

4928

Diag. Cht. No. 1322-3

4928

Form 504	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
....., Director	
State: Virginia	G. & O. SURVEY L. & A. NOV 14 1929 Acc. No.
DESCRIPTIVE REPORT	
Topographic } Hydrographic }	Sheet No. ⁶ 4928
LOCALITY	
Chesapeake Bay Entrance	
Smith Island Shoal	
1929	
CHIEF OF PARTY	
J. Senior	

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET NO. 6.

SMITH ISLAND SHOAL, CHESAPEAKE BAY ENTRANCE

H. 4928

SCALE 1:20,000

1. Instructions:

This revisional survey was made in accordance with Instructions from the Director to the Commanding Officer of the NATOMA, dated August 30, 1929. Reference should also be made to Chart Letter No. 470,- 1929.

2. Survey Methods:

Three triangulation stations furnished the control for this hydrographic survey. No other signals were necessary. The work was done in the field on a scale of 1:40,000. All soundings were taken from the NATOMA, using the standard bronze-center lead-line. Sounding lines were run in a north and south direction and spaced about 300 meters apart. In the immediate area under investigation, sounding lines were spaced not more than 150 meters apart, with additional cross lines for further development. To complete the development, about one half hour of drift lead soundings were made over the critical area.

3. Discrepancies:

There are no discrepancies in depths, or positions, or locations of signals on this sheet. All work is of requisite accuracy.

4. Comparison with previous surveys:

An examination of the results of this survey, indicates that shoaler water than charted does exist west of the whistle buoy, approximately in the area reported by the Master of the Italian Steamship NUMIDIA. However, our development has failed to reveal a lesser depth than 25 feet, whereas $22\frac{1}{2}$ feet was reported. The correct position of the whistle buoy is about $\frac{1}{2}$ mile northeast from charted position.

5. General:

The following additional data accompany this report.

Hydrographic title sheet.
Tidal notes.

Statistical sheet.
Landmarks for charts.

This sheet and records have been reviewed by the undersigned, and are approved as forwarded.


Jack Senior,
H & G ENGR. E. & G.S.,
Commanding, M.V. NATOMA

STATISTICS FOR HYDROGRAPHIC SHEET NO. 6.

SMITH ISLAND SHOAL, CHESAPEAKE BAY ENTRANCE

<u>Date:</u>	<u>Letter:</u>	<u>Vol:</u>	<u>Miles:</u>	<u>Pos:</u>	<u>Sigs:</u>	<u>Vessel:</u>
1929						
10/21	A	1	15	63	313	Natoma
10/24	B	1	<u>39</u>	<u>251</u>	<u>859</u>	Natoma
	Totals:		54	334	1172	

TIDAL NOTE FOR HYDROGRAPHIC SHEET NO. 6

SMITH ISLAND SHOAL.

A portable automatic tide guage on the old quarantine wharf on Fisherman Island furnished the values for the hourly heights.

The datum for the 1929 tide staff was determined by direct levels to six tidal bench marks, whose values are based on a longer series than was possible during the period of the present survey.

The reading on staff (1929) for the plane of reference (M.L.W.) was 2.2. feet.

November 19, 1929

Division of Hydrography and Topography:

Division of Charts:

Field reductions are approved in
volumes of sounding records for

HYDROGRAPHIC SHEET 4228

Locality: Chesapeake Bay (Smith Island Shoal)

Chief of Party: Jack Senior, in 1929
Plane of reference is: mean low water, reading
on tide staff at Fisherman Island
and below P.M.

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

Paul C. Whitney

Chief, Division of Tides and Currents.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

March 19, 1930.

AND REFER TO No. 11-DEM

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4928

Smith Island Shoal, Chesapeake Bay

Surveyed in 1929

Instructions dated August 30, 1929 (NATOMA)

Chief of Party, J. Senior.

