

7027

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Diag'd. on Diag. Ch. No. 78-2

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Hydrographic
Field No. 1313	Office No. H-7027
LOCALITY	
State	Maryland
General locality	Chesapeake
Locality	Little Choptank River
194 4-'45	
CHIEF OF PARTY	
T. B. Reed	
LIBRARY & ARCHIVES	
DATE	Oct. 30, 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

HYDROGRAPHIC TITLE SHEET

H7027

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-7027

Field No. 1313

State MARYLAND

General locality Chesapeake Bay
LITTLE CHOPTANK RIVER

Locality Upper part of Little Choptank River and Tributaries

Scale 1:10,000 Date of survey Dec. 1944 to Mar. 1945

Instructions dated Additional Instructions, Sept. 18, 1942; Sept. 23, 1943 Supplemental Instructions

Vessel (M. V. COWIE) 25 foot skiff

Chief of party Thos. B. Reed

Surveyed by Lieut. Comdr. G. R. Fish and Ensign Allen L. Powell

Soundings taken by fathometer, graphic recorder, hand lead, wire and pole

Protracted by J. Marchione

Soundings penciled by A. Kaupa

Soundings in 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- (Field No. 1313)

UPPER PART OF LITTLE CHOPTANK RIVER AND TRIBUTARIES

Scale 1:10,000

Thos. B. Reed, Comdg. M. V. COWIE

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 Director's Additional Instructions is September 18, 1942, and the date of Supplemental Instructions is September 23, 1943.
- B. The general locality of the survey is the upper part of the Little Choptank River, Phillips Creek, Beckwith Creek, Gray Creek, Fishing Creek and Church Creek; between Lat. 38 --30 and 38 --36 and east of Long. 76 --14. Field work began on December 27, 1944 and ended on March 12, 1945.

H-7024
(1945) There are no contemporary surveys of the area. Sheet field No. 1413 joins with sheet Field No. 1313 on the west. An index of sheets is included with this report. → H-7027 (1944-45)

- C. All sounding was done with a 25 foot skiff powered with two outboard motors. The hydrographic party based on the M. V. COWIE which was secured alongside the Longwharf at Cambridge, Maryland. The skiff was left at a private dock opposite Cherry Island. The Hydrographic party used a truck for transportation to and from the skiff.

The skiff was equipped with an 808-A type depth recorder either No. 65 or No. 67, which was used for depths greater than about 5 feet. The units were mounted in the keel of the skiff instead of a separate unit. A pole was used for sounding in depths shallower than about 5 feet.

- D. Portable automatic tide gages were installed at Cherry Island (Lat. 38-38.73, Long. 76-12.49), Milton Wharf (Lat. 38-30.38, Long. 76-10.41), Madison (Lat. 38-30.88, Long. 76-13.27), and Taylors Island (Lat. 38-28.20, Long. 76-17.48). The gage at Madison was in place for only a short period due to ice conditions and values from this gage were not used to reduce soundings. Tide staff readings were taken at Cherry Island after the gage had been removed. The readings were taken on February 20, 21, 23, 24, and 26, 1945, and are recorded in the sounding volumes on the applicable days.

Direct values from the Cherry Island gage were used to reduce all soundings above lines drawn east and west from Cherry Point, as shown on the boat sheet. South of the line across the mouth of Fishing Creek all soundings were reduced by tides from the gage at Milton Wharf except for "w" and "x" days on February 24 and 26 which were reduced from tide staff readings taken at Cherry Island with no corrections applied, and "y" day on Feb. 28 which was reduced by tides from the Taylors Island gage with an additive time correction of 5 minutes but with no correction for range. South of the line drawn west from Cherry Point the corrections applicable to the Madison gage were used. On "t", "u" and "v" days, on February 20, 21 and 23, tide staff readings at Cherry Island were used with a time correction of minus 20 minutes but with no height correction. On "z" and "aa" days, on March 1 and 12, tides from the Taylors Island gage were used with a time correction of minus 15 minutes but with no height correction.

- F. The following is the source of triangulation control stations: Chesapeake Bay and Tributaries Part 7, C.C.Y. 1909 and J. Bowie, Jr. 1934.

All topographic stations were obtained from planimetric maps Nos. T-5719, T-5718, T-5716 and T-5715. All signals shown in green on the boat sheet were transferred from the same source.

- G. All shoreline detail was taken from the planimetric maps listed under paragraph "F" above. The date of the surveys is not known but some of the field inspection was done in 1937. *Slight corrections to agree with T-8242*

The small rocky islands shown on the boat sheet in Lat. 38-34.55, Long. 76-10.23 ^{was} were located by sextant fixes; ^{it} ^{was} they were probably missed when making up the planimetric maps.

- H. Soundings were taken with an 808-A type portable depth recorder in depths greater than about 5 feet. In shoaler depths a pole was used. Most of the soundings were taken on regular fathometer spacings; the proper notations have been made in the records where changes in sounding methods occur.

Bar checks to obtain recorder corrections were made twice daily, weather permitting.

- I. Three-point visual fixes were taken at one and one half or two minute intervals to control the hydrography. In the narrow channels of creeks the sounding lines were referenced to shore objects or channel lines. The sounding record for "s" day, January 23, 1945 was lost; the positions should be obtained from the boat sheet. *'s' day is in eastern part of Fishing Creek*

(3)

The corrections, for the graphic recorder, were obtained from bar checks. The differences between the true depths and the graphic recorder readings were plotted on graph paper and curves drawn thru the various points; the corrections to be applied to the soundings were taken from these curves. These data are being submitted with this report.

