

5432

U. S. COAST & GEODETIC SURVEY
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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: MARYLAND

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. 3 5432
Hydrographic }

LOCALITY

CHESAPEAKE BAY

West and Rhode Rivers- Western

Shore Chesapeake Bay, Franklin

Point to Saunders Point.

Project No. HT-146

1933

CHIEF OF PARTY

John A. Bond, H. and S. Engr.

5432

DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet No. 3

CHESAPEAKE BAY

West and Rhode Rivers - Western shore
Chesapeake Bay, Franklin Point to
Saunders Point.

AUTHORITY

This work was executed in accordance with Director's Instructions dated May 10, 1933, to the Commanding Officer, Launch MIKAWA, Project No. HT-146.

SURVEY METHODS

Standard Coast Survey methods of hand-lead soundings and sextant fixes were generally used. In narrow creeks and at the end of lines where sextant fixes were impracticable, the position was plotted on the boat sheet in relation to nearby topographic detail. The leadline was No. 8, Samson, mahogany tiller rope, graduated in fathoms and feet. The boats used were a 32 ft. hydrographic launch and a 22 ft. skiff with outboard motor. The Chesapeake Bay portion of the sheet was surveyed in conjunction with sheet No. 4 to the south, sounding lines being continuous from one sheet to the other, which accounts for the large intervals of time between successive positions at the end of lines on the southern edge of the sheet.

DISCREPANCIES

No discrepancies are known to exist. Errors in the sounding records, principally in recording and reading of angles, have been adjusted during the smooth plotting and noted, in red, in the sounding records.

DANGERS

No special dangers to navigation are known to exist.

CHANNELS

The channel in Rhode River is well beacons, and that into West River, well buoyed.

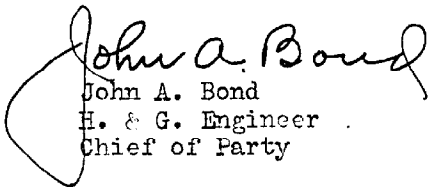
COMPARISON WITH PREVIOUS SURVEYS

The depth curves check well in general with previous surveys as taken from the chart. The depth over the shoal at Lat. 38° 51.2'; Long. 76° 29.0' has increased from 1 ft. to 4 ft. ✓

Respectfully Submitted:

D. E. Sturmer
Deck Officer, C. & G. S.

Approved & Forwarded:

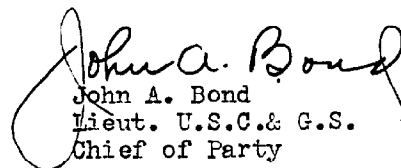

John A. Bond
H. & G. Engineer
Chief of Party

*Applied to, new chart 550
Sept. 20, 1934 JML*

STATISTICS FOR SHEET NO. 3

<u>Date</u>	<u>Day Letter</u>	<u>Volume</u>	<u>Positions</u>	<u>Soundings</u>	<u>Statute Miles</u>
Sept. 11	a	I	171	618	10.6
12	b	I	168	692	12.3
13	c	I & II	207	790	10.2
15	d	II	43	211	5.1
23	e	II	89	452	6.5
26	f	III	56	262	10.0
27	g	III	149	702	27.5
28	h	III & IV	138	638	19.6
Oct. 4	j	IV	8	26	0.5
6	k	IV	63	309	10.3
7	l	IV	91	501	10.3
9	m	IV	62	310	10.3
11	n	IV & V	92	511	16.6
12	p	V	59	327	9.8
16	q	V	23	142	4.6
20	r	V	23	131	4.5
21	s	V	69	228	1.7
23	t	V & VI	118	451	7.7
24	u	VI	94	375	4.5
26	v	VI	87	486	15.0
27	w	VI & VII	164	851	21.1
28	x	VII	73	386	9.7
30	y	VII	20	114	3.5
Nov. 2	z	VII	58	299	7.5
3	a'	VII & VIII	200	1105	25.1
10	b'	VIII	119	675	16.3
13	c'	VIII & IX	289	1025	19.7
14	d'	IX	158	582	13.2
15	e'	IX	37	113	1.7
17	f'	IX	14	50	2.0
24	g'	IX	35	81	2.0
TOTALS			2977	13506	319.4

Smooth Sheet No. 3 and accompanying sounding volumes
have been examined by the Chief of Party and are approved.


