

7043

Diag'd. on Diag. Ch. No. 77-3

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. 513-B Office No. H-7043

LOCALITY

State Maryland

General locality Chesapeake Bay

Locality Entrance to Choptank River

1943-'45

CHIEF OF PARTY
T. B. Reed

LIBRARY & ARCHIVES

DATE March 25, 1946

B-1870-1 (11)

7043

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

H7043

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-704³

Field No. 515 - B

State Maryland

General locality Chesapeake Bay

Locality Entrance To
~~Southern part of~~ Cheptank River Entrance

Scale 1/10,000 Date of survey Dec. 22, 1943 to May 15, 1945

Instructions dated Sept. 18, 1942 and Sept. 23, 1943

Vessel COWIE WAINWRIGHT Launch 72 25 ft. Skiff

Chief of party Thos. B. Reed - L.C. Johnson

Surveyed by Thos. B. Reed, L.C. Johnson, G.R. Fish, C.R. Reed, J.O. Phillips, A.L. Powell

Soundings taken by ~~fathometer~~ graphic recorder, hand lead with pole

Protracted by M.T. Miller

Soundings penciled by R. J. Auld

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

REMARKS: This sheet was processed in the Hydrographic Section of the S.E. District, Norfolk, Va.

NOTES TO ACCOMPANY DESCRIPTIVE REPORT FOR
HYDROGRAPHIC SURVEY H- 7044 (Field No. 515 - B)
3

CHOPTANK RIVER ENTRANCE, SOUTHERN PART, MARYLAND

Scale 1/10,000

Ship COWIE, Thos. B. Reed, Comdg.

This report was written prior to the processing of the smooth sheet at the Norfolk Processing Office.

- A. The project number is CS-250. The date of the instructions is September 18, 1942 (MARINDIN & OGDEN). Supplemental instructions are dated September 23, 1943 (LYDONIA).
- B. This survey covers the southern part of the Choptank River entrance from Castle Haven Point to Cook Point and including Trippe Bay west to Longitude 76° 20'. Work by L.C. Johnson's party (WAINWRIGHT) began December 22, 1943 and ended April 14, 1944. Work by Thos. B. Reed's party (COWIE) began July 3, 1944 and ended May 15, 1945. (H-7010, 1942-44)
- (H-7032, 1943-45) The sheet joins contemporary Sheet 813 (field) on the east, Sheet 513-A (field) on the north, Sheet 413 (field) on the west, and Sheets 1413 and 1513 (field) on the southwest. (H-7064, 1945) (H-7075, 1945) (H-6958, 1943-44)
- C. The COWIE and the WAINWRIGHT were used for part of the sounding in deeper water. Launch 72 and a 25 foot skiff were used for shoaler sounding. 808 type depth recorders were used with the exception of part of the skiff work in which pole sounding was used.
- D. Tide stations used for the survey are listed in the Tidal Note included with this report.
- E. The smooth sheet will be plotted by Norfolk Processing Office.
- F. Triangulation stations used for control are as follows:
- | | | |
|--------------------------------|---------------|------|
| Choptank River Lighthouse | J. Bowie, Jr. | 1934 |
| Dupoint | J. Bowie, Jr. | 1934 |
| Large water tank, Castle Haven | - - | 1909 |
- Topographic stations are from topographic maps T5715 and T5716. (listed in the Review)
- G. Shoreline and topography are from topographic maps listed in the previous paragraph. The low water line was not determined by hydrography due to the range of tide being insufficient to provide for the draft of sounding vessels used. Soundings were obtained along most of the shore which reduce to 1 foot or less.
- Fish traps located by the hydrographic party are temporary in nature and are removed in the fall by the owners.
- H. Soundings were taken with 808 type depth recorders for all work except part of the skiff work in depths shoaler than about 6 feet.
- Fathometer corrections were applied as computed from bar check curves in the usual manner, Settlement corrections were applied to work by the COWIE.
- I. Hydrography was controlled by three point visual fixes.

- J. The present survey is believed to be complete and adequate to supersede prior surveys for charting purposes. The junctions with adjacent surveys are satisfactory.
- K. There are some discrepancies in cross lines and adjacent lines on the boat sheet but it is believed that most of these will be satisfactory on the smooth sheet when proper tide and other corrections are applied.
- L., M. and N. A discussion of these subjects can better be made after completion of the smooth sheet. A general comparison of the boat sheet with the chart indicates only small changes since the old surveys. *Substantial changes in some areas - Review, par 5*
- O. Coast Pilot information will be submitted on an area basis and none is included in this report.
- P. The positions of all fixed or floating aids to navigation in the area covered by this sheet have been checked or determined. They are indexed in Volume 1. Trippe Bay buoy 2 was not present at the time sounding was done in that area.
- There are no bridges or cables in the area covered by this survey.
- Q. Landmarks for Charts are "SILO" on Cook Point and "TANK" on Castle Haven Point which are already charted. They are being re-submitted on Form 567. *Chart Letter No. 47 (1944)*
- R. Geographic names are considered to have been adequately covered by the topographic mapping party.

Respectfully submitted

C.R. Reed
C. R. Reed, Lt. Comdr.,
U.S.C. & G. Survey

Approved & forwarded:

Thos. B. Reed
Thos. B. Reed,
Chief of Party

STATISTICS FOR HYDROGRAPHIC SURVEY H- (Field No.513-BB)
Project CS-250 Ship COWIE 1943-45

Volume number	Day letter	Date	Boat used	Number of positions	Statute miles
1	d	2/28/44	Launch 72	40	9.0
1	e	3/ 3/44	" "	63	15.2
1 & 2	f	3/15/44	" "	88	20.3
2	g	3/16/44	" "	81	17.0
2 & 3	h	3/22/44	" "	56	13.3
3	j	3/24/44	" "	53	11.2
4	k	3/28/44	" "	34	4.0
5	A	4/10/44	WAINWRIGHT	153	49.8
5 & 6	B	4/14/44	"	130	48.8
(Above work by party of L.C.Johnson)					
7	a	7/ 3/44	Launch 72	89	18.1
7	b	7/ 5/44	Skiff	111	20.0
7 & 8	c	7/ 6/44	"	97	16.5
8	d	7/ 7/44	"	104	15.1
8 & 9	e	7/10/44	Launch 72	108	21.3
9	f	7/11/44	Skiff	150	20.2
9	g	7/12/44	"	116	17.2
10	h	7/13/44	"	73	9.0
10	j	7/19/44	"	70	9.0
10 & 11	k	7/20/44	Launch 72	171	34.9
11	l	7/21/44	" "	80	15.1
11	m	7/31/44	" "	104	18.2
12	n	4/20/45	" "	13	2.0
12	p	4/24/45	Skiff	15	2.4
12	q	4/25/45	"	88	14.4
12 & 13	r	4/26/45	"	78	13.0
15	s	4/26/45	Launch 72	67	10.6
16	t	5/ 2/45	" "	171	23.6
13	u	5/ 2/45	Skiff	117	17.5
13 & 14	v	5/ 4/45	"	119	16.2
16	w	5/ 4/45	Launch 72	83	15.2
14	x	5/ 7/45	Skiff	99	14.1
17	y	5/ 7/45	Launch 72	105	15.7
17	z	5/ 9/45	" "	114	15.1
17 & 18	aa	5/14/45	" "	143	21.9
14	ab	5/14/45	Skiff	43	3.7
18	ao	5/15/45	Launch 72	127	19.9
15	A	4/24/45	COWIE	21	7.7
15	B	4/26/45	COWIE	122	29.7
15 & 16	C	4/30/45	COWIE	80	23.4
TOTALS				3576	669.3

Total area in square statute miles 23.9

TIDAL NOTE

HYDROGRAPHIC SURVEY No. H-

(Field No. 513-B)

Project CS-250

Thos.B.Reed, Chief of Party

Records from the following tide stations were used in obtaining tide reducers for the sheet:

NAME	LATITUDE & LONGITUDE	LOW WATER ON STAFF
Oxford, Maryland	38° 41.6' 76° 10.4'	5.5
Cambridge, Md.	38° 34.5' 76° 04.3'	6.3
Avalon, Md.	38° 42.5' 76° 19.8'	2.3
Taylor's Island, Md.	38° 28.2' 76° 17.5'	3.0

Oxford tides were used for work by the WAINWRIGHT and Launch 72 from February 28 through April 14, 1944 (Vol.1-6 inclusive)

Cambridge tides minus 10 minutes and with 0.9 range were used for work from the COWIE by Launch 72 and 25 foot skiff from July 3-20, 1944 with the exception of "j" day, July 19, when Avalon tides were used. Cambridge tides with the same factor and time difference were used for "n" day, April 20, 1945.