- J. The present survey is thought to be complete and adequate to supersede prior surveys for charting purposes. The junction between adjacent surveys is satisfactory. Depth curves can be adequately drawn at the junctions.
- K. No cross-lines were run in narrow channels. In wider parts of the river adequate cross-lines were run.
- M. A generalized comparison with Chart 1225 indicates good agreement between the present survey and the chart. The three foot sounding shown on the Chart in Lat. 38-32.65, Long. 76-13.8⁷⁹ still has about the same minimum depth.
- N. There are no dangers or shoals in the area covered by this survey that one would not expect to find in an area of this type.
- O. Coast Pilot information will be submitted on an area basis and none is included in this report.
- P. One submarine cable crosses navigable water within the limits of this survey. It runs between the east shore of the river (Lat. 38-33.65, Long. 76-12.55), to the east shore of Cherry Island (Lat. 38-33.73, Long. 76-12.71).
- Q. Landmarks for charts are being submitted on form 567. Following is a list of the objects within the limits of this survey:

Chart letter No. 47 (1946)

CUPOLA, white barn
HOUSE (W. GABLE) white
CUPOLA, red barn
TOWER, red and white brick
BARN (E. GABLE) brown
CHIMNEY (W. GABLE) white house
CHIMNEY (E. GABLE) 2-story white house
CHIMNEY (N. GABLE) white house
CUPOLA, white barn
CUPOLA, red barn
CHIMNEY (S. GABLE) 2-story house
WINDMILL (TANK charted)
CHIMNEY (W. GABLE) 2-story house
CUPOLA, white barn
CHIMNEY (W. GABLE) house
TANK (ELEVATED) white
SPIRE (WHITE) church

(4)

- R. Geographic names are considered to have been adequately covered by prior surveys. 214 ✓
- Z. The tide records for Cherry Island were submitted on February 6, 1945; the records for Milton Wharf on February 6, 1945; the records for Madison Bay on February 22, 1945; and the records for Taylors Island on April 17, 1945.

SUBMITTED BY: Allen L. Powell
Allen L. Powell
Ensign C&GS

Approved and Forwarded:

Thos. B. Reed

Thos. B. Reed
Lieut. Commander C&GS
Commanding M. V. COWIE

TIDE NOTE TO ACCOMPANY
 HYDROGRAPHIC SURVEY H- (Field No. 1313)
 M. V. COWIE
 Project CS-250

Three tide stations were maintained within the area covered by this hydrographic sheet. Tides from two of these stations and from a fourth station lying outside the area of this sheet were used to reduce soundings. The location of the stations are as follows:

NAME	Lat. & Long.	Low-water on staff
Cherry Island, Md.	38-38 ³ .73 76-12.49	2.8
Milton Wharf, Md.	38-30.38 76-10.41	2.0
Madison, Md.	38-30.88 76-13.27	2.0
Taylor's Island, Md.	38-28.20 76-17.48	3.0

Tide staff readings were obtained at Cherry Island on February 20, 21, 23, 26, 1945, and are recorded in sounding volumes Nos. 6 and 7 at the beginning of the days.

Direct values from the Cherry Island gage used to reduce all soundings above lines drawn east and west from Cherry Point, as shown on the boat sheet. South of the line across the mouth of Fishing Creek all soundings were reduced by tides from the gage at Milton Wharf except for "w" and "x" days on February 24 and 26 which were reduced from tide staff readings taken at Cherry Island with no corrections applied, and "y" day on February 28 which was reduced by tides from the Taylor's Island with no corrections applied, and "y" day on February 28 which was reduced by tides from the Taylor's Island gage with an additive time correction of 5 minutes but with no correction for range. South of the line drawn west from Cherry Point the corrections applicable to the Madison gage were used. On "t", "u" and "v" days, on February 20, 21 and 23, tide staff readings at Cherry Island were used with a time correction of minus 20 minutes but with no height correction. On "z" and "aa" days on March 1 and 12, tides from the Taylor's Island gage were used with a time correction of minus 15 minutes but with no height correction.

STATISTICS FOR HYDROGRAPHIC SURVEY
(Field No. 1313)
M.V. COWIE
CS-250

Vol. No.	Day Letter	Date	No. Sndgs.	No. Pos.	Sta. Miles
1	a	Dec. 27	222	55	6.3
1	b	Dec. 28	317	76	10.2
1	c	Dec. 29	323	119	16.8
1	d	Dec. 30	99	38	4.0
2	e	Jan. 20	302	60	6.9
2	f	Jan. 3	136	68	8.2
2	g	Jan. 4	319	123	10.0
3	h	Jan. 5	339	115	15.8
3	j	Jan. 6	271	91	12.5
3	k	Jan. 8	91	48	7.5
4	l	Jan. 9	278	138	19.0
4	m	Jan. 11	45	64	7.8
4,5	n	Jan. 12	233	112	15.2
5	p	Jan. 15	405	105	13.5
5	q	Jan. 17	263	99	9.2
5	r	Jan. 18	178	67	6.8
6	s	Jan. 23	398	99	11.1 — vol. lost by field party
6	t	Feb. 20	231	102	15.2
6	u	Feb. 21	380	55	8.1
7	v	Feb. 23	664	75	10.2
7	w	Feb. 24	422	57	6.2
7	x	Feb. 26	229	33	4.0
7	y	Feb. 28	21	11	1.1
7	z	March 1	3	19	1.7
7	aa	March 12		6	0.7
Totals			6169	1835	228.0
Area			sq. St. mi.	8.0	

VELOCITY CORRECTION ABSTRACT
 Hydrographic Sheet H- (Field 1313)
 Project CS 250
 1945

Corrections to Depth, Feet

For "a", "b", "c", "d", Days
 Dec. 27, 28, 29, 30, 1944
 Gain 8

Correction	From	To
0.0		10.5
-0.2	11.0	15.0
-0.4	15.5	19.0

For "j", "k", "l", "m", "n", Days
 Jan. 6, 8, 9, 11, 12, 1945
 Gain 8

Correction	From	To
0.0		11.5
-0.2	12.0	16.5
-0.4	17.0	20.0
-0.6	20.5	23.5
-0.8	24.0	26.0
-1.0	26.5	29.0
-1.2	29.5	32.0
-1.4	32.5	35.0
-1.6	35.5	

