

8162

Diag. Cht. No. 1205-2.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. ECEP-05154 Office No. H-8162

LOCALITY

State Maine

General locality

Locality York Harbor

194/54

CHIEF OF PARTY

Clarence R. Reed

LIBRARY & ARCHIVES

DATE November 28, 1956

B-1870-1 (1)

8162

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-8162

Field No. ECFP 05154

State Maine

General locality ~~York Harbor~~

Locality York Harbor

Scale 1/5,000 Date of survey 10/12 - 27/54

Instructions dated 3/6/53 & 1/29/54

Vessel East Coast Field Party

Chief of party Clarence R. Reed

Surveyed by Robert B. Noble & Charles E. Horne

Soundings taken by ~~fathometer~~, graphic recorder, hand lead, ~~etc~~

Fathograms scaled by Party personnel

Fathograms checked by R.B. Noble & C. E. Horne & Norfolk District Office

Protracted by W.W. FEAZEL

Soundings penciled by W.W. FEAZEL

Soundings in ~~fathoms~~ feet at MLW ~~MLW~~ and are true depths

REMARKS:

.....
.....
.....
.....
.....

NOTES FOR DESCRIPTIVE REPORT TO ACCOMPANY

Hydrographic Survey Sheet H-8162, (FIELD NO. ECFP 05154)

York Harbor, Maine

EAST COAST FIELD PARTY

CLARENCE R. REED, CHIEF OF PARTY

PROJECT GS-355

1954

SCALE 1:5,000

* * * * *

Project This survey was accomplished under instructions dated 6 March 1953 and supplemental instructions dated 29 January 1954.

SURVEY LIMITS AND DATES The survey on this sheet covers York Harbor and the York River west of a line between the eastern-most parts of East Point and Western Point as far as the highway bridge in longitude $70^{\circ} 39.66'$. A Junction was made with prior survey H-376a, 1911, scale 1:10,000 and contemporary survey H-8160, (FIELD NO. ECFP 1454) ⁽¹⁹⁵⁴⁻⁵⁵⁾ on the east. There are no hydrographic surveys west of this sheet.

Field work on this sheet was begun on 12 October and terminated on 27 October 1954.

VESSEL AND EQUIPMENT Launch "ZIP", a 35 foot power launch leased for the work, was used for the hydrography east of Rocks Nose in longitude $70^{\circ} 38.50'$. Catamaran II, constructed from two rented 14 foot wooden skiffs rigidly fastened together, was used for hydrography west of this point. On launch "ZIP" Graphic Recorder No. 121S was used with transducers in a fish mounted over the starboard side of the launch. Graphic Recorders No. 121S and 119S were used on Catamaran II. The transducers were mounted in the bilges. Soundings other than echo soundings were taken with a hand lead.

TIDE AND CURRENT STATIONS The tide note is attached to this report. No current stations were observed.

SMOOTH SHEET The smooth sheet is to be plotted by the Norfolk Processing Office.

CONTROL STATIONS Control consisted of Photo-hydro stations which were transferred from Air-Photo Compilation Sheet T-11166 (1/5,000 insert).

SHORELINE AND TOPOGRAPHY ^{Boatsheet} A Shoreline and topographic details were transferred from Air-Photo Compilation Sheet T-11166 (1/5,000 insert). The shoreline and topographic details appear to be correct except the delineation of Black Rocks and Millbury Ledge in latitude $43^{\circ} 07.90'$, longitude $70^{\circ} 37.90'$. Chart 228 and the 1:10,000 scale manuscript of Air-Photo Compilation Sheet T-11166 show Millbury Ledge as two separate small reefs, which is correct. The 1:5,000 scale manuscript does not show the southern-most rock and shows the most northerly rock as two separate rocks awash, which is incorrect.

Chart 228 shows Black Rocks as two separate reefs which is correct.

