5356

Diag. Cht. No. 1220-1.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. 6 *Office No.* H-5356

LOCALITY

State Maryland

General locality N. E. of Chincoteague Inlet

Locality South of Winter Quarter Shoal

194 33

CHIEF OF PARTY

H. A. Seran

LIBRARY & ARCHIVES

DATE December 22, 1933

B-1870-1 (1)

5356

Form 537
Ed. Dec., 1930

REG. NO. 5356

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. -6-

REGISTER NO. 5356

State Maryland

General locality N.E. of Chincoteague Inlet

Locality South of Winter Quarter Shoal

Scale 1-40,000 Date of survey Oct.12, to Oct. 16 1933

Vessel S.OCEANOGRAPHER AND S. LYDONIA

Chief of Party H. A. Seran

Surveyed by Various Officers

Protracted by F. J. Kish

Soundings penciled by F. J. Kish

Soundings in ~~fathoms~~ feet

Plane of reference M. L.W.

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated April 27th, 1933.

Remarks:

U. S. GOVERNMENT PRINTING OFFICE, 1931

DESCRIPTIVE REPORT

Hydrographic Sheet No. 6

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 27th, 1933, and covering projects HT142, HT143, and HT144.

Limits:

This sheet covers an area off the Maryland Coast to the southard of Winter Quarter Shoal. It covers a strip about 1¼ miles in width, running from WNW. to ESE., and extending from Long. 75° 02' to Long. 75° 14'. It centers about Lat. 37° 56' and connects with field sheets 5 and 7 on the north.

Survey Methods:

Positions were obtained by three-point fixes on objects located by triangulation.

The hand lead was used in obtaining all soundings.

Dangers:

A shoal, which lies at the northern extremity of this sheet just south of Winter Quarter Shoal, has a least depth of 24 feet.

Reduction of Soundings:

In making reductions for tide, it was assumed that the tide occured fifteen minutes earlier then at Assateague Anchorage; at which point a standard tide gauge was in operation.

Descrepancies:

There are no descrepancies on this sheet as the crossings of all sounding lines are exceptionally good.

Respectfully submitted

Robert A. Earle

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

Approved and forwarded:

H.A. Seran.

H.A. Seran, Comdr., C&GS.
Commanding Ship OCEANOGRAPHER

Table of Statistics

OCEANOGRAPHER

Day	Date	Soundings	Positions	Mileage
A	Oct. 15-1933	316	80	34.1
B	Oct. 16- "	663	171	54.3

LYDONIA

A	Oct. 12- 1933	160	29	12.3
B	Oct. 14- "	338	83	39.0
C	Oct. 15- "	255	60	18.9
	Total on Sheet --	1732	423	148.6

RAC

January 15, 1934

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 5356

Locality **South of Winter Quarter Shoal, Coast of Maryland**

Chief of Party: **Ray L. Shoppe in 1933**
Plane of reference is **mean low water reading**
3.5 ft. on tide staff at **Assateague Anchorage, Va.**
9.3 ft. below B. M. **17**

Height of mean high water above plane of reference is 4.0 feet

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents

Field Record Section
Report on H. 5356

Jan 24, 1934.

Chief of party-H. A. Seraw
Surveyed by- Various Officers
Protracted by- A J Kisk
Sounding Pencilled by- A. J. Kisk
Verified by- Lud Zeskind
Inked by- Lud Zeskind

The sounding records were neat, legible & complete.

Positions at the eastern end of sheet were about 100 m. northwest of where they should have been. This was probably due to the field protractor being out of adjustment. (The protractor used in the office was checked & found to be correct.) After consultation with Mr. Ellis, it was decided not to change the positions because it would not affect the depth curves & because the bottom in this area is fairly smooth.

The soundings were correctly plotted as to amount & time interval in the field.

The field drafting was well done.

The requirements of the Hydrographic Manual were complied with.

Respectfully submitted,

Lud Zeskind

No overlaps with adjoining sheets were made on this sheet because the sheets referred to in the descriptive report as being to the north of this sheet have not as yet been received by this office & because there are no recent contemporary surveys adjoining the other limits.

SECTION OF FIELD RECORDS
Report on Hydrographic Survey No. 5356
South of Winter Quarter Shoal
Surveyed in 1933
Instructions dated April 27, 1933 (OCEANOGRAPHER)
[Hand Lead Soundings and three point fixes on Shore Control].

Chief of Party - H. A. Seran.
Surveyed by - H. A. Seran and R. L. Schoppe.
Protracted and soundings plotted by - F. J. Kish.
Verified and inked by - I. M. Zeskind.

1. Records.

The records conform to the requirements of the Hydrographic Manual.

