

6801

~~Add~~

IMPORTANT

PAGE 24 WAS ADDED

IT IS NOT A PAGE IN THE REPORT

IT SHOWS INFORMATION

FROM ORIGINAL DOCUMENT

MISSING FROM THE SCAN

OF PAGE 23

Form 504 U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT	
Type of Survey	Hydrographic
Field No.	1-b
Office No.	H6801
LOCALITY State <u>Maine</u> General locality <u>Kennebec River</u> Locality <u>Bluff Head to Doubling Point</u>	
<u>194 2</u> CHIEF OF PARTY <u>C.D.Meaney</u>	
LIBRARY & ARCHIVES DATE <u>June 9, 1943</u>	

6801

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. H6801

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. 1 (b)

Field No. H-6801

H6801

State MAINE

General locality KENNEBEC RIVER

Locality Bluff Head to Doubling Point

Scale 1-5,000 Date of survey May - October, 1942

Instructions dated May 7, 1944
March 11, 1942.

Vessel LYDONIA

Chief of party C.D. Meany

Surveyed by Ship's Officers

Soundings taken by fathometer, graphic recorder, ~~hand level, etc.~~

Protracted by L.L. Lawrence

Soundings penciled by L.L. Lawrence

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

REMARKS: This sheet was protracted and the soundings penciled at the Norfolk Processing Office.

H5801

DESCRIPTIVE REPORT
to accompany
HYDROGRAPHIC SHEETS

FIELD NUMBER 1
FIELD NUMBER 2
FIELD NUMBER 3

Instructions

The authority for this survey is contained in the following:

Proj. 265

Supplemental Instructions	March 11, 1942
Supplemental Instructions	May 16, 1942 (currents)
Supplemental Instructions	June 15, 1942
Supplemental Instructions	Jan. 16, 1942 (currents)
Outline of areas to be dragged	July 10, 1942 (wire drag)
Field Work	September 14, 1942

SURVEY METHODS

Hydrography of the Kennebec River and the approaches to the river, executed in accordance with the Director's Instructions listed above was controlled by three-point fixes on U. S. Engineers and U. S. Coast and Geodetic Survey triangulation stations and topographic stations located during 1942 by graphic control from these stations.

Submarine Signal Corporation 808 Depth Recorders mounted in Launches 79 and 82 were used for sounding. In general, bar checks were very difficult to observe in the Kennebec River because currents are very strong and the current at different depths during certain stages of the tide seems to be setting in different directions. Current observations indicate that during slack water on the surface there is a current near the bottom. To furnish additional information a midchannel sounding line was run with the LYDONIA. A Dorsey No. 1 fathometer was used for sounding from the vicinity of Parker Flats to the vicinity of Bath. Additional comparisons between 808 Depth Recorder soundings and Dorsey Fathometer soundings were observed on Sheet 3 and near the junction of Sheet 3 and Sheet H-6730. (1941)

To furnish additional information for correcting soundings several serial temperatures were observed in the Kennebec River. The lowest specific gravity observed in the Kennebec River was 1.0032, the highest specific gravity observed was 1.0229. The average specific gravity observed in the Kennebec River is approximately 1.01.

HYDROGRAPHY

Launch hydrography on these sheets was executed by Lieut. Wilbur R. Porter in charge of Launch 82 and Lieuts. C. A. George and H. G. Conerly in charge of Launch 79.

CHANNELS

Entering, leaving or navigating the Kennebec River is dangerous during heavy fog. The channels are very narrow and the currents are strong. Whirlpools form in many parts of the river. Large ships have difficulty in making turns into and out of Fiddlers Reach. The planned removal of Fiddler Ledge will provide more room for making this turn when completed.

A ship, the size, speed and draft of the LYDONIA, may be safely navigated in the entrance to the Kennebec River whenever visibility at the entrance to the river is one mile and in the Kennebec River to Bath, Maine, whenever the shoreline is visible along the river.

Winnegance Creek:

A narrow winding channel with a controlling depth of 3 feet extends south and west of the Kennebec River from its west junction with Fiddler Reach to Winnegance.

WIRE DRAG GROUNDINGS

Wire drag groundings are the subject of a separate report of the wire drag sheets of the Kennebec River and approaches executed in 1942 by a subparty under Lieut. Clarence R. Reed.

*No groundings
on present survey*

GEOGRAPHIC NAMES

Geographic names is part of a report to be submitted by Lieut. H. O. Fortin in connection with the air photo inspection of this area.

