

U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIO

APR 10 1939

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Form 504
Rev. April 1935
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

-Topographie | Hydrographic

Sheet No. H-6362

State	Maryland

LOCALITY

Chesapeake Bay

Northeast River

1938

CHIEF OF PARTY

F. L. Gallen

U. S. GOVERNMENT PRINTING OFFICE

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

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HYDROGRAPHIC TITLE SHEET

APR 10 1939

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. 1003

REGISTER NO. H-6362

State Maryland
General locality Chesapeake Bay
Locality
Scale 1:10,000 Date of survey June , 19 38
Vessel Launch MIKAWE
Chief of Party F. L. Gallen
Surveyed byE. B. Brown
Protracted by F. L. Gallen
Soundings penciled by F. L. Gallen
Soundings in fathems feet
Plane of reference
Subdivision of wire dragged areas by
Inked by Ry Caretons
Verified by R.H. Carstens
Instructions dated March 31 , 19 38
Remarks:

DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet H-6362.

INSTRUCTIONS - March 31, 1938, Project HT-215.

LIMITS - Northeast River - Carpenter Pt. to Head of Navigation.

SURVEY METHODS

The projection, shoreline, triangulation stations, and air photographic signals were printed on the sheet in the Washington Office. The signals on the sheet that are shown in red circles are air photographic signals that were transferred from sheets H-6363 and H-6364. The signals shown in blue were located by sextant cuts, sextant fixes, sextant distances or a combination of these methods. Signals Fuz and Not were located by sextant angles on sheet H-6364 and transferred to this sheet. In some cases, where the air photographic signal was too far inshore for a good hydrographic signal, an additional signal was built and located by a sextant cut and taped distance from the air photographic signal. Signal Sot was located by placing it on the fence line extended, on which signal Wag is located, and a taped distance from signal Wag. A check cut was taken from signal Buk. The tide gage was spotted on the wharf at Lat. 39° 34.4', Long. 75° 58.1' and a check angle was taken; it is shown on the sheet in green ink. Signals A & B were spotted on the shoreline in the narrow upper reaches of the river and are shown on the sheet in green ink.

The following signals, which fall outside the high water line are temporary hydrographic signals:

Ebb (banner on end of fish trap), Mac (banner on 2x4), Jig (banner on 2x4 in thin marsh grass), Bru (banner on 2x4), Der (banner on 2x4) Urn (banner on 2x4), Sky (banner on 2x4 on east side of small island), Ala (banner on old post about 4x4); Tit, Run, For, Ace, Erg, and Boy are banners on 2x4s; Fix is a banner on offshore end of fish trap.

Signal Sex is a diving platform on the southwest corner of a small wharf at the boy scout camp. Signal Drum is a temporary 55 gallon oil drum on a stake (channel marker)

DISCREPANCIES

No discrepancies are known to exist.

CHANNELS

There is a dredged channel, with controlling depth of 9 feet, to the wharf of the Arundel Corporation, from which sand and gravel are shipped. The deep holes to the southward of the wharf were dredged for ob- Lat. 31° 5.5′ taining building sand. The channel is marked with unlighted spar and language num buoys on the east side. One quarter of a mile south of the Arundel Wharf a 1 foot shoal point extends from the westward. The channel rounding this point is marked with a temporary, privately maintained drum

channel marker and temporary bush stakes. The drum marks the west side of the channel. The channel in this vicinity is very crooked and hard to follow with a controlling depth of 9 feet.

The controlling depth is 5 feet in the natural channel leading to the wharves in the town of Northeast. These wharves are about $\frac{1}{2}$ mile above the point at which the river narrows. Above the wharves the river is very shoal with no channel.

There is a channel with a 2 ft. controlling depth to the shipyard in Northeast Heights. The yard has a marine railway with 20 ton capacity. Gasoline and supplies may be obtained there.

There is a channel with a 3 ft. controlling depth to the wharves in Hance Point Creek. At the easterly wharf gasoline and minor repairs are available.

DANGERS

The dredged channel is bounded on the west side by 3 to 6 ft. flats and on the east side by 6 to 8 ft. shoals. At Lat. 39° 35.16', Long. 75° 57.34', there is a detached 5 ft. shoal developed by feeling around, see position 35c. At Lat. 39° 34.85', Long. 75° 57.4' a 5 ft. shoal point extends from the northeastward. The end of the shoal point is located between positions 115 to 116 b day; this point was verified by feeling around and no sounding shoaler than 5 ft. was obtained. There are several 1 ft. detached shoals in vicinity of Lat. 39° 35.25', Long. 75° 57.4'; see positions 27 to 34 c day. Marsh grass grows on these 1 ft. shoals extending about 4 feet above the surface of the water.