Avalon tides were used for work by Launch 72 and 25 foot skiff on "j" day, July 19, "l" day, July 21, and "m" day, July 31, 1944.

Taylor's Island tides were used for "z" day, May 9, 1945 on Launch 72.

Taylor's Island tides minus 25 minutes were used for the remainder of the work.

APPROVAL SHEET FOR
HYDROGRAPHIC SURVEY H- (Field No. 513-B)
Project CS-250

The boat sheet and the accompanying records for the above survey have been inspected and are approved. The boat sheet was examined daily while the work was in progress and the survey is believed to be complete.



Thos. B. Reed,
Chief of Party


A D D E N D U M

to accompany

HYDROGRAPHIC SURVEY H-7044 (Field No. 513-B)

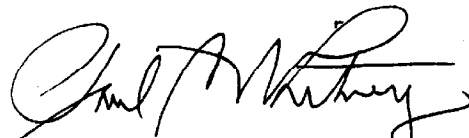
This survey was processed in the Hydrographic Section of the
Southeastern District, Norfolk, Va.

Respectfully submitted,


Isadore M. Zeskind
Cartographic Engineer

Norfolk, Va.
March 20, 1946

Approved & Forwarded


Paul C. Whitney
Supervisor SE District

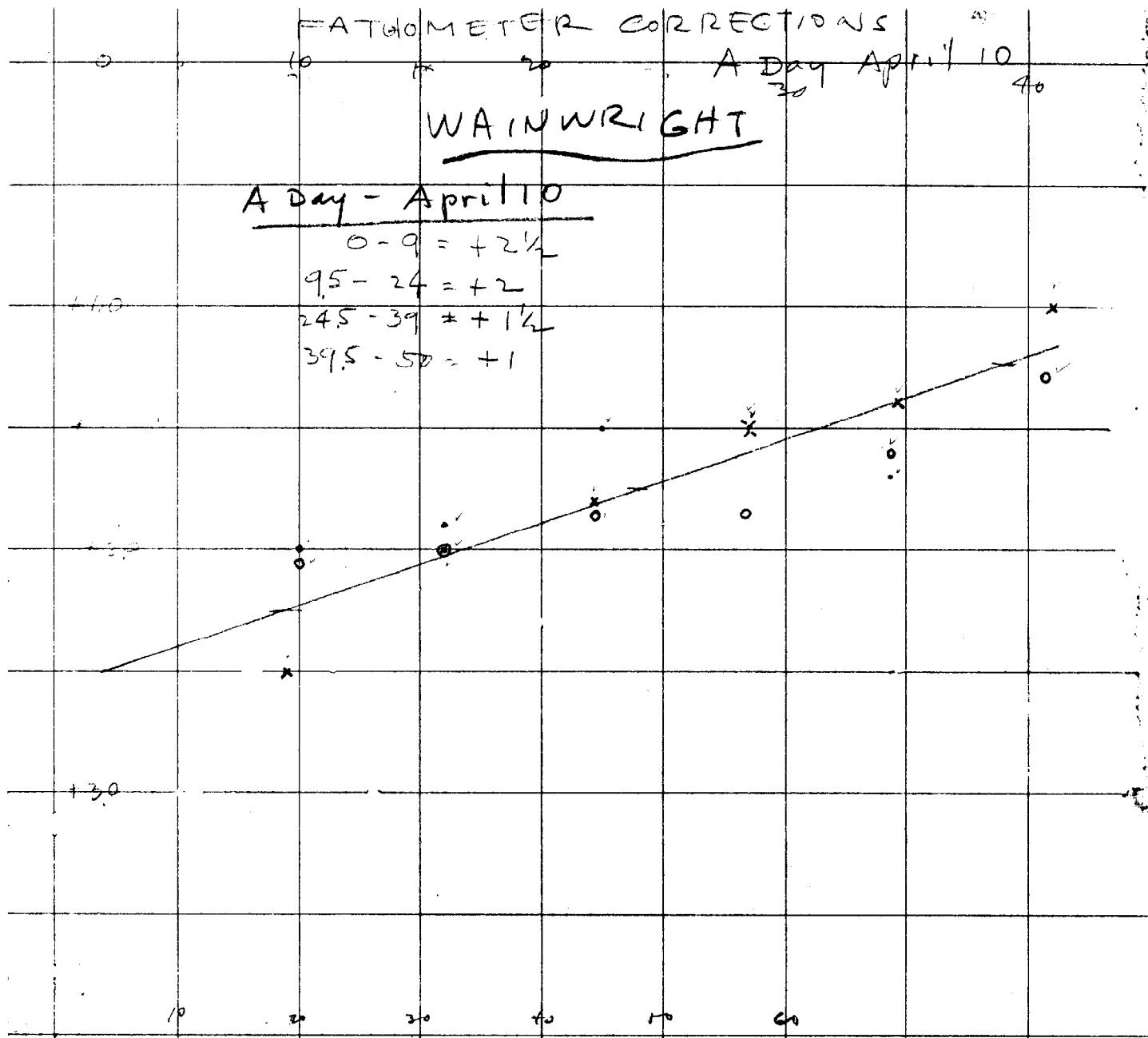
FAT METER CORRECTIONS

A Day April 10

WAINWRIGHT

A Day - April 10

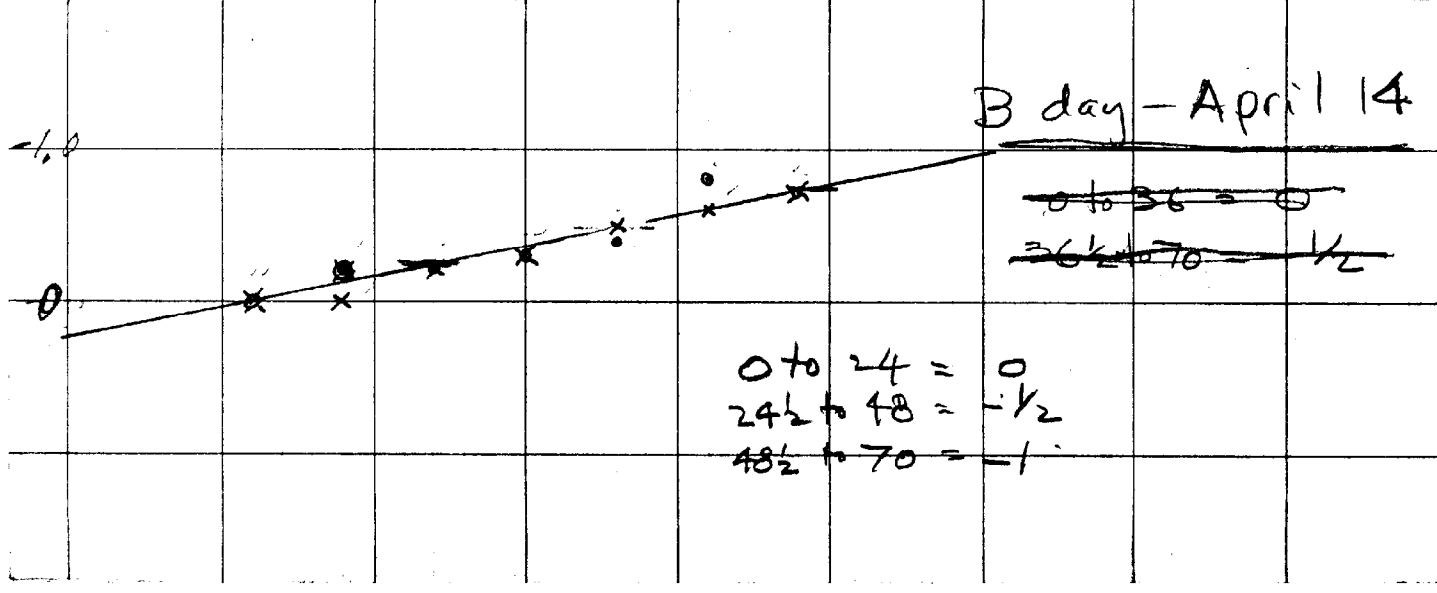
- 0 - 9 = +2 1/2
- 95 - 24 = +2
- 245 - 39 = +1 1/2
- 395 - 50 = +1



