# 5346

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

**Tapagraphies** Hydrographic

Sheet No.

5346

LOCALITY

Maryland Coast

Off Ocean City

Little Gull Bank

19\_33

CHIEF OF PARTY

H. A. Seran

U. S. GOVERNMENT PRINTING OFFICE: 195

## 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. \_\_\_\_\_

## REGISTER NO. 5346

State Maryla	nd		
General locality	Ocean City		
LocalityLittl	e-Gull-Bank		
Scale_1:20,000	Date of survey_	May 3 to June 2	24, 1933
Vessel	s. GILBERT		
Chief of Party	Herman Odessey		
Surveyed by	Various Officers		
Protracted by	E. H. Maher		
Soundings penciled	by E. H. Maher		·
Soundings in takham			
Plane of reference	M_L_W		
Subdivision of wire	dragged areas by		
Inked by			
Verified by			
Instructions dated	April 27th		, 1933.
Remarks:			

applied to CM 1220-Oct 1934 - 24 Samble

#### DESCRIPTIVE REPORT

Hydrographic Sheet No. 1
Maryland Coast.

#### Instructions:

The instructions directing the work on this sheet are contained in the Director's instructions to the Commanding Officers of the Ship-OCEANOGRAPHER, LYDONIA and GILBERT, dated April 22, 1933, and covering projects HT 142, HT143 and HT144.

#### Limits:

This sheet covers an area off the Maryland Coast adjacent to Ocean City. It connects with sheet H4951 on the north, with field sheet No. 5 and sheet H4944 on the east; with field sheet No. 7 on the south, and with field sheet No. 1L on the west.

Survey Methods:

The survey of this area was controlled by sextant angles on objects located by triangulation and topography.

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

Discrepancies:

In several places on this sheet mear slopes, where sounding lines fail to cross by nearly a fathom, the shoaler soundings were plotted; however, in nearly all cases, the crossings of sounding lines were exceptionally good.

The least depth found on Little Gull Bank was 15 feet, obtained in Lat. 38° 17.23', Long. 75° 03.85'. By plotting different positions on the sheet it was proven that this shoal had moved to the southward about .1 mile. The top of this shoal has apparently washed away slightly. The 12 and 15 foot soundings on the chart can now be replaced by 15 and 17 foot soundings as no shoaler soundings were found in the respective vicinities of either.

The shoal that runs N. E. from Ocean City has shifted to the southeast from .1 to.5 of a mile and the depths on different parts have changed considerably. A least depth of 12 feet was found around Lat. 38° 21.2', Long. 75° 03.0', which is about 6 feet shoaler than the previous sounding in this vicinity. All soundings, plotted on the chart with regard to this shoal, will have to be changed.

Other shoals in this area have shifted slightly to the south or southeast and the depths have varied a little from those plotted on Chart 1220.

#### Comparison with previous surveys:

By comparison with previous surveys, it was proven that most of the shoals on this sheet have shifted to the south or southeast from .1 to .5 of a mile and the least depths have varied from one to six 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, Lt. (jg)
U. S. C. & G. S. S. OCEANOGRAPHER

Approved and forwarded:

H. A. Serah, Commdr., C&GS Commanding S. OCEANOGRAPHER

## List of Statistics

"GILBERT"

Day	Date	Soundings	Positions	Mileage
A	May 3, 1933	843	195	42.0
В	May 4, 1933	948	195	37.1
C	May 5, 1933	776	174	33.4
D	June 12, 1933	986	197	50.5
E	June 20, 1933	933	176	<b>44.</b> 8
F	June 22, 1933	464	95	16.5
G	June 23, 1933	502	93	21.6
Н	June 24, 1933	281	64	13.7
	Total	5 <b>733</b>	1189	259.6

### January 15, 1934

Division of Hydrography and Topography:

V Division of Charts:

Tide Reducers are approved in 4 volumes of sounding records for

HYDROGRAPHIC SHELF

5346

Locality Little Gull Bank, Coast of Maryland

Chief of Party: Herman Odessey 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 Revord Section Deb 2, 1934 Report on 1 5346 Chief of Party- Herman Odessey Surveyed by Tarrous Offices Protected by E N. mayer Soundings Petrills by . E. M. mayer Venfied by A. W. nurray, J. M. Zeakens July by N. W. milnay, J. M. Jeskind. The sounding records were near, legable a complett. N. O. murray & found to be very good. The complicated areas were while & verified . by SL. O. number The soundings in general conform to the Hydrographic mound buttin a good many in were not properly spaces, as to time withwal & were enomously blotted as to depth: The Gosings in general were good. However, Rosetions 51-52 & lat 38:22.2' long 7000. Positions 51-52 & lat 38:22.2' long 75-021' also depth of 34' at intersection of positions 148-149 d & 34 x 350 N lat 38°-16.9' longt 75.01.6', shows a croning The field drafting in Jeneral was good; however, in some linatoured the day letters & osition numbers were not legible! The fish traps south of lefe one shown in lap 38- 103' long 75.063' are left on the skep in sencil because of insufficient data in sound. records & on Stock skiele also because H5347 adjoin this sheet in the area of the fish traps, and they may be now accurately located on that sheep. All smooth sheet soper to of soor quality

#### Section of Field Records

## REVIEW OF HYDROGRAPHIC SURVEY NO. 5346 (1933)

Little Gull Bank, Ocean City, Md.
Instructions dated April 27, 1933 (OCEANOGRAPHER)
Surveyed in 1933

#### Hand Lead Soundings

Three Point Control on Shore Signals

Chief of Party - Herman Odessey.