John A. Bond
Lieut. U.S.C. & G.S.
Chief of Party

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

*Copied from original
Revised title
sheet Apr 30, 1934*

REG. NO. 5432

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. 5

REGISTER NO. 5432

State Maryland

General locality Chesapeake Bay

Locality Vicinity of West and Rhode Rivers

Scale 1:10,000 Date of survey Sept.-Nov., 1933

Vessel Launch Mikawa

Chief of Party John A. Bond

Surveyed by D. E. Sturmer

Protracted by G. V. Long

Soundings penciled by G. V. Long

Soundings in ~~fathoms~~ feet

Plane of reference M.L.W.

Subdivision of wire dragged areas by ---

Inked by W. L. Muller

Verified by W. H. Bausford

Instructions dated May 10, 1933

Remarks: _____

RAC

June 22, 1934

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in
9 volumes of sounding records for

HYDROGRAPHIC SHEET 5432

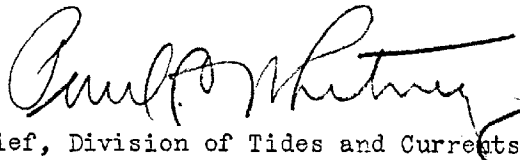
Locality Vicinity of West & Rhode Rivers, Chesapeake Bay, Md.

Chief of Party: J. A. Bond in 1933
Plane of reference is mean low water, reading
3.4 ft. on tide staff at Rhode River
5.7 ft. below B. M. 1
2.2 ft. on tide staff at Galesville
7.0 ft. below B.M. 1
2.4 ft. on tide staff at Thomas Pt. Shoal L. H.
3.9 ft. below B.M. 1

Where records were not available from the above gages, tide reducers were checked and corrected in office by records from standard automatic gage at Annapolis, Md., making allowance for time of tide at place of sounding.

Height of mean high water above plane of reference is 0.9 ft.

Condition of records satisfactory except as noted below:


Chief, Division of Tides and Currents

Partial Report on

H. 5432

1./ The protracting on this sheet was compared visually with the boat sheet plotting and a few of the positions were checked. Of the twenty eight positions checked only one was found to be erroneously plotted. ✓

2./ The soundings were neatly penciled and legible but somewhat too large. The inked soundings should be slightly smaller than they appear in pencil. ✓

3./ It was noted that a considerable number of changes had been made in signals used for the three joint files - in the sounding volumes - by the plotter of the smooth sheet. (These changes appear in red pencil.) Some of these changes were investigated ✓

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and checked with the boat sheet,
and in all cases checked the
changes were found to be logical,
and to agree with the boat sheet
original plotting - indicating
that the errors were due to im-
proper recording.

Respectfully Submitted.
Warren H Bamford

August 15, 1933.

Verifiers Report.

Hydrographic Sheet No. 5432.

Supplementing the partial report made by Warren H. Bamford the writer submits the following.

1. The instructions from Capt. Ellis were to plot the $6\frac{1}{2}$, $12\frac{1}{2}$, $18\frac{1}{2}$ foot soundings where such soundings would modify the respective depth curves. The occurrence of these $\frac{1}{2}$ foot soundings has been very consistent with the preceding or following soundings and in many cases has resulted in a marked change in the depth curves. However as no arbitrary rule has been laid down and the acceptance or rejection of these soundings has been left to the verifier, no consistent rule could be followed and the writer has attempted to accept or reject the $\frac{1}{2}$ foot soundings on a basis of what appears to him to be the natural course that the respective depth curves would follow.

