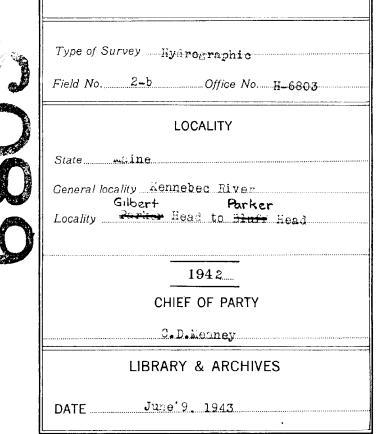
6803

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT



B-1870-1 (1)

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-6803

Field No. 2 b MA INE State KENNEBEC RIVER General locality PALKER HEAD TO BILLIFE HEAD Gilbert Head to Parker Head Date of survey May - October, 1942 1-5,000 Scale March 11. 1942 Instructions dated ____ LYDONIA Vessel C.D. Meaney Chief of party Ship's Officers Surveyed by Soundings taken by fathometer, graphic recorder, handkleadxxvixx Protracted by A. Kaupa Soundings penciled by A. Kaupa MLW KMXXXX fathams feet at Soundings in REMARKS: This sheet was processed at the Norfolk Processing Office.

U. S. GOVERNMENT PRINTING OFFICE 428975

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SHEET

NO. 6803

INSTRUCTIONS:

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

March 11, 1942 < Supplemental Instructions Supplemental Instructions

May 16, 1942 (currents) June 15, 1942 Supplemental Instructions

Supplemental Instructions

Jan. 16, 1942 (currents) Outline of areas to be dragged July 10, 1942 (wire drag)

Field Work

September 14, 1942

SURVEYS 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 hear the junction of Sheet 3 and Sheet H-6730.

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 Lts. C. A. George and H. G. Conerly in charge of Launch 79.

CHANNELS:

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.

Channel Kennebec River to Mill Pond:

A channel about 0.2 of a mile south of Parker Head with 2 feet of water leads west from the Kennebec River to a dam at Mill Pond. Breaches have developed in the dam in two places and a small boat can enter Mill Pond through these breaches at high water.

The channel from the Kennebec River to the dam at Mill Pond is marked during the summer with branches of trees set in the shoal banks of the channel by local residents.

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.

right

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 2 6802 + 6803

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

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

Vol.		Date 1942	Day Letter	No. of Positions	Statute Miles
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		5/15 5/18 5/19 5/20 5/25 5/25 5/26 5/28 5/28 5/28 5/29 5/29 6/5 6/5 6/10 6/12 6/16 6/10 6/12	a(blue) b c d e f f g h j k k l m n p p q q r s t	128 101 73 143 24 94 84 58 127 103 99 76 126 71 117 104 8154 41 159 56 187 8550 113 20 59	10.6 9.6 7.4 12.1 2.9 6.9 8.4 5.5 14.4 8.7 9.0 6.8 11.2 7.8 9.7 0.9 14.7 3.0 13.1 4.9 14.7 8.3 10.8 2.9 4.9
	Launch	79 - Lt.	Clarence	A. George,	In Charge
XIII		10/12 10/13	u V	42 45	4.0 4.0
		То	tal	24 4 2 2 497	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. Date Day No. of Statute No. 1942 Letter Positions Miles

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

I 6/12 A(red) 27

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 2502 232.4

5.0

Surveys Section (Chart Division) H 6803 HYDROGRAPHIC SURVEY NO.

Records accompanying survey: Note: Boat Sheet, Soundings & Fath. rolls are filed with H6802 Boat sheets .1; sounding vols15.; wire drag vols;							
bomb vols. Q; graphic recorder rolls 20;							
special reports, etc. nore							
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The following statistics will be submitted rapher's report on the sheet:	with the cartog-						
Number of positions on sheet	. 612.						
Number of positions checked	40.						
Number of positions revised	2.						
Number of soundings recorded	6,241. approx.						
Number of soundings revised (refers to depth only)	. 20						
Number of soundings erroneously spaced	. 48						
Number of signals erroneously plotted or transferred							
Topographic details Time	7						
Junctions Time	. 1/2						
Verification of soundings from graphic record Time	5						
Verification by	. 80. hrs. Date 10:19:13						
Review byJ.A.M. Cormick Time	.11hrs. Date .11/3/43.						

