

7164

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<p>Form 504</p> <p>U. S. COAST AND GEODETIC SURVEY</p> <p>DEPARTMENT OF COMMERCE</p> <p>DESCRIPTIVE REPORT</p>	
<p>Type of Survey <u>Hydrographic</u></p>	
<p>Field No. <u>PF 1146</u> Office No. <u>H 7164</u></p>	
<p>LOCALITY</p>	
<p>State <u>Alaska</u></p>	
<p>General locality <u>Bristol Bay</u></p>	
<p>Locality <u>Naknek River</u></p>	
<p><u>1946</u></p>	
<p>CHIEF OF PARTY</p> <p><u>R.F.A. Studds</u></p>	
<p>LIBRARY & ARCHIVES</p>	
<p>DATE <u>MAY 27 1947</u></p>	

MAY 27 1947

Form 537
(Ed. Nov. 1941)

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.
H 7164

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-7164 (1946)

Field No. PF 1146

State Alaska ✓

General locality Bristol Bay ✓

Locality Naknek River ✓

Scale 1:10,000 Date of survey Sept. 24-27, 1946 ✓

Instructions dated CS 327 - 20 June 1946

Vessel PATHFINDER

Chief of party R.F.A. Studds

Surveyed by G.E. Boothe

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

Protracted by J.M. Neale

Soundings penciled by L.W. Eason

Soundings in ~~fathoms~~ feet at ~~MLLW~~ MLLW ✓

REMARKS:

Processed in the Seattle Processing Office

H-7164 (1946)

PF-1146

Naknek River, Bristol Bay

Seattle Processing Office Notes

The field work on this sheet is not finished, For this reason, the field party did not prepare a report. The boat sheet was returned to the PATHFINDER for use during the 1947 season. *

The projection is hand made on Whatman paper. Triangulation is by Tribble 1946. Topographic signals and shoreline are from T-7036 of 1946.

Soundings are in feet at MLLW. The controlling depth into the river is ³4 feet at MLLW on the bar 0.4 mile south of Cape Suwarof Light.

For additional information, see Coast Pilot Report by the Chief of Party. It is the intention of the field party to submit a report with the completed field work. Rec'd by C. P. Sec.

The sounding records were re-scanned by the field party and again spot scanned by the Processing Office.

* Refers to extension of project limits, which work has been completed on another sheet which has not yet been received in this office. N.M., 11/25/47

Respectfully submitted,

Edgar E. Smith
Edgar E. Smith
Cartographic Engineer
Seattle Processing Office

H-7164 (1946)
PF 1146

TIDAL NOTE

Naknek River Entrance

Portable Automatic Gage

Latitude 58° 43.32'
Longitude 157° 03.45'

Tide reductions were made from hourly heights furnished by the Washington Office in accordance with the Director's letter 36-McC of 18 December 1946. The tidal information, MLLW on the staff, range, etc., have not been furnished to this party by the Washington Office.

H-7164

PF 1146

Geographic Names

Kvichak Bay

Naknek River

Alaska Peninsula

H-7164 (246)

PF 1146

STATISTICS

<u>Date</u>	<u>Vessel</u>	<u>Day</u>	<u>Stat. Mi. Sdg. Line</u>	<u>Positions</u>
1946 Sept. 24	Launch #3 ✓	a ✓	32.6 ✓	160 ✓
" 25	" ✓	b ✓	32.9 ✓	166 ✓
" 26	" ✓	c ✓	29.4 ✓	147 ✓
" 27	" ✓	d ✓	<u>12.4</u>	<u>62</u>
			107.3 ✓	535 ✓

Area ----- 4 Square Statute Miles

H-7164 (1946)

FATHOMETER CORRECTIONS

820 fms/sec.

808

10 September

-

3 October

1946

FATHOMETER	DEPTH	CORRECTION	SCALE
All	0 - 26 feet	0 feet	A
	26½ - 55 feet	-0.5 "	A
46	35 - 85 feet	+2.0 "	B
59	35 - 59 feet	-1.5 "	B
	59½ - 85 feet	-2.0 "	B
61	35 - 38 feet	+0.5 "	B
	38½ - 74 feet	0 "	B
	74½ - 85 feet	-0.5 "	B
68 & 74 S	35 - 56 feet	-1.0 "	B
	56½ - 85 feet	-1.5 "	B

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7164

FIELD NO. PF-1146

Alaska, Bristol Bay, Naknek River
Surveyed in September, 1946 Scale 1:10,000
Project No. CS-327

Soundings:

Control:

808 Fathometer

Sextant fixes on shore signals

Chief of Party - R. F. A. Studds
Surveyed by - G. E. Boothe
Protracted by - J. M. Neale
Soundings plotted by - L. W. Eason
Verified and inked by - B. G. Williams
Reviewed by - G. F. Jordan, August 25, 1947
Inspected by - H. W. Murray

1. Shoreline and Signals

The shoreline and signals are from planetable surveys T-7036a (1946) and PF-C-46 (Field No.). The shoreline from the latter survey is unverified because the sheet has been retained in the field for completion during the 1947 season.

