

6373

U. S. COAST & GEODETIC SURVEY
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REPORT TO ACCOMPANY

HYDROGRAPHIC SHEET H-6373 (FIELD NO. 1015)

Chesapeake Bay, Maryland - HT-215

6373

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. 1015

H6373

REGISTER NO. H-6373

State Maryland

General locality Chesapeake Bay

Locality Legs Point to Pooles I.

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

Vessel Launch MIKAWA

Chief of Party F. L. Gallen

Surveyed by E. L. Jones

Protracted by C. H. Crawford

Soundings penciled by F. L. Gallen

Soundings in ~~fathoms~~ feet

Plane of reference M.L.W.

Subdivision of wire dragged areas by

Inked by Harold W. Murray

Verified by "

Instructions dated March 31, 19 38

Remarks:

REPORT TO ACCOMPANY

Hydrographic Sheet H-6373 (Field 1015)

INSTRUCTIONS - March 31, 1938, Project HT-215

A detailed report for this sheet was prepared by the hydrographer, Lieutenant (j.g.) E. L. Jones, but was lost in the fire on board the Launch MIKAWA.

The hydrography on this sheet was done by visual fix and depths measured with hand lead using an 8 pound lead. All of the area was sounded with a 20 ft. skiff powered by two 9 H.P. outboard motors.

The triangulation stations on this sheet were plotted from various schemes previously executed. The red circled signals and shoreline were transferred to this sheet from the air photo maps in the Washington Office. Blue circled signals were located by the hydrographic party by cuts and fixes or a combination of both.

This sheet was completely protracted in the field when damaged by water on the MIKAWA. The smooth sheet was forwarded to the Washington Office where a new projection was made and the positions transferred to it. A sufficient overlap and a good junction was obtained with the work done by this party on hydrographic sheets H-6367 and H-6375.

Due to the fact that copies of old surveys are not available, it is impossible to make a comparison between this survey and previous ones. 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.

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

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

H6373

STATISTICS

Date	Day	Statute Miles	Soundings	Positions
Oct. 4	a	1.1	55	13
5	b	10.6	395	78
7	c	10.1	379	81
11	d	32.1	1259	175
12	e	33.3	1257	168
13	f	19.4	725	114
14	g	25.8	940	134
17	h	6.6	229	47
18	j	24.2	1001	163
19	k	15.3	563	122
20	l	<u>13.8</u>	<u>430</u>	<u>111</u>
		192.3	7233	1206

Smooth sheet No. H-6373 was plotted under the immediate supervision of the Chief of Party. The sheet and records have been inspected and are approved.

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

LAC
H.R.

TIDE NOTE FOR HYDROGRAPHIC SHEET

April 1, 1940

Division of Hydrography and Topography:

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

Plane of reference approved in
5 volumes of sounding records for

HYDROGRAPHIC SHEET 6373

Locality Lego Point to Pooles Island, Chesapeake Bay

Chief of Party: F. L. Gallen in 1938
Plane of reference is mean low water reading
1.8 ft. on tide staff at Pond Pt. Bush River
7.8 ft. below B. M. 1
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 1.4 feet
at Pond Pt., 1.3 feet at Gales Wharf.

Condition of records satisfactory except as noted below:

Retty *Harrr*
Chief, Division of Tides and Currents.

Remarks

Decisions

	Remarks	Decisions
1		392762, U.S.G.B
2		393 763
3		392762, US G.B
4		393 762
5		"
6		"
7		393762
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M 234		

GEOGRAPHIC NAMES
 Survey No. **H6373**

Name on Survey											
	A.	B.	C.	D.	E.	F.	G.	H.	K.		
<u>Pooles Island</u>											1
<u>Rickett Point</u>											2
<u>Robbins Point</u>											3
<u>Ford Point</u>											4
<u>Boone Creek</u>											5
<u>Lego Point</u>											6
<u>Abbey Point</u>											7
<u>Chesapeake Bay</u>											8
											9
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											26
											27

Names underlined in red approved
 by L. Heck on 5/6/46

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H6373**

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

Number of positions on sheet	.1206
Number of positions checked	... 17.
Number of positions revised	... 9.
Number of soundings recorded	.7233
Number of soundings revised	... 20
Number of soundings erroneously spaced ✓
Number of signals erroneously plotted or transferred ✓

Date: **May 1, 1940**

Verification by **Harold W. Murray**

Time: **3 days 3 hrs.**

Review by ..

Time: **2 " 1/2 "**

HYDROGRAPHIC SURVEY NO. H6373

Smooth Sheet Yes

Boat Sheet Yes

Records; Sounding 5 Vols., Wire Drag Vols., Bomb Vols.

Descriptive Report Yes

Title Sheet Yes

List of Signals Yes

Landmarks for Charts (Form 567) Yes

Statistics Yes

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 11 ; Last Date Oct 20, 1938

Remarks _____

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

No. H **H6373**
~~No. H~~

received **March 6, 1940**
registered **March 29, 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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62			
63			
82			
83			
88			
90			

RETURN TO

82	T. B. Reed
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✓ *TBR*

DIVISION OF CHARTS

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6373 (1938) FIELD NO. 1015

Maryland, Chesapeake Bay, Lego Point to Pooles Island.

Surveyed in October 1938, Scale 1:10,000

Instructions dated March 31, 1938 (MIKAWA)

Soundings:

Hand Lead

Control:

Three point fixes on shore signals.