2. Attention of the reviewer is called to Pos. 651 and the note in the records at this position.

3. ~~Attention is also called to a wreck, Lat. 38-50.9, Long. 76-39.6. This wreck is shown in the records to be covered by 4 feet of water while on the Topographic sheet it is shown by the symbol for a wreck with the hull above water. Wreck is 6 ft to Starboard of position, so probably is visible. W-R-M~~

4. The fish traps and fishing stakes were not adequately located.

5. The pencilling was accurately done and the records conform to the requirements of the Hydrographic Manual.

Respectfully submitted,

W. R. Mullen

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. 5432

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

Number of positions on sheet	<u>WAB</u> 29.77
Number of positions checked	28
Number of positions revised	1
Number of soundings recorded	13.506
Number of soundings revised	14 (Approx)
Number of signals erroneously plotted or transferred	NONE

Date: June 28-1934

Cartographer: W. Waanen & H. Bamford

Verification of protracting
~~Verification of taking of rocks & shoals~~ by W. H. Bamford Time: 1 DAY - 3 $\frac{1}{4}$ hrs

Verification of inking by W. L. Muller Time: 102 hrs.

Review by R. J. Christman Time: 15 $\frac{1}{2}$ hrs.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5432 (1933)

Vicinity of West and Rhode Rivers, Chesapeake Bay, Md.
Surveyed - Sept.-Nov. 1933.

Instructions dated May 10, 1933 (MIKAWA, Proj. HT 146)

Hand Lead Sounding - 3 Point Control on Shore Signals.

Chief of Party - John A. Bond.

Surveyed by - D. E. Sturmer.

Protracted and soundings plotted by - G. V. Long.

Verified and inked by - W. H. Bamford and W. L. Mullen.

1. Condition of Records.

The records conform to the requirements of the Hydrographic Manual with the exception that the character of the offshore signals Zar, Tot, Ash and Yal were not given (see recommendations under additional work).

2. Compliance with Instructions for the Project.

The survey is in accordance with the instructions except that no cross lines of soundings were run.

3. Sounding Line Crossings.

No cross lines were run but comparison of soundings on adjacent lines show good agreement.

4. Depth Curves.

Depth curves can be drawn satisfactorily.

5. Junctions with Contemporary Surveys.

a. H. 5197 (1932).

The junction with this survey is satisfactory. The depths in the overlapping area are in very good agreement.

b. H. 5374 (1933).

The junction is adequate and depths are in good agreement.

c. H. 5501 (1933).

This is a new survey joining H. 5432 (1933) to the eastward. The sheet has not yet been verified and inked.

6. Comparison with Prior Surveys.

a. H. 2629 (1903).

The new survey overlaps the 1903 survey from the shore out to

H. 5432 (1933) - 2.

about the 20 foot depth. The agreement in depth is very good, the average difference being but a fraction of a foot. Slight changes of details in the curves are due to the closer development on the new survey. The 1933 survey should supersede this survey in the area common to the two surveys for future charting purposes.

b. H. 2667 (1903).

The two surveys are in good general agreement. The larger scale and closer development of the 1933 survey shows a shoaling of the upper reaches (1 to $1\frac{1}{2}$ feet) and a very slight shoaling or flattening out of the deepest parts of the main river beds. The following are of special interest.

1. A 5 foot spit, marked by a beacon, makes out from the west shore of the Rhode River (lat. $38^{\circ}52'.2$, long. $76^{\circ}31'$) where the earlier survey indicated all deep water.

2. A $1\frac{1}{2}$ foot shell and sand shoal on H. 2667 (1903) in lat. $38^{\circ}51'.2$, long. $76^{\circ}29'$ was not found during the 1933 survey. The general depth in the vicinity is 4 to 5 feet. The split lines for the examination of the area were run at a time of minus tide and moderate sea and its continued presence would have been evidenced by broken water. The new survey also shows a deepening of 1 to 2 feet in the soundings adjacent to the $1\frac{1}{2}$. The $1\frac{1}{2}$ fathom should be discontinued in future charting.

c. H. 188 (1846).

This survey is in general agreement with the later surveys except on the shoal area off Curtis Point where a deepening is indicated on the 1933 survey. Details of shoreline also have changed and several shoal spots southward of Curtis Point have entirely disappeared. The survey is sketchy in character and considering the lapse of time should be disregarded in future charting.

