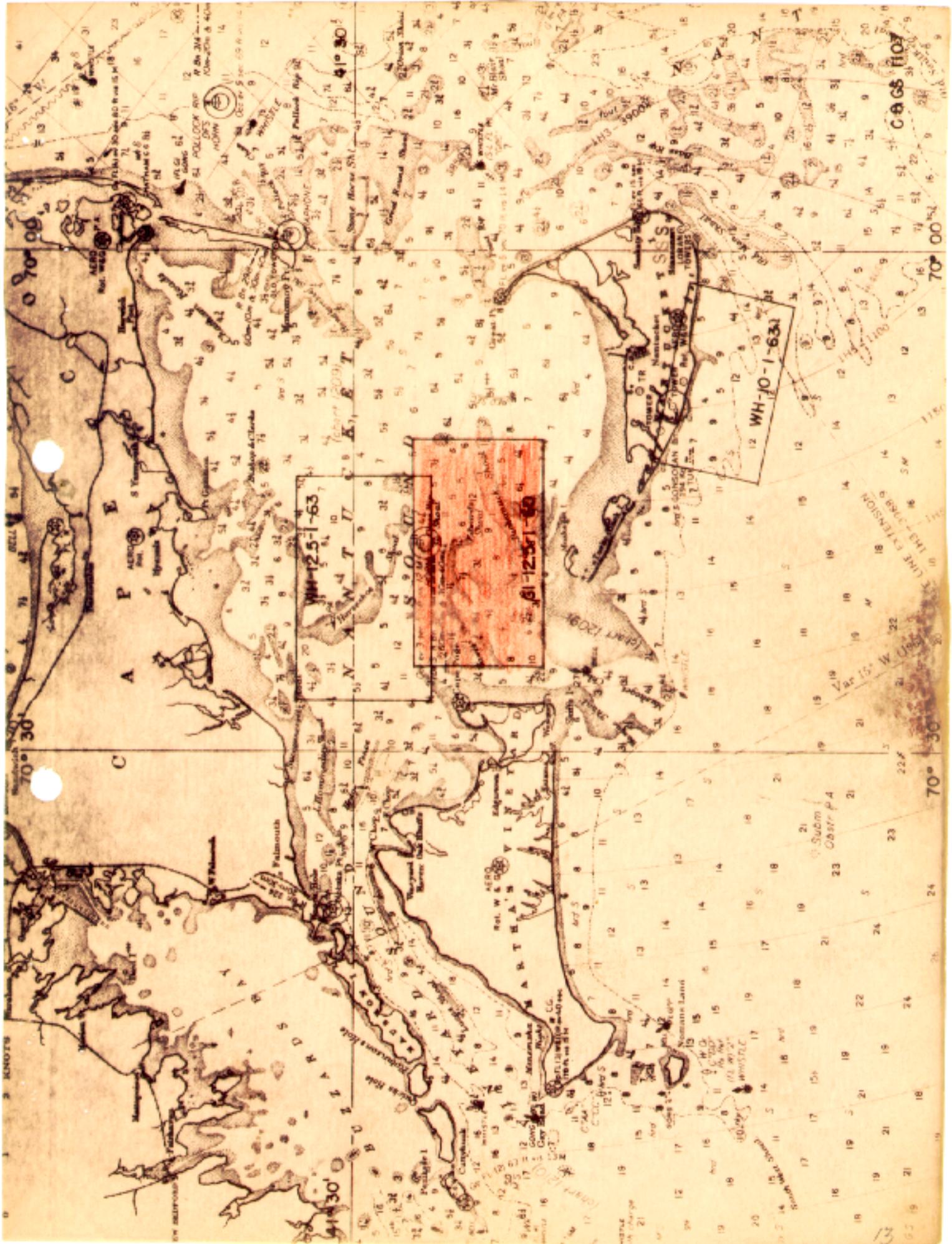
ABSTRACT OF VELOCITY CORRECTIONS  
 OPR-369 H-8761 (GI-12.5-1-60)

<u>Depth</u> <u>up to</u>	<u>Corr'n</u>	<u>Date</u>	<u>Depth</u> <u>up to</u>	<u>Corr'n</u>
<u>Ship WHITING</u>		<u>Launch 2</u>		
22 ft.	+0.4	a day - 5 Oct. to	7.5	-2.6
31	+0.6	105, b day - 6 Oct.	7.8	-2.4
39	+0.8	Fath. #251	8.4	-2.2
48	+1.0		9.7	-2.0
56	+1.2		11.8	-1.8
63	+1.4		16.0	-1.6
71	+1.6		21.4	-1.4
78	+1.8		30.8	-1.2
82	+2.0		36.0	-1.0
			40.8	-0.8
			45.6	-0.6
			55.0	-0.4
			63.0	-0.2
			72.0	0.0
			79.0	+0.2
<u>Launch 1</u>				
7.8	-2.4			
8.8	-2.2			
10.6	-2.0			
13.0	-1.8			
16.5	-1.6	106, b day - 6 Oct.	7.9	-2.8
26.0	-1.4	to c day - 8 Oct.	8.4	-2.6
35.0	-1.2	Fath. #249	9.8	-2.4
40.9	-1.0		12.2	-2.2
44.6	-0.8		22.5	-2.0
47.8	-0.6		40.0	-1.8
55.0	-0.4		45.0	-1.6
64.0	-0.2		50.0	-1.4
73.0	0.0		55.0	-1.2
			65.0	-1.0

APPROVAL SHEET ✓

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

  
C. R. Lippold, Jr.  
LCDR, C&GS  
Commanding Ship WHITING



WH-125-1-63

61-12561-63

WH-10-1-63a

Cape Cod

LINE EXTENSION  
Var 15' W. Under

# 8761

Diag. Cht. No. 1209-3.

<p>Form 504 U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY</p> <h2 style="text-align: center;">DESCRIPTIVE REPORT</h2>	
<p>Type of Survey <u>HYDROGRAPHIC</u></p>	
<p>Field No. <u>G1 12.5-1-60</u> Office No. <u>H-8761</u></p>	
<p>LOCALITY</p>	
<p>State <u>MASSACHUSETTS</u></p>	
<p>General locality <u>CAPE COD</u></p>	
<p>Locality <u>NANTUCKET SOUND</u></p>	
<p><u>19 64</u></p>	
<p>CHIEF OF PARTY</p>	
<p><u>H.R. LIPPOLD, JR.</u></p>	
<p>LIBRARY &amp; ARCHIVES</p>	
<p>DATE .....</p>	

COMM-DC 61300

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

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

REGISTER No. H-8761

Field No. G1 12.5-1-60

State MASSACHUSETTS

General locality CAPE COD

Locality NANTUCKET SOUND

Scale 1:12.500 Date of survey 1964

Instructions dated 11 March 1963

Vessel WHITING

Chief of party H.R. LIPPOLD, JR.

J.D. Gammon, R.M. Petryczanko

Surveyed by J. Collins, L.E. Pickens, D.G. Hickerson, J.D. Boon

Soundings taken by ~~XXXXXX~~, graphic recorder, hand lead, ~~wire~~

Fathograms scaled by Ship Personnel

Fathograms checked by Ship Personnel

Protracted by D.C. Calland (Norfolk Office)

Soundings penciled by D.C. Calland " "

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

REMARKS:

H-8172-1955  
H-8921

DESCRIPTIVE REPORT TO ACCOMPANY  
HYDROGRAPHIC SURVEY H-8823 8761  
FIELD No. ~~WH-12.5-1-64~~  
GI 12.5-1-60

Nantucket Sound, Massachusetts

Scale 1:12,500  
Ship WHITING

H. R. LIPPOLD JR.  
Commanding 1964

Surveyed By:

CDR H. R. Lippold Jr.  
LT J. Collins  
LTJG L. E. Pickens  
LTJG D. G. Hickerson  
LTJG J. D. Boon  
ENS J. L. Gammon  
ENS R. M. Petryczanko

A. PROJECT

The authority for this survey is contained in revised instructions for Project OPR-369, Nantucket Sound, Massachusetts, dated 11 March 1963, and supplemental instructions dated 7 April 1964.

B. AREA SURVEYED

The area surveyed is in Nantucket Sound located approximately 2 miles east of Cape Poge on Martha's Vineyard. For sheet limits and area surveyed see attached section of USC&GS chart 1107.

The area surveyed is a portion of the GI 12.5-1-60 sheet, and is in effect a resurvey of the Gilbert work done in 1960.

The survey by this party commenced on 21 August 1964 and was terminated on 28 September 1964.

Junctions were made with prior surveys H-8761, 1:12,500 1960 - 1963 on the north, east and south, and with H-8631, 1:10,000, 1960, on the south. Junction was also made with contemporary survey WH-10-2-64 on the west. *(plotted on same sheet)*  
*Not Verified*

C. SOUNDING VESSELS

Two 26 foot survey launches were used during this survey. Launch #1 used a blue lower-case day letter and Launch #2 used a red lower-case day letter.

#### D. SOUNDING EQUIPMENT

All soundings were taken by echo sounders of the Raytheon DE-723 type. Launch #1 used fathometer number 250 for the entire survey; launch #2 used fathometer number 249 for all its work on this survey. ✓

Velocity corrections were obtained from bar checks taken daily when weather permitted. ✓

#### E. SMOOTH SHEET

All the field records for the survey will be forwarded to the Norfolk Processing Section. The smooth sheet will be projected and smooth plotted by that section. ✓

#### F. CONTROL

Hiran electronic positioning equipment was used to control the entire survey. The shore stations were erected over triangulation stations DEAD NECK 1963 and GAMMON 1954, both USC&GS marks. ✓  
An abstract of corrections to distance measurements is included with this report; the corrections were obtained by visual calibration and by calibration at known G.P. points.

#### G. SHORELINE

There is no shoreline on this sheet. ✓

#### H. CROSSLINES

Crosslines were run to an extent of approximately eight percent of the regular scheme of sounding lines. ✓  
The crosslines in general are in good agreement with the exception of 2 to 3 feet discrepancies in areas of irregular bottom.

#### I. JUNCTIONS

*an arbitrary correction of one tenth of a foot has been applied when it changed the whole unit by one foot. This in general improved the crossline agreement.*

The junctions made with the prior surveys listed in section B were in good agreement. ✓

#### J. COMPARISON WITH PRIOR SURVEYS

There were no preliminary review items within the limits of the survey. This survey agreed very closely with prior ~~survey~~ H-8761, 1:12,500, 1960. The only exception is in the vicinity of shoals where discrepancies of 2 - 3 feet exist. The fact that the shoal areas were not developed extensively by the 1960 survey and the four year time difference could account for the differences in the soundings. ✓

Comparison of this survey and prior surveys H-1879, 1:20,000, 1888, and H-1947, 1:20,000, 1889, which cover parts of the present survey is very difficult. In general, there is reasonable agreement in depths over 25 feet; in the shoaler areas, however, little agreement is to be found. Because of the great time difference between the surveys, this is only to be expected. ✓

#### K. COMPARISON WITH THE CHART

Comparison with C&GS Chart 1209, 1:80,000, eleventh edition revised 11 November 1963, shows considerable disagreement in the vicinities of the following shoals; Hawes, Longshoal, Shovelful and Luckernuck. As mentioned in Section J, in the deeper areas of the survey reasonable agreement was found. ✓

#### L. ADEQUACY OF SURVEY

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

#### M. AIDS TO NAVIGATION

There were no aids to navigation with in the survey limits. ✓

1964

N. STATISTICS

<u>Vessel</u>	<u>Number of Positions</u>	<u>Nautical Miles Sounding Lines</u>
Launch #1	1423	291.5
Launch #2	392	86.8
TOTAL	<u>1815</u>	<u>388.3</u>

Total area surveyed -- 15.4 square nautical miles  
Number of bottom samples -- 19

Respectfully submitted

Leonard E. Pickens  
LTJG, USC&GS

TIDE NOTE

A portable automatic tide gage was used as a reference ✓  
for the tidal data of this survey using 60°W(ZD+4) as  
the time meridian. The gage was located in Edgartown  
Harbour, Chappaquiddick Island, Lat 41° 23.2'N,  
Long. 70° 30.2'W.