SCALE

The scale of the boat sheets is 1:10,000. The scale of the smooth sheets of the Kennebec River is 1:5,000.

There are two navigation charts of the Kennebec River, numbers 314 and 230. Chart 314 is on a scale of 1:40,000

and shows the approaches to the Kennebec River to Latitude 44°00.3' and part of Merrymeeting Bay. Chart 230 shows a part of the Kennebec and Sasanoa Rivers in the vicinity of Bath on a scale of ~~1:20,000~~ and Boothbay Harbor on the same scale.

RECOMMENDATION

It is recommended that when a new chart of the Kennebec River is published that careful consideration be given to changing the scale from 1:40,000 to 1:20,000. ✓

TRACINGS

Tracings showing buoy locations and preliminary shoal depths found and reported during the field season are attached to the boat sheets. ✓

Overlay tracings of field soundings have also been attached to the boat sheets.

ADDENDUM TO ACCOMPANY

H6801

HYDROGRAPHIC SHEET NO. H-6801 (Field 1b)

The descriptive report for H-6800 and H-6801 ^{was} ~~is~~ combined with the descriptive report for sheets Nos. H-6802, H-6803, H-6804 and H-6805. We are, therefore, sending this uncompleted combined report with the above two sheets with the request that this report be completed from the information which will be furnished with the addenda for the remaining sheets.

Discrepancies

43°51.⁵⁰ and Longitude 69°47.75'; 16 - 24 A (red).

This line was run by the LYDONIA and appears to be about 5 feet too deep.

Discrepancy difficult to determine on rough bottom.

Latitude 43°52.23' and Longitude 69°47.70'; 59 - 61 j (red).

If the soundings on this line were moved about 10 - 15 m. eastward, they would be in better agreement with the adjacent hydrography.

plotted according to fixes

10 meters N. E. signal BEND; 1 - 3 ~~Meters~~ (red).

shoreline revised

Soundings on this line fall on shore.

Ship LYDONIA Hydrography

Positions 16 - 27 A (red) which falls on Sheets H-6800⁽¹⁹⁴³⁾ and H-6801⁽¹⁹⁴³⁾ are recorded in volume No. 1 for sheets H-6800⁽¹⁹⁴³⁾, H-6801⁽¹⁹⁴³⁾ and H-6802⁽¹⁹⁴³⁾. This volume will be forwarded with sheet H-6802.

Respectfully submitted,

(Sgd.) Isadore M. Zeskind

Isadore M. Zeskind
Associate Cartographic Engineer

Norfolk, Va.
June 7, 1943

Approved and Forwarded

(Sgd.) Paul C. Whitney

Paul C. Whitney
Supervisor, S. E. District

H6801

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. H6801

Records accompanying survey:

Boat sheets ...1.; sounding vols. ^{4 Add. filed with H6800} 3....; wire drag vols. 9...; bomb vols. ...⁰...; graphic recorder rolls ^{17 filed with H6800} 17....; special reports, etc. 9.....

.....

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

Number of positions on sheet	575 approx.
Number of positions checked	200
Number of positions revised	30
Number of soundings recorded	4675
Number of soundings revised (refers to depth only)	9
Number of soundings erroneously spaced	0
Number of signals erroneously plotted or transferred	0
Topographic details	Time 8
Junctions	Time 16
Verification of soundings from graphic record	Time 0

Verification by *R.H. Carstens*..... Total time 9 1/2... Date *July 17, 1943*

Review by *R.H. Carstens*..... Time 17... Date *Sept. 29, 1950*

H6801

Remarks

Decisions

	Remarks	Decisions
1		USGB
2		"
3		438697
4		"
5		"
6		438698
7		"
8		"
9		438697
10		"
11		
12		
13	Location of tide staff	
14	" " "	
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. H-6801

Name on Survey											
	A	B	C	D	E	F	G	H	K		
<u>Maine</u>											1
<u>Kennebec River</u>											2
<u>Bluff Head</u>											3
<u>Morse Cove</u>											4
<u>Fiddler Reach</u>											5
<u>Winnegance Creek</u>											6
<u>Doubling Point</u>											7
<u>Hospital Point</u>											8
<u>Fiddler hedge</u>											9
<u>Lithgow Rock</u>											10
.											11
											12
<u>Bath</u>											13
<u>Phippsburg</u>											14
											15
											16
											17
											18
											19
											20
											21
											22
											23
											24
											25
											26
											27

Names underlined in red approved
by L. Hecht on 9/16/43

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

} No. H **H6801**
No. T

{ received June 12, 1943
registered June 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			
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	R.W.Knox
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✓ R.W.K

TIDE NOTE FOR HYDROGRAPHIC SHEET

June 17, 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 6801

Locality Bluff Head to Doubling Point,
Kennebec River, Maine.