Review,
P1

The 1:10,000 scale manuscript shows this as one continuous reef which is not correct. The 1:5,000 scale manuscript shows a small island and two rocks awash here which is even more incorrect. Heavy seas and closing of the field season prevented accurate location of these features by the hydrographic party as was planned. However, several sextant cuts were taken in an effort to determine the limits of these features. These cuts are recorded in sounding volume 3, pg. 21. It is recommended that these two features be charted as the 1:10,000 manuscript shows them except that the east and west limits of Black Rocks be defined by the sextant cuts. Review,
#1

The Notes to the Hydrographer which accompanied the Air-Photo Compilation Sheet requested the hydrographer to correctly delineate the pier in latitude $43^{\circ} 08.18'$, longitude $70^{\circ} 39.48'$ if this pier was shown incorrectly on the manuscript. The limits of the pier are correct as shown. However, this is an earth-filled pier enclosed by stone bulkheads and therefore does not form an enclosure in the center as the manuscript shows. (*shown solid on smooth sheet*)

SOUNDINGS Depths were measured with graphic recorders or hand leads. Bottom samples were obtained with an armed hand lead.

CONTROL OF HYDROGRAPHY Hydrography was controlled by three-point-sextant-fixes on shore signals. Fixes were taken at 1 minute intervals. No position jumps were noted when changing fixes.

ADEQUACY OF SURVEY This survey is considered complete and adequate to supersede prior surveys. Important soundings from Chart 228 were transferred to the boat sheet in green ink. The agreement with prior and contemporary surveys at junctions is good. Depth curves can be drawn at the junction with contemporary survey H-8160, (ECFP 1454). This junction is compared on survey sheet H-8160. (*1954-55*) Review, #4

CROSSLINES Crossings were obtained by changing the direction of the sounding lines and by channel lines. Good agreement was obtained at crossings.

COMPARISON WITH PRIOR SURVEYS A comparison with survey sheet H-376a, 1911 shows good general agreement. However, this prior survey is greatly lacking in development. For this reason a detailed comparison with Chart 228 will be made rather than with the prior survey. Review, #5

COMPARISON WITH CHART Soundings shown on the boat sheet in green were transferred from Chart 228 before beginning hydrography. Differences between the charted information and that found on this survey are discussed below.

This survey revealed shoal depths approximately 25 meters east of Harris Island Point Daybeacon. The shoalest depth found was 1.8 feet, recorded as position 47c, Catamaran II. The bank drops off very steep east of this position. Although Chart 228 correctly shows the 6 foot depth curve extending approximately 40 meters east of the beacon it is recommended that a 2 foot sounding be added to the chart and the note "REF" near the beacon be moved to avoid concealing charted details. *chart corrected*

This danger was reported in a letter dated 13 December 1954.

Red nun buoy No. 6 was found to be located approximately 135 meters ESE of its charted position. It is recommended that this buoy be charted in its new position. *Review, #6 B*

PRELIMINARY REVIEW ITEMS The following items from the Preliminary Review by the Division of Charts, were investigated during this survey with the following results:

Item 54 The charted 5 foot sounding in latitude $43^{\circ} 07.88'$, longitude $70^{\circ} 37.95'$ could not be verified although a 6.2⁰ foot sounding was obtained on line between positions ³⁵⁷ and ³⁶⁸, launch "ZIP". ~~Depths of 7 feet were also found approximately 50 meters SSW.~~ It is apparent that red nun buoy No. 4 is now located approximately 75 meters SSE of its present charted position. It is recommended that the present charted 5 foot sounding be retained ~~and the buoy charted in its new position.~~ *Review, #6*

Item 55 The area in the vicinity of latitude $43^{\circ} 07.88'$, longitude $70^{\circ} 38.15'$ was closely developed but no evidence of the charted 5 foot depth was found. This survey revealed ~~12~~ to ~~13~~ foot depths here and the fathogram indicates a smooth bottom. It is recommended that the charted 5 foot sounding be deleted from the chart. *Concur; Review, #5*

The charted 3 foot sounding in latitude $43^{\circ} 07.81'$, longitude $70^{\circ} 38.27'$ was developed on this survey. The shoalest depth obtained was 3.4 feet between positions 112 and 113 d. It is recommended that the 3 foot sounding be retained on the chart.

Item 56 There is no new bridge in latitude $43^{\circ} 08.10'$, longitude $70^{\circ} 38.90'$. The bridges as charted at present are correct.

