

6567

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Form 504  
Rev. April 1935

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. H - 6567  
Hydrographic }

State Massachusetts

LOCALITY

Atlantic Ocean

Gulf of Maine

1934

CHIEF OF PARTY

Fred. L. Peacock

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. H 567

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. 22

REGISTER NO. H - 6567

State Massachussetts

General locality Atlantic Ocean

Locality Gulf of Maine

Scale 1-20,000 Date of survey Sept. 11, 19 & 23, 19<sup>40</sup>

Vessel Ship OCEANOGRAPHER

Chief of Party Lieut. Comdr. Fred. L. Peacock,

Surveyed by Ship's Officers

Protracted by I.M.Zeskind

Soundings penciled by I.M.Zeskind

Soundings in fathoms feet

Plane of reference Mean Low Water

Subdivision of wire dragged areas by \_\_\_\_\_

Inked by C. E. Dennis

Verified by \_\_\_\_\_

Instructions dated March 8, 19<sup>40</sup>

Remarks: Plotted and soundings penciled at the Norfolk Processing Office under the supervision of H. Arnold Karo.

DESCRIPTIVE REPORT

TO ACCOMPANY

SHEET H-6567  
(Field No. 22)

The following appears in the season's report for project H.T. 248, Gulf of Maine, 1940, U.S.C. & G.S. OCEANOGRAPHER, Fred. L. Peacock, Lt. Comdr.

"Near the end of the season the control system was tied in to two winter carry-over buoys established by the U.S. Coast Guard at the Bureau's request on two small shoals a short distance inside the northern edge of Georges Bank. When field work is resumed in the spring of 1941 it is planned to continue the control scheme eastward from these two winter carry-over buoys. A small detailed hydrographic survey was made of the immediate vicinity of each of these two buoys so that any movement of them during the winter of 1940-41 can be detected and the junction with the 1930-32 surveys of Georges Bank can be more readily adjusted."

DATE OF INSTRUCTIONS:

See above.

DATE OF SURVEY:

The work on this sheet was done on Sept. 11, 19 & 23, 1940.

SURVEY METHODS:

The work on this sheet was done with the ship OCEANOGRAPHER. The lines were run by gyro-compass bearings on the buoys NET & OLD, dip angles being taken to these buoys and occasional bomb distances obtained from buoy PAN. Buoy Pan intentionally omitted on smooth sheet. H.W.M.

SMOOTH PLOTTING:

The lines were plotted by gyro-compass bearings, dip angles and, in the case of buoy OLD, account was taken of scope of buoy due to current. It was not possible to take into account the current in plotting the lines around buoy NET because of insufficient current data. The spacing of positions for any line was arrived at by taking the average distance per minute made good by the ship between the position before and after passing of buoy.


No bottom characteristics were listed in the sounding records

and, therefore, none are shown on this sheet.

TIDE DATA:

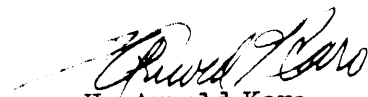
For the purpose of determining tide reducers, hourly heights of the Portland, Me., gage were used. The tide on the working grounds was assumed to occur one-half hour earlier than that at Portland with the range 0.8 that of Portland.

Respectfully submitted,

  
Isadore M. Zeskind,  
Asst. Cartographic Engr.

Norfolk, Va.,  
July 23, 1941.

Approved and forwarded.

  
H. Arnold Karo,  
Officer in Charge,  
Norfolk Processing Office.

STATISTICS FOR SHEET H-6567

Ship OCEANOGRAPHER 1940

Project HT-248

Letter Day	Date 1940	Statute Miles	Soundings	Positions
A	Sept 11	6.9	221	25
B	19	20.0	452	58
C	23	15.6	320	49
	Total	42.5	993	132

Borsey Type #3 Fathometer was used for all soundings on this sheet.

PAC  
H.C.

# TIDE NOTE FOR HYDROGRAPHIC SHEET

September 16, 1941

~~Division of Hydrography and Topography~~

✓ Division of Charts: Attention: Mr. H. R. Edmonston.

Plane of reference approved in  
2 volumes of sounding records for

HYDROGRAPHIC SHEET 6567

Locality Gulf of Maine

Chief of Party: F. L. Peacock in 1940  
Plane of reference is mean low water reading  
8.6 ft. on tide staff at Portland  
19.0 ft. below B. M. 31

Height of mean high water above plane of reference is 8.9 feet.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

GEOGRAPHIC NAMES  
Survey No. **H6567**

Name on Survey	Source											
	A, On Chart No.	B, On previous survey No.	C, On U. S. quadrangle Maps	D, From local information	E, On local Maps	F, P. O. Guide or Map	G, Rand McNally Atlas	H, U. S. Light List	K			
<u>Gulf of Maine</u>												1
												2
												3
<u>Portland</u>												4
												5
												6
												7
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												9
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Names undivined in red approved  
 by LeHeck on 7/31/44

Remarks

Decisions

	Remarks	Decisions
1		
2		
3		
4	Location of tide staff.	
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Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. **H6567**

Records accompanying survey:

Boat sheets <sup>one</sup>....; sounding vols. <sup>(1)</sup>....; wire drag vols. ....;  
 bomb vols. <sup>(1)</sup>...; graphic recorder rolls .....;  
 special reports, etc. ....  
 .....

