

# 6961

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Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Hydrographic
Field No.	Office No. H-6961
LOCALITY	
State	Maine
General locality	
Locality	Androscoggin River
194 4	
CHIEF OF PARTY	
W. R. Porter	
LIBRARY & ARCHIVES	
DATE	JUN 15 1945

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. H-6961

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-6961

Field No. \_\_\_\_\_

State Maine ✓

General locality \_\_\_\_\_

Locality ANDROSCOGGIN RIVER ✓

Scale 1:5,000 Date of survey May 11 - August 22, 1944 ✓

Instructions dated March 11, 1942 and March 11, 1944

Vessel Launch FARIS - Catamaran ✓

Chief of party W. R. Porter ✓

Surveyed by W. R. Porter ✓

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

Protracted by Mary Miller

Soundings penciled by Mary Miller

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

REMARKS: This sheet was processed in the Hydrographic Section, S. E. District,  
Norfolk, Va.

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET H-6961

Scale 1:5,000

NOTE:

The following descriptive report was written from a combined report for sheets H-6800, 6801 (1944), 6959, 6960 and 6961 submitted by the field party and supplemented by information obtained at this office.

PROJECT:

This survey is part of Project CS-265 and was executed under Instructions dated March 7, 1942, Supplemental Instructions dated March 11, 1942 and March 11, 1944, and letter - Triangulation data - Kennebec River and Merrymeeting Bay (reference, 22/MEK and 1995 FA 4) dated May 3, 1944. (see H-6959)

SURVEY LIMITS & DATES:

This sheet joins H-6960 in the Androscoggin River and extends to Brunswick, Maine.

Field work was begun on May 11, 1944 and was completed on August 22, 1944.

VESSELS & EQUIPMENT:

This survey was conducted from the Launch FARIS which based at Bath, Me. A catamaran was used throughout the survey. The party was transported by truck from Bath, Me., to the catamaran which was moored at Brunswick, Me.

The catamaran was assembled from the 14 foot dinghy assigned to the Launch FARIS and the 16 foot skiff assigned to the Launch WAINWRIGHT. The catamaran was powered by one 9½ h.p. and one 3½ h.p. outboard motor.

TIDE & CURRENT STATIONS:

Automatic portable tide gages were maintained as follows:

<u>Name of Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Area for reducers</u>
Pt. Pleasant	43° 57.08'	69° 53.21'	To Latitude 43° 55.2'
Brunswick	43° 55.29'	69° 57.74'	To Brunswick, Me.

No current stations were established.

CONTROL STATIONS, SHORELINE & TOPOGRAPHY:

The control for this survey was gotten from airphoto compilations,

pictures and sextant cuts and fixes. No triangulation stations appear on this survey.

The shoreline for the area is thickly wooded and very similar in appearance throughout. The majority of the islands are wooded and covered with brush and grass with rather indefinite points and edges. Consequently, considerable difficulty was encountered in identifying many signals picked on the air photo map drawings, especially those described simply as point of marsh, bush, tree, point of island, end of dock and group of cedars. Winter storms and ice change the marsh and brush lines considerably. A particular brush or tree is often very difficult to spot in an area covered with brush and trees. The majority of docks are temporarily erected for the summer or hunting seasons and were not in place at the time of this survey. Many buildings back from the waters edge are not visible from any point accessible by boat or sufficiently visible for hydrographic purposes. Many objects suitable for signals either did not show well in the photograph or were not picked for use.

28

The low water line was determined throughout this survey as far as possible. On steep slopes the low water line could not be located. In some instances, it could not be determined due to heavy grass and kelp which prevented sounding without undue loss of time.

SOUNDINGS:

Depths were measured with the 808 Fathometer No. 71 S throughout this survey. A few lines of pole soundings were run. A pole sounding was obtained on each fix in very shoal area and in areas of kelp and grass as a verification of the fathometer sounding.

The fish was set at eighteen inches on the catamaran and at 2½ ft. on Launch 102.

CONTROL OF HYDROGRAPHY:

Sounding lines were controlled throughout by sextant fixes taken from a point close by the fish or by reference to signals when very near them.

ADEQUACY OF SURVEY:

This survey is considered complete and adequate to supersede prior surveys for charting purposes. Junctions with previous surveys are good. No holidays are left other than those noted on the boat sheets as covered with heavy grass that could not be sounded by boat.

See Rev. Pa. 3 & 7

CROSSLINES:

Approximately ten percent of the lines are cross lines. In general, the crossings appear to be in good agreement.

COMPARISON WITH PRIOR SURVEYS:

Local residents claim that heavy storms and winter ice change the shoals and depths in Androscoggin River. There has been no modern survey of this area.

There is no through channel through Merrymeeting Bay to the Androscoggin River, though, if buoyed, about 7 feet could be carried to Brunswick at M.H.W. (25)

The areas noted as "Grass and Kelp" on the smooth sheet can only be crossed at any stage of the tide with difficulty.

DANGERS & SHOALS:

The area in general is shoal throughout. No apparent dangers exist.