Items Not Numbered No evidence of the charted 17 foot shoal in latitude $43^{\circ} 07.95'$, longitude $70^{\circ} 37.62'$ was found. However, this survey revealed shoaler depths approximately 50 meters WNW. It is recommended that the present charted 17 foot sounding be deleted from the chart and replaced by the shoaler depths from this survey. *Review, #5*

DANGERS AND SHOALS Dangers and shoals have already been discussed under COMPARISON WITH CHART.

COAST PILOT INFORMATION Coast Pilot information will be submitted as a special report.

AIDS TO NAVIGATION No fixed aids to navigation were located by this party. All floating aids with the exception of black can buoy No. 11 in latitude $43^{\circ} 07.95'$, longitude $70^{\circ} 38.61'$ were located.

GEOGRAPHIC NAMES There are no changes or additions to geographic names to report.

Respectfully submitted

Robert B. Noble

Robert B. Noble

ENS, USC&GS

Approved and forwarded,
Clarence R. Reed
Clarence R. Reed, CDR, USC&GS
Chief of Party

TIDE NOTE TO ACCOMPANY

Hydrographic Survey Sheet H-8162, (FIELD NO. ECFP 05154)

A portable automatic tide gage was maintained at York Harbor, Maine. No differences in time or height was applied to the observed tides. Planes of reference were computed from known elevations of previous tidal bench marks.

<u>STATION</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>MLW ON STAFF</u>
York Harbor, Maine	43° 07.88' ✓	70° 38.54' ✓	3.4

FATHOMETER CORRECTIONS TO ACCOMPANY

Hydrographic Survey Sheet H-8162, (Field No. ECFP 05154)

The corrections tabulated below are based on an initial set at 1.0 on the fathogram for soundings taken with launch "ZIP" and at zero for soundings taken with Catamaran II.

Where the initial varies from its proper setting on the fathogram INDEX CORRECTIONS must be entered in the sounding volumes.

CATAMARAN II
FATHOMETER 121S
12 October 1954 Only

CORRECTIONS A RANGE	DEPTH	
	From	To
-0.6	0.0	2.2
-0.8	2.4	3.4
-1.0	3.6	4.4
-1.2	4.6	5.8
-1.4	6.0	7.2
-1.6	7.4	8.8
-1.8	9.0	10.6
-2.0	10.8	13.4
-2.2	13.6	27.0

CATAMARAN II
FATHOMETER 121S
18 October 1954 Only

A RANGE	From	To
+0.4	0.0	2.4
+0.2	2.6	3.4
0.0	3.6	4.8
-0.2	5.0	6.2
-0.4	6.4	7.8
-0.6	8.0	9.8
-0.8	10.0	11.8
-1.0	12.0	14.4
-1.2	14.6	17.8
-1.4	18.0	24.0
-1.6	24.2	Limit of sdgs.

CATAMARAN II
FATHOMETER 119S
20 October 1954 Only

A RANGE	From	To
-0.6	0.0	1.6
-0.4	1.8	4.0
-0.2	4.2	8.6
0.0	8.8	Limit of sdgs.

FATHOMETER CORRECTIONS CONT'D

LAUNCH "ZIP"
FATHOMETER 121S
20 October - 27 October 1954

CORRECTIONS	DEPTH	
	From	To
A RANGE		
0.0	0.0	14.0
-0.2	14.5	27.0
-0.4	27.5	40.0
-0.6	40.5	Limit of sdgs.

STATISTICS TO ACCOMPANY

Hydrographic Sheet H-8162, (Field No. ECFP 05154)

LAUNCH "ZIP"

DATE 1954	DAY LTR	VOL. NO.	LEAD LINES	NO. OF POSITIONS	STAT. MI. SDG.
20 Oct.	a	2	0	28	2.0
21 "	b	2	14	69	4.5
22 "	c	2	2	41	3.2
25 "	d	2	9	120	6.6
27 "	e	3	0	69	4.6
TOTALS			25	327	20.9

CATAMARAN II

12 Oct.	a	1	0	24	1.1
18 "	b	1	0	132	7.7
20 "	c	1	0	55	2.6
TOTALS			0	211	11.4

538

Area survey 0.6 square statute miles

APPROVAL SHEET FOR
HYDROGRAPHIC SURVEY H-8162 (ECEF 05154)

The boat sheet and records for Hydrographic Survey H-8162 (ECEF 05154) have been inspected by me and are approved.