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

Number of positions on sheet	.132..	
Number of positions checked	.23..	
Number of positions revised	.2..	
Number of soundings recorded	.993.	
Number of soundings revised (refers to depth only)	.13..	
Number of soundings erroneously spaced	.0..	
Number of signals erroneously plotted or transferred	.0..	
Topographic details	Time .0..	
Junctions	Time .0..	
Verification of soundings from graphic record	Time .13..	
Verification by <i>C. F. Dennis</i> .....	Total time .13..	Date <i>9/20/41.</i>
Review by <i>Harold W. Murray</i> .....	Time .14..	Date <i>9/27/41.</i>

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT <del>PHOTOSTAT OF</del>	}	No. H <b>H6567</b> <del>No. H</del>	{	received Sept. 12, 1941 registered Sept. 12, 1941 verified reviewed approved
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This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
22			
24			
25			
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30			
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62			
63			
82			
83			
88			
90			

RETURN TO

82	R. W. Knox
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*R.W.K.*

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF HYDROGRAPHIC SURVEY REGISTER NO. 6567 (1940)  
FIELD NO. 22

Massachusetts, Atlantic Ocean, Gulf of Maine  
Surveyed September 11, 19, and 23, 1940, Scale 1:20,000  
Instructions dated March 8, 1940 (OCEANOGRAPHER)

Soundings: Dorsey III

Control: Gyro Bearings and  
Dip Angles on Established  
Buoys

Chief of Party - Fred L. Peacock  
Surveyed by - Ship's Officers  
Protracted by - I. M. Zeskind  
Soundings plotted by - I. M. Zeskind  
Verified and inked by - C. E. Dennis  
Reviewed by - Harold W. Murray, September 27, 1941  
Inspected by - H. R. Edmonston

1. Shoreline and Signals

- a. This is an offshore survey and no shoreline is shown.
- b. Control of soundings is discussed in the Descriptive Report, page 1. The height of eye used in the dip angles was not recorded. It was estimated from the computations as being 28 feet. A diagram of the taut wire control is shown in the Descriptive Report of H-6565 (1940).

The correction applied in red to the projection is based on the positions of Buoys OLD and NET furnished by the OCEANOGRAPHER to the Norfolk Processing Office. These buoy positions differ from the adjustment applied by the Processing Office and discussed in the Descriptive Report of H-6565 (1940), page 2.

The positions are listed in a letter dated October 2, 1941, attached to the Descriptive Report of H-6565 (1940).

2. Sounding Line Crossings

Satisfactory.

3. Depth Curves

Satisfactory.

4. Junctions with Adjacent Surveys

- a. The junction on the north with H-6565 (1940) is restricted to a few sounding lines and will be considered in the review of that sheet.
- b. The present survey joins H-6112b (1930), H-5173 (1931) and H-5196 (1931) on the south. No overlapping soundings are shown because of disagreements noted in paragraph 5 below.

5. Comparison with Prior Surveys

H-1305 (1854-75), H-2920a (1880-84), H-5112b (1930), H-5173 (1931) and H-5196 (1931), Scales 1:40,000 to 1:400,000

Because of the small scale and sparseness of detail restricted to one or two sounding lines, an adequate comparison with the present survey cannot be made. In all cases, however, the present survey least depths are equal to or less than the principal least depths on the above surveys.

The positions of the shoals differ with respect to those shown on the 1930-31 survey. The development with least depth of 14 fms. at buoy OLD falls in depths of 21 to 31 fms., uneven bottom, on H-5112b but an 18-~~fm.~~ spot is shown about 3/4 mile southwest on H-5112b. On H-5196 (contains some replotting from H-5173) at buoy NET, the least depth and positions of the shoals agree excellently if the northern shoal on the old survey is shifted 1/4 mile E.S.E. and the southern shoal is shifted 1/4 mile east. The above differences are attributed principally to differences in the early R.A.R. methods used on the 1930-31 surveys.

6. Comparison with Chart 1107 (New Print date 6-11-41)

a. Hydrography

Hydrography shown on the chart originates with information discussed in the preceding paragraphs.

b. Aids to Navigation

*JFR  
Nt M 49-1941*

Buoys C1 and C3 are temporary winter carry-over buoys established by the U. S. Coast Guard at this Bureau's request. Both buoys as shown on the present survey are about 1 mile east of their charted positions. The present survey positions are the final positions furnished by the hydrographer at the close of the 1940 season and are more accurate than those of the U. S. Coast Guard reported September 11, 1940 (Notice to Mariners No. 37).

7. Compliance with Project Instructions

Satisfactory.

8. Condition of Survey

The Descriptive Report, page 1, states that no bottom characteristics were obtained.

9. Additional Field Work Recommended

This is a satisfactory survey for the purposes intended.

The 1/4 mile differences in the positions of the shoals discussed in paragraph 5 above indicate that a portion of the earlier weaker controlled 1930-31 work which extends south of the present survey is slightly out of position.

10. Superseded Surveys

H-1305	(1854-75)	In part
H-2920a	(1880-84)	" "
H-5112b	(1930)	" "
H-5173	(1931)	" "
H-5196	(1931)	" "

Examined and Approved:

*Robert W. Knaf*  
Chief, Surveys Section

*J. S. Borden*  
Chief, Division of Charts

*Z. P. Rayner*  
Chief, Section of Hydrography

*G. W. Hilde*  
Chief, Division of Coastal Surveys

Applied to Ch. 1000 Nov 25, 1941 - JTW  
Applied to Cht. 3075 1-20-42 K.P.  
" " " 1106 2-5-42 J.K.S.  
" " " 70 2-7-42 J.K.S.  
" " " 1107 4-25-42 J.K.S.