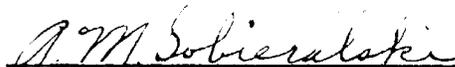
Surveyed by J. S.

Protracted and soundings plotted by F. A. Riddel.

Verified and inked by J. H. Church.

1. The purpose of this survey was to investigate a shoal reported by the S. S. NUMIDIA about 1 1/2 miles northwest of the Whistle Buoy (Chart Division letter 470, 1929).
2. The work conforms to the specific instructions with the exception that the work is plotted on a 1:20,000 scale instead of a 1:40,000 scale as called for (paragraph 4, specific instructions). This is not objectionable, but a 1:40,000 scale, which it appears would have been adequate, would have enabled a direct comparison with the earlier surveys.
3. The shoalest depth found in the vicinity of the reported grounding is 25 feet. The 22 foot depth reported by the NUMIDIA has already been removed from the charts and therefore no further consideration need be given this phase of the work.
4. No additional work appears necessary within the limits of this survey.
5. Reviewed by A. L. Shalowitz, January, 1930.

Approved:


Chief, Section of Field Records (Charts)


Chief, Section of Field Work (H. & T.)

Section of Field Records

Report on sheet no. 4228

Surveyed in 1929 Instructions dated Aug 1929

Chief of Party - Jack Senior

Surveyed by - Jack Senior

Projected by - J.A. Liddel

Soundings plotted by - J.A. Liddel

Verified and inked by - J.W. Church

1. The records conform to the requirements of the General Instructions.
2. The plan and character of the development fulfil the requirements of the General Instructions.
3. The usual depth curves can be completely drawn within the limits of the sheet.
4. The field plotting was completed to the extent prescribed in the General Instructions.
5. The office draftsman did not have to do over any part of the drafting done by the field party.
6. There are no contemporary adjacent sheets.

7. Remarks:-

The development on the boat sheet as plotted is on a scale of 1:40000 whereas the smooth sheet is plotted on a scale of 1:20000.

Dec. 31, 1929

Respectfully Submitted
J.W. Church

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

C. & G. SURVEY
L. & A.
NOV 14 1929
Acc. No.

REG. NO. 4928

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. 6

REGISTER NO. 4928

State Virginia

General locality Chesapeake Bay entrance

Locality Smith Island shoal

Scale 1:20,000
~~1:40,000~~ Date of survey October, 1929

Vessel Motor Vessel NATOMA

Chief of Party Jack Senior, H & G Engr.,

Surveyed by " " " "

Protracted by F.A. Riddell, D.O.

Soundings penciled by " "

Soundings in ~~fathoms~~ feet

Plane of reference M.L.W.

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated August 30th, 1929

Remarks:

Revisional survey; Chart letter 470, - 1929

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO NO. 11-DEM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

March 19, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4923

Smith Island Shoal, Chesapeake Bay

Surveyed in 1929

Instructions dated August 30, 1929 (NACOMA)

Chief of Party, J. Senior.

Surveyed by J. S.

Protracted and soundings plotted by F. A. Riddell.

Verified and inked by J. E. Church.

1. The purpose of this survey was to investigate a shoal reported by the S. S. NUMIDIA about 1 1/2 miles northwest of the Whistle Buoy (Chart Division letter 470, 1929).
2. The work conforms to the specific instructions with the exception that the work is plotted on a 1:20,000 scale instead of a 1:40,000 scale as called for (paragraph 4, specific instructions). This is not objectionable, but a 1:40,000 scale, which it appears would have been adequate, would have enabled a direct comparison with the earlier surveys.
3. The shallowest depth found in the vicinity of the reported grounding is 25 feet. The 22 foot depth reported by the NUMIDIA has already been removed from the charts and therefore no further consideration need be given this phase of the work.
4. No additional work appears necessary within the limits of this survey.
5. Reviewed by A. L. Shalowitz, January, 1930.

Approved:

Chief, Section of Field Records (Charts)

Chief, Section of Field Work (H. & T.)