For "e", "f", "g", "h", Days
 Jan. 2, 3, 4, 5, 1945
 Gain 8

Correction	From	To
0.0		7.5
-0.2	8.0	14.0
-0.4	14.5	18.0
-0.6	18.5	22.0
-0.8	22.5	25.0

For "t", "u", "v", "z", "aa", Days
 Feb. 20, 21, 28, March 1, 12, 1945
 Gain 8

Correction	From	To
0.0		16.0
-0.2	16.5	20.0
-0.4	20.5	23.0
-0.6	23.5	26.0
-0.8	26.5	28.5
-1.0	29.0	31.0
-1.2	31.5	34.0
-1.4	34.5	36.0
-1.6	36.5	38.0

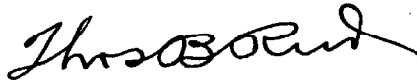
For "p", "q", "r", "s" Days
 Jan. 15, 17, 18, 23, 1945
 Gain 8

Correction	From	To
0.0		10.5
-0.2	11.0	15.0
-0.4	15.5	18.5
-0.6	19.0	21.0
-0.8	21.5	24.0

APPROVAL SHEET

For Hydrographic Survey, Field No. 1313
Project No. CS-250, Little Choptank River, Maryland
May 7, 1945

The boat sheet and 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 SHEET NO. H-7027 (Field No. Co. 1313)

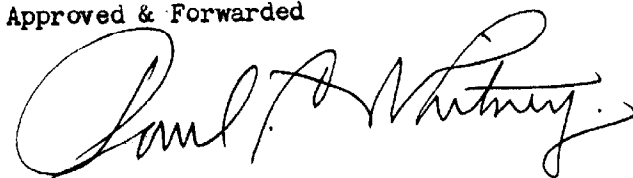
It was necessary to transfer hydrographic signals "TOX" and "TOM" from the boat sheet, as sufficient data was not available to accurately determine their locations.
Signals are on insert—head of Fishing Creek.

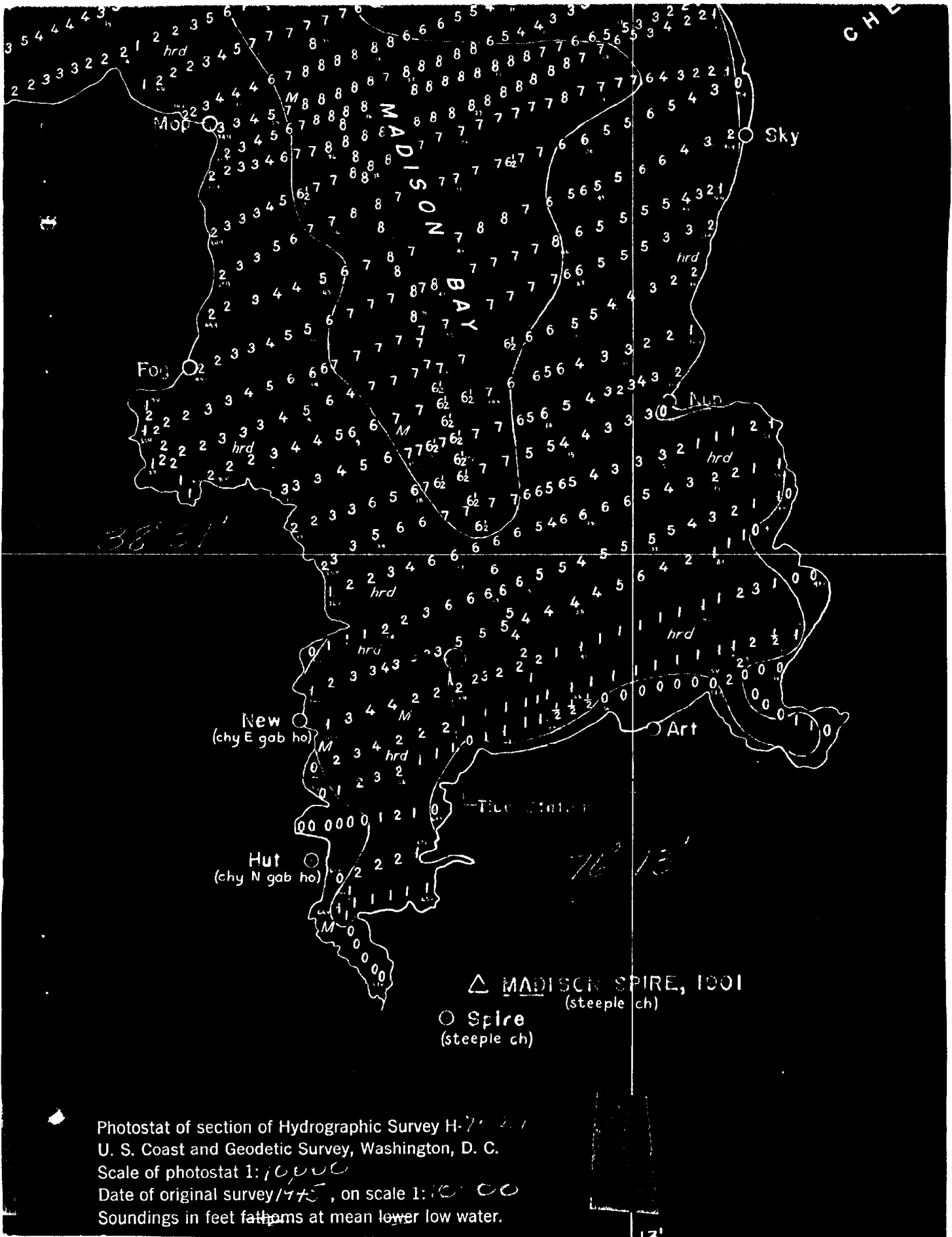
Respectfully submitted


Theodore M. Zeskind
Cartographic Engineer

Norfolk, Virginia
October 26, 1945

Approved & Forwarded


Paul C. Whitney
Supervisor SE District



Photostat of section of Hydrographic Survey H-7521
 U. S. Coast and Geodetic Survey, Washington, D. C.
 Scale of photostat 1:10,000
 Date of original survey 1975, on scale 1:10,000
 Soundings in feet fathoms at mean lower low water.