Mean Low Water on the staff and any time corrections  
will be supplied by the Washington Office.

*Plane of reference approved, division of tides and currents - June 1-1966.  
all volumes stamped.*

VELOCITY CORR'N ✓

LAUNCH 1

OPR-369 1964

Depth (ft.)	Corr'n (ft.)	Interval
0.0-5.6	-0.6	
5.7-6.6	-0.4	
6.7-8.0	-0.2	
8.1-10.0	0.0	
10.1-12.8	+0.2	
12.9-18.1	+0.4	
18.2-22.1	+0.6	
22.2-26.3	+0.8	
26.4-31.3	+1.0	
31.4-36.2	+1.2	
36.3-40.0	+1.4	
40.1-43.1	+1.6	
43.2-46.4	+1.8	
46.5-50.6	+2.0	
50.7-54.4	+2.2	
54.5-58.3	+2.4	
58.4-60.9	+2.6	
61.0-64.2	+2.8	
64.3-71.2	+3.0	
71.3-79.3	+3.2	
79.4-88.0	+3.4	
88.1-95.0	+3.6	
95.1-103.0	+3.8	
103.1-111.0	+4.0	
111.1-118.5	+4.2	
118.6-126.5	+4.4	
126.6-134.5	+4.6	
134.6.....	+4.8	

9 JUNE thru 25 JULY 1964

3.5- 4.5	-1.0
4.6- 5.3	-0.8
5.4- 6.2	-0.6
6.3- 7.2	-0.4
7.3- 8.5	-0.2
8.6-10.4	0.0
10.5-13.0	+0.2
13.1-19.3	+0.4
19.4-27.0	+0.6
27.1-33.0	+0.8
33.1-37.8	+1.0
37.9-41.8	+1.2
41.9-45.1	+1.4
45.2....	+1.6

1 OCT. thru 10 OCT. 1964

VELOCITY CORR'N ✓

LAUNCH 1

OPR-369 1964

Depth (ft.)	Corr'n (ft.)	Interval
0.0- 5.5	-0.6	
5.6- 6.4	-0.4	
6.5- 7.6	-0.2	
7.7- 9.1	0.0	
9.2-11.2	+0.2	
11.3-14.0	+0.4	
14.1-18.7	+0.6	
18.8-23.5	+0.8	
23.6-28.0	+1.0	
28.1-32.1	+1.2	
32.2-35.9	+1.4	
36.0-39.5	+1.6	
39.6-46.8	+1.8	
46.9-52.4	+2.0	26 JULY thru 30 SEPT. 1964
52.5-58.0	+2.2	
58.1-64.5	+2.4	
64.6-68.9	+2.6	
69.0-74.4	+2.8	
74.5-79.9	+3.0	
80.0-85.4	+3.2	
85.5-90.9	+3.4	
91.0-96.4	+3.6	
96.5-101.9	+3.8	
102.0-107.4	+4.0	
107.5-112.9	+4.2	
113.0-118.4	+4.4	
118.5-123.9	+4.6	
124.0-129.4	+4.8	
129.5...	+5.0	

SETTLEMENT AND SQUAT CORRECTION, LCH #1 and#2

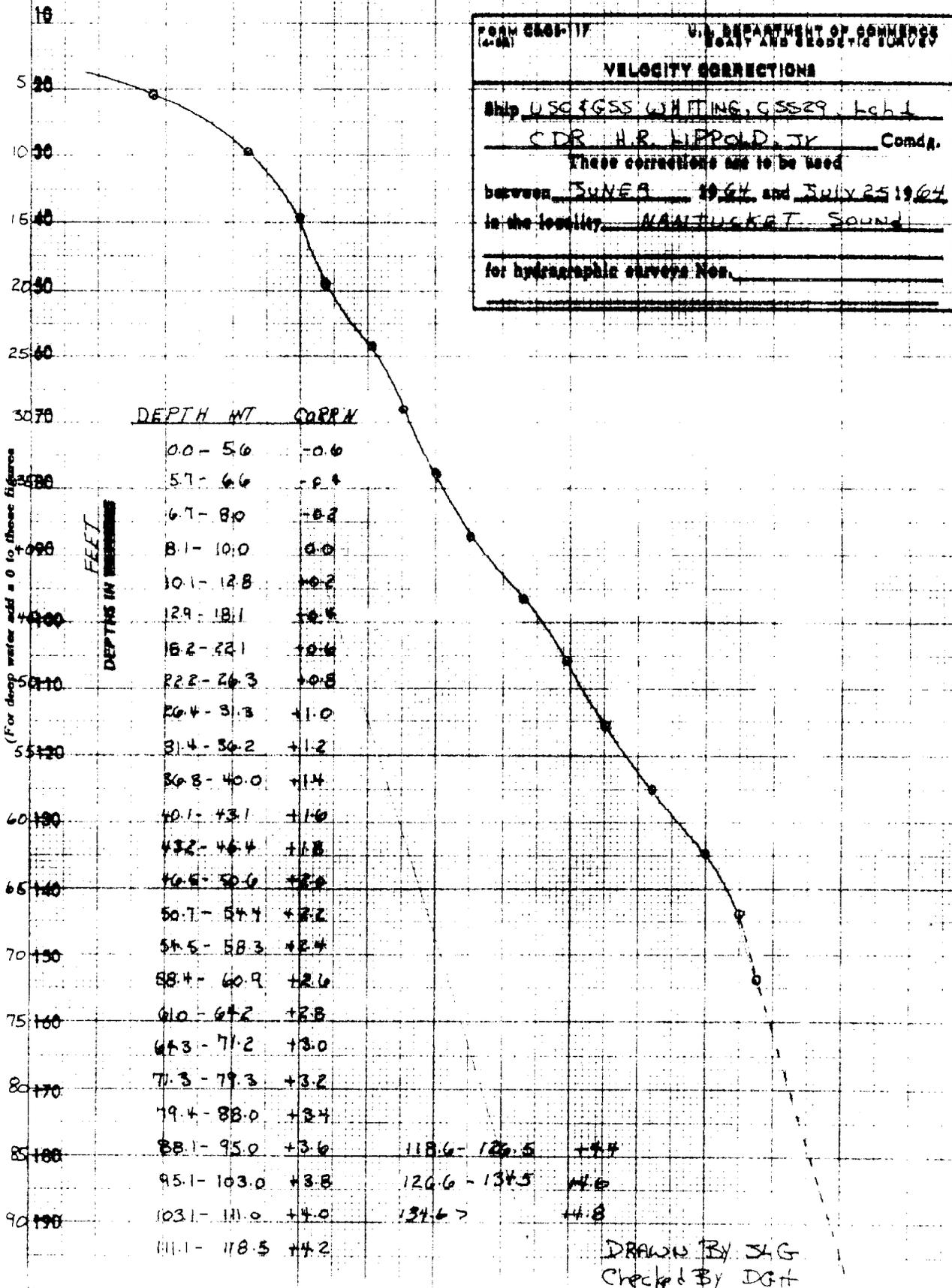
Speed (RPM)	Correction (feet)
0 - 1000	0.0
1000 - 2400	+0.2
2400 - - - - -	0.0

(Let 1 inch equal 4 fathoms for deep water and 1 inch equal 0.4 fathom for shallows)

-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

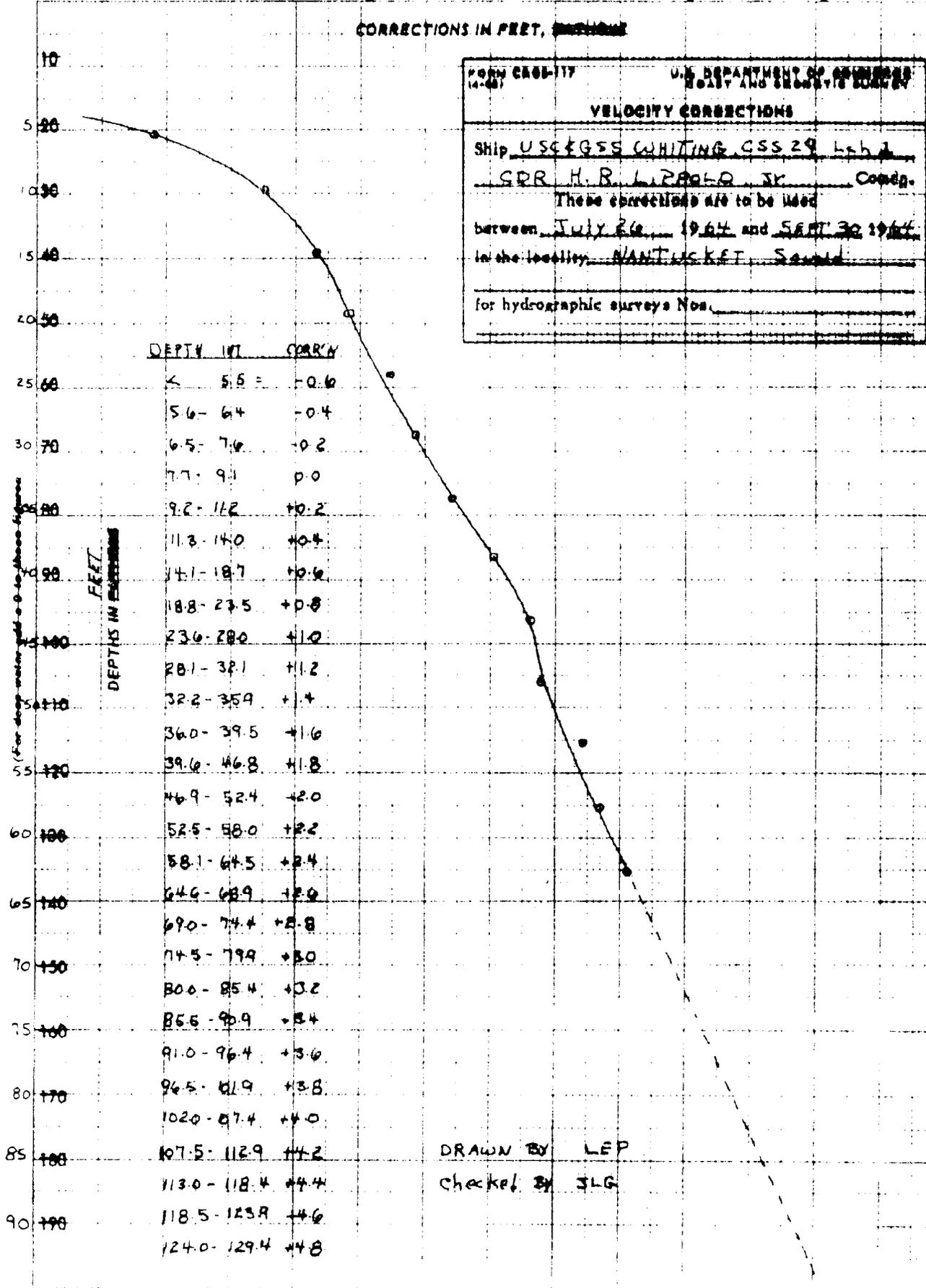
CORRECTIONS IN FEET, ~~MINUTES~~

FORM 5606-17 (2-54)	U.S. DEPARTMENT OF COMMERCE NAVY AND GEODETIC SURVEY
<b>VELOCITY CORRECTIONS</b>	
Ship <u>USCGC W. WHITING, GSS29</u> Leg <u>1</u>	
Comd. <u>CDR H.R. WILPOD, JR</u>	
These corrections are to be used between <u>JUNE 9</u> 19 <u>64</u> and <u>JULY 25</u> 19 <u>64</u> in the locality <u>NAANTUCKET SOUND</u>	
for hydrographic surveys Nos. _____	