2. Instructions for the Project.

The work conforms to the instructions for the project with the exception that split lines in the vicinity of the 37 foot shoal in lat. 37° 55' long. 75° 08' and in the vicinity of the shoal spots within the 10 fathom curve at the eastern end of the survey would have been desirable. The indicated slopes in these two areas are such that shoaler depths would be expected. It is assumed that the shoals at the northwest corner of the survey will be fully developed when the inshore work in this area is accomplished. The entire area covered by this survey is undulating in character with numerous narrow ridges and troughs running in a general northeast and southwest direction. Many of these ridges may contain less water than shown by this survey, but those mentioned above are believed to be the most important to navigation.

3. Depth Curves and Crossings.

The usual depth curves can be completely drawn. Practically no cross lines were run, but a comparrison of soundings on adjacent lines indicates a good agreement.

4. Field Plotting.

The usual amount of field plotting was accomplished and was well done with the exception of the plotting of the positions at the extreme offshore ends of the lines which were found to be out as much as 100 meters. This may have been due to an unadjusted protractor or to a slight carelessness in plotting sensitive fixes. As the shift was along the depth curves no changes were made.

5. Junctions with Surveys.

a. Contemporary.

The contemporary surveys joining this survey to the north have

not yet been verified and their junctions will be considered when the sheets are reviewed. It is understood that new surveys will be continued to the southward of this sheet during the coming field season.

b. Prior Surveys.

1. H. 251 and H. 298 (surveyed in 1850 & 1851)

In general there is a good agreement between these two surveys and the present survey. Some changes are indicated which may be due to either actual change in the bottom or to a shifting of some of the ridges. The only depths of importance involved on the old surveys which have not been verified by the new survey are the 6 fathom sounding in lat. 37°53'.9 long. 75°04'.0, the 7 fathom sounding in lat. 37°54'.8 long. 75°06'.35 and the 5½ fathom sounding in lat. 37°55.7 long. 75°10'.7. All are from H. 298 but the 5½ is not shown on the present charts.

Inasmuch as these soundings fall close to areas over which additional work will be requested they will for the time being not be carried forward to the present survey. Their final disposition will be deferred until complete work in this area is accomplished.

2. H. 761 (surveyed in 1863)

This sheet consists merely of an additional examination of several spots on H. 251. While the sheet is diagramed as though covering an extensive area, most of it consists of soundings transferred from H. 251. None of the new work on H. 761 covers the present survey.

3. H. 3314 and H. 3314a (surveyed in 1911 and 1912)

Although the 1911 work is on a 1-200,000 scale, partly controlled by dead reckoning, there is an excellent agreement with the present survey. This is based not only upon a transfer from the 1911 work to the new survey, but upon an actual replotting of some of the three point fixes.

The charted 21 foot shoal (22 feet actual) just south of Winter Quarter Shoal originates with H. 3314 (pos. 96Q). Although it is on a dead reckoning line, it plots very close to the shoalest spot on the present survey (24 feet). In view of the excellent agreement between the depths on the two surveys, it is desirable that the 22 be retained and it has therefore been carried forward to the new survey.

The 1912 work (H. 3314a) contains only a few soundings that fall within the limits of the present survey and since none are critical no close comparison was considered necessary.

6. Comparison with Chart 1220.

All the charted shoals that fall within the limits of the present sur-

vey have been accounted for, and have been considered either generally or specifically in this review, with the exception of the 6½ fathom shoal in lat. 37°56'.7 long. 75°07'. This sounding falls in depths of 66 feet on the present survey. No authority could be found for the 6½. It has appeared on our charts as far back as the first edition of Chart 128 (1866) and would seem to have originated with the survey of 1850 (H. 251) but nothing even resembling such depth could be found thereon. It should be disregarded in further charting.

7. Additional Work.

The following additional work is recommended when work is resumed in this area: (See boat sheet for indicated areas).

a. A more complete development of the area within the 10 fathom curve at the eastern limits of the sheet particularly in the vicinities of the 39 foot sounding in lat. 37°54'.9 long. 75°03. and the charted 6 fathom sounding in lat. 37°53'.9 long. 75°04'.0 as mentioned in paragraph 5, b, 1 of this review.

b. Additional development over the 37 foot shoal in lat. 37°55'.0 long. 75°07'.9.

c. Additional development over the 37 foot shoal in lat. 37°56 long. 75°10'.9. This development should be extended to include the 5½ fathom shoal from H. 298 in lat. 37°55'.7 long. 75°10.7 referred to in paragraph 5, b,1 of this review.

d. A further development of the indicated shoals at the northwest corner of this survey in approximate lat. 37°59' long. 75°14'.

e. The several indications of less than 40 feet in approx. lat. 37°57' long. 75°13' is desirable to examine further.

8. Note to Compiler.

The present survey with the indicated additions from the prior surveys should supersede all previous chartings within these limits. Inasmuch as no dangers are involved in this survey that are not already charted, the application of this sheet to the charts should be deferred until the additional work requested is accomplished.

9. Reviewed by - A. L. Shalowitz - Feb. 1934.

L. O. Colbert

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

Examined and approved:

Chief, Division of Charts.

Chief, Section of Field Work.

Chief, Division of H. & T.