B day - April 14

~~0 to 36 = 0~~
~~36 1/2 to 70 = 1/2~~

- 0 to 24 = 0
- 24 1/2 to 48 = -1/2
- 48 1/2 to 70 = -1



FATHOMETER CORRECTIONS

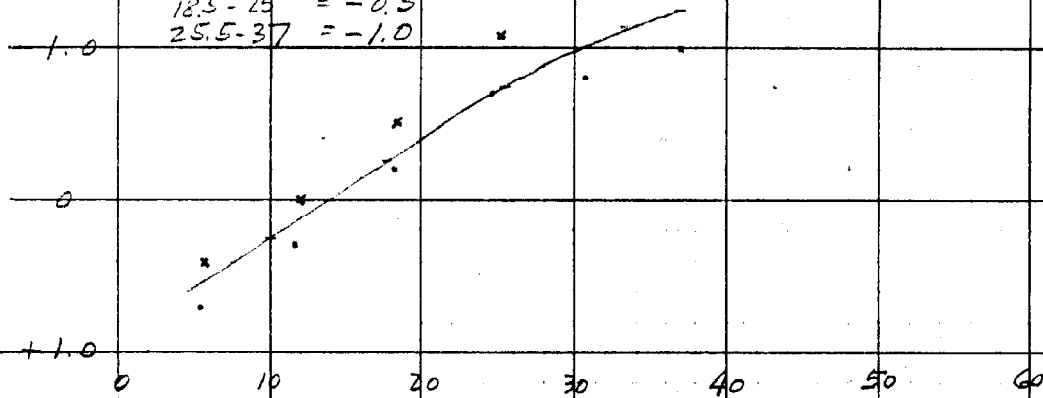
From bar checks

WAINWRIGHT
(Launch 72)

g day March 16

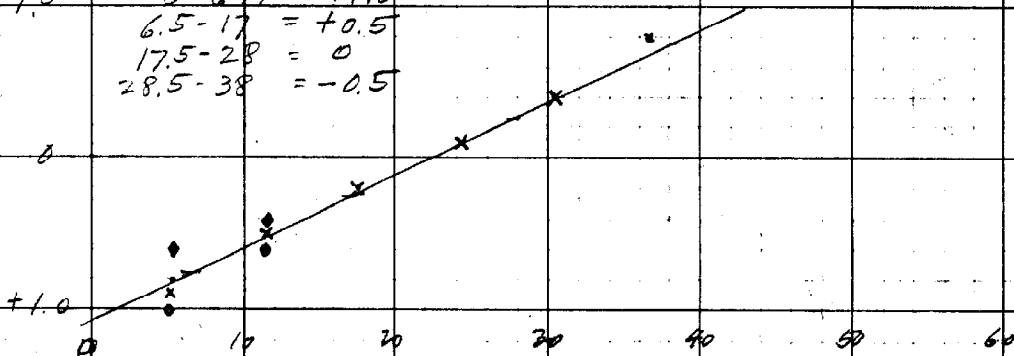
0-10 ft. = +0.5
16.5-18 = 0.0
18.5-25 = -0.5
25.5-37 = -1.0

for B scale use e day values,



f day March 15

0-6 ft = +1.0
6.5-17 = +0.5
17.5-28 = 0
28.5-38 = -0.5



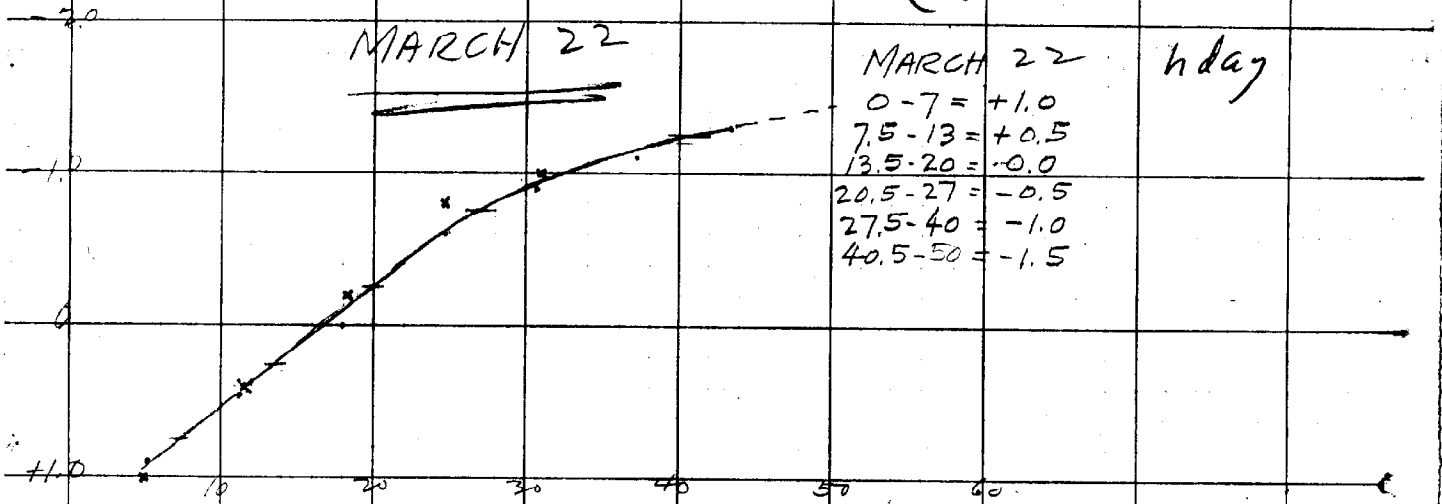
FATH. CORRECTIONS

WAINWRIGHT
(Launch 72)

