

6372

6372

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

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. H-6372
Hydrographic }

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES
MAY 7 1940

Acc. No.

State Maryland

LOCALITY

Chesapeake Bay

Upper Bay, Eastern Shore, Worton Cr.

1938

CHIEF OF PARTY

F. L. Gallen

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.

Field No. 1014

REGISTER NO. H-6372

H6372

State Maryland

General locality Chesapeake Bay

Locality Point to Fairlee Creek
Worton Creek (Upper Bay)

Scale 1:10,000 Date of survey Sept. and Oct., 19 38

Vessel Launch MIKAWA

Chief of Party F. L. Gallen

Surveyed by Edward B. Brown, Jr.

Protracted by George E. Varnadoe

Soundings penciled by George E. Varnadoe

Soundings in ~~fathoms~~ feet

Plane of reference M.L.W.

Subdivision of wire dragged areas by

Inked by H.F. Stegman

Verified by H.F. Stegman

Instructions dated March 31, 19 38

Remarks:

Chas. Bay

H-6372 Smooth Sheet

Prepared in Washington office December 14, 1939.

Projection on ruling machine by S. Kass.

Shoreline transferred in projector by R. E. Elkins from T-5657 (1937 photos, compilation complete), T-5681 (1937, compilation in progress in Baltimore at this date), T-5695 (1937, compilation in progress in Baltimore at this date), and T-5692 (1937, compilation complete).

Air photographic locations of hydrographic signals, and also the triangulation stations transferred in projector from the air photo surveys listed above. Transferred by R. E. Elkins, and checked by scaling and plotting from the air photo surveys by R. E. Elkins.

Hydrographic signals in overlap with H-6371 and H-6374 transferred to H-6372 by R. E. Elkins with second scale and checked with dividers.

All work sent to field in pencil except projection.

In Fairlee Creek below Lat. $39^{\circ}15'$, signals Chim. W. Gab. Ho., and Chim. S. E. Gab. Ho. are from plot made in this office on celluloid of an air photo survey 5428 (1935). These signals being plotted in Baltimore on T-5695 which supersedes T-5428. If locations differ the new positions will be forwarded to the field for replotting on H-6372. Positions will probably not differ appreciably.

Please make this memorandum part of descriptive report H-6372.

B. G. Jones.

DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet H-6372

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

A detailed report for this sheet was prepared by the hydrographer, Lieut.(j.g.) Edward B. Brown, Jr., but was lost in the fire on board the Launch MIKAWA along with the boat sheet and the original smooth sheet, which had been protracted by George E. Varnadoe.

The hydrography on this sheet was done by visual fix and depths measured with a hand lead line using an 8 pound lead. All of the area was sounded from a 25 foot skiff powered by two 9 H.P. outboard motors.

The attached memorandum by B. G. Jones explains the plotting of triangulation and air photographic (red circled) signals. The hydrographic (blue circled) signals were located by the hydrographic party by sextant cuts, fixes and sextometer distances or a combination of the above methods.

Due to copies of old surveys also being lost by fire, a comparison between this survey and the previous ones has not been made. It is understood, however, that during the course of this survey a thorough search was made for all important dangers found by previous surveys and shown on the charts for this area. It will be noted that the chart shows a controlling depth of 8 feet to Bucks Neck Landing in Worton Creek, where the controlling depth shown on this survey is $6\frac{1}{2}$ feet.

The crosslines are in good agreement and the shoals appear to be well developed with a least depth of 6 feet at Lat. $39^{\circ} 17.20'$, Long. $76^{\circ} 12.27'$ and 7 feet at Lat. $39^{\circ} 15.80'$, Long. $76^{\circ} 13.56'$.

Geographic names were taken from chart No. 1226.

Landmarks in this area have been submitted on a separate report.

