

6842

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey ..... Hydrographic

Field No. L-1743 ..... Office No. H-6842

LOCALITY

State ..... MAINE

General locality ..... DAMARISCOTTA RIVER

Locality ..... Northern Half Part

194 3.

CHIEF OF PARTY

L. P. Raynor

LIBRARY & ARCHIVES

DATE .....

6842

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. H-6842

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER No. H-6842

Field No. L-1743

State MAINE

General locality DAMARISCOTTA RIVER

Locality Northern Half Part

Scale 1:10,000 Date of survey July - August, 1943

Instructions dated May 7, 1941, and Supplemental Instructions, dated March 16, 1943

Vessel LYDONIA - Launch No. 100

Chief of party L. P. Raynor

Surveyed by Ship's Officers

Soundings taken by fathometer, graphic recorder, hand lead, ~~voice~~

Protracted by M. Jane Langley

Soundings penciled by M. Jane Langley

Soundings in ~~fathoms~~ feet at MLW ~~MLW~~

REMARKS: This sheet was processed at the Norfolk Processing Office.

DESCRIPTIVE REPORT

H6842

to accompany

HYDROGRAPHIC SHEET H-6842 (Field 1743)

This descriptive report was compiled from notes furnished by the field party as well as supplemental information obtained at this office.

INSTRUCTIONS:

This survey was executed under authority of the Director's Instructions for project CS-265, dated May 7, 1941, and Supplemental Instructions, dated March 16, 1943.

LOCALITY:

This is a survey of the northern end of the Damariscotta River, Maine.

CONTROL & SIGNALS:

The topographic signals were taken from airphoto compilations, while the hydrographic signals <sup>were obtained</sup> by the usual method of three-point fixes and cuts.

SURVEY METHODS:

The usual method of three-point fixes was used throughout this survey. The soundings were obtained by means of an 808 fathometer and handlead. In investigating shoal areas on this sheet the field party invariably used a handlead along with the fathometer. In addition, the launch was drifted over the spots to obtain least depths.

SMOOTH PLOTTING:

The shoreline was taken from reverse prints of topo sheets Nos. T-5993<sup>(1941)</sup> and T-5994<sup>(1941)</sup>.

CROSSINGS:

The crossings are in excellent agreement. The maximum discrepancy noted was 1 ft.

BRIDGES:

Newcastle-Damariscotta Bridge; fixed; only channel span has horizontal clearance of 160 feet; vertical clearance, 19 feet at M.L.W. Owner: Maine Highway Commission.

CHANNELS:

The channel to Newcastle and Damariscotta has a controlling depth of <sup>10</sup>9½ ft. Since the channel is not straight it should be followed with the aid of a chart to prevent groundings

3

25

The Damariscotta River for 2 miles south of the bridge is noted for the mud flats on both sides of the navigable channel; care should be exercised in piloting.

SHOALS, ROCKS, etc.

In Latitude 43°57.48', Longitude 69°34.44', a shoal area was investigated and a least depth of 25 feet obtained.

In Latitude 43°57.85', Longitude 69°34.45', a shoal area was investigated and a sounding of 5 feet obtained about 140 meters southeast of a charted 21 foot spot.

In Latitude 43°58.0<sup>2</sup>~~5~~', Longitude 69°34.51', a sounding of 22<sup>1</sup>/<sub>2</sub> feet was obtained near a charted one of 26 feet.

In Latitude 43°58.40', Longitude 69°33.90', a charted depth of 25 feet could not be checked. By using the handlead in conjunction with the fathometer a depth of 26 feet was obtained.

In Latitude 43°59.22', Longitude 69°33.27', a charted 24 foot spot was not found but a depth of 21 feet was found less than 100 meters to the southward. *23' found 50m to S.*

A charted 18 foot spot was checked in Latitude 43°59.45', Longitude 69°33.02'.

In Latitude 43°59.28', Longitude 69°33.10', a 3 foot sounding was not checked in its charted location but a 2<sup>1</sup>/<sub>2</sub> ft. sounding exists about 50 meters to the ~~eastward~~ *southward*.

This survey shows a 5 ft. sounding at Latitude 43°59.97', Longitude 69°32.68', whereas the chart shows a 6 ft. sounding.

4 feet was obtained on a charted sounding of 3 feet in Latitude 44°00.09', Longitude 69°32.63'.

Low water area in the vicinity of station SOD was located by the hydrographic party.

Charted shoal soundings near buoy N14 were checked.

Low water area near Goose Rock was located by the hydrographic party.