Fish traps are set near the eastern side of the channel. Those that were in place when the survey was made were located. They are removed in the fall so that they will not be destroyed by ice, then replaced in the Spring in a new location. Therefore, only the general location should be shown on the chart.

On the flats to the southeastward of Carpenter Point and generally in all water of 4 feet or less depth, a submerged grass grows on the bottom. At lew tide the top of this grass floats on the surface of the water making it impassable. At high tide the top of the grass is submerged 1 to 1½ feet making passage possible for boats of shoaler draft. Weedless wheels are more satisfactory than the general type wheel, but they are not entirely satisfactory, in that the grass accumulates in front of the wheel, blocking passage. The grass becomes wound around the general type wheel to such an extent that the wheel cannot turn. It is then necessary to out the grass away with a knife. It is reported that this grass is killed by the cold in winter. The new growth reaches its maximum density in mid-summer.

ANCHORAGES

Vessels should encounter no difficulty anchoring in the area covered by this sheet. Many small yachts anchor in the cove to the northward of Northeast Heights and in the cove to the northeastward of Hance Point.

COMPARISON WITH PREVIOUS SURVEYS

Chart No. 1226, print No. 38-2/9 and sheet H-2432. - There has been a general shoaling of 1 to 3 ft. since surveys shown on sheet H-2432.

The 12 ft. dredged channel shown on chart 1226 has shoaled to a controlling depth of 9 ft. in the northern reaches. The northern section of the channel has shoaled to $\frac{1}{4}$ ft. $\frac{1}{4}$ mile south of the Arundel Wharf. The controlling depth around the eastern side of this shoal is 9 feet.

GEOGRAPHIC NAMES

All geographic names shown on the chart seem to be in general local use. Northeast Heights, a residential section on the southern side of the village of Northeast. Ford Run, a very small creek on the north side of Northeast Heights, named after a former owner of the adjoining property. Hance Point Creek, the creek that enters on the north side of Hance Point. There are a few residents that know the wide opening at the mouth of the creek as Hance Point Cove. However, the majority of residents call the whole water area Hance Point Creek.

Submitted by,

E. B. Brown

Jr. H. & G. Engr.

Approved and forwarded,

F. L. Gallen

H. & G. Engineer

Chief of Party

LIST OF STATISTICS

Day	Statute Miles	Soundings	Positions
a	16.0	763	125
ъ	17.0	702	136
c	10.8	514	98
đ	17•7	812	131
9	18.6	741	153
f	16.0	730	117
g	21.9	724	142
h	20.0	825	137
j	20.8	863	178
k	18.0	7 56	117
1	J/1•/1	771	137
m .	10.7	429	81
n	7.1	331	57
	209.0	8961	1609

Smooth sheet No. H-6362 was plotted under the immediate supervision of the Chief of Party. The sheet and records have been inspected and are approved.

F. L. Gallen

H. & G. Engineer Chief of Party

Field Records Section (Charts)

H6362 HYDROGRAPHIC SHEET NO.

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

Number of positions on sheet	1609
Number of positions checked	5.8
Number of positions revised	7.
Number of soundings recorded	8.9.6.!
Number of soundings revised	/3.
Number of soundings erroneously spaced	.23.
Number of signals erroneously plotted or transferred	0.

Jan 15, 1940

Verification by P.H. Caraters: Time: 60 hr.

7 hr.

Review by J.A.McCormick 1/17/40 Fime: 7 hr.

HYDROGRAPHIC SURVEY NO. H-6362

Smooth Sheet Yes
Boat Sheet Yes
Records; Sounding 6 Vols., Wire Drag Vols., Bomb Vols.
Descriptive Report Yes
Title Shoet Yes
List of Signals Yes (Vol.#1)
Landmarks for Charts (Form 567) Yes
Statistics Yes
Approved by Chief of Party Yes
Recoverable Station Cards (Form 524)
Special Chart for Lighthouse Service Yes (Circular Nov.30, 1933)
Hydrography: Total Days 13; Last Date Jane 22, 1938 1178
Remarks
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Remarks

Decisions

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FORM 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. June 1937

TIDE NOTE FOR HYDROGRAPHIC SHEET

May 4, 1939.

Division of Hydrography and Topography:

/ Division of Charts: Attention: Mr. E. P. Ellis

Plane of reference approved in 6 volumes of sounding records for

HYDROGRAPHIC SHEET 6362

Locality Northeast River, Chesapeake Bay, Md.

Chief of Party: F. L. Gallen in 1938.

Plane of reference is mean low water reading

0.8 ft. on tide staff at Charlestown

4.9 ft. below B. M. 1

Height of mean high water above plane of reference is 1.9 feet.