The survey is considered complete. Altho the location of York Harbor Buoy #11 was omitted its charted location is approximately correct and should be continued.

Clarence R. Reed

Clarence R. Reed
CDR, USC&GS
OinC, East Coast Field Party

LIST OF SIGNALS
To Accompany
H-8162

TRIANGULATION STATIONS

YORK VILLAGE, WHITE CHURCH SPIRE, 1908-28 (landmark.)

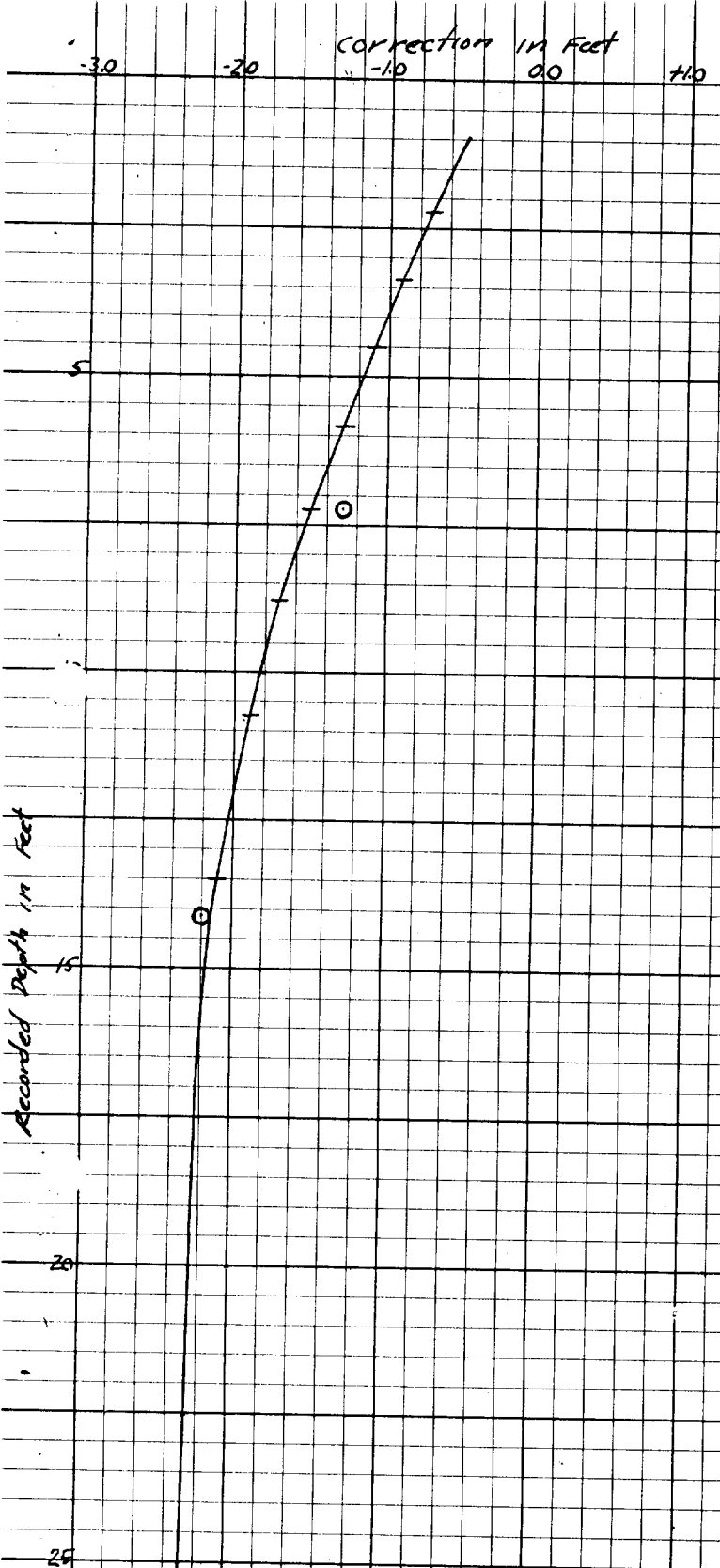
TOPOGRAPHIC STATIONS

SOURCE T-11572

Age	Bat	Can	Con	Day	Den	Eat	End	Fig	Fir
Gab	Gin	Hay	Hog	Ice	Lag	Leg	Lob	Low	Nay
Nil	Now	Obe	Off	One	Out	Own	Pie	Pin	Pip
Pol	Pop	Rid	Sad	Sam	She	Sky	Tan	Tar	Tip
Wet	Why	Yam	Yel						

FLOATING AIDS TO NAVIGATION
H-8162

<u>BUOY</u>	<u>LAT.</u>	<u>METERS</u>	<u>LONG.</u>	<u>METERS</u>	<u>DEPTH</u>	<u>POS. NO.</u>	<u>DATE</u>