MARCH 22

MARCH 22 h day

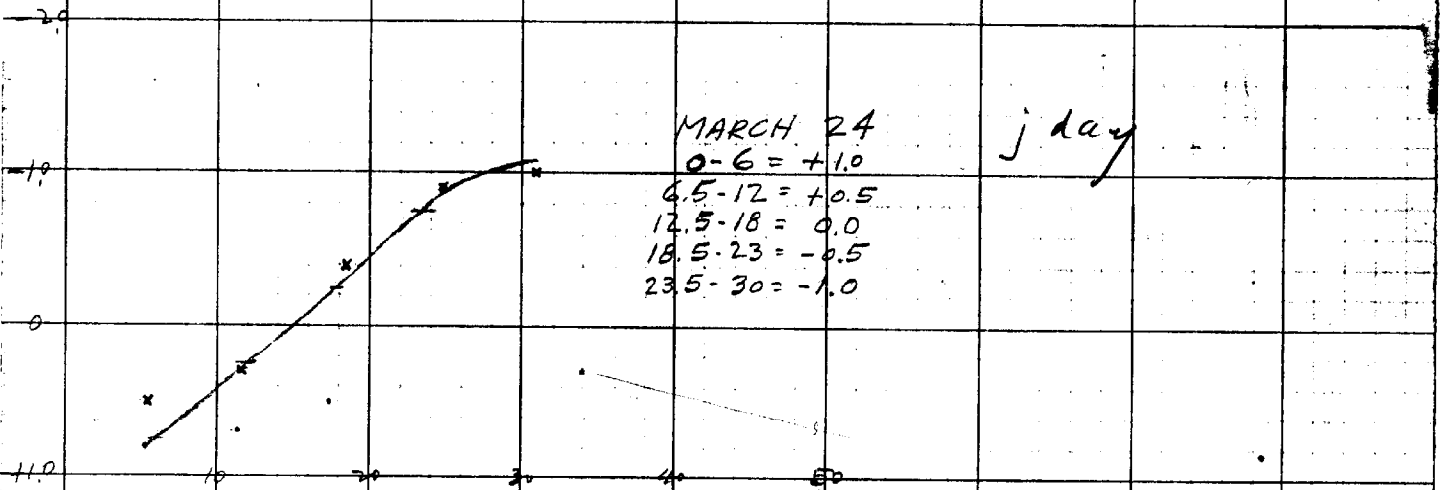
0-7 = +1.0
7.5-13 = +0.5
13.5-20 = -0.0
20.5-27 = -0.5
27.5-40 = -1.0
40.5-50 = -1.5



MARCH 24

j day

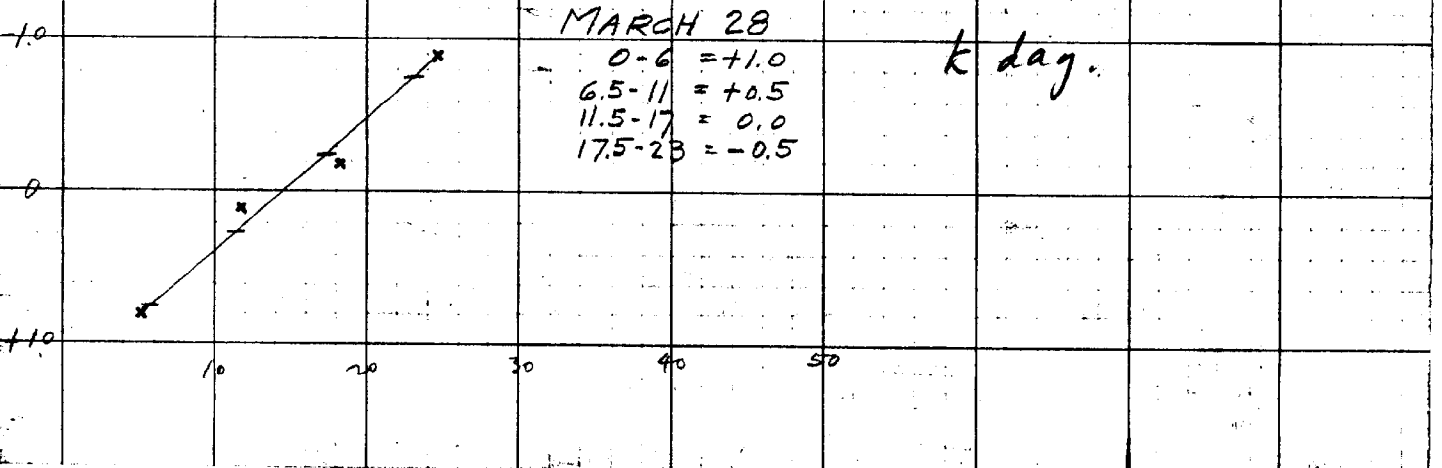
0-6 = +1.0
6.5-12 = +0.5
12.5-18 = 0.0
18.5-23 = -0.5
23.5-30 = -1.0



MARCH 28

k day.