COAST PILOT INFORMATION:

It is believed that buoying would be necessary to follow the channel across Merrymeeting Bay to the Androscoggin River.

BAR CHECKS:

All velocity corrections were obtained from daily bar checks.

STATISTICS:

Vol. No.	Day letter	Date	No. Pos.	Stat. Miles
1	a	July 26	1	0.0
1	b	July 29	32	2.8
1	c	Aug. 1	42	3.2
1 & 2	d	Aug. 2	54	3.4
3	e	Aug. 3	126	10.5
2	f	Aug. 4	58	3.8
3 & 4	g	Aug. 7	55	5.5
4	h	Aug. 8	68	6.9
4 & 5	j	Aug. 10	105	7.8
5	k	Aug. 11	128	12.3
5	l	Aug. 12	26	0.4
TOTAL			695	56.6

Total Square Statute Miles = 1.8

DISCREPANCIES:

Attention is directed to the hydrography which plots on shore in the vicinity of Latitude 43° 54.5' and Longitude 69° 55.0'. (28)

Norfolk, Va.  
June 13, 1945

Approved & Forwarded:

Paul C. Whitney  
Supervisor, SE District

Respectfully submitted,

Isadore M. Zeskind  
Isadore M. Zeskind  
Cartographic Engineer

Hydrographic Signals Sheet H-6961

Signals	Origin
Ace	T-5967
Art	T-5966
Ask	T-5967
Asp	Vol. No. 4, page 11
Ban	T-5967
Bea	T-5967 see boat sheet
Boy	Vol. No. 1, page 4
But	T-5967
Cop	T-5966
Cow	T-5967
Dad	T-5966
Dog	Vol. No. 1, page 3
End	T-5967
Eno	T-5967
Eve	T-5967
Fat	T-5967
Fay	Vol. No. 4, page 37
Fen	T-5967
Fox	Vol. No. 1, page 4
Gal	T-5967
Get	T-5967
Grey	T-5967
Hat	T-5967
Hen	Vol. No. 1, page 3
Hep	T-5967 see boat sheet
Hot	T-5967
House	Vol. No. 4, page 11-12
Ike	T-5967
Jan	Vol. No. 4, page 37
Jap	Vol. No. 1, page 4
Jim	T-5967
Jot	T-5967
Kay	Vol. No. 2, page 31
Lim	Vol. No. 1, page 3
Land	T-5967
Lee	Vol. No. 2, page 31
Leo	Vol. No. 1, page 23
Let	Vol. No. 4, page 23
Lone Tree	T-5967
Lou	T-5967
Mal	Vol. No. 2, page 3
Map	Vol. No. 4, page 11
Met	T-5667
Nab	T-5967 see boat sheet
Nel	Vol. No. 1, page 3
Nat	T-5966
Nun	T-5967
Nor	T-5967
Nut	Vol. No. 4, page 37
Oak	T-5967
Oat	T-5967
Pier	T-5967

Signals	Origin
Pil	T-5966
Pop	Vol. No. 1, page 3
Rat	T-5967
Rex	H-5960
Rob	Vol. No. 1, page 5
Run	Vol. No. 4, page 37
Sand	T-5967
Sod	T-5967
Stack	T-5967
Tall	T-5967
Tap	T-5967
Tide	T-5967
Top	Vol. No. 1, page 23
Tre	Vol. No. 4, page 12
Uno	T-5967
Vat	Vol. No. 3, page 53
	Vol. No. 4, page 53
Vic	T-5967
Wat	Vol. No. 4, page 12
Web	Vol. No. 1, page 5
Wet	T-5967 see boat sheet
Wil	T-5967
Xray	T-5967
Yes	T-5967
Zed	T-5967
Zel	T-5966
Zip	Vol. No. 2, page 31

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. .6961...

Records accompanying survey:

Boat sheets .1...; sounding vols. .5...; wire drag vols. ....;  
bomb vols. ....; graphic recorder rolls .9...;  
special reports, etc. ....  
.....

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

Number of positions on sheet		.695..
Number of positions checked		..30..
Number of positions revised		..2...
Number of soundings revised (refers to depth only)		...4...
Number of soundings erroneously spaced		...0...
Number of signals erroneously plotted or transferred		...0...
Topographic details	Time	...6...
Junctions	Time	...3...
Verification of soundings from graphic record	Time	...3...

Verification by *Herbert W. Burgoyne*... Total time .131... Date 7/10/46..

Reviewed by *J. F. Jordan*... Time .18... Date 7/12/46..



GEOGRAPHIC NAMES

Survey No. ...

**H6961**

Name on Survey

On Chart  
No.

On previous survey  
No.

On U. S. quadrangle  
Maps

From local  
information

On local Maps

P. O. Guide or Map

Rand McNally Atlas

U. S. Light List

A

B

C

D

E

F

G

H

K

Androscoggin River

1

Brunswick

2

Cow Island

3

Freyer Island

(Pending with U.S.G.N.)