York Hbr. Buoy 3	43-07	1307.5 ✓	70-37	1345.5 ✓	14'	40c	10/22/54
York Hbr. Buoy 4	43-07	1455.5 ✓	70-37	1238.5 ✓	15'	41c	10/22/54
York Hbr. Buoy 6	43-07	1436.5 ✓	70-38	236.5 ✓	21'	58a	10/25/54
York Hbr. Buoy 7	43-07	1375.5 ✓	70-38	559.0 ✓	12'	59a	10/25/54
York Hbr. Buoy 8	43-07	1258.5 ✓	70-38	886.5 ✓	16'	60a	10/25/54



Velocity Correction Curve
 FATH. 1215
 Calamarian II
 East Coast Field Party
 Clarence R. Reed Chief of Party
 Project CS 353
 1954 Summer Season
 Oct. 12, 1954
 Comp + plotted by C.E.H.

Corrections

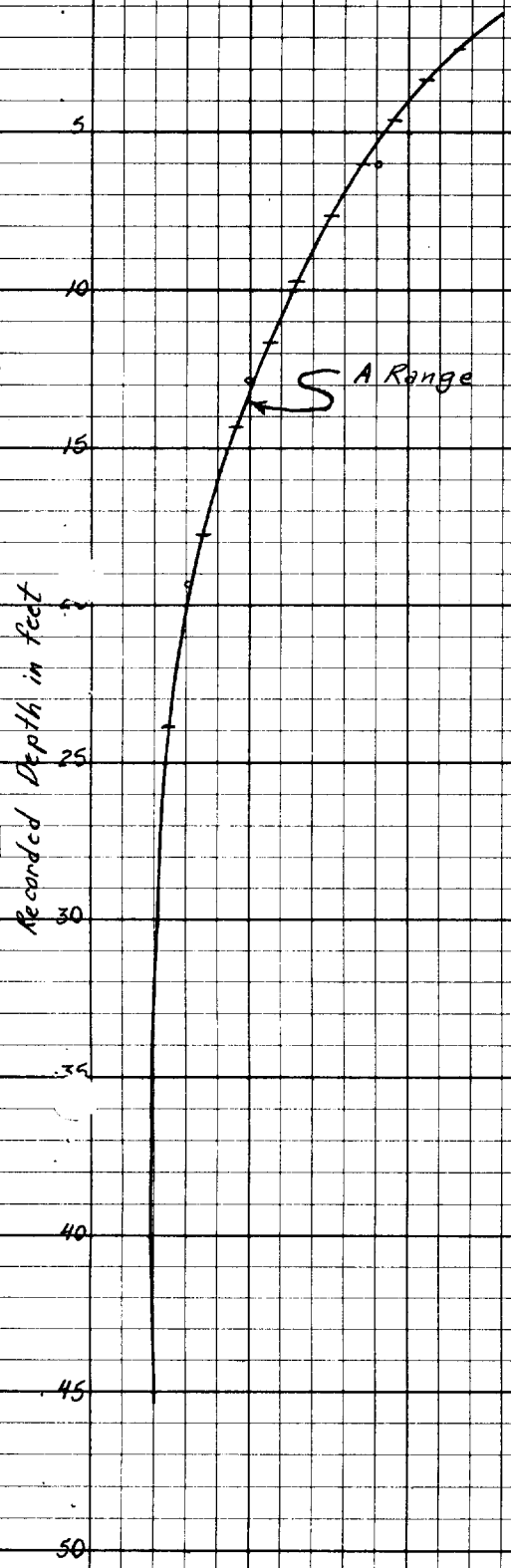
Depth	Corrections
0.0 - 2.2	-0.6
2.4 - 3.4	-0.8
3.6 - 4.4	-1.0
4.6 - 5.8	-1.2
6.0 - 7.2	-1.4
7.4 - 8.8	-1.6
9.0 - 10.6	-1.8
10.8 - 13.4	-2.0
13.6 - 27.0	-2.2