0-6 = +1.0
6.5-11 = +0.5
11.5-17 = 0.0
17.5-23 = -0.5



Corrections in Feet

1.0

0.5

0

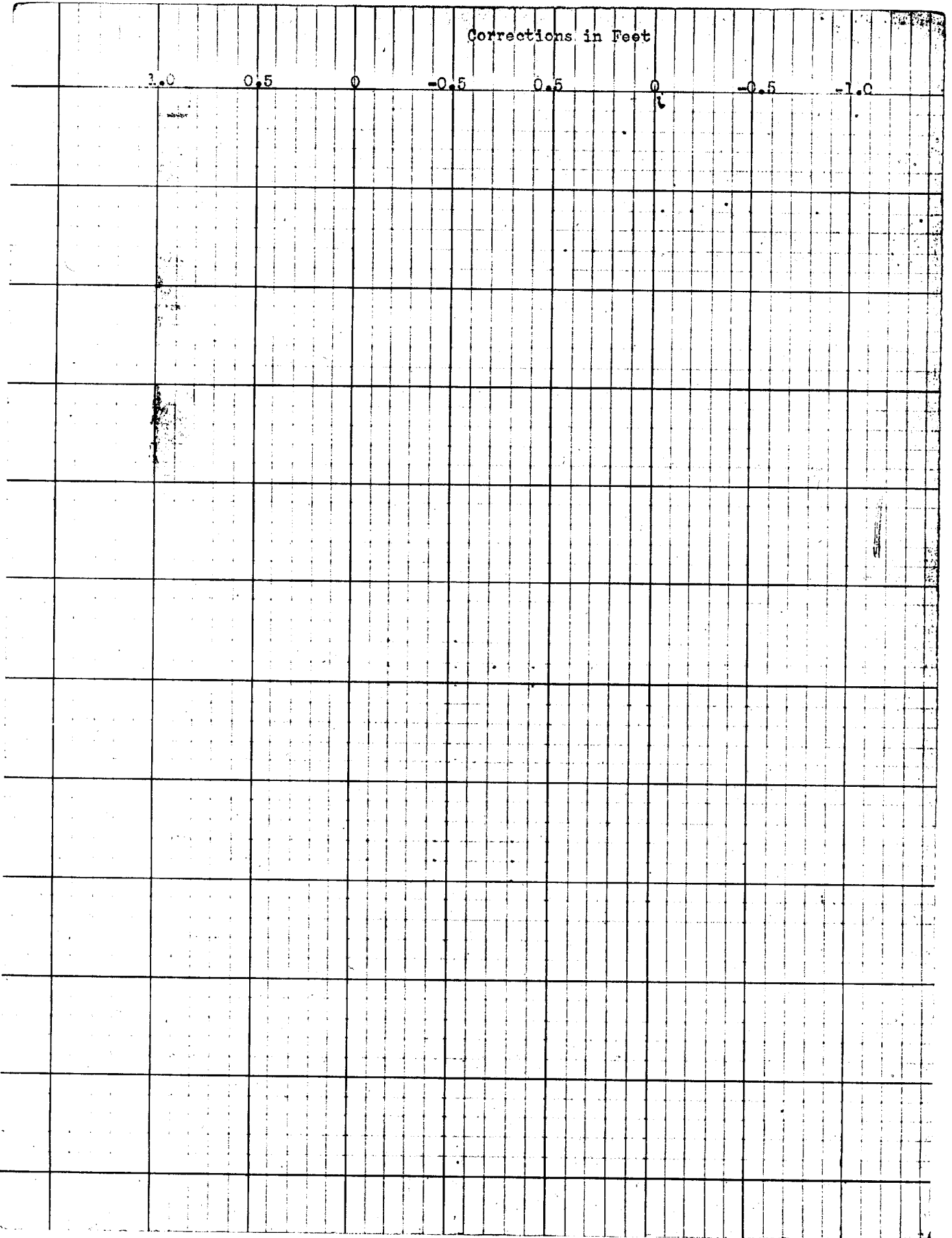
-0.5

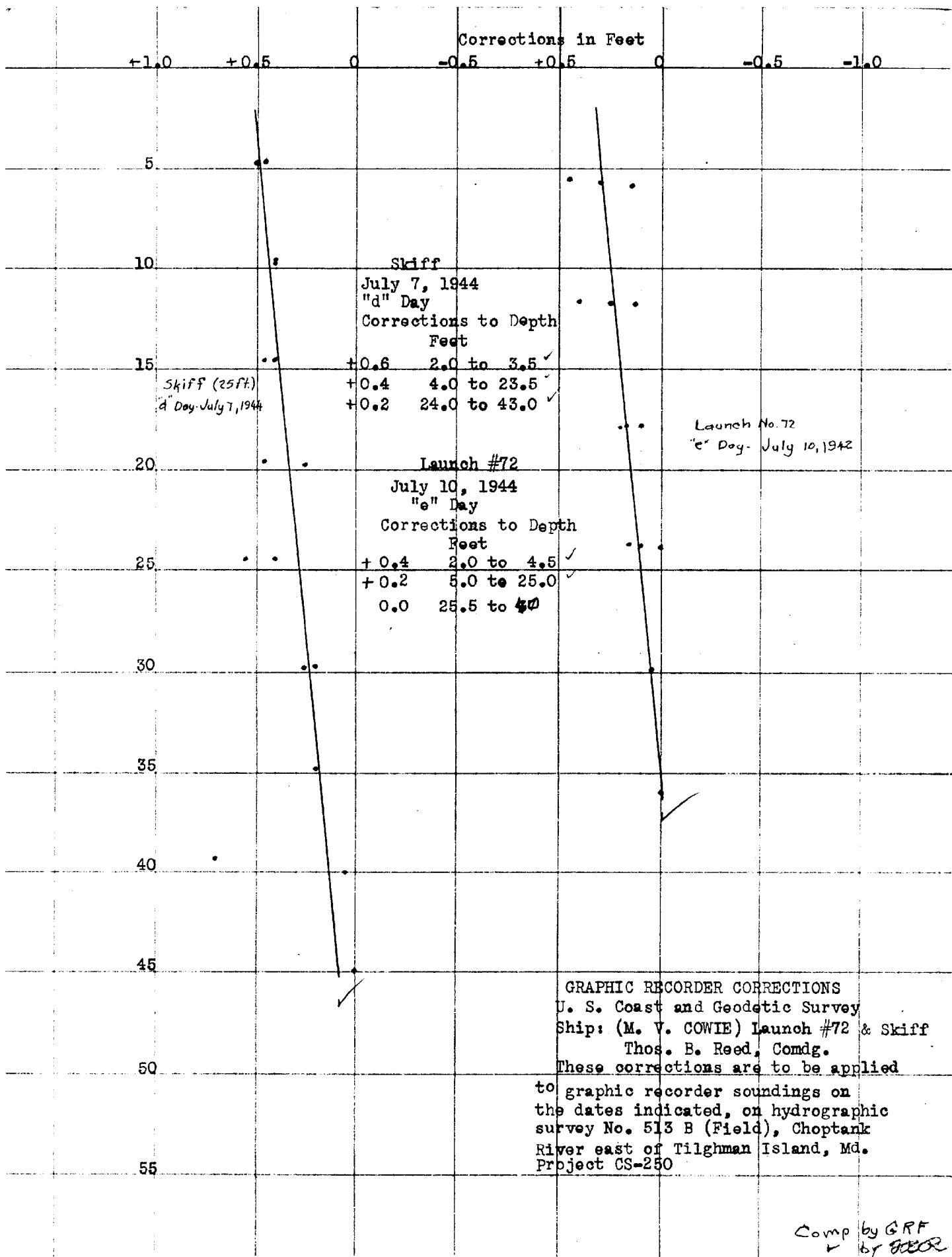
0.5

0

-0.5

-1.0





Corrections in Feet

+0.5 0 -0.5 -1.0 +0.5 0 -0.5 -1.0

5
10
15
20
25
30
35
40
45
50
55

"k" Day - July 20, 1944
"l" " - " 21, "
(Choppy sea on Tues)

July 20 & 21, 1944
"k" and "l" Days
Corrections to Depth
Feet
+0.2 2.0 to 16.0
0.0 16.5 to 29.0
-0.2 29.5 to 37

July 31, 1944
"m" Day
Corrections to Depth
Feet
0.0 2.0 to 40.0
-0.2 40.5 to 50

bottom

bottom

bottom

bottom

"m" Day - July 31, 1944

bottom

GRAPHIC RECORDER CORRECTIONS
U. S. Coast and Geodetic Survey
Ship: (M. V. COWIE) Launch #72
Thos. B. Reed, Comdg.
These corrections are to be applied
to graphic recorder soundings on the
dates indicated, on hydrographic
survey No. 513 B (Field), Choptank
River east of Tilghman Island, Md.
Project CS-250

Comp by GRF
6/28/44

Corrections in Feet

+1.0 +0.5 0 -0.5 -1.0 +0.5 0 -0.5

Launch #72
July 3, 1944
"a" Day

Corrections to Depth
Feet
+0.4 2.0 to 6.0 ✓
+0.2 6.5 to 14.5 ✓
+0.0 15.0 to 25.0 ✓
-0.2 25.5 to 70 ✓

Skiff A

"b" Day - July 5, 1944
"c" " - " 6, "
← PM Bar Check AM. →
(1 hr 20 minutes of
athometer soundings)