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MEMORANDUM IMMEDIATE ATTENTION

		Trecon		received Sept. 18, 1943
SURVEY DEPORT	No. H	H6803	J	registered Sept. 18,1943 verified
DESCRIPTIVE REPORT > PHOTOSTAT OF	No. T		1	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
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RETURN TO

82 R.W. Knox

FORM 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. June 1937

TIDE NOTE FOR HYDROGRAPHIC SHEET

September 24, 1943

Division of Hydrography and Topography:

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

Plane of reference approved in 16 volumes of sounding records for

HYDROGRAPHIC SHEET 6803

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:

Chief, Division of Tides and Currents.

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DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6803

Field No. 2-b

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

Soundings:

Control:

808 Recorder

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 - P. H. Andros Reviewed by - J. A. McCormick Inspected by - H. R. Edmonston, November 3, 1943

1. Shoreline and Signals

Shoreline and topographic signals are from topographic map T-5972 and graphic control survey T-6911 (1942).

2. Sounding Line Crossings

Satisfactory.

3. Depth Curves

Satisfactory.

4. Adjoining Surveys

A satisfactory junction was effected with H-6802 (1942) on the north. The survey on the south had not been received from the field at this writing.

5. Previous Surveys

H-552 (1856-57), 1:10,000; H-639 (1857), 1:10,000; H-971 (1868), 1:10,000

Changes in the area have been confined mostly to the

back waters and sloughs. Differences between old and new surveys in the river proper appear to be mostly a matter of less development and less accurate methods on the older work. Cross channel lines on H-639 tended to exaggerate the extent of the shoaler depths. For example, the 1-ft. sounding (charted) in Lat. 43°47.03', Long. 69°47.04' on H-639 is one of seven soundings ranging from 1 to 6 feet, all of which probably were obtained within the limits of the shoal spit shown on the present survey. The old surveys are superseded entirely in the common area.

6. Wire Drag Surveys

H-6780 (1942), H-6799 (1942)

The main channel was dragged to effective depths ranging from 27 to 31 feet. This resulted in scraping bottom at several places along the 30-ft. curve. In Lat. 43°46.7', Long. 69°47.3' there is a decided conflict between Recorder depths of 26 and 27 feet and effective drag depths of 28 and 31 feet on H-6799. With such strong currents as referred to in the descriptive report it is probable that the drag was towed well up on the shoal before its progress was noticeably impeded.

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

Principal sources of hydrographic material charted in the area are the superseded surveys discussed in Par. 5 and the U. S. Engineers' 1941 survey on B.P. 37011. The Engineers' survey affords no information which need be retained and can also be considered superseded.

Several depths are charted from Letters 355 of 1942 and 69 of 1943, reports from the present field party of preliminary depths scaled from the boat sheet. Notable are the 6-ft. depth charted in Lat. 43°46.89', Long. 69°47.22' and the 32-ft. depth charted in Lat. 43°46.25', Long. 69°47.10'. They are superseded by depths of 7 and 30 feet in slightly different positions on the smooth sheet.

Charted positions of the two floating aids in the area differ slightly from the positions determined on the survey. The Engineers' project depth of 27 feet is attained by favoring the can buoy on the

west side of the natural channel. Depths of 25 and 26 feet control for a distance of 200 meters on the channel side of the nun buoy marking the 7-foot shoal in Lat. 43°46.85', Long. 69°47.23'.

- 8. Compliance with Project Instructions
 Satisfactory.
- 9. Additional Field Work Recommended
 None.

Examined and approved:

Chief, Surveys Branch

End O. Heaton

Chief, Division of Charts

Chief, Section of Hydrography

Chief, Division of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. H 6803

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6/28/45	238	GyE	Before After Verification and Review
1945-6	Reconst 314	Everett	After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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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

... 314 (before verification & review)
Oct. 28,1943 X.P.