FOR CORRECTIONS - LAUNCH "ZIP"
 SEE CURVE "D" WITH REPORT
 FOR SHEET ECFR 1454 (H-8160)

05154

Correction in feet

-20 -10 00 110



Velocity Correction Curve
for fathometer 1215

Catamaran II

East Coast Field Party
Comdr. C.R. Reed Chief of Party

Project CS-355
1954 Summer Field Season
October 18, 1954

Camp & Plotted by C.E.H.

Corrections (A Range)

Depth	Correction
0.0 - 2.4	+ 0.4
2.6 - 3.4	+ 0.2
3.6 - 4.8	0.0
5.0 - 6.2	- 0.2
6.4 - 7.8	- 0.4
8.0 - 9.8	- 0.6
10.0 - 11.8	- 0.8
12.0 - 14.4	- 1.0
14.6 - 17.8	- 1.2
18.0 - 24.0	- 1.4
24.2 - limit of A Range	- 1.6

05-15-41

Correction in feet

-1.0 0.0 +1.0

Recorded Depth in feet

Velocity Correction Curve
for Fathometer #1178

Catamaran II

East Coast Field Party
Comdr. C.R. Reed Chief of Party

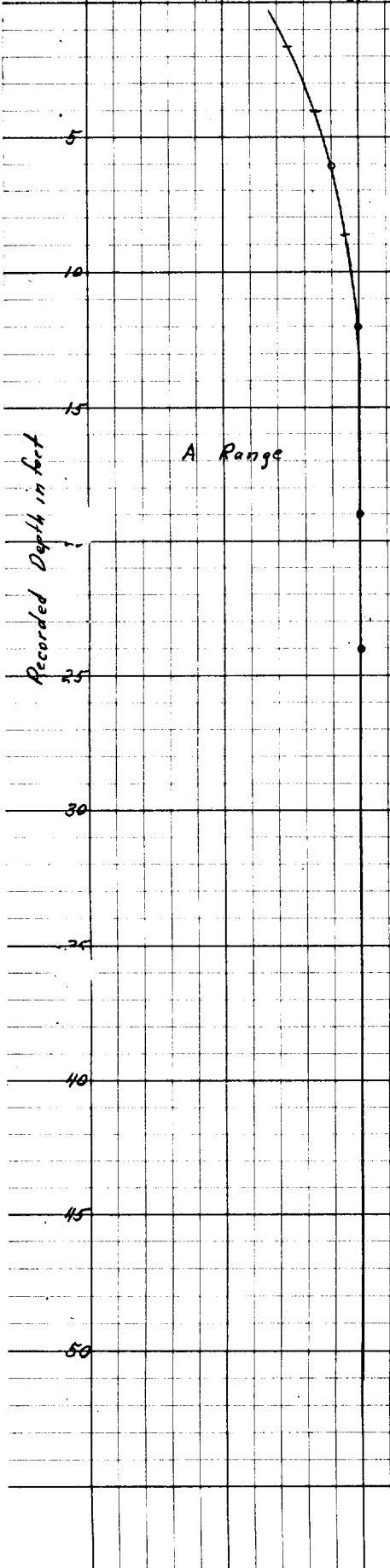
Project CS-355
1954 Summer Field Season
20 October 1954

Comp. & Plotted by C.E.H.