Chief of Party: C. D. Meaney in 1942
Plane of reference is mean low water reading
2.9 ft. on tide staff at Bath
19.5 ft. below B. M. 1
3.2 ft. on tide staff at Phippsburg
19.3 ft. below B. M. 1

Note: The tide reducers are a mean of the tide at Bath and
Phippsburg.

Height of mean high water above plane of reference is 7.2 feet.

Condition of records satisfactory except as noted below:

L. J. Green

Chief, Division of Tides and Currents.

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6801

Field No. 1-b

Maine, Kennebec River, Bluff Head to Doubling Point
Surveyed May - October 1942; Scale 1:5,000
Instructions dated May 7, 1941 and March 11, 1942

Soundings:

808 Fathometer
Dorsey Fathometer

Control:

Three-point fix on shore signals

Chief of Party - C. D. Meaney
Surveyed by - Ship's Officers
Protracted by - L. L. Lawrence
Soundings plotted by - L. L. Lawrence
Verified and inked by - R. H. Carstens
Reviewed by - R. H. Carstens
Inspected by - H. R. Edmonston, October 2, 1943

1. Shoreline and Signals

The shoreline and signals originate with air photographic surveys T-5973 and T-5974 of 1941 and graphic control sheets T-6910 and T-6911 of 1942.

2. Sounding Line Crossings

Satisfactory.

3. Depth Curves

Satisfactory.

4. Junctions with Contemporary Surveys

A satisfactory junction was made with H-6800 (1942) on the north. The junction with H-6802 (1942) on the south will be considered in the review of that survey.

5. Comparison with Prior Surveys

- a. H-639 (1857) 1:10,000
- H-639a (1903) 1:10,000

The present survey is in good agreement with the small-overlap of the 1903 survey. A minimum depth of 7 feet was found on the shoal in Lat. $43^{\circ}53.05'$, Long. $69^{\circ}48.8'$ where the former least depth was 11 feet. In spots close to shore where the gradient is steep there are marked differences in depth between the present survey and the earlier of the prior surveys as, for example, in Lat. $43^{\circ}52.85'$, Long. $69^{\circ}47.83'$ where a prior sounding of 24 feet falls in present depths of approximately 85 feet. These differences are probably due to the displacement of soundings rather than a change in the bottom. The 24-ft. sounding in Lat. $43^{\circ}52.45'$, Long. $69^{\circ}47.75'$ was not considered improved and has been carried forward. The reefs in Lat. $43^{\circ}52.4'$, Long. $69^{\circ}47.8'$ and Lat. $43^{\circ}52.65'$, Long. $69^{\circ}47.8'$ were being removed at the time the survey was in progress and no development was possible in this vicinity. Together with the retained sounding the present survey is adequate to supersede these prior surveys within the common area.

b. H-6811 (1942) W.D.

Present survey depths are in harmony with the effective depths of this wire drag survey.

6. Comparison with Chart 230 (Latest print date 6-23-42)
Chart 314 (" " " 5-27-43)

a. Hydrography

The charted hydrography within the limits of the present survey originates with the previously discussed surveys and with various surveys of the U. S. Engineers which the present survey is adequate to supersede. Prior soundings in the vicinity of Lithgow Rock and Fiddler Ledge should be retained until notice is received that the removal of these rocks has been accomplished. The 6-ft. sounding in Lat. $43^{\circ}53.0'$, Long. $69^{\circ}48.75'$ originates with preliminary soundings of the present survey and should be replaced by the final value.

b. Aids to Navigation

The present survey positions of aids to navigation are in satisfactory agreement with their charted positions and satisfactorily mark the features intended.

200

314

1204

7. Condition of Survey

Satisfactory.

8. Compliance with Instructions for the Project

Satisfactory.

9. Additional Field Work Recommended

After the removal of Fiddler Ledge and Lithgow Rock has been accomplished it would be desirable to run hydrography in the holiday in this vicinity with an effort being made to verify or disprove the 24-ft. sounding retained from H-639 (1857).