Surveyed by - Various Officers.

Protracted by - E. H. Maher.

Protracting verified by - Harold W. Murray.

Soundings plotted by - E. H. Maher.

Verified and Inked by - I. M. Zeskind.

#### 1. Condition of Records.

The records are neat, legible and conform to the requirements of the Hydrographic Manual, except that notes in "remarks column" were not referenced in accordance with Paragraph No. 76 of the H. M.

#### 2. Compliance with Instructions for the Project.

The plan, character and extent of the survey satisfy the instructions for the project, except as noted in paragraphs 7 and 9 of this Review.

## 3. Sounding Line Crossings.

Sounding line crossing are satisfactory.

#### 4. Depth Curves.

The usual depth curves may be satisfactorily drawn.

#### 5. Junctions with Contemporary Surveys.

Junctions with H-4944 (1929) and 4951 (1929) on the northeast and northwest, respectively, are satisfactory, with the exception of a half mile gap at the northeast end. Junctions with H-5347 (1933) on the west and H-5357 (1933) on the south have been considered in the review of those sheets. Junction on the east with H-5348 (1933) will be considered in the review of that survey.

#### 6. Comparison with Prior Surveys.

Prior surveys in this area are H-212 (survey of 1848; additional work in blue, 1896), H-213 (1849), H-3314 (1911) and H-3314a (1912). The following are the more important shoals from these various surveys:

(a) The charted 11, 16 and 18 foot shoals in approx. Lat. 38-21.9, Long. 75-02.6 are from H-212 (1896). These shoals fall in considerably deeper depths on the new survey, but there is evidence that

the ridge which these shoals define has either shifted to the southeastward or was originally poorly located. These soundings should be discontinued in future charting and should be superseded by the delineation on the present survey.

- (b) The charted 28-foot sounding (Auth. H-212 of 1848) in approximate Lat. 38°21', Long. 75°02.4' has been carried forward in blue pending further investigation in the future. Both surveys show ample evidence of shoaling, but no development was made to obtain the least depth.
- (c) The charted 21-foot sounding in approximate Lat. 38°21.2', Long. 75°03.8' has been identified in the records of H-212 (1848) and found to be erroneously plotted as  $3\frac{1}{2}$  fathoms instead of  $5\frac{1}{2}$  fathoms.
- (d) The charted 37-foot sounding (actually 38) in approximate Lat. 38°17.2', Long. 75°01.6' is from an inaccurately plotted and poorly controlled dead-reckoning line on H-3314a (1912). A carefully replotting of 12 miles of the line between Lat. 38°14' and 38°26' brings the charted sounding within a tenth of a mile of a 39-foot sounding on the current survey. Furthermore, all soundings on the revised line are in excellent agreement with those of the present survey and the adjoining surveys, H-4944 (1929) and 5357 (1933). The 39 foot sounding on the new survey should replace the charted 37.
- (e) The charted 33-foot sounding in approximate Lat. 38°17.1', Long. 75°0.5' is from H-213 (1849). This sounding falls within a quarter of a mile of a 34-foot sounding on the current survey. In view of the lapse of time and the possibility of change having taken place here, the 33 should be disregarded in future charting.

## 7. Comparison with Chart No. 1220.

Within the area of the present survey the chart is based on surveys discussed in the foregoing paragraphs and contains no additional information that needs consideration in this review.

#### 8. Field Plotting.

Field protracting was excellent but soundings were not consistently plotted with respect to timing intervals (Paragraph 147, H. M.).

#### 9. Additional Work Recommended.

Additional hydrography in the near future is recommended as follows:

- (c) Development of the one-quarter square mile gap existing between the junctions of H-4951 (1929), H-4944 (1929) and the present survey in approximate Lat. 38°22', Long. 75°01.4'. Dragged to 30 ft.

  Par. 3d. review of H-6341 (1938) W.D.
- (d) Development of the 39-foot sounding (this survey) in approx-Ckared with imate Lat. 38°16.8', Long. 75°2.2'. (See Par. 6 (d), above). 36 foot drag. 29 ft. review H-6341 (1938) W.D

#### 10. Fish Traps.

All fish traps shown on this sheet are plotted from information contained in the sounding records and boat sheet. Many of these are approximations due to failure to properly tie in notes and line of observation, and also to inadequate remarks as to extent and direction.

#### Superseding Previous Surveys. 11.

Within the area covered the present survey with the indicated additions from previous surveys supersedes the following surveys for charting perposes:

H-212	(1848 and	1896),	In	Part.
H-213	(1849),		11	11
H-3314	(1911),		Ħ	tt
H-3314a	(1912).		11	11

12. Reviewed by - Harold W. Murray, May and Nov., 1934.

Inspected by - A. L. Shalowitz.

Examined and approved:

C. K. Green, G. H. Freen Chief, Section of Field Records.

Chief. Section of Field Work.

Chief, Division of Charts.

Chief, Division of H. & T.

Amall corrections to Dry of Chart 1220, July 13, 1935 H.B. after additional work " " " HB. " AB. " April to insert che 1220 - Feb 1948 Ramper 47A

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