DRAWN BY: JAG  
Checked By: DGT

(Let 1 inch equal 4 fathoms for deep water and 1 inch equal 0.4 fathom for shallow)



FORM CGO-117  
14-481

U.S. DEPARTMENT OF COMMERCE  
NAVY AND COAST GUARD

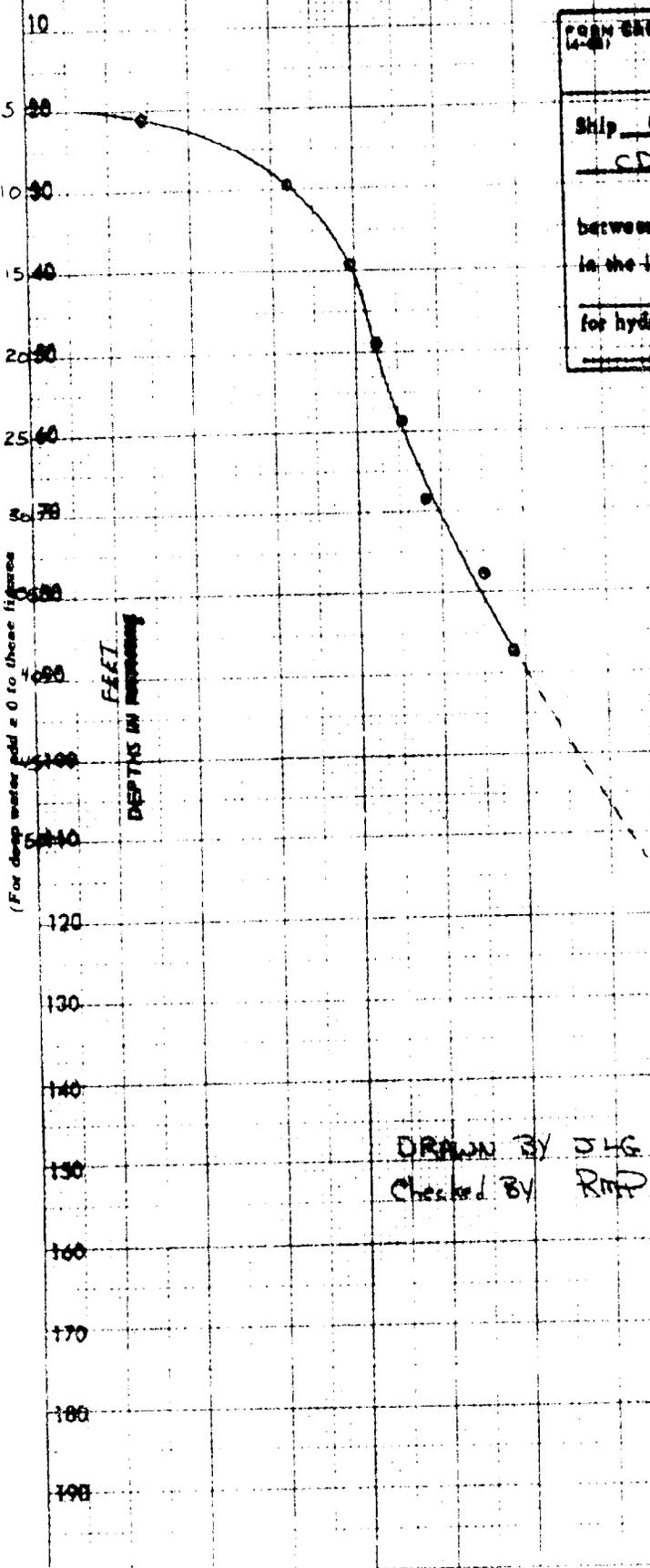
**VELOCITY CORRECTIONS**

Ship USS EGGS WHITING, CSS 29, Lsb J  
 Comd. GDR H. R. LIPPOLO, JR.  
 These corrections are to be used  
 between JULY 20, 1964 and SEPT 30, 1964  
 in the locality NANTUCKET, SOUND  
 for hydrographic surveys Nos. \_\_\_\_\_

(Let 1 inch equal 4 fathoms for deep water and 1 inch equal 0.4 fathoms for shoal.)

-0.8 -0.4 0.0 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0

CORRECTIONS IN FEET, POSITIVE



FORM 5501-117 (4-54)	U.S. DEPARTMENT OF COMMERCE NAVY AND OCEANOGRAPHIC SERVICE
<b>VELOCITY CORRECTIONS</b>	
Ship <u>USCGC WHTING 65507 Lib 1</u>	
Commander <u>CDR H. R. LIPPOLD, JR.</u>	
These corrections are to be used between <u>Oct 1 1964</u> and <u>Oct 10 1964</u>	
in the locality <u>NANTUCKET ISLAND</u>	
for hydrographic surveys Nos. _____	

DEPTH INT	CORR IN
3.5 - 4.5	-1.0
4.6 - 5.3	-0.8
5.4 - 6.2	-0.6
6.3 - 7.2	0.4
7.3 - 8.6	0.8
8.6 - 10.4	0.9
10.5 - 13.0	+0.2
13.1 - 19.3	+0.4
19.4 - 27.0	+0.6
27.1 - 38.0	+0.8
38.1 - 57.0	+1.0
57.1 - 71.8	+1.2
71.9 - 95.1	+1.4
95.2 >	+1.6

DRAWN BY UHG  
Checked BY RTH

(For deep water add ± 0 to these figures)

DEPTH IN FEET

KOE 20 X 20 TO THE INCH 150 107

VELOCITY CORR'N

LAUNCH 2      OPR-369 1964

Depth(ft.)    Corr'n(ft.)    Interval

< 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
42.6-59.1	+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

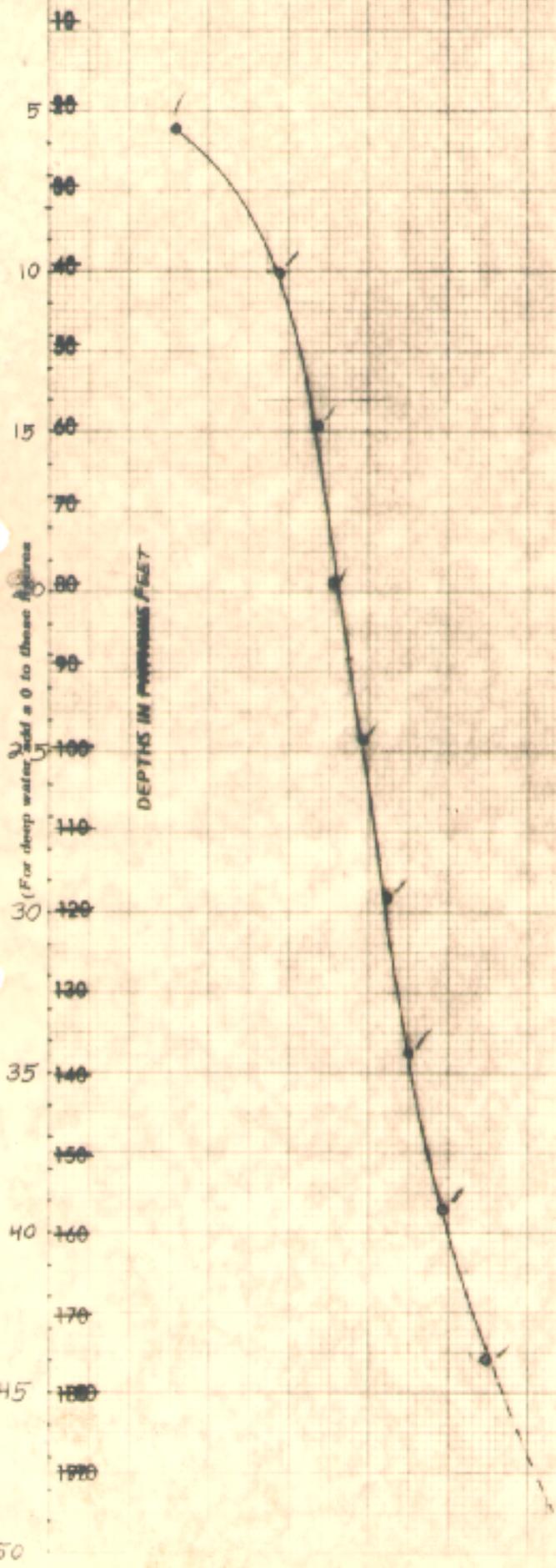
14 July-7 Sept.(pos. 12) 1964

< 5.9	-0.6
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
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

7 Sept.(pos. 13)- 9 Oct. 1964

CORRECTIONS IN FEET, FATHOMS

FORM 5500-17 (2-64)	U.S. DEPARTMENT OF COMMERCE COAST AND GEODESIC SURVEY
<b>VELOCITY CORRECTIONS</b>	
Ship <u>USCGC Whiting, CSS 29, LAUNCH 2</u>	
Lt. Cdr. <u>H. R. Lippold, Jr.</u> Comdg.	
These corrections are to be used between <u>7 SEPT. (0000) 1964</u> and <u>9 OCT. 1964</u> in the locality <u>NANTUCKET SOUND</u>	
for hydrographic surveys Nos. _____	



DEPTH INT'L	CORRN
< 59'	-0.6'
59 - 72'	-0.4'
72 - 93'	-0.2'
93 - 138'	+0.0'
138 - 221'	+0.2'
221 - 305'	+0.4'
305 - 375'	+0.6'
375 - 420'	+0.8'
420 - 454'	+1.0'
454 - 484'	+1.2'
484 - 508'	+1.4'
> 508'	+1.6'