DISCREPANCIES:

Rock Awash, 5 f (blue), Latitude 44°01.61' and Longitude 69°32.14'. The position of this rock awash does not agree with that shown on the boat sheet; however, if the right angle is increased 5 degrees, the smooth sheet plotting will agree with the boat sheet plotting. *Also agrees with check angle*

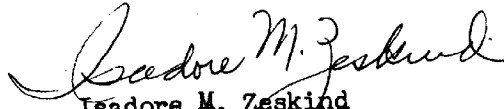
*right angle made 5° larger*

The notes in the sounding records are not always clear as to whether the amounts the rocks or rocks awash are above M.L.W. or the water level at the time of the survey. The latter case is assumed, and the amounts the rocks or rocks awash bare above M.L.W. are shown in the notes on the smooth sheet.

JUNCTIONS WITH CONTEMPORARY SURVEYS:

This sheet joins H-<sup>1943</sup>6844 on the south. Since this sheet has not as yet been received from the field party, no comparison could be made at this time.

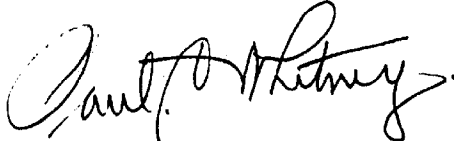
Respectfully submitted,



Isadore M. Zeskind  
Associate Cartographic Engineer

Norfolk, Va.  
October 8, 1943

Approved and forwarded.



Paul C. Whitney  
Supervisor, S. E. District

STATISTICS FOR SHEET H-6842

H6842

Day Letter	Date	Stat. Miles	Position
a(blue)	July 29, 1943	10.6	83
b "	July 30, 1943	16.2	132
c "	July 31, 1943	9.1	117
d "	Aug. 3, 1943	5.9	67
e "	Aug. 4, 1943	20.0	178
f "	Aug. 5, 1943	19.6	169
g "	Aug. 6, 1943	18.2	178
h "	Aug. 7, 1943	6.2	50
j "	Aug. 10, 1943	<u>0</u>	<u>6</u>
		105.8	980

Hand lead and Pole soundings - - - - - 356

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. **H6842** .....

Records accompanying survey:

Boat sheets ..<sup>1</sup>.; sounding vols.<sup>3</sup>.....; wire drag vols.<sup>0</sup>.....;  
 bomb vols. ....<sup>0</sup>.; graphic recorder rolls <sup>8</sup>(in cahiers)  
 special reports, etc. ....  
 .....

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

Number of positions on sheet	. <i>920</i> ..	
Number of positions checked	. <i>42</i> ..	
Number of positions revised	. <i>2</i> ..	
Number of soundings recorded	. <i>7000</i> ..	<i>estimate</i>
Number of soundings revised (refers to depth only)	.....	
Number of soundings erroneously spaced	. <i>40</i> ..	
Number of signals erroneously plotted or transferred	.....	
Topographic details	Time . <i>16</i> ..	
Junctions	Time .....	
Verification of soundings from graphic record	Time . <i>24</i> ..	

Verification by ..*A. R. STIRN*!... Total time *100*.. Date *1/25/44*..

Review by ..*R. H. Carstens*..... Time *30*.. Date *1/29/44*..

H6842

	Remarks	Decisions
1		USGB
2		438695
3		440695
4	Location of one tide staff	" USGB
5		"
6		"
7		439695
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17	<sup>one</sup> Location of tide staff	439695
18		"
19		"
20		440695
21		"
22		"
23		
24		
25		
26		
27		



GEOGRAPHIC NAMES

Survey No. H6842

Name on Survey	Source										
	A	B	C	D	E	F	G	H	K		
<u>Maine</u>											1
<u>Demariscotta River</u> ✓											2
<u>Demariscotta</u> ✓											3
<u>Newcastle</u> ✓											4
<u>Days Cove</u> ✓											5
<u>Huston Cove</u> ✓											6
<u>Dodge Upper Cove</u> ✓											7
<u>Dodge Lower Cove</u> ✓											8
<u>Prentiss Cove</u> ✓											9
<u>Whitey Cove</u> ✓											10
<u>Fitch Cove</u> ✓											11
<u>Mears Cove</u> ✓											12
<u>Nelsey Pt.</u>											13
<u>Merry I.</u>											14
<u>Fitch Pt.</u>											15
<u>Lower Fitch Pt.</u>											16
<u>East Edgecomb</u>											17
<u>Whitey Pt.</u>											18
<u>Dodge Pt.</u>											19
<u>Perkins Pt.</u>											20
<u>Little Pt.</u>											21
<u>Hall Pt.</u>											22
											23
											24
											25
											26
											27

Names underlined in red approved  
by L. Heck on 2/7/44

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
 DESCRIPTIVE REPORT  
 PHOTOSTAT OF