DISCREPANCIES

Positions 185 and 186 b; 1,2,3,42 and 63c; 54,55 and 56d; 72 to 82d inclusive; 86 to 96d inclusive; 1 to 13g inclusive; 143 to 153j inclusive and 162j are See Boat Sheet positions in Fairlee and Worton Creeks and could not be plotted on the smooth sheet. The area where these positions and soundings were taken and omitted from the smooth sheet are of little value to navigation however, and if so desired the controlling depths can be taken from the sounding volumes. *Soundings between 185-187b and 1 to 4c (Vol. 2, pp. 24-426) near dock at head of Worton Ck plotted.*

Hydrographic sheet H-6371, which joins this sheet on the north has been sent to the office and the tracing of the junction destroyed by fire, therefore no limits of sheet H-6371 are shown on this sheet. It will be noted that the limits of sheet H-6375 does not overlap this sheet, however, a comparison along the limits of these sheets *All junctions are satisfactory.*

has been made and they are in good agreement with no indication of any appreciable change in depths.

The sounding volumes for this sheet were inadvertently forwarded to the Office before a list of statistics was prepared to accompany this report. *See Field Records statistics sheet this D.R.*

NOTE

Lieutenant (j.g.) Edward B. Brown, Jr., who executed the hydrography on this sheet, was transferred from this party before the smooth sheet was replotted and descriptive report rewritten.

Approved and forwarded:



F. L. Gallen
H. & G. Engineer
Chief of Party

Smooth sheet H-6372 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

RAC
HRC

TIDE NOTE FOR HYDROGRAPHIC SHEET

May 14, 1940

Division of Hydrography and Topography:

✓ Division of Charts: Attention: Mr. H. R. Edmonston

Plane of reference approved in
7 volumes of sounding records for

HYDROGRAPHIC SHEET 6372

Locality Worton Point to Fairlee Creek, Chesapeake Bay, Maryland

Chief of Party: F. L. Gallen in 1938
Plane of reference is mean low water reading
2.8 ft. on tide staff at Gales Wharf
37.5 ft. below B. M. 6

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

Condition of records satisfactory except as noted below:



Acting Chief, Division of Tides and Currents.

Remarks

Decisions

1		U.S.G.B
2		393761 "
3		"
4		392761 Not charted 1226
5		392761
6		"
7		"
8		"
9		"
10		"
11		392762 U.S.G.B.
12		
13		
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27		

GEOGRAPHIC NAMES

Survey No. **H6372**

Name on Survey												
	A	B	C	D	E	F	G	H	K			
<u>Chesapeake Bay</u>												1
<u>Plum Point</u>												2
<u>Worton Point</u>												3
<u>Gales Wharf</u>												4
<u>Tims Creek</u>												5
<u>Green Point Wharf</u>												6
<u>Mill Creek</u>												7
<u>Buck Neck Landing</u>												8
<u>Worton Creek</u>												9
<u>Handys Point</u>												10
<u>Fairlee Creek</u>												11
												12
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Names underlined in red approved
by L. Heck on 7/9/40

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H6372**

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

Statute miles of Sounding lines

226.9[✓]

Number of positions on sheet

1825.

Number of positions checked

...45. + approx. 160 replotted

Number of positions revised

...8. after changing location of signals.

Number of soundings recorded

10,063.

Number of soundings revised

...50.

Number of soundings erroneously spaced

...23.

Number of signals erroneously plotted or transferred

...12. { 10 hydro signals (see BR)
Signals West of Yon were revised in position subsequent to original smooth sheet plotting.

Date: *June 19, 1946*

Verification by *H.F. Stegman*

Time: 116 hours

Review by

Leo Kraut

Time: 13 hours

HYDROGRAPHIC SURVEY NO. H6372

Smooth Sheet Yes

Boat Sheet Destroyed by fire on "Mikawa"

Records; Sounding 7 Vols., Wire Drag Vols., Bomb Vols.