For "B" Scale Add -0.0 to above

15 Launch No. 72
"a" Day - July 3, 1944
← PM Bar Check - AM. →

Skiff A (25 ft.)
July 5, 1944
"b" Day

Corrections to Depth
Feet
+0.2 2.0 to 7.5
0.0 8.0 to 25

July 6, 1944
"a" Day

Corrections to Depth
Feet
+0.4 2.0 to 11.0
+0.2 11.5 to 25

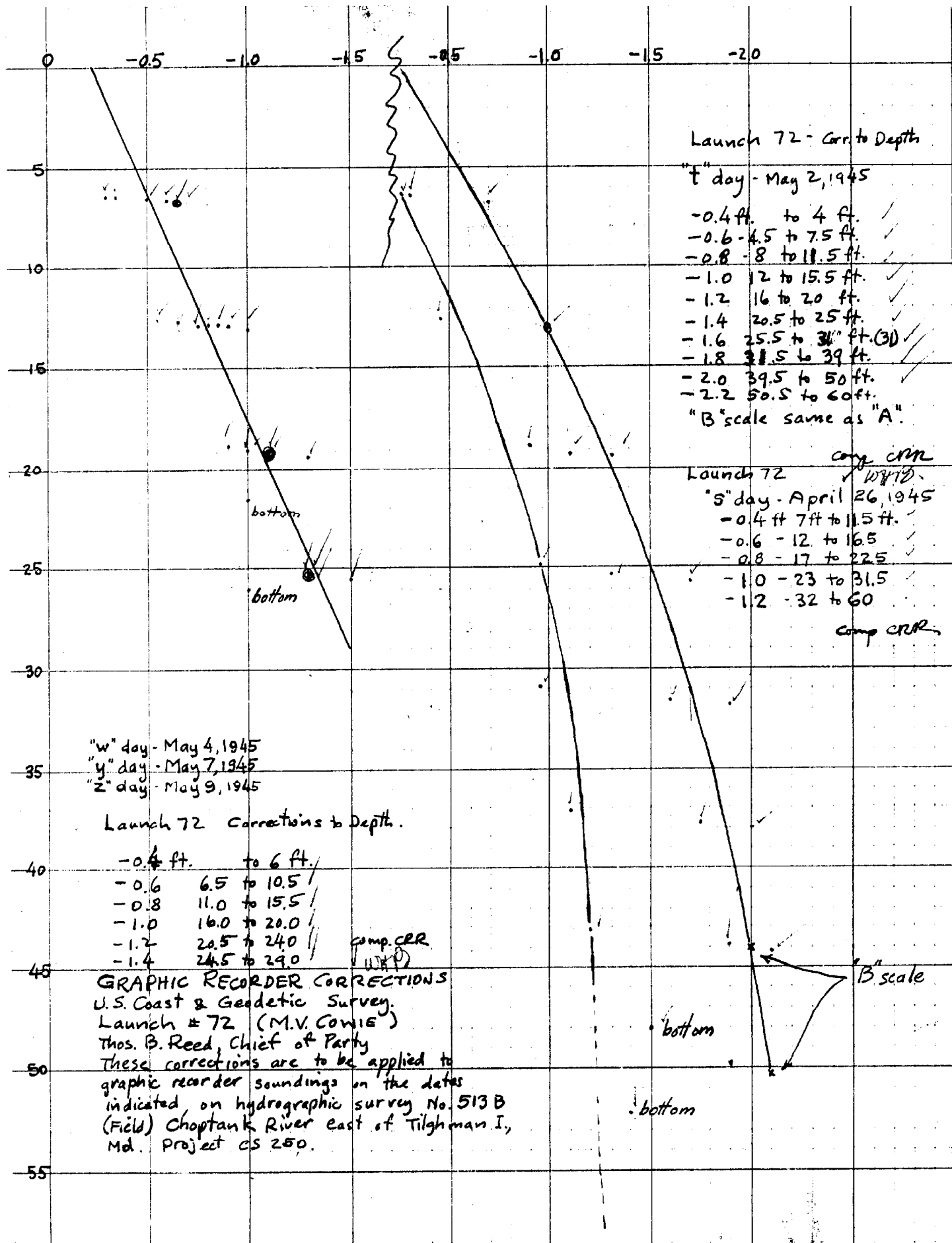
Note: On "a" Day, July 3, 1944, there was an easterly wind blowing down the Choptank River and the sea was choppy. The bar checks, especially the one taken in the P.M., do not conform to values obtained several days prior to this on hydrographic survey No. 813 (or 108) (Field). The correction curve as shown is about parallel to the curve for June 26 to 29, Sheet 813 (Field)

GRAPHIC RECORDER CORRECTIONS
U. S. Coast and Geodetic Survey
Ship: (M.V. COWIE) Launch #72 & Skiff
Thos. B. Reed, Comdg.

These corrections are to be applied to graphic recorder soundings for the dates and boats indicated, on hydrographic survey No. 513 B (Field), Choptank River east of Tilghman Island, Md. Project CS-250

+0.4 at 60

Comp by GRF
✓ by JBR



Launch 72 - Corr. to Depth
 "f" day - May 2, 1945
 -0.4 ft. to 4 ft. ✓
 -0.6 - 4.5 to 7.5 ft. ✓
 -0.8 - 8 to 11.5 ft. ✓
 -1.0 - 12 to 15.5 ft. ✓
 -1.2 - 16 to 20 ft. ✓
 -1.4 - 20.5 to 25 ft. ✓
 -1.6 - 25.5 to 31 ft. (31) ✓
 -1.8 - 31.5 to 39 ft. ✓
 -2.0 - 39.5 to 50 ft. ✓
 -2.2 - 50.5 to 60 ft. ✓
 "B" scale same as "A".

Launch 72 ^{Comp. CRR} ✓
 "s" day - April 26, 1945
 -0.4 ft. 7 ft. to 11.5 ft. ✓
 -0.6 - 12 to 16.5 ✓
 -0.8 - 17 to 22.5 ✓
 -1.0 - 23 to 31.5 ✓
 -1.2 - 32 to 60 ✓
 Comp. CRR ✓

"w" day - May 4, 1945
 "y" day - May 7, 1945
 "z" day - May 9, 1945
 Launch 72 Corrections to Depth.
 -0.4 ft. to 6 ft. ✓
 -0.6 6.5 to 10.5 ✓
 -0.8 11.0 to 15.5 ✓
 -1.0 16.0 to 20.0 ✓
 -1.2 20.5 to 24.0 ✓
 -1.4 24.5 to 29.0 ✓
 Comp. CRR ✓

GRAPHIC RECORDER CORRECTIONS
 U.S. Coast & Geodetic Survey
 Launch # 72 (M.V. Cowie)
 Thos. B. Reed, Chief of Party
 These corrections are to be applied to
 graphic recorder soundings on the dates
 indicated on hydrographic survey No. 513 B
 (Field) Choptank River east of Tilghman I.,
 Md. Project CS 250.

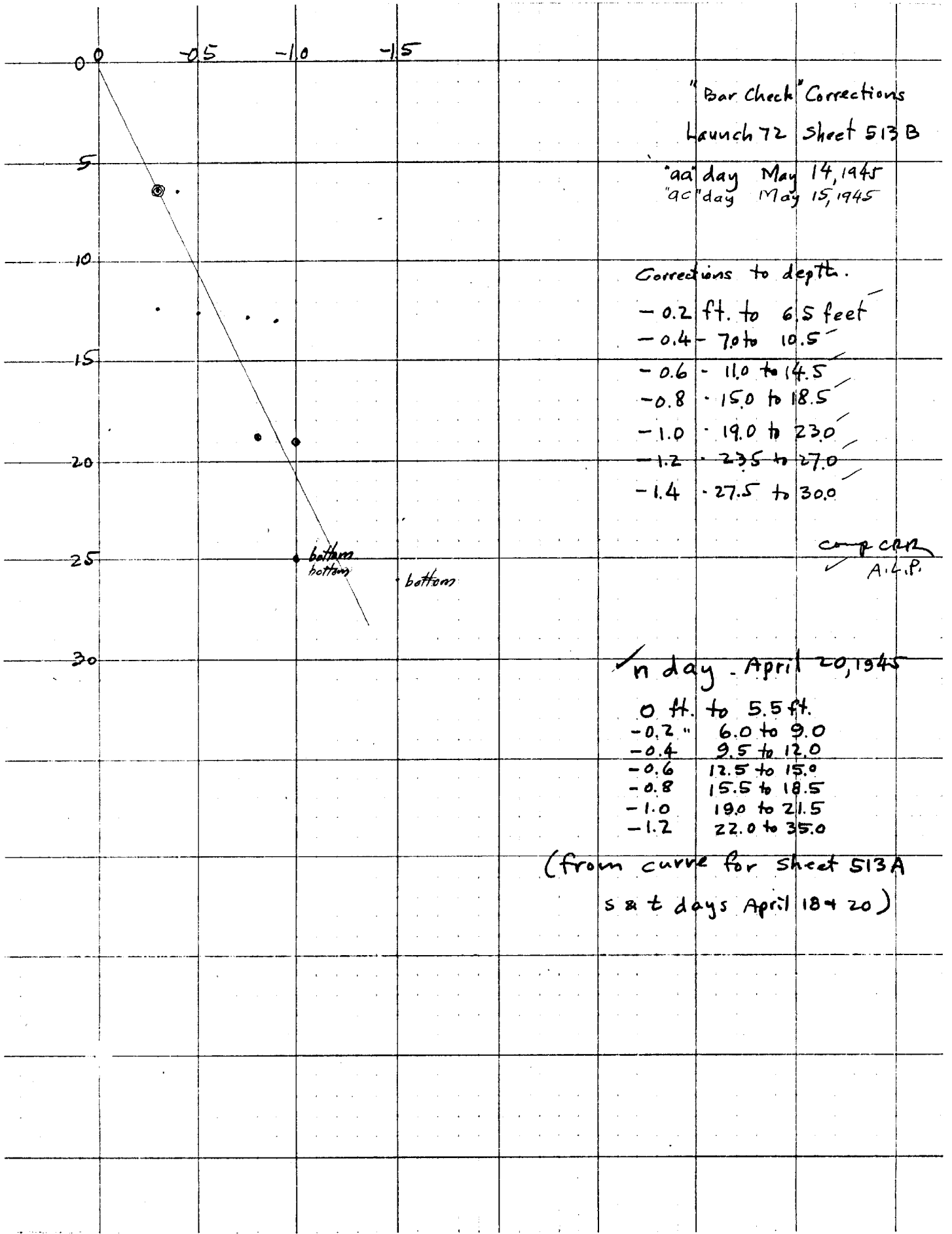
"B" scale

bottom

bottom

bottom

bottom



"Bar Check" Corrections
 Launch 72 Sheet 513 B

"aa" day May 14, 1945
 "ac" day May 15, 1945

Corrections to depth.