Corrections to Depth

+0.5 0.0 -0.5 -1.0 +0.5 0.0 -0.5 -1.0

"a" Day - Dec. 27, 1944
 "b" Day - Dec. 28, 1944
 "c" Day - Dec. 29, 1944
 "d" Day - Dec. 30, 1944

"e" Day - Jan 2, 1945
 "f" Day - Jan 3, 1945
 "g" Day - Jan 4, 1945
 "h" Day - Jan 5, 1945

Bottom
 Bottom

Bottom

Bottom

Bottom

Bottom

Corrections to Depth
 Feet

"a", "b", "c", & "d" Days
 Dec. 27, 28, 29, & 30, 1944

0.0 to 10.5
 -0.2 11.0 to 15.0
 -0.4 15.5 to 19.0
 -0.6
 -0.8

"e", "f", "g", & "h" Days
 Jan. 2, 3, 4, & 5, 1945

0.0 to 7.5
 -0.2 8.0 to 14.0
 -0.4 14.5 to 18.0
 -0.6 18.5 to 22.0
 -0.8 22.5 to 25

GRAPHIC RECORDER CORRECTIONS
 U.S. Coast and Geodetic Survey
 Ship: (M. V. Cowie) 25 ft. Skiff
 Thos. B. Reed, Com'dg.

These corrections are to be applied to
 Graphic recorder soundings on the dates
 indicated on hydrographic survey No. 1313
 (Field), Upper Little Choptank River and
 tributaries, Md. Proj. CS-250

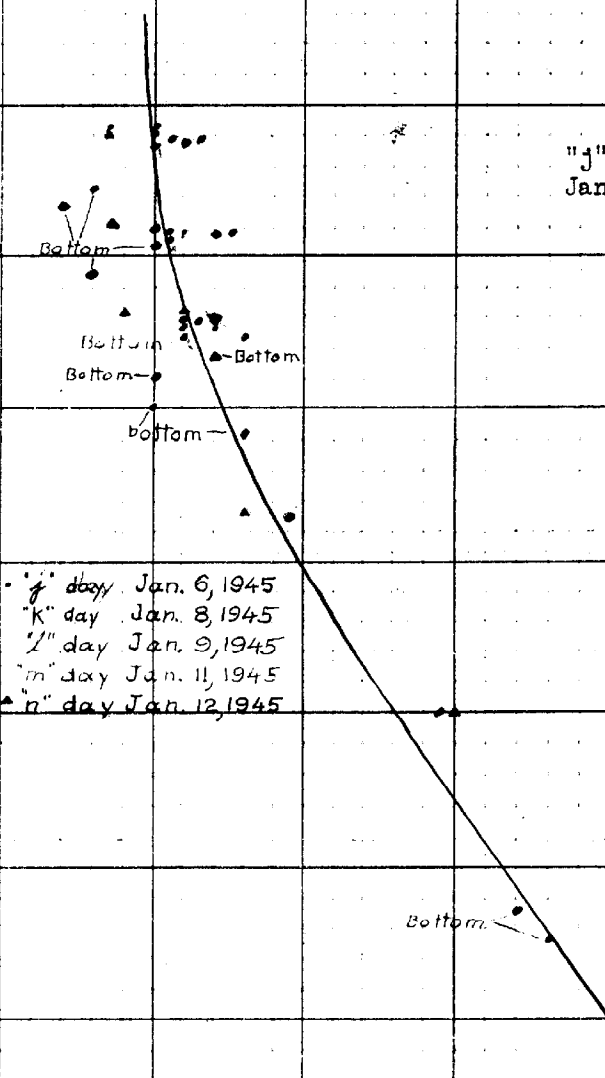
Comp. by G.B.W.
 Checked by H.W.B.

50

Corrections to Depth

+ 0.5 0.0 -0.5 -1.0 1.5 ~~0.0~~ ~~-0.5~~ ~~-1.0~~

5
10
15
20
25
30
35
40
45
50
55



Corrections to Depth
"j", "k", "l", "m", & "n" Days
Jan. 6, 8, 9, 11, & 12, 1945

0.0	to 11.5
-0.2	12.0 to 16.5
-0.4	17.0 to 20.0
-0.6	20.5 to 23.5
-0.8	24.0 to 26.0
-1.0	26.5 to 29.0
-1.2	29.5 to 32.0
-1.4	32.5 to 35.0
-1.6	35.5 to