Chief of Party - F. L. Gallen.

Surveyed by - E. L. Jones.

Protracted by - C. H. Crawford.

Soundings plotted by - F. L. Gallen.

Verified and inked by - Harold W. Murray.

Reviewed by - Harold W. Murray, May 1, 1940.

Inspected by - H. R. Edmonston.

1. Shoreline and Signals.

a. The shoreline originates with topographic maps: T-5681 and T-5687 of 1937. These sheets are not registered as of the date of this review.

b. Topographic signal MAC in lat. $39^{\circ}21'$, long. $76^{\circ}14'$ originates with topographic map T-5678 (1937). Hydrographic signals originate with sextant cuts or fixes recorded in the sounding volumes.

2. Sounding Line Crossings.

General agreement of sounding line crossings is satisfactory.

3. Depth Curves.

The usual depth curves may be satisfactorily drawn.

4. Junctions with Contemporary Surveys.

a. The junction on the north with H-6367 (1938) is very good.

b. The junction on the east with H-6375 (1938) will be considered in the review of that survey.

c. The southwestern limits of the present survey represent the limit of the present project.

5. Comparison with Prior Surveys.

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

Portions of these two surveys taken together cover the entire area of the present survey. The sounding detail is quite sparse. Close agreement of depths is noted throughout the common area except in a few spots of small extent where differences of 2 to 8 feet exist. Of special interest are the following:

- (1) An uncharted 6 foot sounding (line 13-14g) in lat. $39^{\circ}18.2'$, long. $76^{\circ}15.6'$ on H-187 (1846) falls close to depths of 14 feet on the present survey and was not investigated. The 6 is the shoalest of several shoal soundings obtained on line. An extensive lead line development on a subsequent survey, H-2399 (1898-99) showed a least depth of 9 feet and indicated that the shoal area had been worn down. The 6 is, therefore, not being carried forward.
- (2) An uncharted 6 foot sounding (line 13 to 14c) on H-187 (1846) in lat. $39^{\circ}19.0'$, long. $76^{\circ}15.4'$ falls close to depths of 12 feet on the present survey. The 6 is a single sounding on line obtained between soundings of 12 feet. This 6 was investigated on the subsequent survey H-2399 (1898-99) and was not verified. The 6 was probably in error by one fathom and has not been carried forward.

The present survey supersedes the 1845-46 survey.

- b. H-2399 (1898-99) scale 1:20,000.

A portion of this survey covers the entire area of the present survey. General agreement of depths is good. Differences of 1 to 8 feet, however, are noted in a few spots of small extent and are attributed to natural changes in some cases and to the closer present survey development in others. Several shoal soundings (not charted) varying 2 to 5 feet shoaler than the present survey depths were carried forward. These shoal soundings are apparently small lumps and were not investigated on the present survey.

A 6 foot sounding (charted) on the old survey in

lat. $39^{\circ}17.6'$, long. $76^{\circ}16.3'$ falls on a detached shoal spot with a least depth of 11 feet in general depths of 13 to 14 feet on the present survey. The 6 is a single sounding obtained on line and may be 1 fathom too shoal. The hydrographer of the present survey searched this area within a radius of 50 meters and found no depths shoaler than 11 feet. The 6 foot sounding is considered disproved.

The present survey with the indicated additions supersedes H-2399 (1898-99).

6. Comparison with Chart 1226 (New Print dated Sept. 8, 1939).

a. Hydrography.

Hydrography shown on the chart originates with surveys discussed in previous paragraphs of this review.

The 5 foot sounding unaccompanied by a 6 foot depth curve charted in lat. $39^{\circ}19.7'$, long. $76^{\circ}14.9'$, is incorrect. The correct sounding is 15 feet. The figure 1 in the 15 was inadvertently removed when the $76^{\circ}15'$ meridian was discontinued on the chart in 1929.

b. Aids to Navigation.

Aids to navigation located on the present survey agree with the charted positions except black buoy S"1" in lat. $39^{\circ}17.2'$, long. $76^{\circ}17.0'$, which is shown about 100 meters north of the charted position and marks the southern tip of a shoal area. Except as just noted in the case of the S"1" buoy, the charted positions satisfactorily mark the features intended.

7. Condition of Survey.

- a. The sounding records are neat and legible and conform to the requirements of the Hydrographic Manual.
- b. The descriptive report accompanying this survey is necessarily brief because the original detailed report prepared by the hydrographer was lost in a fire on board the MIKAWA.
- c. Field protracting and plotting were excellent and conform to the requirements of the Hydrographic Manual.

8. Compliance with Instructions for the Project.

The plan, character and extent of the survey satisfy the instructions for the project. (See par. 9, below).

9. Additional Field Work Recommended.

No additional field work is required; however, when field work is again accomplished in this area, consideration should be given to the verification of the more important shoal spots carried forward from previous surveys.

10. Superseded Prior Surveys.

H-166 (1845) in part
H-187 (1846) in part
H-2399 (1898-99) in part

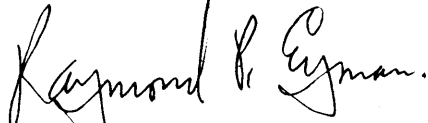
Examined and approved:



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 - J.W.S.

Applied to drawing of Chart 549 - Dec 27, 1940 - J.W. Walker