} No. H **H6842**  
 } No. T

{ received October 12, 1943  
 { registered October 12, 1943  
 { verified  
 { reviewed  
 { approved

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	Pg 1	RF	
26			
30			
40			
62			
63			
82			
✓ 83	Pg 2	VE4	931 LBB
88			
90			

RETURN TO

82	R.W.Knox
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RAC  
HRC

## TIDE NOTE FOR HYDROGRAPHIC SHEET

October 15, 1943

~~Division of Hydrography and Topography:~~

✓ Division of Charts: Attention: H. R. EDMONSTON

Plane of reference approved in  
3 volumes of sounding records for

HYDROGRAPHIC SHEET 6842

Locality Damariscotta River (Northern half), Maine

Chief of Party: L. P. Raynor in 1943  
Plane of reference is mean low water reading  
4.1 ft. on tide staff at Newcastle  
31.2 ft. below B. M. 1  
5.4 ft. on tide staff at East Edgecomb  
12.8 ft. below B. M. 1

Height of mean high water is 9.5 ft. at Newcastle; 9.2 ft. at  
East Edgecomb.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6842

Field No. L-1743

Maine, Damariscotta River, Northern Part  
Surveyed July - August 1943; Scale 1:10,000  
Instructions dated May 7, 1941, and March 16, 1943

Soundings:

Hand lead  
808 Fathometer

Control:

Three-point fix on shore signals

Chief of Party - L. P. Raynor  
Surveyed by - Ship's Officers  
Protracted by - M. J. Langley  
Soundings plotted by - M. J. Langley  
Verified and inked by - A. R. Stirni  
Reviewed by - R. H. Carstens  
Inspected by - H. R. Edmonston, February 3, 1944

1. Shoreline and Signals

The shoreline and topographic stations originate with T-5993 and T-5994 of 1941. The sextant fix for signal ZIG is the only one of six hydrographic signals recorded in the sounding records of the present survey.

2. Sounding Line Crossings

Satisfactory.

3. Submarine Relief

The usual depth curves were satisfactorily drawn.

Characteristic of the submarine relief are the rock ledges at many places along the shore and the broad mud shoals bordering the channel to the south of Damariscotta. In Lat. 43°58.2', Long. 69°34.4' a ledge extends across three quarters the width of the river.

4. Junctions with Contemporary Surveys

No adjoining contemporary surveys are registered at the present time.

5. Comparison with Prior Surveys

H-903 (1866) 1:10,000

Slight change has taken place since the prior survey was made. A number of new rocks awash were located and shoaler depths at several places were found. The 23-ft. sounding charted in Lat.  $43^{\circ}57.52'$ , Long.  $69^{\circ}34.25'$  is probably erroneously spaced and should be disregarded. The -2-ft. sounding in Lat.  $43^{\circ}59.92'$ , Long.  $69^{\circ}32.3'$  was carried forward to give a low water detail at this point. The present basic survey adequately reveals all the necessary hydrographic features and should supersede this prior survey within the common area.

6. Comparison with Chart 313 (Latest print date 12-30-43)

a. Hydrography

The charted hydrography within the area of the present survey originates with the previously discussed survey supplemented by critical soundings from the present survey. The area should be charted entirely from the present survey.

b. Aids to Navigation

The present survey positions of the floating aids to navigation differ by as much as 140 meters from the charted positions but they still satisfactorily mark the features intended.

7. Condition of Survey

Satisfactory.

8. Compliance with Instructions for the Project

Satisfactory.

9. Additional Field Work Recommended

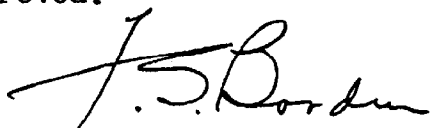
This basic survey is complete and no additional field work is recommended.

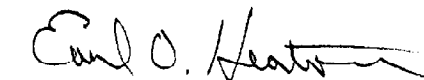
10. Superseded Surveys


H-903 (1866)

Examined and approved:

  
Chief, Surveys Branch

  
Chief, Division of Charts

  
Chief, Section of Hydrography

  
Chief, Division of  
Coastal Surveys

# NAUTICAL CHARTS BRANCH

SURVEY NO. H 6842

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
2/5/45	314	<i>JHE</i>	<del>Before</del> After Verification and Review
3/6/45	1204	<i>JTW</i>	<del>Before</del> After Verification and Review <i>Partially</i>
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

Partially applied to Chart 313. (Kpover + review.) G.R. 11/12/43  
applied to Reconstructing Ch. 314 2/5/45 JHE  
Partially applied to Ch 1204 3/6/45 - JFW <sup>376</sup>