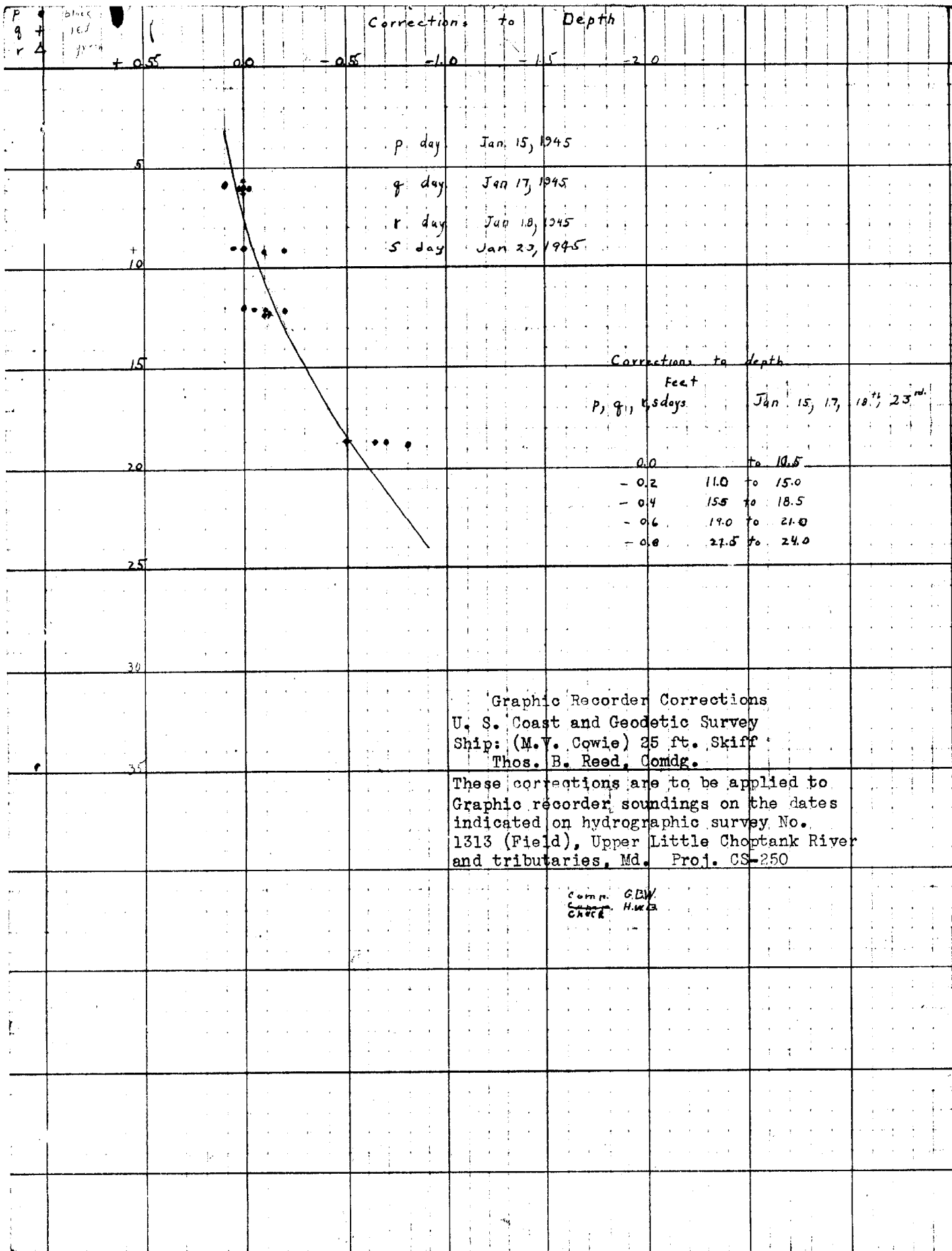
• "j" day Jan. 6, 1945
 • "k" day Jan. 8, 1945
 • "l" day Jan. 9, 1945
 • "m" day Jan. 11, 1945
 • "n" day Jan. 12, 1945

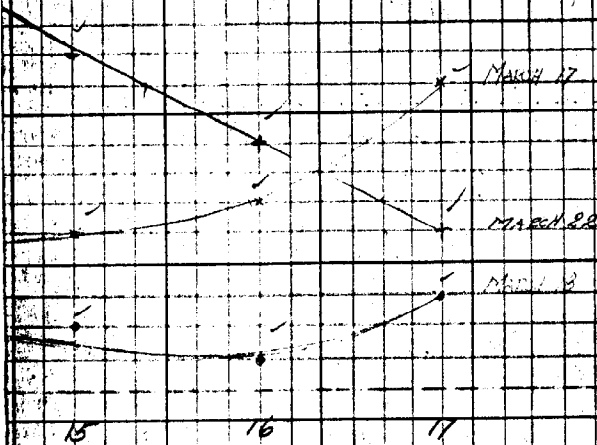
Bottom

GRAPHIC RECORDER CORRECTIONS

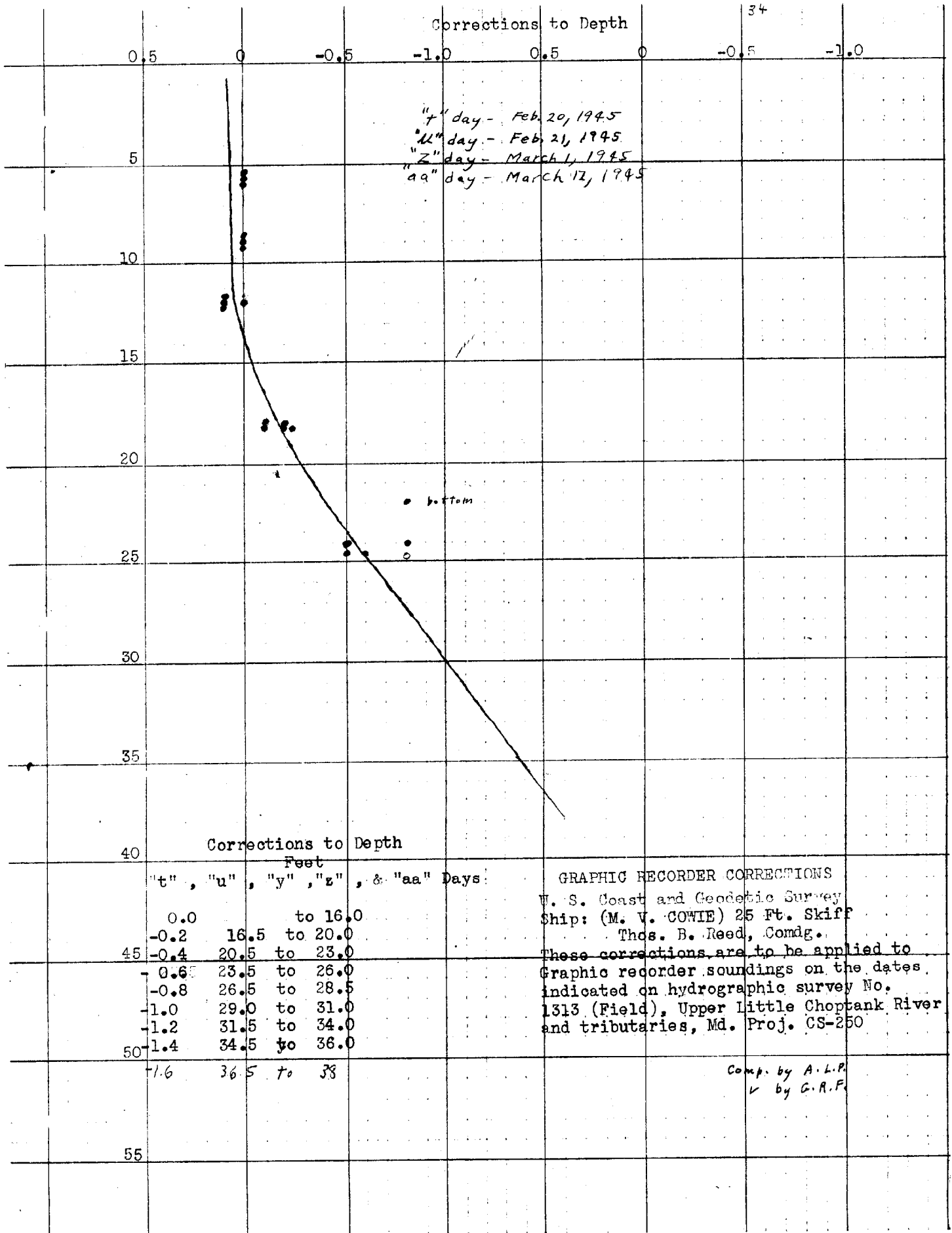
U.S. Coast and Geodetic Survey
 Ship: (M.V. Cowie) 25 ft. Skiff
 Thos. B. Reed, Comdg.
 These corrections are to be applied to
 Graphic recorder soundings on the
 dates indicated on hydrographic
 survey No. 1313 (Field), Upper Little
 Choptank River and tributaries, Md.
 Proj. CS-250.

