

5358

Diag. Cht. No. 1220-1.

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. 8 Office No. H-5358

LOCALITY

State Virginia

General locality Off Virginia Coast

Locality Winter Quarter Shoal and
Vicinity

194 33

CHIEF OF PARTY

H.A.Seran, R.L.Schoppe, & H.Odessey

LIBRARY & ARCHIVES

DATE February 24, 1934

5358

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5358

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. 8

REGISTER NO. 5358

State Virginia

Small

General locality Off Virginia Coast

Large

Locality Winter Quarter Shoal and Vicinity

Scale 1:20,000 Date of survey Oct. 11, - Oct. 16, 1933 ~~1932~~

Vessel S. LYDONIA and S. GILBERT

Chief of Party H. A. Seran, Ray L. Schoppe, Herman Odessey

Surveyed by Field Officers

Protracted by F. L. Kish

Soundings penciled by F. L. Kish

Soundings in ~~fathoms~~ feet

Plane of reference M. L. W.

Subdivision of wire dragged areas by

Inked by [Signature]

Verified by [Signature]

Instructions dated April 27, 1933 ~~1932~~

Remarks: This survey includes Winter Quarter Shoal

DESCRIPTIVE REPORT

Hydrographic Sheet No. 8
Maryland Coast

Instructions:

The instructions directing the work on this sheet are contained in the Director's instructions to the Commanding Officers of the Ships OCEANOGRAPHER, LYDONIA, and GILBERT, dated April 27, 1933, and covering projects HT 142, HT 143, and HT 144.

Limits:

This sheet covers an area off the Maryland Coast to the ESE. of Pope Island Life Saving Station. The approximate limits of this area are from latitude $37^{\circ} 58'$ to latitude $38^{\circ} 01'$; and from longitude $75^{\circ} 06.5'$ to longitude $75^{\circ} 14'$.

This sheet connects with field sheet No. 7 on the north; with field sheet No. 5 on the east; with field sheet No. 6 on the south; and with field sheet No. 11 on the west.

(H 5357)

(H 5353)

(H 5356)

(H. 5347)

Survey Methods:

The survey of this area was largely controlled by sextant angles on objects located by triangulation. Several buoys, which were also used to control hydrography, were located from the S. GILBERT by sextant angles. The GILBERT was tied to these buoys while obtaining the positions of same. These positions were plotted on an aluminum sheet and the latitude and longitude of each was then scaled and transferred to the smooth sheet.

All soundings were taken with the hand lead, standard methods being employed.

Discrepancies:

The crossings of sounding lines on this sheet were exceptionally good.

Dangers:

The position of Winter Quarter Shoal has changed very little; however, a least depth of ten feet was found, which is two feet less than the shoalest sounding appearing on Chart 1220.

There is an 18 foot sounding on the shoal which centers about latitude $38^{\circ} 01'$, longitude $75^{\circ} 08.5'$. This is three feet less than the sounding appearing in this vicinity on Chart 1220.

Comparison with Previous Surveys:

By comparison with previous surveys it was proven that most of the shoals in this area have shifted slightly to the southward. The least depths have also varied from one to three feet.

Reduction of Soundings:

In making reductions for soundings, it was assumed that the tide occurred at the same time as that at Assateague Anchorage, at which point a standard tide gauge was in operation.

Respectfully submitted,

Robert A. Earle
Robert A. Earle, Lt.(j.g.)
U.S.C. & G.S.S. OCEANOGRAPHER

Approved and forwarded:

H.A. Serah
H.A. Serah, Comdr. C. & G.S.
Commanding S. OCEANOGRAPHER

LIST OF STATISTICS
 Hydrographic Sheet No. 8
 Maryland Coast

LYDONIA				
<u>Day</u>	<u>Date</u>	<u>Soundings</u>	<u>Positions</u>	<u>Mileage</u>
A	Oct. 16, 1933	760	154	43.5
GILBERT				
A	Oct. 11, 1933	328	71	21.9
B	Oct. 12, 1933	939	164	40.2
C	Oct. 13, 1933	35	7	.8
D	Oct. 14, 1933	478	80	21.5
E	Oct. 15, 1933	<u>891</u>	<u>201</u>	<u>52.0</u>
Total on Sheet		3431	677	179.9

LCC

March 5, 1934.

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in
3 volumes of sounding records for

HYDROGRAPHIC SHEET 5358

Locality Winter Quarter Shoal and Vicinity, Coast of Maryland and Virginia

Chief of Party: Herman Odessey and Ray L. Shoppe in 1933

Plane of reference is mean low water reading

3.5 ft. on tide staff at Assateague Anchorage, Virginia

9.3 ft. below B. M. 17

Height of mean high water above plane of reference is about 4 feet.

Condition of records satisfactory except as noted below:

Hammanna

Acting Chief, Division of Tides and Currents

Memo Re-H-5358

The 4 fm. charted in Lat. 37-59.5 long.
75-13.7 appear to be the same as the
4 3/4 fm sdg. on H-251⁽¹⁸⁴⁹⁾ as no other authentic
could be found for the 4. It has appeared on
our charts ever since 1866 (first edition Chart 128)
and ~~in the~~ would ~~never~~ have equaled
with H-251. In all probability ~~it~~ the 4 3/4
shown on H-251 was erroneously charted. If the
new survey facts ~~to~~ and depth should
be discontinued on future charts.

Shalant

PARTIAL REPORT ON H 5358

MARCH 14-1934.