Additional development for the purpose of obtaining the least depth on the 24-ft. Dorsey Fathometer sounding in Lat. $43^{\circ}52.53'$, Long. $69^{\circ}47.70'$ is desirable.

10. Superseded Surveys

H-639 (1857) in part
H-639a (1903) " "

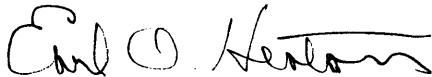
Examined and approved:



Chief, Surveys Branch



Chief, Division of Charts



Chief, Section of Hydrography



Chief, Division of
Coastal Surveys

Partially applied to Chart	230	GR.	11/13/43
"	"	"	11/13/43
"	"	"	11/15/43
applied to reconstruction ch. 230	4/20/45	98E	

Additional work

6801

Additional work

6801

Form 504	
U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	HYDROGRAPHIC
Field No.	Office No. H-6801
LOCALITY	
State	MAINE
General locality	BATH
Locality	KENNEBEC RIVER
1944	
CHIEF OF PARTY	
Wilbur R. Porter	
LIBRARY & ARCHIVES	
DATE	

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.

REGISTER No. H-6801

Field No. _____

State MAINE

General locality BATH

Locality KENNEBEC RIVER

Scale 1/5,000 Date of survey 1944

Instructions dated March 11, 1942, March 11, 1944

Vessel Launch FARIS

Chief of party Wilbur R. Porter

Surveyed by Wilbur R. Porter

Soundings taken by fathometer, graphic recorder, hand lead, wire Fathometer and pole

Protracted by G. K. Emmings Jr.

Soundings penciled by G. K. Emmings Jr.

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

REMARKS: Soundings penciled + Verified + inked in the Washington D.C. Office.

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SURVEY H-6801

Project

The additional work was executed according to supplemental instructions for project C. S. 265 dated March 11, 1944. ✓

Survey Limits

This survey was executed in the Kennebec River to complete the hydrography in the holiday on sheet H-6801, 1942, in the vicinity of Fiddler Ledge and Lithgow Rock; to verify or disprove the 24-foot sounding in Latitude $43^{\circ}52.45'$, Longitude $69^{\circ}47.83'$ carried forward from H-639 and additional development over the 24-foot sounding at Latitude $43^{\circ}52.53'$ and Longitude $69^{\circ}47.70'$. ✓

Hydrography

The survey was accomplished with launch No. 302. Depths were measured with 808 fathometer No. 71-S. The fish was set at 2-1/2 feet. Sounding lines were controlled throughout by sextant fixes taken from a point close by the fish. ✓

Tide and Current Stations

A portable automatic gage was maintained at Bath, Maine, during the entire period of field operations. This gage was used for the reduction of soundings on sheets H-6800 and H-6801 only. ✓

Comparison with Prior Surveys

A least depth of 27 feet (field reduction) was found in the vicinity of the 24-foot sounding in Latitude $43^{\circ}53.45'$, Longitude $69^{\circ}47.83'$. Further reference should be made to the wire-drag survey over this area in August 1944. 26 ft. on H-6980 (1944) W.D. ✓

Further development was accomplished over the 24-ft. sounding in Latitude $43^{\circ}52.53'$, Longitude $69^{\circ}47.70'$ and the soundings verified. No shoaler depth was discovered. Further reference should be made to the wire-drag survey of August 1944. 25 ft. obtained on present survey and on H-6980 (1944) W.D. Accept 25 as least depth. ✓

Tide Note

Tide station "Bath" was located at Lat. $43^{\circ}55.1'$, Longitude $69^{\circ}48.8'$. ✓

Bar Checks

All velocity corrections were obtained from daily bar checks. The curves have been prepared and checked and all velocity reducers entered in the records. ✓

Respectfully submitted,

(Sgd.) Wilbur R. Porter

Wilbur R. Porter
Lt. Comdr. USC&GS
Chief of Party

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. 6801

Records accompanying survey:

Boat sheets 1.; sounding vols. 2.; wire drag vols.;
bomb vols.; graphic recorder rolls 4.;
special reports, etc.
.....

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

Number of positions on sheet	.155.
Number of positions checked
Number of positions revised
Number of soundings recorded	940.
Number of soundings revised (refers to depth only)
Number of soundings erroneously spaced
Number of signals erroneously plotted or transferred	None.
Topographic details	Time
Junctions	Time
Verification of soundings from graphic record	Time 2 hrs.