Comp by GEM
 Check
 Comp by HMB





a			b			c		
MARCH 17			MARCH 18			MARCH 20		
to	1300	1.4	to	1355	1.4	to	1523	1.7
to	1320	1.5	to	1375	1.6	to	1540	1.8
to	1350	1.8	to	1420	1.9	to	1583	2.1
to	1370	2.1	to	1470	2.2	to	1600	2.3
to	1400	2.4	to	1520	2.4	to	1620	2.4
to	1450	2.6	to	1570	2.6	to	1640	2.5
to	1500	2.8	to	1620	2.8	to	1660	2.6
to	1550	3.0	to	1670	3.0	to	1680	2.7
to	1600	3.2	to	1720	3.2	to	1700	2.8
to	1650	3.4	to	1770	3.4	to	1720	2.9
to	1700	3.6	to	1820	3.6	to	1740	3.0
to	1750	3.8	to	1870	3.8	to	1760	3.1
to	1800	4.0	to	1920	4.0	to	1780	3.2
to	1850	4.2	to	1970	4.2	to	1800	3.3
to	1900	4.4	to	2020	4.4	to	1820	3.4
to	1950	4.6	to	2070	4.6	to	1840	3.5
to	2000	4.8	to	2120	4.8	to	1860	3.6
to	2050	5.0	to	2170	5.0	to	1880	3.7
to	2100	5.2	to	2220	5.2	to	1900	3.8
to	2150	5.4	to	2270	5.4	to	1920	3.9
to	2200	5.6	to	2320	5.6	to	1940	4.0
to	2250	5.8	to	2370	5.8	to	1960	4.1
to	2300	6.0	to	2420	6.0	to	1980	4.2
to	2350	6.2	to	2470	6.2	to	2000	4.3
to	2400	6.4	to	2520	6.4	to	2020	4.4
to	2450	6.6	to	2570	6.6	to	2040	4.5
to	2500	6.8	to	2620	6.8	to	2060	4.6
to	2550	7.0	to	2670	7.0	to	2080	4.7
to	2600	7.2	to	2720	7.2	to	2100	4.8
to	2650	7.4	to	2770	7.4	to	2120	4.9
to	2700	7.6	to	2820	7.6	to	2140	5.0
to	2750	7.8	to	2870	7.8	to	2160	5.1
to	2800	8.0	to	2920	8.0	to	2180	5.2
to	2850	8.2	to	2970	8.2	to	2200	5.3
to	2900	8.4	to	3020	8.4	to	2220	5.4
to	2950	8.6	to	3070	8.6	to	2240	5.5
to	3000	8.8	to	3120	8.8	to	2260	5.6
to	3050	9.0	to	3170	9.0	to	2280	5.7
to	3100	9.2	to	3220	9.2	to	2300	5.8
to	3150	9.4	to	3270	9.4	to	2320	5.9
to	3200	9.6	to	3320	9.6	to	2340	6.0
to	3250	9.8	to	3370	9.8	to	2360	6.1
to	3300	10.0	to	3420	10.0	to	2380	6.2
to	3350	10.2	to	3470	10.2	to	2400	6.3
to	3400	10.4	to	3520	10.4	to	2420	6.4
to	3450	10.6	to	3570	10.6	to	2440	6.5
to	3500	10.8	to	3620	10.8	to	2460	6.6
to	3550	11.0	to	3670	11.0	to	2480	6.7
to	3600	11.2	to	3720	11.2	to	2500	6.8
to	3650	11.4	to	3770	11.4	to	2520	6.9
to	3700	11.6	to	3820	11.6	to	2540	7.0
to	3750	11.8	to	3870	11.8	to	2560	7.1
to	3800	12.0	to	3920	12.0	to	2580	7.2
to	3850	12.2	to	3970	12.2	to	2600	7.3
to	3900	12.4	to	4020	12.4	to	2620	7.4
to	3950	12.6	to	4070	12.6	to	2640	7.5
to	4000	12.8	to	4120	12.8	to	2660	7.6
to	4050	13.0	to	4170	13.0	to	2680	7.7
to	4100	13.2	to	4220	13.2	to	2700	7.8
to	4150	13.4	to	4270	13.4	to	2720	7.9
to	4200	13.6	to	4320	13.6	to	2740	8.0
to	4250	13.8	to	4370	13.8	to	2760	8.1
to	4300	14.0	to	4420	14.0	to	2780	8.2
to	4350	14.2	to	4470	14.2	to	2800	8.3
to	4400	14.4	to	4520	14.4	to	2820	8.4
to	4450	14.6	to	4570	14.6	to	2840	8.5
to	4500	14.8	to	4620	14.8	to	2860	8.6
to	4550	15.0	to	4670	15.0	to	2880	8.7
to	4600	15.2	to	4720	15.2	to	2900	8.8
to	4650	15.4	to	4770	15.4	to	2920	8.9
to	4700	15.6	to	4820	15.6	to	2940	9.0
to	4750	15.8	to	4870	15.8	to	2960	9.1
to	4800	16.0	to	4920	16.0	to	2980	9.2
to	4850	16.2	to	4970	16.2	to	3000	9.3
to	4900	16.4	to	5020	16.4	to	3020	9.4
to	4950	16.6	to	5070	16.6	to	3040	9.5
to	5000	16.8	to	5120	16.8	to	3060	9.6
to	5050	17.0	to	5170	17.0	to	3080	9.7
to	5100	17.2	to	5220	17.2	to	3100	9.8
to	5150	17.4	to	5270	17.4	to	3120	9.9
to	5200	17.6	to	5320	17.6	to	3140	10.0
to	5250	17.8	to	5370	17.8	to	3160	10.1
to	5300	18.0	to	5420	18.0	to	3180	10.2
to	5350	18.2	to	5470	18.2	to	3200	10.3
to	5400	18.4	to	5520	18.4	to	3220	10.4
to	5450	18.6	to	5570	18.6	to	3240	10.5