DRAWN BY: *RAP*  
 CHECKED BY: *RMS*

U.S. GOVERNMENT PRINTING OFFICE: 1964 O 558-170

XERO COPY

XERO COPY

XERO COPY

LAUNCH #1  
 PROJECT OPR \*-369  
 1964 SEASON

HIRAN CORRECTIONS

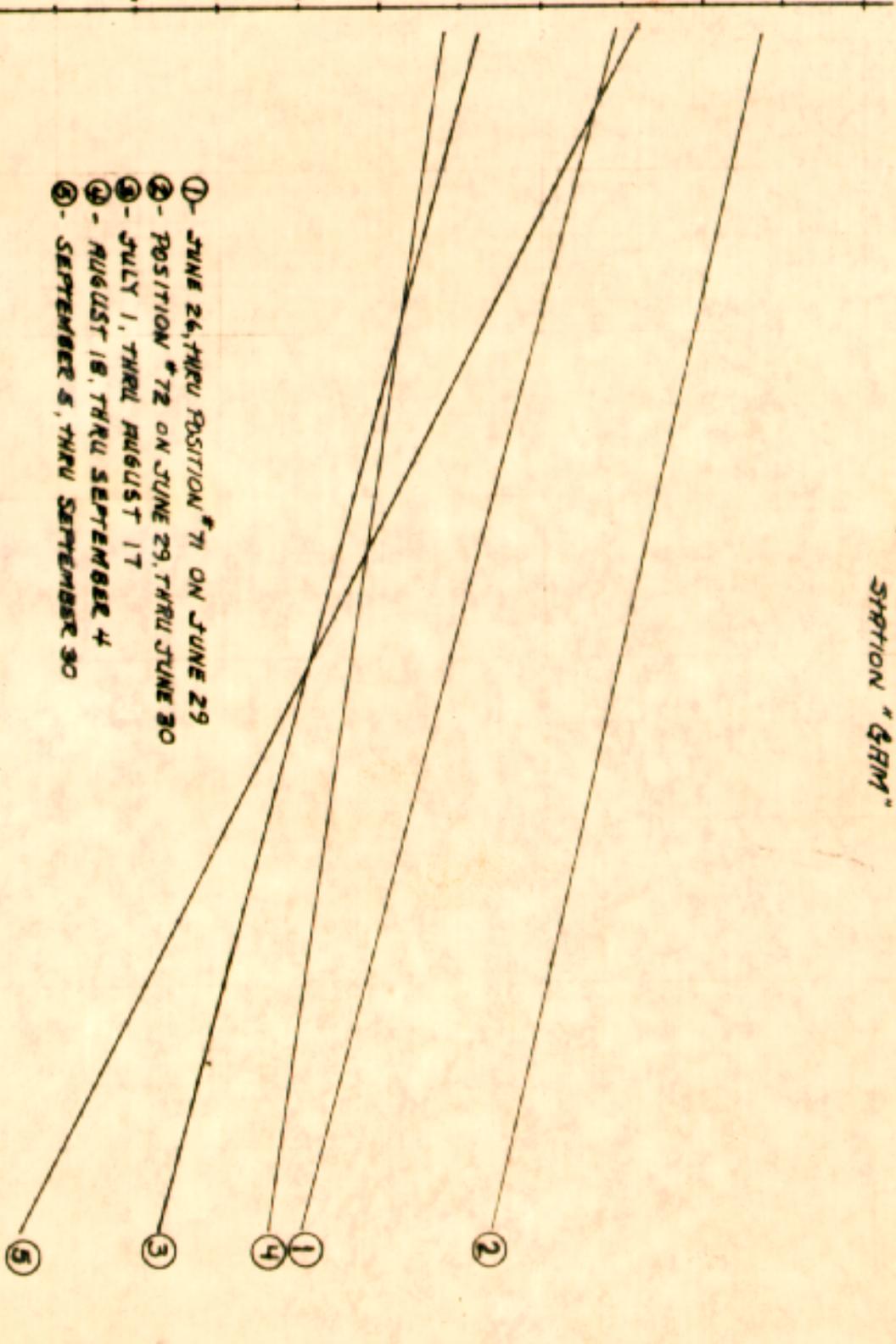
NECK			GAM		
date	limits	corrections	date	limits	corrections
26/6	2.000 - 8.999	+0.030	26/6	2.800 - 8.199	0.000
thru	9.000 - 16.199	+0.025	thru	8.200 - 13.599	-0.005
30/6	16.200 - 20.000	+0.020	position #71 on 29/6	13.600 - 19.000	-0.010
1/7	2.000 - 12.399	0.000			
thru	12.400 - 20.000	-0.005			
20/7			from position #72 on 29/6	2.000 - 4.399	+0.015
			thru	4.400 - 9.599	+0.010
21/7	2.000 - 4.999	-0.005	30/6	9.600 - 14.999	+0.005
thru	5.000 - 11.999	-0.010		15.000 - 20.000	0.000
3/8	12.000 - 18.599	-0.015			
	18.600 - 20.000	-0.020			
4/8			1/7	2.000 - 4.299	-0.005
thru	2.000 - 6.199	0.000	thru	4.300 - 9.499	-0.010
22/8	6.200 - 13.399	-0.005	17/8	9.500 - 14.999	-0.015
&				15.000 - 20.000	-0.020
24/8	13.400 - 20.000	-0.010			
thru			18/8	2.000 - 2.999	-0.005
4/9			thru	3.000 - 12.599	-0.010
the	2.000 - 3.399	+0.035	4/9	12.600 - 20.000	-0.015
day	3.400 - 10.199	+0.030			
of	10.200 - 17.199	+0.025	5/9	2.400 - 5.199	-0.000
23/8	17.200 - 20.000	+0.020	thru	5.200 - 7.999	-0.005
			30/9	8.000 - 10.799	-0.010
5/9	3.000 - 10.399	+0.010		10.800 - 13.699	-0.015
thru	10.400 - 17.599	+0.005		13.700 - 16.499	-0.020
14/9	17.600 - 20.000	0.000		16.500 - 19.400	-0.025
15/9	2.000 - 5.399	+0.025			
thru	5.400 - 9.999	+0.020			
30/9	10.000 - 14.799	+0.015			
	14.800 - 19.399	+0.010			

gllg

LRUNCH # 1  
 PROJECT DPR - 369  
 1964 FIELD SEASON  
 AIRRN CORRECTION CURVES  
 STATION "GRM"

CORRECTIONS  
(STATUTE MILES)

+0.020  
 +0.015  
 +0.010  
 +0.005  
 0.000  
 -0.005  
 -0.010  
 -0.015  
 -0.020  
 -0.025  
 -0.030

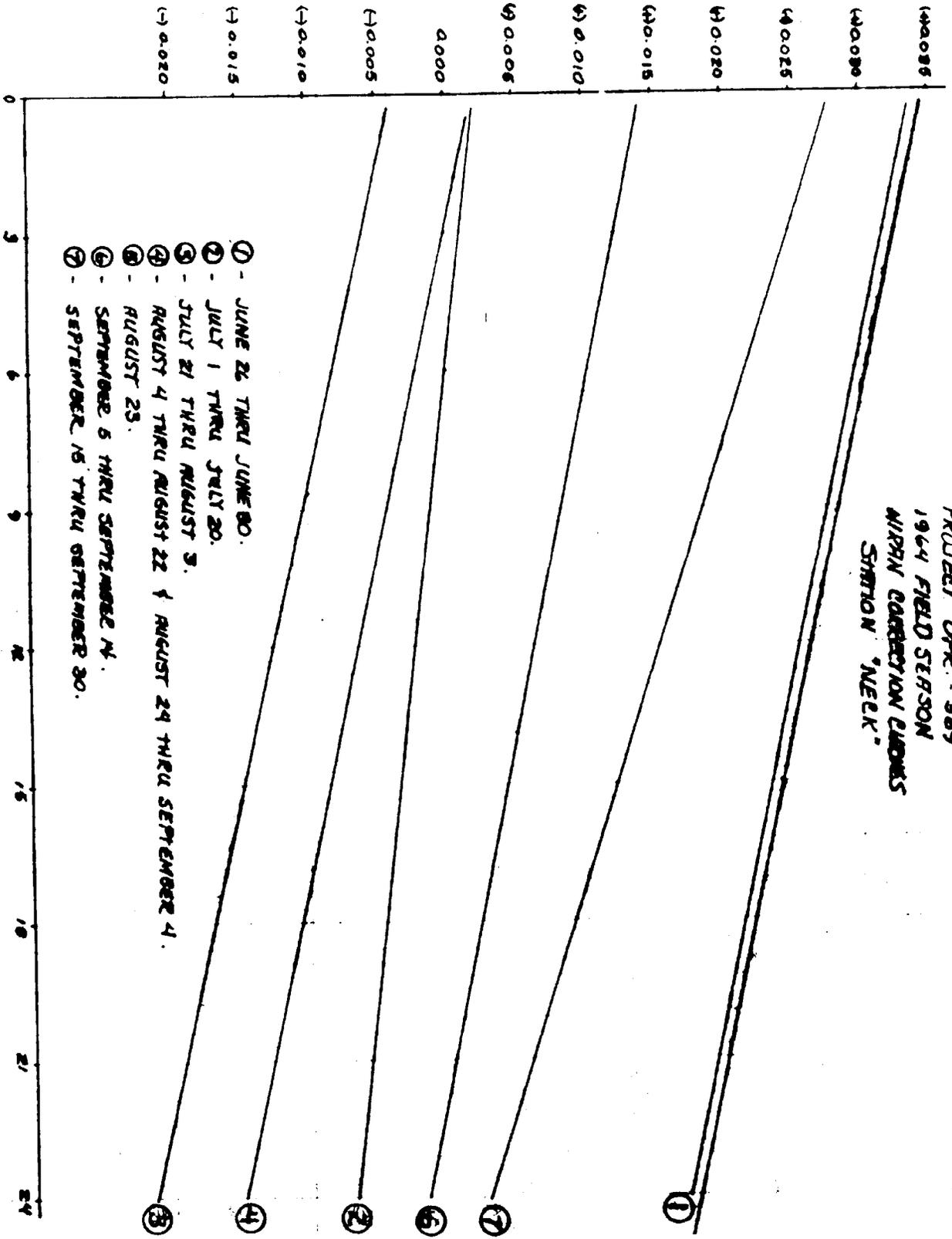


- ① - JUNE 26, THRU POSITION # 71 ON JUNE 29
- ② - POSITION # 72 ON JUNE 29, THRU JUNE 30
- ③ - JULY 1, THRU AUGUST 17
- ④ - AUGUST 18, THRU SEPTEMBER 4
- ⑤ - SEPTEMBER 5, THRU SEPTEMBER 30

ELECTRONIC DISTANCE  
 (STATUTE MILES)

CORRECTIONS

(STATUTE MILES)



BRANCH # 1  
 PROJECT OPR. 369  
 1964 FIELD SEASON  
 WIPAC CORRECTION CURVES  
 STATION "NECK"

