

6802

6802

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. 2-a Office No. H6802

LOCALITY

State Maine

General locality Kennebec River

Locality Parker Bluff
~~Silbest~~ Head to ~~Parker~~ Head

1942

CHIEF OF PARTY

G. D. Meaney

LIBRARY & ARCHIVES

DATE June 9, 1943

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-6802

Field No. 2 a

State MAINE

General locality KENNEBEC RIVER

Locality Parker Bluff
~~GILBERT~~ HEAD TO ~~PARKER~~ HEAD

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

Instructions dated March 11, 1942

Vessel LYDONIA

Chief of party C. D. Meaney

Surveyed by LYDONIA
Ship's Officers

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

Protracted by A. Kaupa

Soundings penciled by A. Kaupa

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

REMARKS: This sheet was processed
at the Norfolk Processing Office

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SHEET

NO. 6802

INSTRUCTIONS:

The authority for surveys of this area are contained in the following:

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 & 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) H-6804 (1942)

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. ✓

CHANNELS:

During 1942 current observations were made at stations listed below:

Midchannel west of Bluff Head ✓
Anchorage on west side of the channel southwest of Crow Island

The records of these observations were submitted to the Director during the field season. Currents approaching 3.5 knots were observed during the summer. During spring thaws the currents are probably much stronger. ✓

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. ✓

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. ✓

Back River:

A hydrographic survey of Back River for two miles north of its junction with the Kennebec River was executed. The controlling depth of the Back River surveyed is 7 feet. ✓

ANCHORAGES:

The main anchorages on the Kennebec River are in 8 fathoms west of midchannel, 0.4 of a mile north of Carlton Bridge, on H-6800, ⁽¹⁹⁴²⁾ and in 4 fathoms 0.3 of a mile southwest of Crow Island and east of the range of can buoy 1C and Phippsburg Church. ✓

GEOGRAPHIC NAMES:

Geographic names is part of a report to be submitted by Lt. 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. ✓

Respectfully submitted,

C. D. Meaney,
Lieut. Comd'r. C&GS.

Copy of combined report which was signed by C. D. Meaney. ✓

STATISTICS

HYDROGRAPHIC SHEET NO. 6802 & 6803

U. S. C. & G. S. LYDONIA - C. D. MEANEY, COMD'R.

Launch 79 - Lt. H. G. Conerly, In Charge

Vol. No.	Date 1942	Day Letter	No. of Positions	Statute Miles
I	5/15	a(blue)	128✓	10.6
I	5/18	b	101✓	9.6
II	5/18	b	73✓	7.4
II	5/19	c	143✓	12.1
III	5/20	d	24✓	2.9
III	5/22	e	94✓	6.9
III	5/25	f	84✓	8.4
IV	5/25	f	58	5.5
IV	5/26	g	127	14.4
V	5/27	h	103	8.7
V	5/28	j	99	9.0
VI	5/28	J	76	6.8
VI	5/29	k	126	11.2
VII	5/29	k	71	7.2
VIII	6/4	l	117	7.8
VIII	6/5	m	104	9.7
IX	6/5	m	8	0.9
IX	6/8	n	154	14.7
IX	6/9	p	41	3.0
X	6/9	p	159	13.1
X	6/10	q	56	4.9
XI	6/10	q	187	14.7
XI	6/12	r	85 ³⁰	8.3
XII	6/12	r	113	10.8
XII	6/16	s	20	2.9
XIII	6/30	t	59	4.9

Launch 79 - Lt. Clarence A. George, In Charge

XIII	10/12	u	42	4.0
XIII	10/13	v	45	4.0
Total			<u>42</u> 2497	224.4

Dinghy - Lt. John H. Brittain, In Charge

I	10/13	a(red)	39	3.0
---	-------	--------	----	-----

Launch 103 - Lt. Dale E. Sturmer, In Charge

I	10/13	a(green)	19	Bottom specimens
---	-------	----------	----	------------------

Vol. No.	Date 1942	Day Letter	No. of Positions	Statute Miles
-------------	--------------	---------------	---------------------	------------------

LYDONIA - Lt. Comdr. C. D. Meaney, Comd'g.