to	5500	18.8	to	5620	18.8	to	3260	10.6
to	5550	19.0	to	5670	19.0	to	3280	10.7
to	5600	19.2	to	5720	19.2	to	3300	10.8
to	5650	19.4	to	5770	19.4	to	3320	10.9
to	5700	19.6	to	5820	19.6	to	3340	11.0
to	5750	19.8	to	5870	19.8	to	3360	11.1
to	5800	20.0	to	5920	20.0	to	3380	11.2
to	5850	20.2	to	5970	20.2	to	3400	11.3
to	5900	20.4	to	6020	20.4	to	3420	11.4
to	5950	20.6	to	6070	20.6	to	3440	11.5
to	6000	20.8	to	6120	20.8	to	3460	11.6
to	6050	21.0	to	6170	21.0	to	3480	11.7
to	6100	21.2	to	6220	21.2	to	3500	11.8
to	6150	21.4	to	6270	21.4	to	3520	11.9
to	6200	21.6	to	6320	21.6	to	3540	12.0
to	6250	21.8	to	6370	21.8	to	3560	12.1
to	6300	22.0	to	6420	22.0	to	3580	12.2
to	6350	22.2	to	6470	22.2	to	3600	12.3
to	6400	22.4	to	6520	22.4	to	3620	12.4
to	6450	22.6	to	6570	22.6	to	3640	12.5
to	6500	22.8	to	6620	22.8	to	3660	12.6
to	6550	23.0	to	6670	23.0	to	3680	12.7
to	6600	23.2	to	6720	23.2	to	3700	12.8
to	6650	23.4	to	6770	23.4	to	3720	12.9
to	6700	23.6	to	6820	23.6	to	3740	13.0
to	6750	23.8	to	6870	23.8	to	3760	13.1
to	6800	24.0	to	6920	24.0	to	3780	13.2
to	6850	24.2	to	6970	24.2	to	3800	13.3
to	6900	24.4	to	7020	24.4	to	3820	13.4
to	6950	24.6	to	7070	24.6	to	3840	13.5
to	7000	24.8	to	7120	24.8	to	3860	13.6
to	7050	25.0	to	7170	25.0	to	3880	13.7
to	7100	25.2	to	7220	25.2	to	3900	13.8
to	7150	25.4	to	7270	25.4	to	3920	13.9
to	7200	25.6	to	7320	25.6	to	3940	14.0
to	7250	25.8	to	7370	25.8	to	3960	14.1
to	7300	26.0	to	7420	26.0	to	3980	14.2
to	7350	26.2	to	7470	26.2	to	4000	14.3
to	7400	26.4	to	7520	26.4	to	4020	14.4
to	7450	26.6	to	7570	26.6	to	4040	14.5
to	7500	26.8	to	7620	26.8	to	4060	14.6
to	7550	27.0	to	7670	27.0	to	4080	14.7
to	7600	27.2	to	7720	27.2	to	4100	14.8
to	7650	27.4	to	7770	27.4	to	4120	14.9
to	7700	27.6	to	7820	27.6	to	4140	15.0
to	7750	27.8	to	7870	27.8	to	4160	15.1
to	7800	28.0	to	7920	28.0	to	4180	15.2
to	7850	28.2	to	7970	28.2	to	4200	15.3
to	7900	28.4	to	8020	28.4	to	4220	15.4
to	7950	28.6	to	8070	28.6	to	4240	15.5
to	8000	28.8	to	8120	28.8	to	4260	15.6
to	8050	29.0	to	8170	29.0	to	4280	15.7
to	8100	29.2	to	8220	29.2	to	4300	15.8
to	81							



GEOGRAPHIC NAMES

Survey No. **H7027**

Name on Survey	Source										
	A	B	C	D	E	F	G	H	K		
<u>Chesapeake Bay</u>									USG-B	1	
<u>Little Choptank River</u>									"	2	
<u>Madison Bay</u>	140									3	
<u>Fishing Creek</u>	140									4	
<u>Church Creek</u>	140									5	
<u>Phillips Creek</u>									"	6	
<u>Beckwith Creek</u>		(location of one tide staff)								7	
<u>Gary Creek</u>									"	8	
<u>Lee Creek</u>									"	9	
<u>Solomons Cove</u>	100									10	
<u>McKeil Pt</u>	120								"	11	
<u>Windmill Pt</u>	120									12	
<u>Town Pt</u>	120 or 130									13	
<u>Cedar Pt</u>	130 or 140									14	
<u>Cherry Island</u>	140									15	
<u>Cherry Point</u>										16	
										17	
										18	
										19	
										20	
										21	
<u>Taylor's Island</u>		(location of one tide staff)								USG-B	22
<u>Milton Wharf</u>										23	
										24	
										25	
										26	
										27	

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

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. ~~4~~**H7027**

Records accompanying survey:

Boat sheets .1.; sounding vols. .7.; wire drag vols.;
bomb vols.; graphic recorder rolls .23.;
special reports, etc.
.....