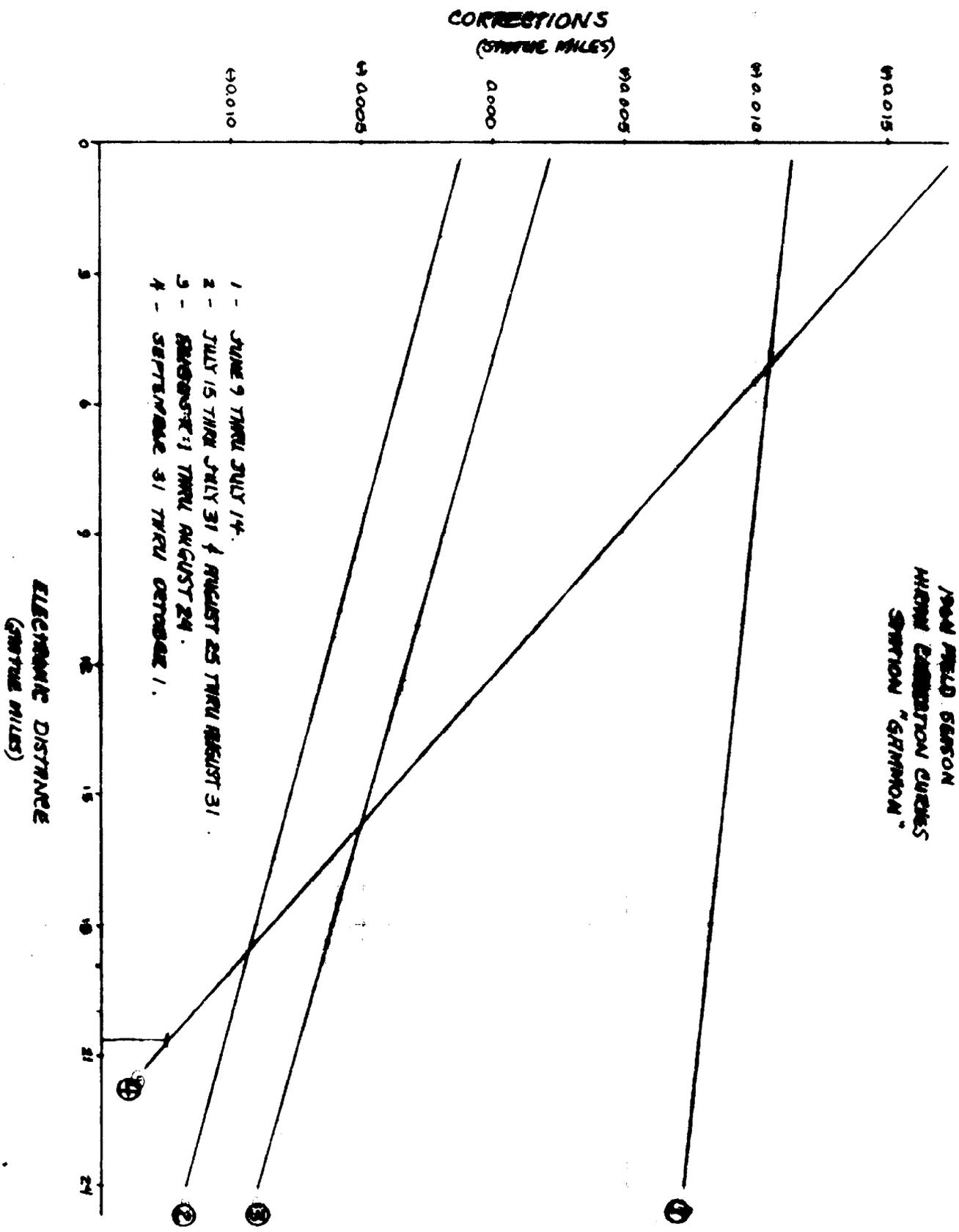
## LAUNCH # 2

ABSTRACT OF HIRAN COLLECTIONS

OPR 369 1964

DATE		SAMPLING		1	NECK	
From	To	dist	corr'n		dist	corr'n
1 JUNE	14 JULY	2000-20,000	+0.010		3,900-4,949	+0.040
					4,950-6,199	+0.035
					6,200-7,319	+0.030
					7,320-8,549	+0.025
					8,550-9,699	+0.020
					9,700-10,999	+0.015
					11,000-12,049	+0.010
					12,050-13,349	+0.005
					13,350-14,449	0.000
					14,450-15,649	-0.005
					15,650-16,799	-0.010
					16,800-17,999	-0.015
					18,000-19,200	-0.020
15 JULY	31 JULY	3,000-14,999	-0.005		2,000-9,199	+0.005
		15,000-20,000	-0.010		9,200-19,600	0.000
1 AUG	24 AUG	2,000-9,499	0.000		2,000-7,499	+0.025
		9,500-20,000	-0.005		7,500-19,999	+0.020
					19,400-20,000	+0.015
25 AUG	31 AUG	3,000-14,999	-0.005		2,000-9,199	+0.005
		15,000-20,000	-0.010		9,200-19,600	0.000
1 SEPT	1 OCT	2,400-9,399	+0.015		2,400-12,499	+0.020
		3,400-7,999	+0.010		13,500-8,999	+0.015
		2,500-10,199	+0.005		18,600-20,000	+0.010
		10,200-14,299	±0.000			
		14,300-17,099	-0.005			
		17,000-20,000	-0.010			

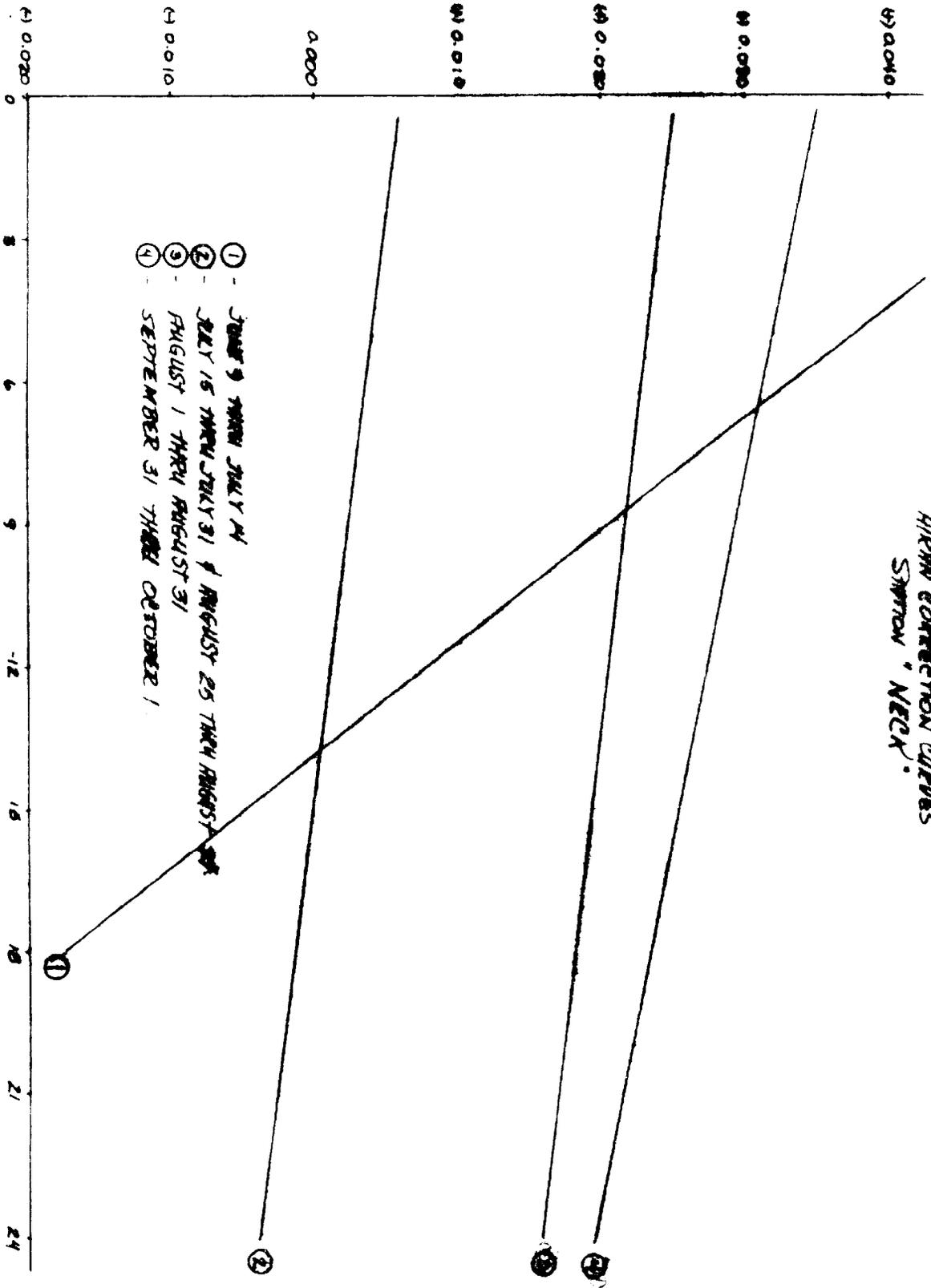
LARNEH # 2  
 PROJECT OPR - 369  
 1964 FIELD SEASON  
 HIGH CALIBRATION CHECKS  
 STATION "GRINNON"



DRAWN BY JTG.

LUNCH # 2  
 PROJECT OPR - 869  
 1964 FIELD SEASON  
 HIGH CORRECTION CURVES  
 SIMON 'NECK'

CORRECTIONS  
(STATUTE MILES)



- ① - THURSDAY JULY 24
- ② - WEDNESDAY JULY 31
- ③ - THURSDAY AUGUST 31
- ④ - THURSDAY SEPTEMBER 31

ELECTRONIC DISTANCE  
 (STATUTE MILES)



8761

Diag. Cht. No. 1209-3.

<b>Form 504</b> U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
<b>DESCRIPTIVE REPORT</b>	
Type of Survey	Hydrographic
Field No. <b>GI-12.5-1-60</b>	Office No. <b>H-8761</b>
<b>LOCALITY</b>	
State	Massachusetts
General locality	Cape Cod
Locality	Nantucket Sound
<u>1964</u>	
<b>CHIEF OF PARTY</b>	
CDR H.R. Lippold, Jr.	
<b>LIBRARY &amp; ARCHIVES</b>	
DATE _____	

HYDROGRAPHIC TITLE SHEET

H-8761

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.

GI-12.5-1-60

State Massachusetts

General locality Cape Cod

Locality Nantucket Sound

Scale 1:12,500 Date of survey 1964

Instructions dated March 11, 1963 Project No. OPR-369

Vessel USC&GSS WHITING

Chief of party CDR H.R. Lippold, Jr.

Surveyed by ship's officers  
echo sounder

Soundings taken by ~~ship's officers, lead line~~ echo sounder

Graphic record scaled by ship's personnel

Graphic record checked by ship's personnel

Protracted by D.C. Calland (Norfolk Office)

Soundings penciled by D.C. Calland " "

Soundings in ~~3000~~ feet at MLW ~~3000~~

REMARKS: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DESCRIPTIVE REPORT TO ACCOMPANY  
HYDROGRAPHIC SURVEY H-8761  
FIELD NO. GI-12.5-1-60

Nantucket Sound, Massachusetts

Scale: 1:12,500  
1964

ship WHITING  
H.R. Lippold, Jr. comdg

Surveyed by :

CDR H.R. Lippold, Jr.  
LT James Collins  
LT L.E. Pickens  
Ens. J.L. Gammon

A. PROJECT ✓

See descriptive report 1963 for this sheet.