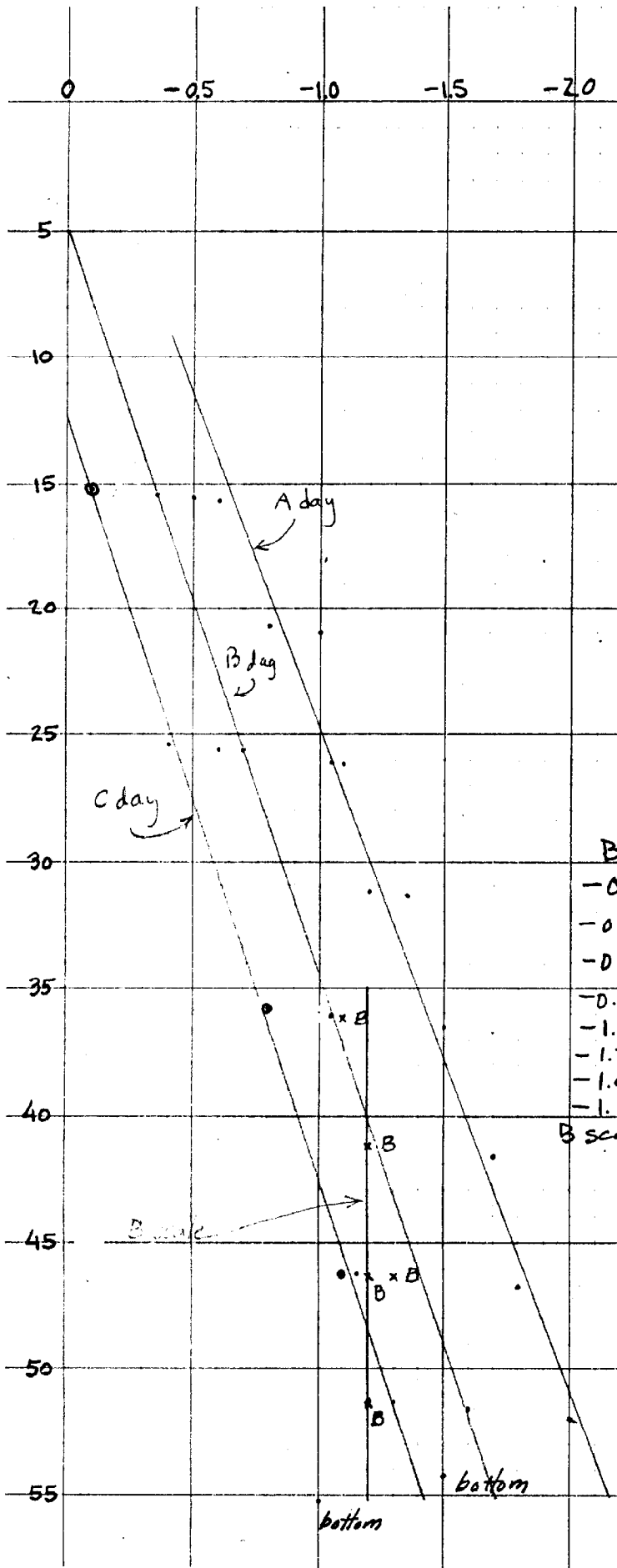
- 0.2 ft. to 6.5 feet
- 0.4 - 7.0 to 10.5
- 0.6 - 11.0 to 14.5
- 0.8 - 15.0 to 18.5
- 1.0 - 19.0 to 23.0
- 1.2 - 23.5 to 27.0
- 1.4 - 27.5 to 30.0

comp. corr.
 A.L.P.

✓ n day - April 20, 1945

- 0 ft. to 5.5 ft.
- 0.2 " 6.0 to 9.0
- 0.4 " 9.5 to 12.0
- 0.6 " 12.5 to 15.0
- 0.8 " 15.5 to 18.5
- 1.0 " 19.0 to 21.5
- 1.2 " 22.0 to 35.0

(from curve for sheet 513A
 s & t days April 18 & 20)



Recorder Corrections from Bar Checks

Sheet 513 B - M.V. Cowie

"A" day - April 24, 1945

"B" day - April 26, 1945

"C" day - April 30, 1945

CORRECTIONS

A Day - April 24

-0.6 to 16.5 ft.

-0.8 17.0 to 22.0 ft.

-1.0 22.5 to 27.0 ft.

-1.2 27.5 to 32.5 ft.

-1.4 33.0 to 37.5 ft.

-1.6 38.0 to 43.0 ft.

-1.8 43.5 to 48.0 ft.

-2.0 48.5 to 53.5 ft.

-2.2 54.0 to 60 ft.

B scale = -1.2 feet for all sdgs.

B Day - April 26

-0.2 to 14.0

-0.4 14.5 to 19.5

-0.6 20.0 to 25.5

-0.8 26.0 to 31.5

-1.0 32.0 to 37.0

-1.2 37.5 to 43.0

-1.4 43.5 to 49.0

-1.6 49.5 to 55.0

B scale = -1.2 ft. for all

C Day - April 30

0 to 15.0 ft.

-0.2 15.5 to 21.5 ft.

-0.4 22.0 to 27.5 ft.

-0.6 28.0 to 33.5 ft.

-0.8 34.0 to 39.5 ft.

-1.0 40.0 to 45.5 ft.

-1.2 46.0 to 51.5 ft.

-1.4 52.0 to 58 ft.

B scale = -1.2 feet for all sdgs.

Comp CRM
A.L.P.

GEOGRAPHIC NAMES

Survey No.

H7043

Name on Survey

	A	B	C	D	E	F	G	H	K
	On Chart No.	On previous survey No.	On U. S. Quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
<u>Chesapeake Bay</u>								USGB	1
<u>Choptank River</u>									2
<u>Trippe Bay</u>								"	3
<u>Cook Pt</u>								"	4
<u>Todds Pt</u>								"	5
<u>Castle Haven Pt</u>								"	6
<u>Cook Point Cove</u>								"	7
<u>Brannock Bay</u>								"	8
									9
									10
									11
									12
									13
									14
									15
									16
<u>Oxford</u>									17
<u>Cambridge</u>									18
<u>Aralon</u>									19
<u>Taylor's Island</u>								USGB	20
									21
									22
									23
									24
									25
									26
									27

Names underlined in red approved
by L. Heck on 12/3/46

tide staff locations

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. **H7043.**

Records accompanying survey:

Boat sheets *..1..*; sounding vols. *18*.....; wire drag vols.;
bomb vols.; graphic recorder rolls *286 envelopes*
special reports, etc.
.....