Condition of records satisfactory except as noted below:

Acting Chief, Division of Tides and Currents.

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•	GEOGRAPHIC NAMES Survey No. 7-6362	/	,	in C.	S. Mag.	St. local state	On oco Moo	Crite	A SOUNT OF THE SOU	2. Tari	<i>§</i>
	Name on Survey	A,	No. Or B.	C, C,	D Que	E E	or or F	G	₂ or ^O H	7. K	
	Northeast River										
	Ford Run										
	Northeast Heights										
	Carpenter Point										-
	Hance Point						-	-			
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MEMORANDUM IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT	No. H -6362
xbkt0x02dxtx0ex	x post of the control

received April 10, 1939
registered April 13, 1939
verified
reviewed
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

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RETURN TO

82 T. B. Reed

V MBR

Verification Report of H-6362 (1938) 1. The shoreline and most of the signals were printed on the sheet and originate with T-5651(1937) and T-5654 (1937). Other signals were located in the field by hydrographic methods as explained in the descriptive report z. Sounding line crossing were satisfactory 3. I unctions with contemporary surveys were satisfactory. 4. The condition of the sounding records was satisfactory 5. The protracting was satisfactory. The field plotting of soundings, was satisfactory. 7. The drawing of Light curve, the comparison of the shoreline with thet topographie skeets and the boat skeet, and other items were accomplished by the reviewer

Respectfully submitted

DIVISION OF CHARTS

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6362 (1938) FIELD NO. 1003.

Maryland, Chesapeake Bay, Northeast River. Surveyed in June, 1938, Scale 1:10,000. Instructions dated March 31, 1938 (MIKAWE).

Soundings:

Control:

Hand Lead.

3 Point fixes on shore signals.

Chief of Party - F. L. Gallen
Surveyed by - E. B. Brown
Protracted by - F. L. Gallen
Soundings plotted by - F. L. Gallen
Verified and inked by - R. H. Carstens
Reviewed by - J. A. McCormick
Inspected by - H. R. Edmonston

Shoreline and Signals.

Shoreline is from topographic maps T-5651, T-5654 and T-5673. Signal locations are discussed on page 1 of the descriptive report.

2. Depth Curves.

Satisfactory.

3. Sounding Line Crossings.

Satisfactory.

4. Junctions with Contemporary Surveys.

Junctions with H-6363 and H-6364 of 1938 on the southwest are satisfactory. A third survey on the southwest had not been received from the field at the date of this review.

- 5. Comparison with Prior Surveys.
 - a. H-173 (1846), 1:10,000; H-185 (1846), 1:10,000; H-2432 (1899), 1:20,000.

Dredging has been done in the buoyed channel in the interim between old and new surveys. Outside the channel, differences are most pronounced on the flats to the northeast of Carpenter Point where the old surveys show depths of 7 to 9 feet as compared with 2 to

6 feet on the present survey. Elsewhere, the shoaling has not been so extensive. Deep holes at the head of the river on the present survey were made by sand dredges. The present survey supersedes the old surveys in the common area.

6. Comparison with Chart 1226 (New Print of September 8, 1939).

a. Hydrography.

Hydrography charted in the area covered by the present survey is mostly from surveys discussed in the foregoing paragraphs. Controlling depth in the channel, some depths off the town of Northeast and the island in late 39°35.5', long. 75°57.2' are from the U. S. Engineers' surveys and other outside sources. The present survey supersedes all such information of dates prior to its own.

b. Aids to Navigation.

Survey positions of navigational aids north lat. 39° 34' differ from charted positions by as much as 300 meters. South of lat. 39°34' there is substantial agreement of positions. The hun buoy in lat. 39°35.1', long. 75°57.4' is the only aid in the area which might be shifted to some advantage. It was apparently placed to mark the turn in the dredged channel.

c. Controlling Depth.

The controlling depth in the channel is charted as 12 feet as of 1927. This was after dredging by the private concern which furnishes building and and gravel from this area. Apparently little effort has been made to maintain the channel as originally dredged, for north of late 39°35' the survey shows the channel shoaled to 4 feet. To the northeast, marked by a private drum beacon, is a deep passage left by dredging operations with a controlling depth of 10 feet. Between late 39°32' and late 39°35' the controlling depth was found to be 8 to 9 feet.

7. Condition of Survey.

Satisfactory.

8. Compliance with Instructions for the Project.

Satisfactory.

9. Additional Field Work Recommended.

None.

Examined and Approved:

B. Reed.

Chief, Section of Field Records.

Chief. Section of Field Work.

Chief, Division of H. & T.

Chief, Division of Charts.

applied & ell. 572. may 1940. 2420.

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