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

Number of positions on sheet	.....	<i>1835</i>
Number of positions checked	.....	<i>125</i>
Number of positions revised	.....	<i>3</i>
Number of soundings recorded	.....	<i>14680</i>
Number of soundings revised (refers to depth only)	.....	<i>8</i>
Number of soundings erroneously spaced	.....	<i>10</i>
Number of signals erroneously plotted or transferred	.....	.....
Topographic details	Time	<i>3 hrs</i>
Junctions	Time	<i>5 hrs</i>
Verification of soundings from graphic record	Time	<i>5 hrs</i>

Verification by *R. K. DeLawder* Total time *112 hrs* Date *12-5-46*

Review by *J. F. Jordan* Time *13* Date *12-11-46*

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 7027

FIELD NO. 1313

Maryland, Chesapeake Bay, Little Choptank River
Surveyed in December 1944 to March 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
Surveyed by - G. R. Fish and A. L. Powell
Protracted by - J. Marchione
Soundings plotted by - A. Kaupa
Verified and inked by - R. K. DeLawder
Reviewed by - G. F. Jordan, December 11, 1946
Inspected by - H. W. Murray

1. Control and Topographic Detail

The origin of control signals and shoreline is adequately described in the Descriptive Report, paragraphs F and G.

2. Bottom Configuration and Depth Curves

The river bottom is generally smooth except in the narrow confines of irregular channels.

The depth curves could be completely drawn.

3. Sounding Line Crossings

Satisfactory.

4. Adjoining Surveys

A satisfactory junction is effected on the west with H-7064 (1945).

5. Comparison with Prior Surveys

H-200 (1848) scale 1:20,000; H-1346b (1871) scale 1:10,000
H-2681 (1908) scale 1:20,000

In the deeper portions of the tributaries, depths on the present survey are 1 to 2-ft. shoaler than depths on the prior surveys. Elsewhere, agreement of prior depths is good.

The feature (chart 1225) which could have been ruins of a pier on H-2681 at lat. 38° 30.9', long. 76° 13.25' is now non-existent according to a report by the coast pilot inspection party. (See photostat in D.R.).

The larger scale present survey is more detailed and entirely supersedes the prior surveys in the common area.

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

a. Hydrography

Charted hydrography originates with surveys discussed in the preceding paragraph, except for partial application of the present survey before verification and review.

b. Aids to Navigation

Aids to navigation on the present survey agree with charted aids and satisfactorily mark the features intended except for the spar buoy No. 4 at lat. 38° 32.02', long. 76° 12.33'. This buoy is charted 180 meters southward of the above position. The survey position appears to be more satisfactory. *shown in*

7. Condition of the Survey

a. The Descriptive Report and sounding records are complete in all detail except for the lost sounding record referred to in the D.R., paragraph I.

b. The smooth plotting was excellent.

8. Compliance with Instructions

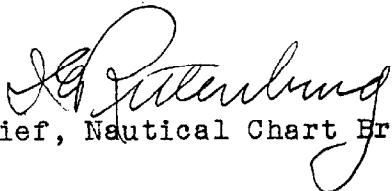
The survey adequately complies with project instructions.

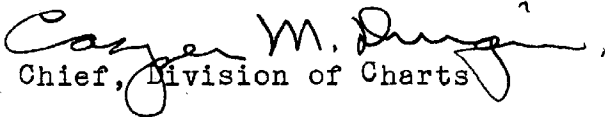
9. Additional Field Work

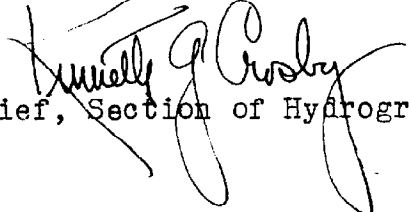
This is an excellent basic survey and no additional field work is recommended.

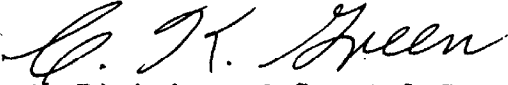
*shown in
summary page 21
551 L.S.S.*

Examined and approved:


Chief, Nautical Chart Branch


Chief, Division of Charts


Chief, Section of Hydrography


Chief, Division of Coastal Surveys

Hum

TIDE NOTE FOR HYDROGRAPHIC SHEET

21 January 1946

~~Division of Hydrography and Topography:~~

Division of Charts: Attention: H. W. MURRAY

Plane of reference approved in
7 volumes of sounding records for

HYDROGRAPHIC SHEET 7027

Locality Little Choptank River - Upper Part, Maryland

Chief of Party: T. B. Reed in 1944-1945

Plane of reference is mean low water, reading

2.8 ft. on tide staff at Cherry I. (opposite), Beckwith Creek

5.0 ft. below B. M. 1

2.0 ft. on tide staff at Milton Wharf, Church Creek

5.4 ft. below B. M. 3

3.0 ft. on tide staff at Taylors I., Slaughter Creek

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:

Tide reducers for "x" day (Feb. 26, 1945) erroneously obtained and checked
by field party.

Chief, Division of Tides and Currents.