B. Area Surveyed ✓

See descriptive report 1963.

C. Sounding Vessel

This season's work was done using launch 1 of the WHITING. ✓  
Launch I used purple lower-case day letters.

D. Sounding Equipment

Soundings were taken using a Ratheon DE-723 fathometer, ✓  
unit no. 250.

E. Smooth Sheet

See descriptive report 1963. ✓

F. Control

See descriptive report 1963. Also refer to tables in back ✓  
of this report.

G. Shoreline

There is no shoreline on this sheet.

H. Crosslines

Crosslines were run to the extent of between 5 and 10 per cent. Some differences do exist for essentially the same reasons given in the 1963 report.

I. Junctions

See descriptive report 1963

J. Comparison with prior surveys

See descriptive report 1963

K. Comparison with the chart

See descriptive report 1963

L. Adequacy of Survey

See descriptive report 1963

M. Aids to Navigation

See descriptive report 1963

N. Statistics

<u>Vessel</u>	<u>No. of Positions</u>	<u>Nautical miles Sounding line</u>
Launch 1	369	53.3

No bottom samples were taken, no square nautical miles of area is reported because the operation was more of a cleaning up process than anything else. The majority of the work recently done on GI-12.5-1-60 is discussed in the 1963 season's report on the same.

Respectfully submitted,

*John D. Boon III*  
John D. Boon III  
LTJG, USC&GS

### TIDE NOTE

A portable automatic tide gage was installed in Edgartown Harbour at Lat.  $41^{\circ}23.2'N$ , Long.  $70^{\circ}30.2'W$ . The time meridian used was  $60^{\circ}W$ . MLW on the tide staff was 2.3 feet; the time difference relative to the Edgartown gage was  $-1/4$  hr., the range ratio one (1).

VELOCITY CORR'N

LAUNCH 1

OPR-369 1964

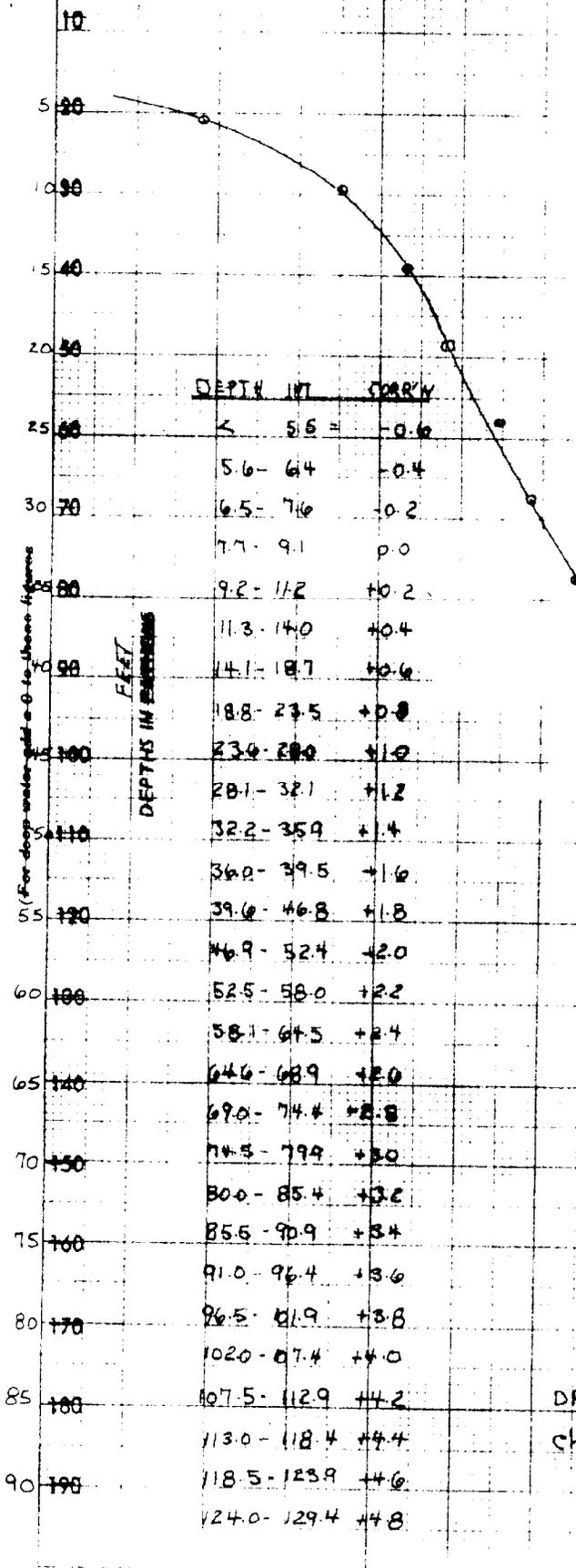
Depth (ft.)	Corr'n (ft.)	Interval
0.0- 5.5	-0.6	
5.6- 6.4	-0.4	
6.5- 7.6	-0.2	
7.7- 9.1	0.0	
9.2-11.2	+0.2	
11.3-14.0	+0.4	
14.1-18.7	+0.6	
18.8-23.5	+0.8	
23.6-28.0	+1.0	
28.1-32.1	+1.2	
32.2-35.9	+1.4	
36.0-39.5	+1.6	
39.6-46.8	+1.8	
46.9-52.4	+2.0	
52.5-58.0	+2.2	
58.1-64.5	+2.4	
64.6-68.9	+2.6	
69.0-74.4	+2.8	
74.5-79.9	+3.0	
80.0-85.4	+3.2	
85.5-90.9	+3.4	
91.0-96.4	+3.6	
96.5-101.9	+3.8	
102.0-107.4	+4.0	
107.5-112.9	+4.2	
113.0-118.4	+4.4	
118.5-123.9	+4.6	
124.0-129.4	+4.8	
129.5...	+5.0	

26 JULY thru 30 SEPT. 1964

-0.8 -0.4 (Let 1 inch equal 4 fathoms for deep water and 1 inch equal 0.4 fathom for shoal) 0.0 +0.4 +0.8 +1.2 +1.6 +2.0 +2.4 2.8 3.2 3.6

CORRECTIONS IN FEET, POSITIVE

FORM 565-117 (4-44)	U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY
<b>VELOCITY CORRECTIONS</b>	
Ship <u>USCGC WHITING, GSS 29 Feb 2</u>	
CDR <u>H. R. LIPPOLD, JR.</u> Comdr.	
These corrections are to be used between <u>JULY 26 1964</u> and <u>SEPT 30 1964</u> in the locality <u>NANTUCKET Sound</u>	
for hydrographic surveys Nos. _____	



DEPTH	INT	CORR'N
5	5.6	-0.6
10	5.6-64	-0.4
15	6.5-71.6	-0.2
20	7.7-9.1	0.0
25	9.2-11.2	+0.2
30	11.3-14.0	+0.4
35	14.1-18.7	+0.6
40	18.8-23.5	+0.8
45	23.6-28.0	+1.0
50	28.1-32.1	+1.2
55	32.2-35.9	+1.4
60	36.0-39.5	+1.6
65	39.6-46.8	+1.8
70	46.9-52.4	+2.0
75	52.5-58.0	+2.2
80	58.1-64.5	+2.4
85	64.6-68.9	+2.6
90	69.0-74.4	+2.8
	74.5-79.9	+3.0
	80.0-85.4	+3.2
	85.5-90.9	+3.4
	91.0-96.4	+3.6
	96.5-101.9	+3.8
	102.0-107.4	+4.0
	107.5-112.9	+4.2
	113.0-118.4	+4.4
	118.5-123.9	+4.6
	124.0-129.4	+4.8