I	6/12	A(red)	27	5.0
---	------	--------	----	-----

This is a sounding line run on sheets 1 and 2 on the Kennebec River to check 808 depth recorder soundings with Dorsey number one fathometer soundings.

Total Sheet 2	2582 ²⁵¹⁸	232.4
---------------	---------------------------------	-------

Surveys Section (Chart Division)

H 802

HYDROGRAPHIC SURVEY NO.

Records accompanying survey:

Boat sheets ..1.; sounding vols. 16...; wire drag vols. .0...;
 bomb vols. ...0.; graphic recorder rolls .20...;
 special reports, etc. .none.....

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

Number of positions on sheet	1906..
Number of positions checked	.54..
Number of positions revised	..9..
Number of soundings recorded	18,995
Number of soundings revised (refers to depth only)	..16..
Number of soundings erroneously spaced	..12..
Number of signals erroneously plotted or transferred	..4..
Topographic details	Time .14 hrs.
Junctions	Time ..8 hrs.
Verification of soundings from graphic record	Time

Verification by.. *Lesay King*.... Total time 2.05 hrs. Date *Oct. 26. 43*

Review by .. *J.A.M^cCormick*..... Time 16 hrs Date *Nov. 3, 1943.*

H6802

	Remarks	Decisions
1		U.S.G.B.
2		437697 "
3		
4		"
5		438697
6		"
7		"
8		"
9		438698
10		"
11		
12		
13		
14		
15	Location of tide staff	438698 U.S.G.B.
16	"	437697
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES
Survey No. **H6802**

H6802
Name on Survey

Name on Survey	Sources											No.
	A	B	C	D	E	F	G	H	K			
<u>Maine</u>												1
<u>Kennebec River</u>												2
<u>Gilbert Head</u>												3
<u>Parker Head</u>												4
<u>Bluff Head</u>												5
<u>Back River</u>												6
<u>Bald Head</u>												7
<u>Fisher Eddy</u>												8
<u>Lee Island</u>												9
<u>Drummore Bay</u>												10
												11
												12
												13
												14
<u>Phippsburg</u>												15
<u>Fort Popham</u>												16
												17
												18
												19
												20
												21
												22
												23
												24
												25
												26
												27
												M 234

Names underlined in red approved
by L. Heck on 11/8/43

RAC
MRE

TIDE NOTE FOR HYDROGRAPHIC SHEET

September 24, 1943

~~Division of Hydrography and Topography:~~

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

Plane of reference approved in
16 volumes of sounding records for

HYDROGRAPHIC SHEET 6802

Locality Kennebec River, Gilbert Head to Parker Head, Maine

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

Height of mean high water above plane of reference is 8.0
feet at Phippsburg; 8.3 feet at Fort Popham.

Condition of records satisfactory except as noted below:

E. K. Green

Chief, Division of Tides and Currents.

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT
 PHOTOSTAT OF

} No. H **H6802**
 } No. T

{ received Sept. 18, 1943
 { registered Sept 18, 1943
 { verified Oct. 26, 1943
 { 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
----	------------

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6802

Field No. 2a

Maine; Kennebec River; Parker Head to Bluff Head
Surveyed May - October 1942, Scale 1:5,000
Instructions dated March 11, 1942 (Project C.S. 265)

Soundings:

808 Recorder

Control:

Three-point fix on shore signals

Chief of Party - C. D. Meaney
Surveyed by - LYDONIA'S OFFICERS
Protracted by - A. Kaupa
Soundings plotted by - A. Kaupa
Verified and inked by - L. King
Reviewed by - J. A. McCormick
Inspected by - H. R. Edmonston, November 3, 1943

1. Shoreline and Signals

Shoreline and topographic signals are from topographic maps T-5972 and T-5973 and from graphic control surveys T-6910 and T-6911 of 1942.