Descriptive Report Yes

Title Sheet Yes

List of Signals Yes

Landmarks for Charts (Form 567) Yes

Statistics No

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524) No

Special Chart for Lighthouse Service Yes
(Circular Nov.30, 1933)

Hydrography: Total Days 12; Last Date Oct. 21, 1938

Remarks _____

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT
 PHOTOSTAT OF

} No. H **H6372**
 } ~~No. J~~

{ received May 18, 1940
 { registered May 10, 1940
 { 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.

ROUTE		Initial	Attention called to
20			
22			
24			
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26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	T. B. Reed
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✓ JBA

VERIFICATION REPORT
ON H-6372 (1938)

CONDITION OF RECORDS:

The records are neat and in conformity with the requirements of the Hydrographic Manual. The boatsheet had been destroyed prior to verification of the survey, as well as the original Descriptive Report. The Descriptive Report as rewritten is very brief and does not discuss any additions or corrections to the shoreline as shown by the air photo surveys.

Shoreline originates with Air photo planimetric maps Nos. T-5657 (1937) T-5692 (1937) and T-5695 (1937). Topographic signals have been transferred from these surveys and additional control consists of hydrographic signals located by sextant cuts and sextometer distances.

Sounding line crossings are in very good agreement.

Satisfactory junctions have been made with the following:

H-6371 (1938) 1:10,000 North of Worton Pt. ✓
 H-6374 (1938) 1:10,000 South of Fairlee Cr. ✓
 H-6375 (1938) 1:20,000 Offshore of H-6372. ✓

Field drafting on H-6372 was neat and accurate. The ✓
 shoreline was revised by the verifier to conform to the ✓
 types of shoreline shown on the Air photo maps.

The memorandum by Mr. Babnes, attached to the Descriptive ✓
 Report of this survey mentions two signals: Chimney W gable, house,
 and Chimney S.E. gable house near $\phi-39^{\circ}15'$, $\lambda-76^{\circ}12'$. The revised
 positions of the two signals as located on T-5695 (1937) were
 plotted on H-6372 by the verifier. These signals are called
 West and Yon, respectively, on H-6372. West was shifted 10 meters
 WNW and Yon was moved 10 meters ESE.

As signals West and Yon were used in locating hydrographic ✓
 signals in Fairlee Creek it was necessary to replot several
 hydro signals and all of the hydrography in the creek east of
 $\lambda-76^{\circ}12'.2$ A maximum change of about 2 mm was noted.

The Descriptive Report states, under "Discrepancies", that numerous "See Boatsheet" positions could not be plotted. The soundings between pos 185 and 187b, and 1 to 4c were plotted by the verifier from notes in the records (Vol. 2, pp 24 and 26). These soundings are in the vicinity of the yacht club dock near the head of Worton Creek.

June 19, 1940

Respectfully submitted

Harold F. Stegman

DIVISION OF CHARTS

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6372 (1938) FIELD NO. 1014

Maryland, Chesapeake Bay, Worton Point to Fairlee Creek
Surveyed in September - October 1938, Scale 1:10,000
Instructions dated March 31, 1938

Soundings:
Hand Lead

Control:
Three point fixes on shore signals

Chief of Party - F. L. Gallen.
Surveyed by - E. B. Brown, Jr.
Protracted by - G. E. Varnadoe.
Soundings plotted by - G. E. Varnadoe.
Verified and inked by - H. F. Stegman.
Reviewed by - Leo S. Straw, June 24, 1940.
Inspected by - H. R. Edmonston.

1. Shoreline and Signals.

The shoreline is from topographic maps T-5657 (1937), T-5692 (1937) and T-5695 (1937). The signals are discussed on pages 1 and 2 of the descriptive report.

2. Depth Curves.

Satisfactory.

3. Sounding Line Crossings.

Satisfactory.

4. Junctions with Contemporary Surveys.

The junctions with H-6371 (1938) on the north at Worton Point, H-6375 (1938) on the west and H-6374 (1938) on the south are satisfactory.