2. Bottom Configuration and Depth Curves

The bottom is generally smooth except for irregularities in the river channel.

The configuration of the bottom is adequately delineated by the usual depth curves.

3. Sounding Line Crossings

The agreement of soundings at crosslines is very good.

4. Junctions with Adjoining Surveys

Adjoining surveys have not been received.

5. Comparison with Prior Surveys

There are no prior surveys of the area by this Bureau.

6. Comparison with Preliminary chart (unnumbered, Print date February 1, 1947)

a. Hydrography

The hydrography on this chart (Reproduction Branch No. A-3370) was compiled in the field (Bp. 41704) from advance information of the present project.

Hydrography on the completed smooth sheet supersedes charted hydrography.

b. Aids to Navigation

No floating aids to navigation are shown in the area of the present original survey.

7. Condition of the Survey

a. The sounding records are complete and adequate.

b. The smooth plotting was well executed.


c. No bottom characteristics were obtained.

8. Compliance with Project Instructions

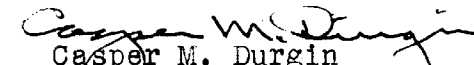
The survey adequately complies with the project instructions except as noted under par. 7c, above.

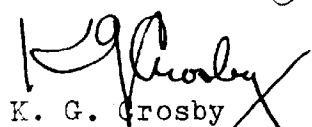
9. Additional Field Work

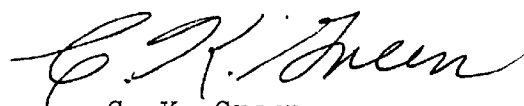
This is a basic survey for the area covered except for the absence of bottom characteristics* No additional field work is recommended at this time.


I. E. Rittenburg
Chief, Nautical Chart Branch

Examined and approved:


Casper M. Durgin
Chief, Division of Charts


K. G. Grosby
Chief, Section of Hydrography


C. K. Green
Chief, Division of Coastal Surveys

* Bottom characteristics were obtained over this area during survey operations of 1948 (H-7639) and have been added to this survey sheet.

GEOGRAPHIC NAMES

Survey No. 15104

Name on Survey	Source										
	A	B	C	D	E	F	G	H	K		
<u>Bristol Bay</u>		(For title only)									1
<u>Naknek River</u>		(location of tide staff)							USOB		2
<u>Kvichak Bay</u>											3
											4
<u>Cape Suvarof</u>									USOB		5
											6
<u>Alaska Peninsula</u>					as defined by USOB decision						7
					as extending from about						8
					lat 59° (Iliamna Lake)						9
											10
											11
											12
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											25
											26
											27

Names underlined by me approved
by L. Heck on 8/27/47

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H7164

Records accompanying survey:

Boat sheets; sounding vols. 11.....; wire drag vols.;
 bomb vols.; graphic recorder rolls 1.....;
 special reports, etc.

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

Number of positions on sheet	.....	535
Number of positions checked	.....	43
Number of positions revised	.....	9
Number of soundings revised (refers to depth only)	.....	9
Number of soundings erroneously spaced	.....	28
Number of signals erroneously plotted or transferred	.....	0
Topographic details	Time	..... 1
Junctions	Time	..... 0
Verification of soundings from graphic record	Time	..... 4

Verification by R. L. Williams Total time 59.. Date 7-30-47..

Reviewed by J. F. Jordan Time 9.. Date 8-25-47..

HUMY

TIDE NOTE FOR HYDROGRAPHIC SHEET

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~~Division of Hydrography and Topography:~~

5 June 1947

Division of Charts: H. W. Murray

Plane of reference approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 7164

Locality - Naknek River, Kwichak Bay, Bristol Bay, Alaska

Chief of Party: R. F. A. Studds in 1946

Plane of reference is mean lower low water, reading
-3.7ft. on tide staff at Naknek River Entrance
29.1 ft. below B. M. 1 (1946)

Height of mean high water above plane of reference is 22.0 feet.

Condition of records satisfactory except as noted below:

E. C. McKay
Section

Chief, ~~Division of Tides and Currents.~~

NAUTICAL CHARTS BRANCH

SURVEY NO. H7164

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
12/22/49	9051	<i>L. H. McGinnis</i>	Before <u>After</u> Verification and Review
2-21-61	8802	<i>S. M. Albert</i>	Before <u>After</u> Verification and Review <i>via ch+9051 no correction</i>
			Before <u>After</u> Verification and Review
			Before <u>After</u> Verification and Review
			Before <u>After</u> Verification and Review
			Before <u>After</u> Verification and Review
			Before <u>After</u> Verification and Review
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			Before <u>After</u> 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.