4

5

6

7

8

9

10

Pleasant Point

(location of one tide staff)

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

22 study filed in red box  
L. Heck on 7/17/46

PRC  
Hum.

TIDE NOTE FOR HYDROGRAPHIC SHEET

19 June 1945

Division-of-Hydrography-and-Topography+

✓ Division of Charts: Attention: H. W. MURRAY

Plane of reference approved in  
5 volumes of sounding records for

HYDROGRAPHIC SHEET 6961

Locality Androscoggin River, Brunswick, Maine

Chief of Party: W. R. Porter in 1944  
Plane of reference is mean low water reading  
1.3 ft. on tide staff at Pleasant Point  
8.3 ft. below B. M. 1  
1.4 ft. on tide staff at Brunswick  
11.9 ft. below B. M. 1

Height of mean high water above plane of reference is 4.7 feet  
at Pleasant Point, 3.8 feet at Brunswick.

Condition of records satisfactory except as noted below:

*E. H. Green*

Chief, Division of Tides and Currents.

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6961

FIELD NO. -----

Maine, Androscoggin River  
Surveyed in May to August, 1944 Scale 1:5,000  
Project No. CS-265

Soundings:

808 Fathometer

Control:

Three-point fixes on shore  
signals

Chief of Party - W. R. Porter  
Surveyed by - W. R. Porter  
Protracted by - M. Miller  
Soundings plotted by - M. Miller  
Verified and inked by - H. W. Burgoyne  
Reviewed by - G. F. Jordan, July 12, 1946  
Inspected by - H. W. Murray

1. Shoreline and Control

Shoreline and control originate with 1:10,000 scale air-photo manuscripts T-5966 and T-5967 of 1943 which were enlarged to the scale of the present survey. Additional control was obtained from sextant cuts and fixes, and from points selected on air photos.

Hydrographic stations in water areas are presumed to be temporary signals.

2. Sounding Line Crossings

Agreement of depths at crossings is generally satisfactory. A  $1\frac{1}{2}$ -ft. discrepancy in 4-ft. depths occurs in mid-channel at lat.  $43^{\circ} 55.19'$ , long.  $69^{\circ} 54.82'$ .

3. Bottom Configuration

The comparatively shallow bottom is broken by innumerable sand and gravel shoals.

Bottom changes occur with heavy storms and winter ice.

Depth curves provide a general delineation of the bottom. Insufficient development prevents continuity or accurate delineation of several curves. Had the 3-ft. curve shown on the smooth sheet been drawn on the boat sheet, the inadequacies would have been more apparent in the field.

4. Junctions

A satisfactory junction down-stream is effected with H-6960 (1944).

The western end of the present survey is the limit of the present project.

5. Comparison with Prior Surveys

The only prior survey in this area is H-790a (1871) on a scale of 1:10,000.

Agreement with the present survey is poor because of changes in bottom caused by storm waters and ice during the 75-years since the survey was made. This survey is superseded except for a rock awash carried forward in lat.  $43^{\circ} 56.39'$ , long.  $69^{\circ} 53.44'$ .

6. Comparison with Chart 1204 (Latest print of April 27, 1946)

No hydrography is charted within the limits of the present survey.

7. Condition of Survey

- a. The sounding records and descriptive report are satisfactory.
- b. The smooth plotting was very good.
- c. The 2-ft. sounding in 6 to 13-ft. depths in mid-channel at lat.  $43^{\circ} 56.21'$ , long.  $69^{\circ} 53.54'$ , was not plotted on the boat sheet and was not investigated. The sounding could indicate the remains of an old bridge pier which was shown here in 1871 (H-790a).

- d. Soundings scaled from the fathograms for boat sheet plotting were apparently scaled without regard for shoaler soundings at odd intervals.

Had these shoaler intermediate soundings been scaled and plotted, the hydrographer would have had a better representation of shoals requiring more investigation.

- e. The field party is to be commended for taking innumerable check soundings with pole while running the fathometer lines in shoal and grassy areas. Pole soundings generally check within 0.3 ft. in 3 to 8-ft. depths.


8. Compliance with Project Instructions

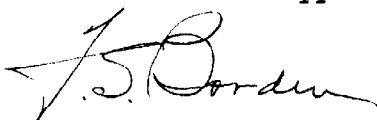
The survey shows a general coverage of the area intended.

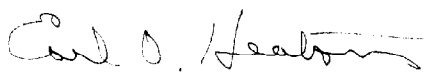
9. Additional Field Work

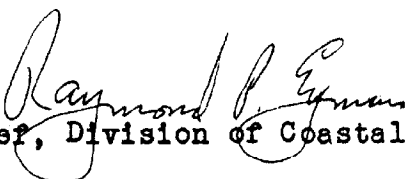
This survey is considered adequate for the purpose intended and no additional work is necessary.

Examined and approved:

  
Chief, Nautical Chart Branch

  
Chief, Chart Division

  
Chief, Section of Hydrography

  
Chief, Division of Coastal Surveys