A Range

Corrections

Depth	Correction
0.0 - 1.6	+0.6
1.8 - 4.0	-0.4
4.2 - 8.6	-0.2
8.8 - limit of A Range	0.0



ADDENDUM
To Accompany

HYDROGRAPHIC SURVEY H-8162 (Field No. ECFP-05154)

SHORELINE

The shoreline was left in pencil on the smooth sheet as that on the boat sheet differs from compilations T-11166 and T-11572. The shoreline and topographic control, as shown on the smooth sheet, was transferred from T-11572. *Review, #1*

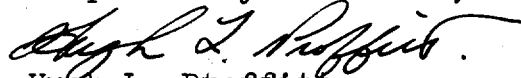
SOUNDINGS

All soundings were reduced with a template except those obtained on 12 and 20 Oct. 1954, Catamaran 2.

Heavy swells were encountered on a, b, c & e days (Lch. ZIP). The swells were meaned during the scanning process and soundings agree very well with work on d-day, which was accomplished while seas were reasonably calm.

Norfolk, Va.
21 Nov. 1956

Respectfully submitted,



Hugh L. Proffitt
Cartographer.

GEOGRAPHIC NAMES

Survey No. H-8162

Name on Survey	Source of Name										
	A	B	C	D	E	F	G	H	K		
Maine											1
York Harbor											2
East Point ✓											3
York Harbor ✓											4
Fort Point											5
Western Point ✓											6
Harris Island ✓											7
Bragdon Island ✓											8
York River ✓											9
Rocks Nose } ✓											10
Black Rocks } ✓											11
Millbury ledge } ✓											12
STAGE NECK ✓											13
											14
											15
											16
											17
											18
											19
											20
											21
											22
											23
											24
											25
											26
											27

} for title

(village) (tide station)

see chart 228 for placement, after inking

Names approved
1-8-57 L. Healy

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ~~8162~~...

Records accompanying survey:

Boat sheets ~~.1~~...; sounding vols. ~~...~~³...; wire drag vols.; bomb vols.; graphic recorder rolls ~~3~~ Envelopes special reports, etc. ~~1-Descriptive report, 1-Smooth sheet, 1-Film positive T-11166, and 1-Film positive T-11572~~...

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

Number of positions on sheet		.....	538
Number of positions checked		.....	30
Number of positions revised		.....	1
Number of soundings revised (refers to depth only)		.....	12
Number of soundings erroneously spaced		.....	0
Number of signals erroneously plotted or transferred		.....	0
Topographic details	Time	.....	16
Junctions	Time	.....	1
Verification of soundings from graphic record	Time	.....	1
Verification by <i>J. E. Gearhart</i>	Total time	.....	70
	Date	.....	4-30-57
Reviewed by <i>J. A. Dinamore</i>	Time	.....	16
	Date	.....	7/24/57

GFD

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Hydrography and Topography~~

9 January 1957

Division of Charts: R. H. Carstens

Plane of reference approved in
3 volumes of sounding records for

HYDROGRAPHIC SHEET 8162

Locality York Harbor, Maine

Chief of Party: C. R. Reed in 1954
Plane of reference is mean low water, reading
3.4 ft. on tide staff at York Harbor
27.0 ft. below B. M. 1 (1911)

Height of mean high water above plane of reference is 8.6
feet.

Condition of records satisfactory except as noted below:

Branch
Chief, ~~Division of~~ Tides ~~and Currents~~

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8162

FIELD NO. ECFP-05154

Maine, York Harbor

Project No. CS-355

Surveyed - October 1954

Scale 1:5,000

Soundings:

Control:

808 Depth Recorder
Hand lead

Sextant fixes on
shore shore signals

Chief of Party - C. R. Reed
Surveyed by - R. B. Noble and C. E. Horne
Protracted by - W. W. Feazel
Soundings plotted by - W. W. Feazel
Verified and inked by - J. E. Gearhart
Reviewed by - T. A. Dinsmore 24 July 1957
Inspected by - R. H. Carstens

1. Shoreline and Signals

The shoreline originates with reviewed air-photographic survey T-11572 (1953). Ledge and reef outlines have been revised on the smooth sheet from present survey soundings supplemented by 1953 low-water photographs.

The source of the signals is given in the Descriptive Report.