DRAWN BY LEP  
CHECKED BY SLG

LAUNCH #1

PROJECT OPR \*-369

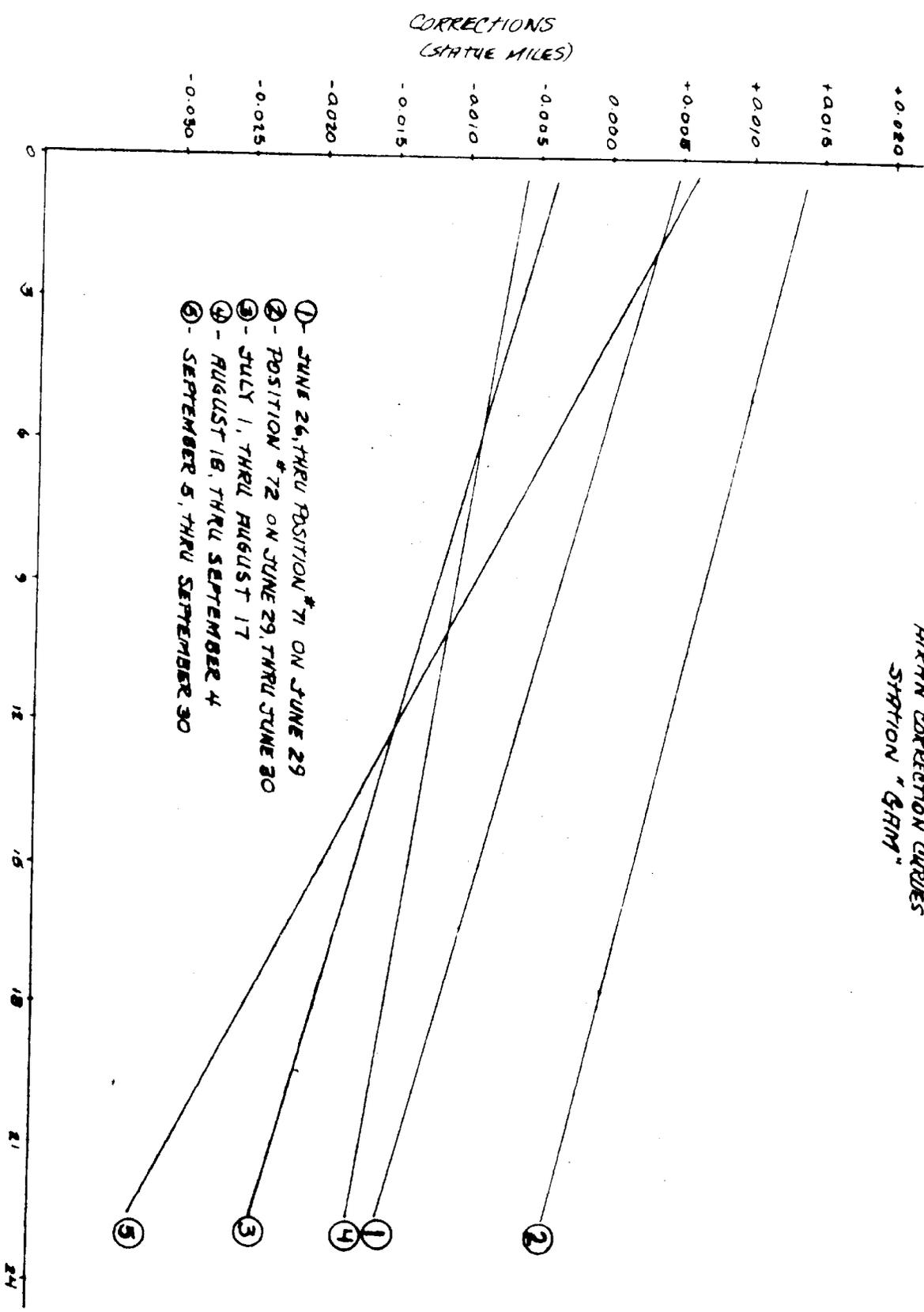
1964 SEASON

HIRAN CORRECTIONS

NECK			GAM		
date	limits	corrections	date	limits	corrections
26/6	2.000 - 8.999	+0.030	26/6	2.800 - 8.199	0.000
thru	9.000 - 16.199	+0.025	thru	8.200 - 13.599	-0.005
30/6	16.200 - 20.000	+0.020	position #71 on 29/6	13.600 - 19.000	-0.010
1/7	2.000 - 12.399	0.000			
thru	12.400 - 20.000	-0.005			
20/7			from position #72 on 29/6	2.000 - 4.399	+0.015
			thru	4.400 - 9.599	+0.010
21/7	2.000 - 4.999	-0.005	thru	9.600 - 14.999	+0.005
thru	5.000 - 11.999	-0.010	30/6	15.000 - 20.000	0.000
3/8	12.000 - 18.599	-0.015			
	18.600 - 20.000	-0.020			
4/8			1/7	2.000 - 4.299	-0.005
thru	2.000 - 6.199	0.000	thru	4.300 - 9.499	-0.010
22/8	6.200 - 13.399	-0.005	17/8	9.500 - 14.999	-0.015
&				15.000 - 20.000	-0.020
24/8	13.400 - 20.000	-0.010			
thru			18/8	2.000 - 2.999	-0.005
4/9			thru	3.000 - 12.599	-0.010
the	2.000 - 3.399	+0.035	4/9	12.600 - 20.000	-0.015
day	3.400 - 10.199	+0.030			
of	10.200 - 17.199	+0.025	5/9	2.400 - 5.199	-0.000
23/8	17.200 - 20.000	+0.020	thru	5.200 - 7.999	-0.005
			30/9	8.000 - 10.799	-0.010
5/9	3.000 - 10.399	+0.010		10.800 - 13.699	-0.015
thru	10.400 - 17.599	+0.005		13.700 - 16.499	-0.020
14/9	17.600 - 20.000	0.000		16.500 - 19.400	-0.025
15/9	2.000 - 5.399	+0.025			
thru	5.400 - 9.999	+0.020			
30/9	10.000 - 14.799	+0.015			
	14.800 - 19.399	+0.010			

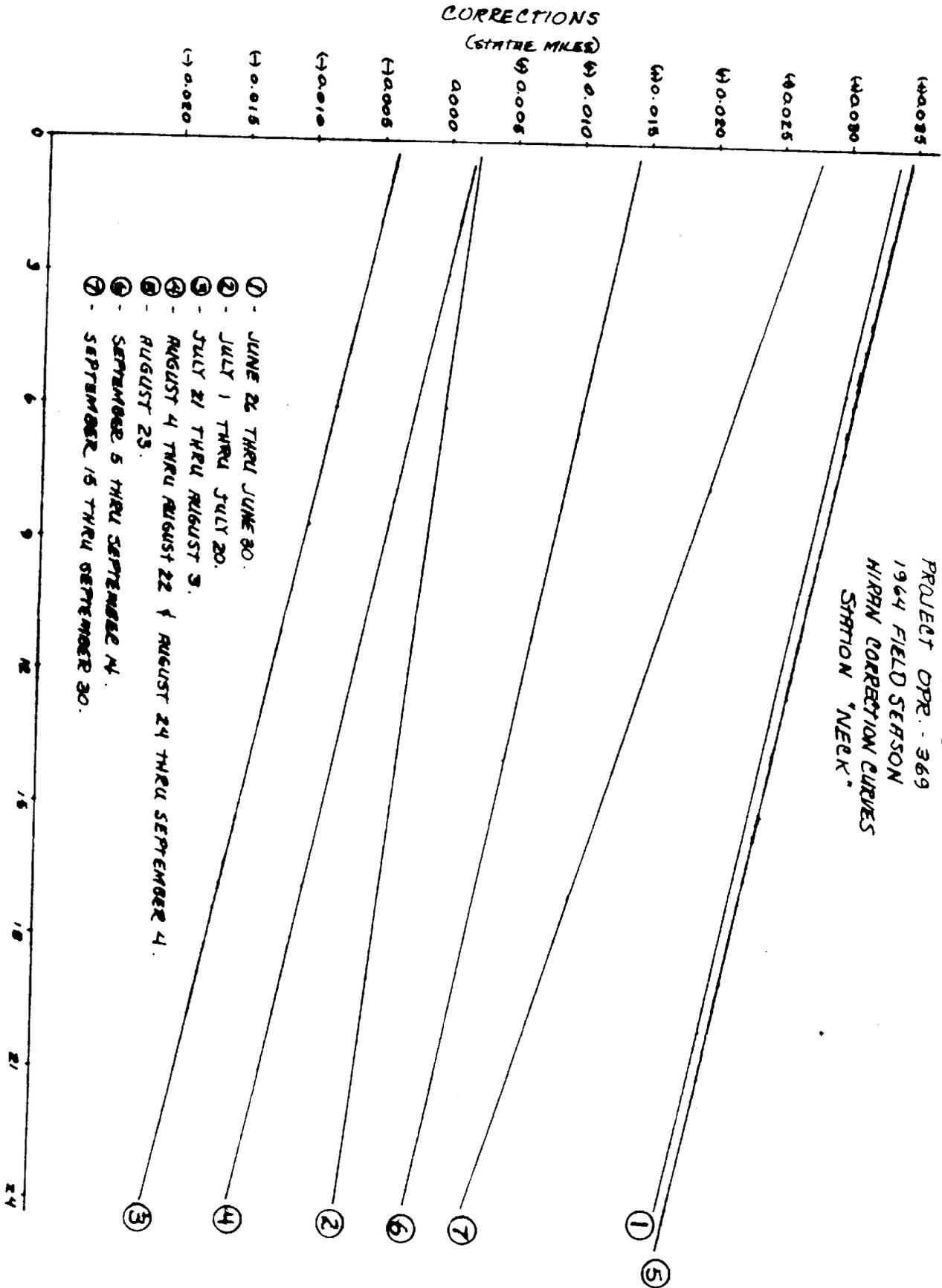
926

LUNNEN # 1  
 PROJECT ORR - 869  
 1964 FIELD SEASON  
 AIRRN CORRECTION CURVES  
 STATION "GRM"



- ① - JUNE 26, THRU POSITION # 71 ON JUNE 29
- ② - POSITION # 72 ON JUNE 29, THRU JUNE 30
- ③ - JULY 1, THRU AUGUST 17
- ④ - AUGUST 18, THRU SEPTEMBER 4
- ⑤ - SEPTEMBER 5, THRU SEPTEMBER 30

LHUNCH - 1  
 PROJECT OPR. - 369  
 1964 FIELD SEASON  
 M/RBN CORRECTION CURVES  
 STATION "NECK"



- ① - JUNE 26 THRU JUNE 30.
- ② - JULY 1 THRU JULY 20.
- ③ - JULY 21 THRU AUGUST 3.
- ④ - AUGUST 4 THRU AUGUST 22 & AUGUST 24 THRU SEPTEMBER 4.
- ⑤ - AUGUST 23.
- ⑥ - SEPTEMBER 5 THRU SEPTEMBER 14.
- ⑦ - SEPTEMBER 15 THRU SEPTEMBER 30.

DRAWN BY JLG.

SETTLEMENT & SQUAT CORRECTION

Speed(rpm)	Correction(feet)
0000--1000	0.0
1000--2400	-0.2
2400-----	0.0

NORFOLK HYDROGRAPHIC PROCESSING BRANCH  
 FLOATING AIDS TO NAVIGATION  
 H-8761

<u>BUOY</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>DEPTH</u>	<u>POS. NO.</u>	<u>DATE</u>
NANTUCKET SD. MAIN CHAN.					
Tuckernuck Shoal Buoy 7A	41-24.69'	70-12.95'	73'	195b(gr)	10/6/63 ✓
Cross Rip Shoal South End Buoy 8	26.11	17.11	35	108h(pur)	10/2/63 ✓
Cross Rip Buoy 9	26.83	17.49	41	199e(pur)	9/25/63 ✓
Cross Rip Lightship	27.00	17.38	62	198e(pur)	9/25/63 ✓
Cross Rip Light- ship Buoy	26.99	17.53	67	20g(pur)	10/1/63 ✓
Norton Shoal North- east Buoy 11	26.20	19.82	-	168c(pur)	9/20/63 ✓
MUSKEGET CHANNEL					
Hawes Shoal North Part Buoy 13	25.75	25.03	26	1da(or)	10/12/60 ✓

NORFOLK RECORDS PROCESSING BRANCH  
ADDENDUM  
To Accompany

HYDROGRAPHIC SURVEY H-8761 (G1 12.5-1-60)

GENERAL

This survey is a composite of work done by Ship Gilbert during the 1960 field season (ga day, vol. 39, is dated 1961) and that done by Ship Whiting during the 1963 and 1964 seasons. Except for shoran and velocity, Ship Gilbert submitted no other field reports. The 1964 work by Ship Whiting is covered in a separate descriptive report as one boat sheet was mistakenly designated as a different survey. Under these circumstances there are understandably duplications in day letter colors, however, where these conflicts occurred they were changed by this Office. All colors now used in the record books correspond with those on the smooth sheet.

Due to the lapse of time between the field work done by the Gilbert and Whiting, and because of the unstable character of the bottom in this area, only that part of the Gilbert work needed to fill in holidays was smooth plotted. The positions plotted are being submitted on an overlay where soundings shown in pencil designate those transferred to the smooth sheet. Those shown in black ink are ones in apparent disagreement with later hydrography and were not smooth plotted. It is being left to the discretion of Washington Office to determine if these inked soundings represent present depths, or if the disagreement is caused by bottom changes.

Most of the Gilbert work falling in the area covered by Whiting boat sheet designated Wh 12.5-1-64 was not smooth plotted as the area appears to have been adequately developed by the Whiting in 1964.

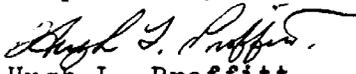
SOUNDINGS

Except for D day, Ship Whiting, depths at crossings are in generally good agreement over the area of the survey. Soundings on this day average from 1 to 3 feet deeper than surrounding launch work. There are a few other scattered instances of minor disagreement, but these are believed to have been caused by slight position displacement in irregular bottom.

CHART COMPARISON

The smooth plotter has prepared an overlay showing a comparison with chart 1209 (2/28/64) which points up numerous changes that are particularly noticeable in areas of sandwaves and shoal water where the bottom is unstable.