- 1./ The protracting was found to have been very well done - No positions were changed.
- 2./ The datum the projection of this sheet is referred to - was not noted on the smooth sheet by the field party.

Respectfully Submitted,
Warren H. Bamford

Field Record Section
Report on H 5358

April 3, 1934

Chiefs of Party: H. A. Seaw, R. G. Schoppe + H. Odsey
Surveyed by: H. Odsey, R. G. Schoppe + F. A. Riddell
Protracted by: R. G. Schoppe
Soundings Plotted by: R. G. Schoppe
Verified by: W. H. Bamford + C. M. Jeske
Checked by: C. M. Jeske

The sounding records were neat, legible, & complete.

The protracting was very good.

The soundings were properly spaced as to time interval & were correctly plotted as to depth.

The field drafting was very good.

Soundings generally agree fairly well.

The positions were visually checked by W. H. Bamford.

Respectfully submitted,

C. M. Jeske

The overlaps on the north (H 5357) & on the east (H 5353) were not made because these sheets are at present in work.

Section of Field Records

REVIEW OF HYDROGRAPHIC SHEET NO. 5358 (1933).

Winter Quarter Shoal and Vicinity, Off Virginia Coast.
Instructions dated April 27, 1933. (OCEANOGRAPHER, LYDONIA, GILBERT).
Supplemental instructions dated June 1, 1933 (OCEANOGRAPHER).
Surveyed in 1933.

Hand Lead Soundings.

Chief of Party - H. A. Seran, R. L. Schoppe, H. Odessey.
Surveyed by - H. Odessey; R. L. Schoppe; F. A. Riddell.
Protracted by - F. L. Kish.
Soundings plotted by - F. L. Kish.
Verified and inked by - W. H. Bamford; I. M. Zeskind.

1. The records conform to the requirements of the Hydrographic Manual.
2. The character and extent of the survey satisfy the specific instructions with the exception of par. 14, which calls for the sufficient development of critical charted soundings to warrant their removal from the chart if not found and for a definite recommendation by the field party.
3. The sounding line crossings on this work are generally satisfactory.
4. The information is sufficient for drawing the usual depth curves.
5. The junction on the north with H. 5357 appears satisfactory but will be more fully reported in the review of that sheet when it is completed.

The junction on the east with H. 5353 will also be reported in the review of that sheet when it is completed.

The junction on the south with H. 5356 is satisfactory.

The junction on the west with H. 5347 is not satisfactory. There is a gap between the two surveys. Apparently this was due to the erroneous transferring of the limits of the work on H. 5347 to the boatsheet of H. 5358, but no comment is made on this holiday in the report.

6. Comparison with Previous Surveys.

The only previous surveys in this area are the surveys of 1850, H. 251 and 1863, H. 761.

~~In the vicinity of Winter Quarter Shoal there are only a few soundings on H. 761.~~

In the vicinity of Winter Quarter Shoal there are only a few soundings on H. 761 which sheet may now be superseded.

H. 251 shows quite a number of shoaler soundings which were not verified by the new work. The most prominent of these are the following:

Two 3 fathom soundings Lat. $37^{\circ}59'.6$ Long. $75^{\circ}14'.1$
A 3 $\frac{4}{6}$ fathom sounding Lat. $38^{\circ}00'.2$ Long. $75^{\circ}13'.5$ (9/26/34)
A 4 $\frac{4}{6}$ fathom sounding Lat. $37^{\circ}59'.45$ Long. $75^{\circ}13'.6$ (Do not chart)
A 4 $\frac{4}{6}$ fathom sounding Lat. $38^{\circ}00'.6$ Long. $75^{\circ}12'.8$ (G.L.F.)

The control of the sounding lines on H. 251 was not as accurate as that of the new work. The positions of the surveying schooner were determined by angles read from two shore stations. It is believed that some of these changes were out of position, although it is also possible that changes may have occurred in a period of 83 years.

It is recommended that within the limits of H. 5358, the old survey, H. 251, be entirely superseded for charting purposes.

7. Chart Changes.

The 4 fathom sounding shown on Chart 1220 in Lat. $37^{\circ}59'.5$ Long. $75^{\circ}13'.7$, appears to be the same as the 4 $\frac{3}{4}$ fathom sounding on H. 251 as no other authority could be found for the 4. It has been carried on the charts ever since 1866 (first edition Chart 128). It should be discontinued on future charts.

8. The following additional work is recommended.


The blank area between the western limits of this sheet, H. 5358, and the limits of H. 5347 should be covered.

9. Reviewed by - R. L. Johnston.

Inspection Note.


The location of the red and black buoy on this sheet marked July 1933, is from the records of H. 5357 (Vol. 2 pg. 6). This position agrees closely with the charted position. It would appear that between July and October the buoy drifted considerably off station.

A. L. Shalowitz.


L. O. Colbert,
Chief, Section of Field Records.

Examined and approved:


Chief, Division of Charts.


F. S. Borden
Chief, Section of Field Work.


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

"It is now apparent that no holiday was left between H. 5358 and H. 5347. This work had not been accomplished in 1933 but was accomplished during the field season of 1934, and according to the statement of the Commanding Officer of the Ship OCEANOGRAPHER, this inshore work was started in latitude $38^{\circ} 01'.8$, which should satisfactorily complete this area. This paragraph has reference to paragraphs 5 and 8 of the review where this holiday is discussed".

K. T. A.