2. Sounding Line Crossings

Depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves are adequately delineated. Where not otherwise shown, the low-water curve is defined by the outer limits of the ledge symbolization.

Much of the bottom is smooth. However, dangers to navigation are found in the harbor which is liberally marked by pinnacle rocks, reefs and protruding ledge.

4. Junctions with Contemporary Surveys

An adequate junction was effected with H-8160 (1954-55) on the east.

5. Comparison with Prior Surveys

H-376 (1953) and H-376a (1911) 1:10,000

Although the widely spaced sounding lines on these early surveys do not afford a detailed comparison with the present survey, no appreciable changes in bottom are apparent. The present survey reveals much information not disclosed by the early reconnaissance surveys.

The following discrepancies are noted:

(1) The 5-ft. sounding charted in lat. $43^{\circ}07.88'$, long. $70^{\circ}38.15'$, falls in smooth-bottom depths of 12 ft. on the present survey. Originating with H-376a, the sounding was obtained at the beginning of a line and is followed by a 12-ft. sounding. A statement in chart letter 402 (1933) by the Lighthouse Service indicates that the rock could not be found and probably does not exist. Present development is considered adequate to further discredit the prior sounding which is probably 1 fm. in error. The 5-ft. sounding should be disregarded. ✓

(2) The 17-ft. sounding charted in lat. $43^{\circ}07.95'$, long. $70^{\circ}37.62'$, from H-376 should be disregarded. Falling in present depths of 21 - 22 ft., the prior sounding is considered to be out of position due to faulty spacing of soundings on line and should actually fall about 45 meters northwestward where comparable depths were obtained on the present survey. ✓

The present survey is adequate to supersede the prior surveys within the common area.

6. Comparison with Chart 228 (Latest print date 12/19/55)A. Hydrography

Charted hydrography originates principally with the previously discussed surveys supplemented by various surveys by the Corps of Engineers, the latest of which is blueprint 52394 (1955). The 6-ft. hand-correction sounding charted in lat. $43^{\circ}07.87'$, long. $70^{\circ}38.58'$, is from advance information of the present survey reported in H. O. Notice to Mariners No. 54 (1956).

The 5-ft. (Rk) sounding charted in lat. $43^{\circ}07.82'$, long. $70^{\circ}37.96'$, from a report by the Lighthouse Service in 1933 (C.L. 402) was substantiated by a 6-ft. sounding on the

present survey. Inasmuch as the least depth was not assured on the present survey, it is recommended the 5-ft. sounding be retained on the chart.

Except as noted above, the present survey supersedes all charted information not originating with sources subsequent to the present survey.

B. Aids to Navigation

The buoy charted in lat. $43^{\circ}07.95'$, long. $70^{\circ}38.62'$, was not located on the present survey. Most of the floating aids to navigation located on the present survey differ appreciably in position with those charted. The charted aids adequately mark the features intended.

7. Condition of Survey

a. The sounding records are complete; the Descriptive Report covers all matters of importance.

b. The smooth plotting was accurately done.

8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

9. Additional Field Work

This is an excellent basic survey and no additional field work is required.

Examined and Approved:

Wallace A. Bruder
for Max G. Ricketts
Chief, Nautical Chart Branch

Charles A. Schanck
Charles A. Schanck
Chief, Division of Charts

Karl B. Jeffers 8/13/57
Karl B. Jeffers
Chief, Hydrography Branch

Samuel B. Grenell
Samuel B. Grenell
Chief, Division of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. H-8162

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
20 June 57	1206	H. E. MacEwen	Review Before/ After Verification ██████████ Partially
8/15/57	228	S. J. MacEwen	Before After Verification and Review Partially applied.
10 Oct. 57	211 drg 1	H. E. MacEwen	Before After Verification and Review
8-4-59	228	E. W. Hoyle	Before After Verification and Review Exam then Drwg of chrt 211 No corr. ← cancelled by chrt 211.
8-18-59	1205 drg 14	R. K. DeLander	Before After Verification and Review then chrt 211
8-3-61	1206	R. E. Elkins	Before After Verification and Review Fully applied thru chrt 1205 drg 14 and chrt 211 drg 1.
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.