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

Number of positions on sheet		<i>2576</i>
Number of positions checked		<i>150</i>
Number of positions revised		<i>9 + 30</i>
Number of soundings revised (refers to depth only)		<i>55</i>
Number of soundings erroneously spaced		<i>45</i>
Number of signals erroneously plotted or transferred		<i>0</i>
Topographic details	Time	<i>2 hrs</i>
Junctions	Time	<i>3 hrs</i>
Verification of soundings from graphic record	Time	<i>10 hrs</i>

Verification by *R. H. DE LAUDER*..... Total time *194 hrs* Date *11-14-46*

Reviewed by *J. J. Jordan*..... Time *27*... Date *11-29-46*

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 7043

FIELD NO. 513-B

Maryland, Chesapeake Bay, Entrance to Choptank River
Surveyed in Dec. 1943 to May 1945 Scale 1:10,000
Project No. CS-250

Soundings:

808 Fathometer
Pole

Control:

Three-point fixes on shore
signals

Chief of Party - T. B. Reed and L. C. Johnson
Surveyed by - T. B. Reed, L. C. Johnson, G. R. Fish, C. R. Reed,
J. O. Phillips and A. L. Powell
Protracted by - M. T. Miller
Soundings plotted by - R. J. Auld
Verified and inked by - R. K. DeLawder
Reviewed by - G. F. Jordan, November 27, 1946
Inspected by - H. W. Murray

1. Control and Topographic Detail

Signal control originates with previous triangulation and with air photographic surveys T-5715 and T-5716.

Shoreline detail is from air photographic surveys T-8241, T-8242, T-8248 and T-8249.

2. Bottom Configuration and Depth Curves

The present survey covers an area of smooth bottom except for the shoal area in the vicinity of lat. $38^{\circ} 38.2'$, long. $76^{\circ} 15.4'$ where 7- and 9-ft. soundings fall in 10- to 15-ft. depths.

Depth curves could be satisfactorily drawn.

3. Sounding Line Crossings

Agreement of soundings at crosslines is generally satisfactory. However, in the western part of the survey, the reason for some differences of 1-ft. in depth and occasionally 2 feet, between the soundings of two vessels, could not be readily ascertained.

4. Adjoining Surveys

Satisfactory junctions on the south and southwest are effected with H-7064 (1945) and H-7075 (1945), respectively. The junction on the north with H-7032 (1943-45) is satisfactory. However, in the vicinity of lat. $38^{\circ} 39'$, long. $76^{\circ} 17.5'$, about thirty positions were controlled by weak angles. It was necessary to replot the positions in order to effect a satisfactory junction with H-7032. The remaining junction will be considered in the reviews of H-6958 (1943-44) and H-7010 (1942-44).

5. Comparison with Prior Surveys

H-201 (1848) and H-2630 (1902) on scales 1:20,000

Depths on these prior surveys agree very well with depths on the present survey except where substantial changes in the bottom have occurred.

In the northwest corner of the present survey 4-ft. depths supersede prior 18-ft. depths in the shoal area extending to the southward. Present soundings in the deep in that area are 4-to 6-ft. shoaler in 50-ft. depths.

Cook Point has receded 450 meters since the earlier survey and 270 meters between 1902 and 1943-45. Present 4-to 7-ft. depths now supersede prior 1-to 4-ft. depths near the point.

Todds Point has similarly receded on the north but shows a 300-meter accretion on the southeast point. Southeast of the point, the bight in the present 12-ft. curve is 300 meters farther offshore.

The high water line northwest from Castle Haven Point has receded about 70 meters.

Specific mention is made of the following items on H-2630:

- a. The prior 10-ft. sounding (chart 553) falling in present 16-ft. depths at lat. $38^{\circ} 38.53'$, long. $76^{\circ} 14.95'$, is considered a 1-fm. error and should be disregarded. Although the sounding was not specifically investigated on the present survey, present soundings and a prior crossline both discredit 10-ft. depths here.

- b. The uninvestigated prior 18-ft. sounding (chart 1225) falling in present 20-to 31-ft. depths at lat. $38^{\circ} 38.49'$, long. $76^{\circ} 12.30'$, is considered a 2-fm. error and should be disregarded. A crossline on the prior survey shows 30 feet here on the edge of a 35-ft. depression.
- c. The uninvestigated prior 16-ft. sounding (chart 553) falling in present 19-ft. depths at lat. $38^{\circ} 36.65'$, long. $76^{\circ} 19.55'$, is considered erroneous and should be disregarded. Present soundings and a prior crossline both discredit 16-ft. depths here.
- d. Although the sunken piles at the following positions on the prior survey were not investigated, it is reasonable to assume that after 40 years, they are now non-existent:

<u>Lat. 38°</u>	<u>Long. 76°</u>	<u>Remarks</u>
36.74'	12.41'	Not charted
37.14'	13.82'	Charted as sunken rock, Chart 1225
37.39'	13.46'	2 ft. slightly north of this position on Chart 1225
36.91'	14.05'	Not charted
35.20'	16.60'	Chart 553

These prior surveys are superseded within the common area except for bottom characteristics which have been carried forward to supplement those obtained on the present survey.

6. Comparison with Chart 553 (Print date of May 25, 1946)
Chart 1225 (Print date of March 9, 1946)

a. Hydrography

Charted hydrography is from the aforementioned prior surveys and is entirely superseded by the present survey.

b. Aids to Navigation

Aids to navigation located on the present survey agree with charted aids except that Cook Point Cove Light which was located by six sextant angles at lat. $38^{\circ} 37.46'$, long. $76^{\circ} 16.18'$, is charted 120 meters WNW of the position.

The hydrographer (D.R., p. 2) states that the buoy charted in Trippe Bay at lat. $38^{\circ} 35.55'$, long. $76^{\circ} 17.25'$, was not in evidence at the time of the survey.

7. Condition of the Survey

- a. The sounding records and Descriptive Report are complete in all detail.
- b. The smooth plotting was well done except for thirty weak positions which were replotted.

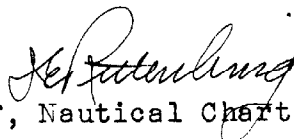
8. Compliance with Project Instructions

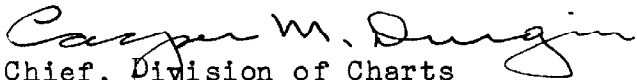
The survey adequately complies with the project instructions.

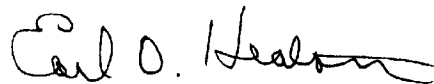
9. Additional Field Work Recommended


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

Examined and approved:


Chief, Nautical Chart Branch


Chief, Division of Charts


Chief, Section of Hydrography


Chief, Division of Coastal Surveys

TIDE NOTE FOR HYDROGRAPHIC SHEET

May 7, 1946

~~Division of Hydrography and Topography~~

Division of Charts: H. W. MURRAY

Plane of reference approved in
18 volumes of sounding records for

HYDROGRAPHIC SHEET 7043

Locality Southern part of Choptank River Entrance, Chesapeake Bay

Chief of Party: L. C. Johnson and T. B. Reed in 1943-1945.
Plane of reference is mean low water, reading

- 6.5 ft. on tide staff at Oxford
- 4.3 ft. below B. M. 1
- 6.3 ft. on tide staff at Cambridge
- 4.7 ft. below B. M. 1
- 2.3 ft. on tide staff at Avalon
- 3.9 ft. below B. M. 1
- 3.0 ft. on tide staff at Taylors Island
- 3.5 ft. below B. M. 1

Height of mean high water above plane of reference is 1.3 feet.

Condition of records satisfactory except as noted below:

W. H. Ham
Chief, Division of Tides and Currents.

NAUTICAL CHARTS BRANCH

SURVEY NO. H7043

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
7-2-46	553	J.M. Albert	Before After Verification and Review <i>changes in depth near Cook Pt. and Drifted Bay.</i>
7-8-46	1225	J.M.A.	Before After Verification and Review <i>Partly via 553</i>
7/23/48	551	H. MacEwen	Before After Verification and Review
2/27/64	77	O. Svendsen	Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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			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.