5. Comparison with Prior Surveys.

a. H-166 (1845) scale 1:20,000, H-187 (1846) scale 1:10,000 and H-1072 (1870) scale 1:10,000.

Portions of these sparsely developed surveys combined cover the area of the present survey. Because of the age and character of the old work a close comparison with the present survey is unwarranted. These old surveys contain no information of current charting value and should be disregarded.

b. H-2399 (1898) scale 1:20,000.

This survey covers the entire area of the present survey. Over large flat areas the depths agree with the present survey within a foot or less except where affected by dredging operations subsequent to the old survey. However, radical natural changes have taken place in the shoreline and depths in the mouth of Fairlee Creek. Differences in the location of shoreline are noted about one-half mile below the entrances and continuing to the heads of Worton and Fairlee Creeks. In Fairlee Creek, Lat. $39^{\circ} 14.75'$, Long. $76^{\circ} 11.24'$, the shoreline is shown 40 to 60 meters south of that on the present survey.

The high water line blocks off the entrances to the small bodies of water in Lat. $39^{\circ} 16.7'$, Long. $76^{\circ} 11.45'$, and Lat. $39^{\circ} 15.4'$, Long. $76^{\circ} 13.17'$. The water probably flows in and out of these bodies of water at high tide.

The present survey adequately covers the area and except for the 10 and 11 foot soundings carried forward in approximate Lat. $39^{\circ} 16.15'$, Long. $76^{\circ} 13.2'$ should supersede H-2399 (1898).

6. Comparison with Chart No. 1226 (New Print dated Sept. 8, 1939)
Chart No. 549 (New Print dated Aug. 10, 1939)
Chart No. 77 (New Print dated Nov. 30, 1939).a. Hydrography.

Within the area of the present survey the chart is based on H-2399 (1898) discussed in paragraph 5b of this review and U. S. Engineers surveys covering areas adjacent to the Chesapeake and Delaware Canal.

b. Aids to Navigation.

The buoy designated as N"2", Lat. $39^{\circ} 17.35'$, Long. $76^{\circ} 12.8'$, on the present survey is about 170 meters north of buoy N"2F" on charts 549 and 1226.

7. Condition of Survey.

- a. The records conform to the requirements of the Hydrographic Manual.
- b. The original descriptive report was lost in the fire on the MIKAWA and although the accompanying brief report was not written by the hydrographer who made the survey it is considered satisfactory.

c. Because of the loss of the boat sheet it is not possible to plot from the notes in the sounding volumes with any degree of accuracy the soundings obtained in the branch of Fairlee Creek, Lat. 39° 14.75', Long. 76° 11.0', and the head of Worton Creek, Lat. 39° 16.2', Long. 76° 10.3'. No depths are shown on Chart 1226, but H-2399 (1898) shows from 1/2 to 3 feet of water in these localities.

8. Compliance with Instructions for the Project.

Satisfactory.

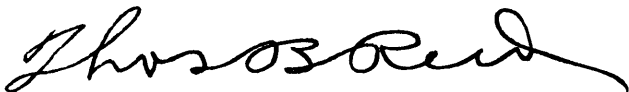
9. Additional Field Work Recommended.

No additional field work is required.

10. Superseded Old Surveys.

H-166	(1845)	in part
H-187	(1846)	in part
H-1072	(1870)	in part
H-2399	(1898)	in part

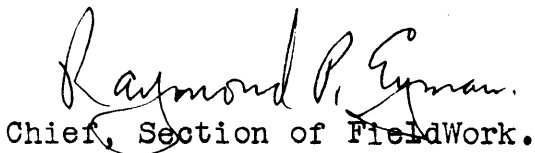
Examined and approved:



T.B. Reed,
Chief, Section of Field Records.



Chief, Division of Charts.



Chief, Section of Field Work.



Chief, Division of H. & T.

Applied to chart 572. Aug. 1940. H.S.B.

Applied to drawing of Chart 549 - Dec 30, 1940 - J.T. Walkey