7. Comparison with Chart No. 1225.

a. No authority was found for the islet close inshore north of Curtis Point. It is probably a printing spot that has been carried since the print of July 1920. It should be expunged from the chart.

b. The aids to navigation on the chart are in substantial agreement with the survey, except that an additional red buoy (N2) was established in West River after the completion of the survey and the red buoy N2 shown on the sheet was renumbered N4. (LHNM 27 of 1934.).

8. Field Plotting.

Protracting and plotting of soundings were satisfactory except that penciled figures were a little too large. This was corrected in inking.

9. Additional Field Work Recommended.

No additional field work is recommended but the field party should be consulted regarding the nature of the following offshore topographic signals:

- a. 0 Zar (Lat. $38^{\circ}51'.9$, long. $76^{\circ}31'.5$).
- b. 0 Tot (Lat. $38^{\circ}52'$, long. $76^{\circ}32'.2$).
- c. 0 Ash (Lat. $38^{\circ}50'.9$, long. $76^{\circ}32'.7$).
- d. 0 Yal (Lat. $38^{\circ}49'.5$, long. $76^{\circ}33'$).

*see attached
letter. R.T.C.*

While these are all close inshore and probably of a temporary nature the information should be obtained as a matter of record.

10. Superseding Old Surveys.

Within the area covered, the present survey supersedes the following surveys for charting purposes.

- H. 2629 (1903) in part.
- H. 2667 (1903) in part.
- H. 188 (1846) in part.

11. Reviewed by - R. J. Christman - Aug. 1934.

Inspection Note.

This sheet is a good example of complete inshore development from both a hydrographic and a cartographic point of view.

Inspected by - A. L. Shalowitz.

Examined and approved:

K.T. Adams

K. T. Adams,
Chief, Section of Field Records.

James S. Borden
Chief, Section of Field Work.

L.O. Pollett
Chief, Division of Charts.

G. H. Hude
Chief, Division of H. & T.

POST-OFFICE ADDRESS: Box 56, Rondout Station, Kingston, N. Y.

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

1122
RTA 80

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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

September 7, 1934

1934 SEP - 10 AM 11:07

To: The Director,
U. S. Coast and Geodetic Survey,
Washington, D. C.

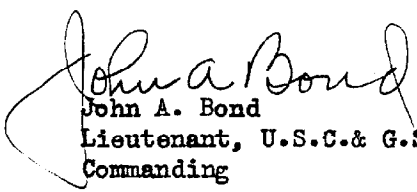
From: Commanding Officer,
U.S.C.& G.S. Launch MIKAWA

Subject: Topographic signals on H 5432, West River, Maryland.

In reply to your letter of September 5, 1934 (80-DRM) relative to the nature of certain topographic signals shown on hydrographic sheet 5432, I would advise you that I have questioned the various members of my party who were engaged on the topography and hydrography and obtained the following information:

Zar Duck blind
Tot duck blind
Ash the concensus of opinion is that this is a pile.
Yal a topographic signal consisting of a few sticks stuck in the mud-flat. Very probably gone now.

I would also advise you that the 2 foot channel entering the small bay north of Shadyside is marked by stakes placed by local fishermen.


John A. Bond
Lieutenant, U.S.C. & G.S.
Commanding

80-DRM

September 5, 1934.

To: Lieut. John A. Bond,
U. S. Coast and Geodetic Survey,
Launch MIKANE,
Rondout Station,
Kingston, New York.

From: The Director,
U. S. Coast and Geodetic Survey.

Subject: Topographic signals on H. 5432, West River, Maryland.

Hydrographic survey H. 5432 has recently been reviewed in the office and there is some doubt about the nature of four of the objects shown as topographic signals which are out in the water well away from the shoreline. These signals have been indicated by yellow circles on a photostat section of the sheet, which is being forwarded for your information.

If you or other members of your party can remember, please advise this office as to the nature of the objects and whether they are permanent or temporary and whether they represent an obstruction to small boat navigation in the area involved.

Director.