Respectfully submitted,



Hugh L. Proffitt  
Carta Tech.

Norfolk, Va.  
Sept. 28, 1965

TIDE NOTE FOR HYDROGRAPHIC SHEET

June 1, 1966

Nautical Chart Division: R. H. Carstens

Plane of reference approved in  
39 volumes of sounding records for

HYDROGRAPHIC SHEET 8761

Locality: Nantucket Sound  
Coast of Massachusetts

Chief of Party: J. E. Guth (1960), K. A. MacDonald (1961)  
H. R. Lippold, Jr., (1963, 1964)

Plane of reference is mean low water

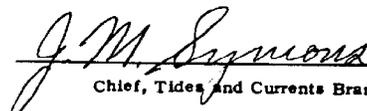
Tide Station Used (Form C&GS-681):

Muskeget Island, Nantucket Sound  
Edgartown Harbor, Chappaquiddick Island

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

2.0 feet

Remarks

  
Chief, Tides and Currents Branch



HYDROGRAPHIC SURVEY STATISTICS  
HYDROGRAPHIC SURVEY NO. 8761

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

RECORD DESCRIPTION	AMOUNT	RECORD DESCRIPTION	AMOUNT
SMOOTH SHEET	1	BOAT SHEETS	2
DESCRIPTIVE REPORT	3	OVERLAYS	3

DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES						
CAHIERS	4					
VOLUMES	39					
BOXES						

T-SHEET PRINTS (List)

SPECIAL REPORTS (List)

OFFICE PROCESSING ACTIVITIES

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

PROCESSING ACTIVITY	AMOUNTS			
	PRE-VERIFICATION	VERIFICATION	REVIEW	TOTALS
POSITIONS ON SHEET				5,092
POSITIONS CHECKED		35		
POSITIONS REVISED		4		
DEPTH SOUNDINGS REVISED		110		
DEPTH SOUNDINGS ERRONEOUSLY SPACED		12		
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED		30		
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS		0		
JUNCTIONS		100		
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		80		
SPECIAL ADJUSTMENTS		<i>Adjusting the work of three seasons into one survey in an area of unstable character.</i>		
ALL OTHER WORK		646		
TOTALS		860		
PRE-VERIFICATION BY	BEGINNING DATE	ENDING DATE		
VERIFICATION BY <i>Serge A. Rogerson</i>	BEGINNING DATE	ENDING DATE		
REVIEW BY	BEGINNING DATE	ENDING DATE		

(H-8761-1960-64)

Notes to reviewer  
Part III - Junctions, Item #10

The junctional survey on the south (H-8631-1960) was made in part as a regular junction and in part as a butt junction with appropriate outline of area on older survey (H-8631-1960) and special note carried in area superseded. This was examined and approved by Mr Benson and Mr Carstens.

The junctional survey on the east (H-8172 (1954)) was also made in part as a regular junction with appropriate outline of area on older survey (H-8172-1954) and special note carried in area superseded. This was also examined and approved by Mr Benson and Mr Carstens.

George A. Kozemogak

Part IV Soundings; item 19

Feb-23-1968

Occasionally when an arbitrary correction of one tenth of one foot would change the whole foot unit by one, this was done to improve the agreement at cross lines.

VERIFIER'S REPORT  
HYDROGRAPHIC SURVEY, H -8761

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

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

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

Part I - DESCRIPTIVE REPORT	CL	R	Part III - JUNCTIONS (Continued)	CL	R
<p><b>Note:</b> The verifier should first read the Descriptive Report for general information and problems.</p> <p>1. The Descriptive Report was consulted, paragraphs checked if found satisfactory, and notations were made in soft black pencil regarding action taken. Remarks Required: -- None</p>	✓		<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 <b>Butt</b> junctions and areas which are <b>SUPERSEDED</b>.</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>	✓		<p><b>Part IV - VOLUMES</b> 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>	✓	
<p>3. All reference to survey sheets mentioned in the Descriptive Report should include registry number and year. Remarks Required: -- None</p>	✓		<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? <i>yes</i> (h) was scanning accurate? <i>yes</i> (i) were peaks at uneven intervals missed? <i>occasionally</i> (j) were stamps completed? <i>yes</i> (k) references to adjacent features</p>	✓	
<p><b>Part II - SHORELINE AND SIGNALS</b> 4. Source of shoreline signals Remarks Required: -- List all surveys a. Give earliest and latest dates of photographs b. Field inspection date c. Field Edit date d. Reviewed-Unreviewed</p>	✓				
<p>5. The transfer of contemporary topographic information was carefully examined and reconciled with the hydrography. Remarks Required: -- Discuss remaining differences.</p>	✓				
<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>	✓				
<p>7. Objects on which signals are located and which fall outside of the high-water line have been described on the sheet. Remarks Required: -- List those signals still unidentified.</p>	✓		<p><b>Part V - PROTRACTING</b> 13. All positions verified instrumentally were check marked in color in the sounding records, and verifier initialed the processing stamp. Remarks Required: -- None</p>	✓	
<p><b>Part III - JUNCTIONS</b> <i>very extensive &amp; off different scales</i> <b>Note:</b> Make a cursory comparison preliminary to inking soundings in area of overlap.</p> <p>8. All junctions of contemporary or overlapping sheets were transferred in colored ink and overlapping curves were made identical. Remarks Required: -- None</p>	✓		<p>14. The protracting and plotting of all unsatisfactory crossings were verified. Remarks Required: -- None</p>	✓	
<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>	✓		<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>	✓	

Part V - PROTRACTING (Continued)		CL	R	Part VIII - AIDS TO NAVIGATION		CL	R
16. The protracting was satisfactory except as follows: Remarks Required: -- Refers to protracting in general except for specific faults repeated often, or faults in control information, which required considerable replotting or adjustments.		✓		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.		✓	
17. The protractor has been checked within the last three months. Remarks Required: -- Date of check, type of protractor and number.		✓		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 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		✓		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		✓	
19. Sounding line crossings were satisfactory except as follows: Remarks Required: -- Discuss adjustments.			✓	29. Heights of rocks awash were correctly reduced and compared with topographic information. Remarks Required: -- Note excessive conflicts with topographic information.			<i>None on this survey</i>
20. The spacing of soundings as recorded in the records was closely followed; Remarks Required: -- None		✓		Part X - GENERAL			
21. The scanning, reduction, spacing, plotting of questionable soundings have been verified. Remarks Required: -- None		✓		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		✓	
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.		✓		31. Unnecessary pencil notes have been removed from the sheet. Remarks Required: -- None		✓	
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		✓	
23. The depth curves have been inspected before inking. Remarks Required: -- By whom was the penciled curves inspected.		✓		33. The bottom characteristics are adequately shown. Remarks Required: -- None		✓	
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		✓		Part XI - NOTES TO THE REVIEWER			<i>None</i>
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.		✓		34. Unresolved discrepancies and questionable soundings.			
				35. Notation of discrepancies with photogrammetric survey inserted in report of unreviewed photogrammetric survey or on copy.			<i>None</i>
				36. Supplemental information. <i>one sheet of notes attached to this report.</i>			
Verified by						Date	
<i>George A. Kozemczak</i>						<i>Feb-23-1968</i>	

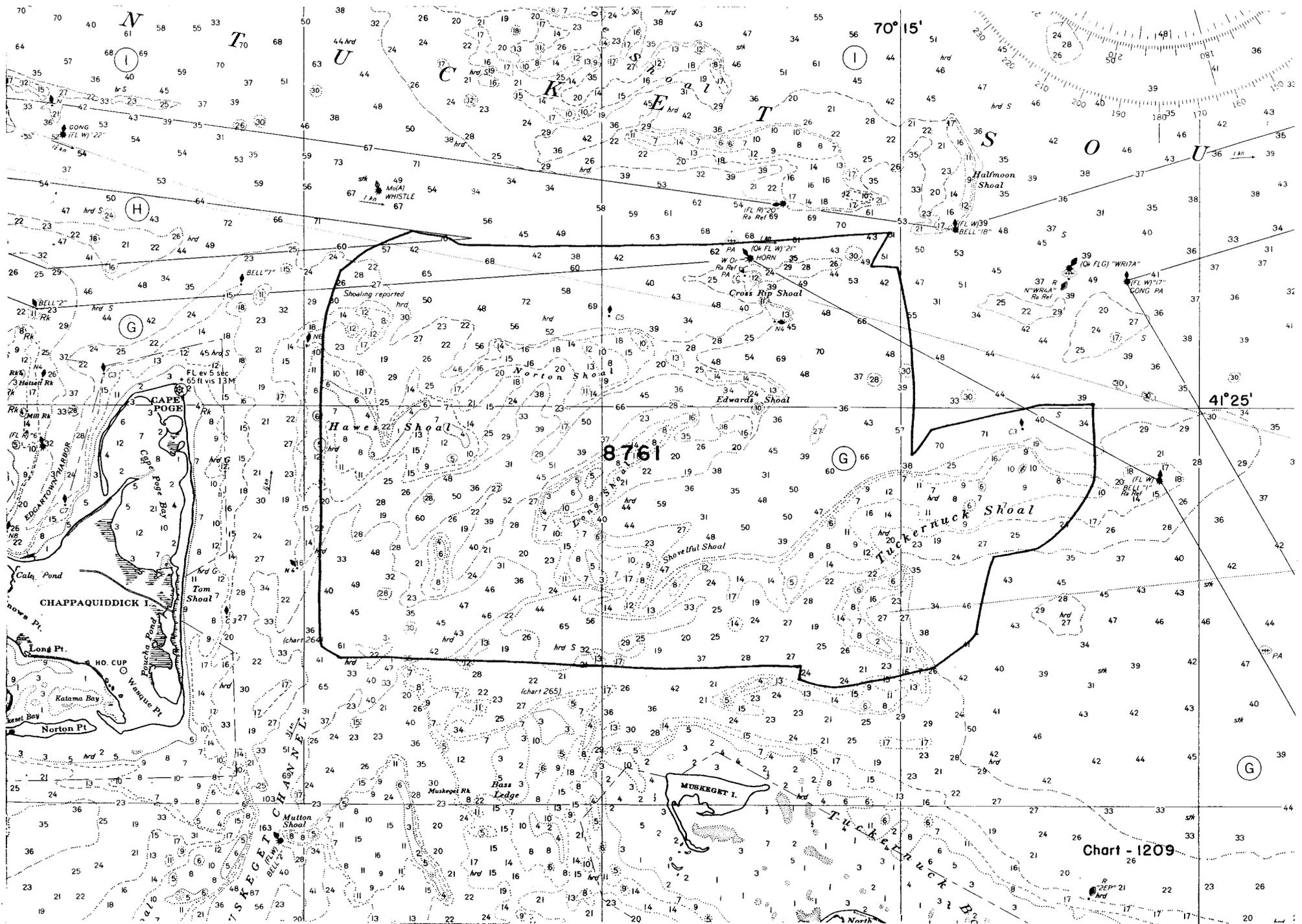


Chart - 1209



264 Part app'd. J.H.E. 11/15/65  
265 Part app'd. J.H.E. 11/15/65  
1209 Part appl'd. thru. 264 & 265 - J.T.G. 12-3-65