2. Sounding Line Crossings

Satisfactory.

3. Depth Curves

Satisfactory.

4. Adjoining Surveys

Satisfactory junctions were effected with H-6801 (1942) on the north and H-6803 (1942) on the south.

5. Previous Surveys

H-639 (1857), 1:10,000; H-776 (1862), 1:10,000

Major differences between old and new surveys are in the intensity of development and the control of sounding lines.

Cross channel lines on H-639 tended to exaggerate the shoaler areas. Times were not recorded for intermediate soundings and it is probable that they were taken as fast as the leadsman could haul his line. On the plotted sheet, soundings ranging from 1 to 51 feet were spaced at equal intervals. Typical examples on H-639 are the 2-foot depth (charted) in Lat. $43^{\circ}50.0'$, Long. $69^{\circ}47.95'$ and the 10-foot depth (charted) in Lat. $43^{\circ}50.64'$, Long. $69^{\circ}47.45'$. A zero sounding (charted as a rock awash) in Lat. $43^{\circ}51.18'$, Long. $69^{\circ}47.48'$ on H-639 can also be disregarded but partly because of natural changes in its vicinity. Other areas which appear to have changed somewhat are Back River and Drummond Bay.

The old surveys can be considered completely superseded in this entire area.

6. Comparison with H-6799 (1942) W.D.

Groundings of the wire drag were consistent with the soundings of the present survey. Effective depths in the main channel ranged between 27 and 32 feet. The drag scraped constantly along the edges but conflicts between drag depths and soundings were few and unimportant.

7. Comparison with Chart 314 (Print of May 27, 1943)

Principal sources of hydrography charted in this area are superseded surveys covered in Par. 5 and U. S. Engineers' 1941 surveys filed as blueprints 37010 and 37011. None of the information on the Engineers' surveys need be retained.

Chart Letter 355 of 1942 is authority for depths of 6 feet in Lat. $43^{\circ}50.88'$, Long. $69^{\circ}47.83'$; 6 feet in Lat. $43^{\circ}50.52'$, Long. $69^{\circ}47.52'$ and 4 feet in Lat. $43^{\circ}47.26'$, Long. $69^{\circ}47.36'$. These are preliminary depths reported by the present field party and are superseded by final depths of 7 feet, 7 feet and 5 feet on the smooth sheet.

All survey positions of floating aids differ slightly from the positions charted. The nun buoy in Lat. $43^{\circ}48.1'$, Long. $69^{\circ}47.1'$ could be shifted slightly to better mark the entrance to Back River. Better locations also could be found for most of the others. Indian Point Beacon (Lat. $43^{\circ}50.6'$, Long. $69^{\circ}47.8'$) was removed from the chart by authority of H.O.N. to M. 22 of 1943.

8. Compliance with Project Instructions

Satisfactory.

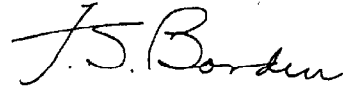
9. Additional Field Work Recommended

None.

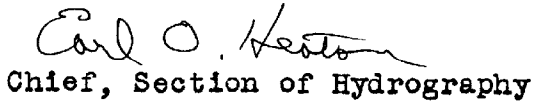
Examined and approved:



Chief, Surveys Branch



Chief, Division of Charts



Chief, Section of Hydrography



Chief, Division of
Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. H 6802

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6/27/45	230 238	<i>ghe</i>	Before After Verification and Review
	Reconst 314	<i>Everett</i>	Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			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 Cht. 1204 (before verification & review)
Oct. 1, 1943 K.P.

" " " Cht. 314 (before verification & review)
Oct. 28, 1943 K.P.

applied to Recmat. ch. 230 5/5/45 GHE

" " New chart 238 6/27/45 GHE