Verification by J. K. Cummings Total time 88 hrs. Date 12/7/44

Review by J. A. McCormick Time 15 hrs. Date 1/10/45

DIVISION OF CHARTS

Review Section — Surveys Branch

REVIEW OF HYDROGRAPHIC SURVEY REGISTRY NO. 6801 ADDL. WORK
Field No. 1-b

Maine; Kennebec River; Bluff Head to Doubling Point
Surveyed in May 1944, Scale 1:5,000
Project CS-265

Soundings:

808 Fathometer

Control:

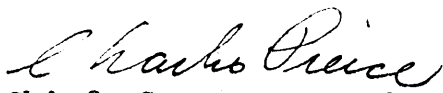
Three-point fix on shore signals

Chief of Party - W. R. Porter
Surveyed by - W. R. Porter
Protracted by - G. K. Emminizer, Jr.
Verified and inked by - G. K. Emminizer, Jr.
Reviewed by - J. A. McCormick
Inspected by - H. R. Edmonston, January 10, 1945.

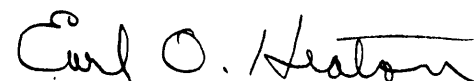
Dredging by the U. S. Engineers in 1942 in the vicinity of Fiddler Ledge prevented a complete survey of the area in that year. The holiday was very satisfactorily filled in in 1944. Inspection of overlapping work of the two years led to the decision to accept that of 1944 entirely. A 24 foot sounding obtained in lat. $43^{\circ}52.53'$, long. $69^{\circ}47.70'$ in 1942 was rejected in favor of 25 foot depths obtained in the additional work and on H-6980 (1944) W.D. A 24 foot depth carried forward to the original survey in lat. $43^{\circ}52.45'$, long. $69^{\circ}47.75'$ from H-639 (1857) is considered disproved by the additional work and by the wire drag. Least depth in the vicinity is accepted as 26 feet (wire drag).

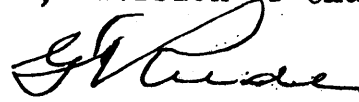
After-dredging surveys of June to August 1943 by the U. S. Engineers (blueprints 37754 and 37755) are considered superseded by the additional work. Their least depths exceed those of the present work by 1 to 2 feet.

Examined and approved:


~~Chief~~, Surveys Branch


Chief, Division of Charts

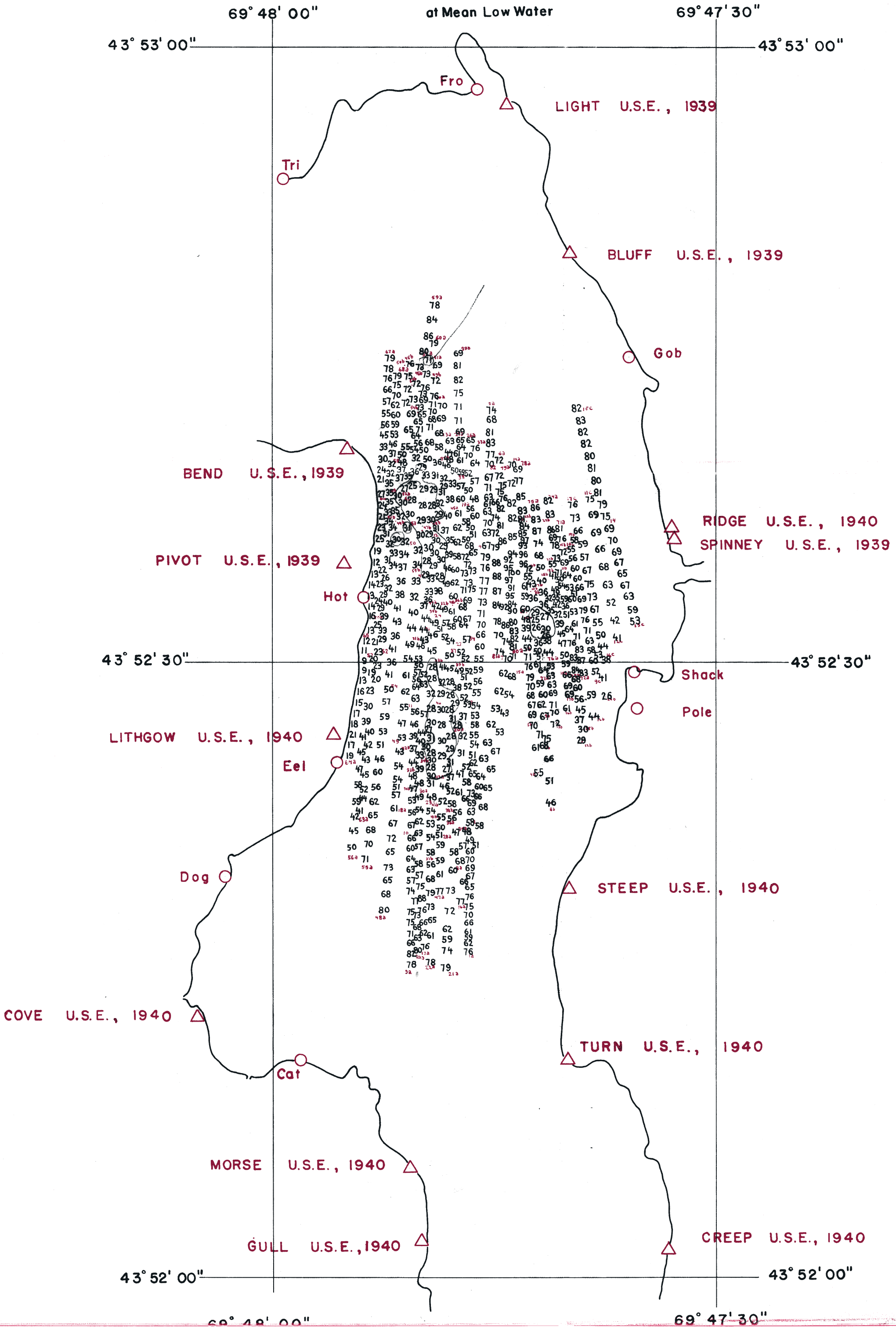

Chief, Section of Hydrography


Chief, Division of Coastal
Surveys

MAINE
KENNEBEC RIVER

Date of Survey May - ~~1941~~⁴, 1942
Scale 1 : 5,000
Chief of Party W.R. Porter
Surveyed by W.R. Porter

SOUNDINGS IN FEET
at Mean Low Water

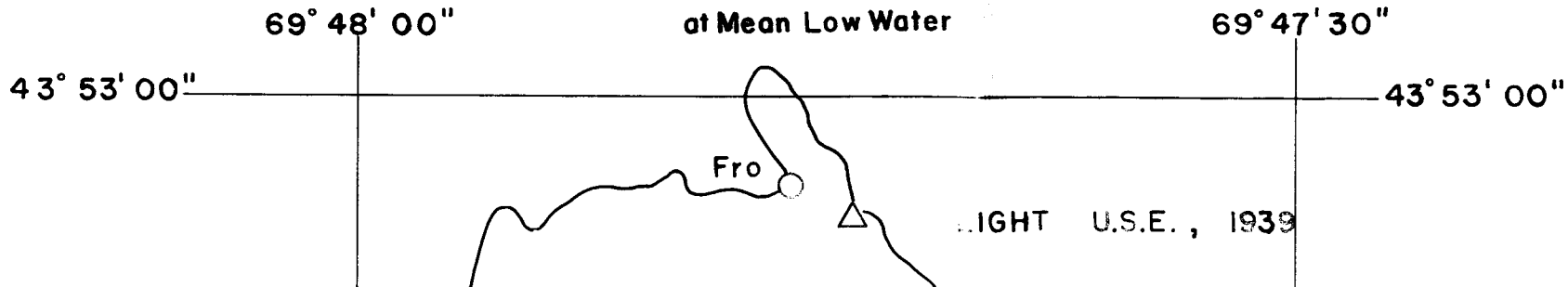


ON ORIGINAL DOCUMENT
NOT ON PAGE 23 SCAN

ADDITIONAL WORK
HYDROGRAPHIC SURVEY No. 6801
MAINE
KENNEBEC RIVER

Date of Survey May - ~~20~~⁴ 194~~2~~
Scale 1 : 5,000
Chief of Party W.R. Porter
Surveyed by W.R. Porter

SOUNDINGS IN FEET
at Mean Low Water



applied to reconstruction ch. 230 4/20/45 JHE
" " " " 314 (thru 230) - Everett