8049

Diag. Cht. No. 8700

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. SU-2553 Office No. H-8049

LOCALITY

State Alaska

General locality Alaska Peninsula - South Side

Locality Korovin Strait

194 53

CHIEF OF PARTY

A. C. Thorson

LIBRARY & ARCHIVES

DATE May 17, 1955

B-1870-1 (1)

8049

Form 537
(Ed. June 1946)

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-8049

Field No. SU-2553

State Alaska

General locality Alaska Peninsula - South Side

Locality Korovin Strait

Scale 1:20,000 Date of survey 25 July to 24 September, 1953

Instructions dated 8 Mar. 1951; Suppl. Instructions 17 Mar. 1952 and 5 Feb. 1953

Vessel SURVEYOR, Launches No. 1, 3, and 4

Chief of party J. C. Bose, H. J. Healy, A. C. Thorson

Surveyed by J. P. Lushene, A. N. Stewart, J. C. Bull, and F. X. Popper

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

Fathograms scaled by A. N. Stewart, D. H. Konichek, O. H. Quade, J. D. Hodges

Fathograms checked by A. N. Stewart, D. H. Konichek, O. H. Quade, J. D. Hodges

Protracted by Seattle Processing Office H. C. Parsons

Soundings penciled by Seattle Processing Office H. C. Parsons

Soundings in fathoms and tenths ~~XXX~~ at ~~XXXX~~ MLLW and are based on a velocity of sound of 800 fms/sec.

REMARKS:

U. S. GOVERNMENT PRINTING OFFICE 777032

7856

DESCRIPTIVE REPORT to Accompany HYDROGRAPHIC SURVEY H-8049 (1953)
(Field No. SU-2553)

ALASKA PENINSULA - SOUTH SIDE

Scale 1:20,000

J. C. Bose, Chief of Party

USC&GSS SURVEYOR
Launches 1, 3, and 4

A. N. Stewart, J. C. Bull and F. X. Popper, Hydrographers

A. PROJECT.

Original Instructions for Project CS-344, dated 8 March 1951, and Supplemental Instructions dated 7 March 1952 and 5 February 1953 to the commanding officer, were followed.

B. SURVEY LIMITS AND DATES.

This survey includes the waters east of Korovin Island south of latitude 55° 24.5' N and east to longitude 160° 04.5' W; the south side of the island through Gorman and Korovin Straits but not including the inshore area on Andronica Island; the west side of the island and west to longitude 160° 23.0' W; the north side of Popof Island east of longitude 160° 28.0' W and south of latitude 55° 22.0' N.

This survey makes a junction with prior surveys H-8000 (1952) on the east and H-3706 (1914) on the south. TP4 Review

Junctions were also made with contemporary surveys H-8046 (1953) on the north and H-8047 (1953) on the west.

Hydrography commenced on 25 July 1953 and ended 24 September 1953.

C. VESSELS AND EQUIPMENT.

The SURVEYOR and launches 1, 3, and 4 operating from the ship were engaged in this survey.

The SURVEYOR, equipped with Model 808 Depth Recorder No. 128-S, was used for all offshore hydrography.

Launch No. 1, equipped with Model 808 Depth Recorder No. 137-SP, was used for the survey of the bay east of Korovin Bay.

Launch No. 3, equipped with Model 808 Depth Recorder No. 47-S, was used for the inshore hydrography on the east and west side of Korovin Island and the north side of Popof Island east of longitude 160° 25.0' W.

Launch No. 4, equipped with 808 Depth Recorder No. S-110, was used for the survey of Korovin Bay, a few lines on the west side of Korovin Island, and the north side of Popof Island between longitudes 160° 25.0' W and 160° 28.0' W.

The turning radius of the launches is approximately 20 meters at sounding speed and that of the SURVEYOR is about 400 meters.

D. TIDE AND CURRENT STATIONS.

Data obtained from the Sand Point, Shumagin Island, portable tide gage, latitude 55° 20.2' N, longitude 160° 30.1' W, were used without correction for either time or height to reduce all of the soundings on the entire sheet. TG not on sheet

No current stations were occupied.

E. SMOOTH SHEET.

The smooth sheet projection was made by the Seattle Processing Office by hand. The shoreline and topographic detail has not been put on the sheet at the time of this writing because a new radial plot of the area is being made but is not yet available. Applied by Seattle Process. Office

F. CONTROL STATIONS.

The positions of the triangulation stations used for control on this sheet were obtained from the "List of Geographic Positions of Triangulation Stations, Anchorage to Attu Island, Alaska, Volume 5."

Two recoverable topographic stations, Lewd and Bare, were established in this area and were located by field radial plot. Station Bare was not used in the hydrography and Station Lewd was called Lew in the hydrography.

Boat sheet positions of photo-hydro signals used, for the most part, were office-selected points as found on Advance Topographic Manuscripts No. T-8836, (1946) T-11111 and T-11112 of 1953. Twenty photo-hydro signals were field radial plotted on this sheet. Positions are subject to some shifting when the new radial plot of this area is completed.

It was necessary to locate additional hydrographic signals by sextant cuts due to the lack of identifiable points on the photographs.

For a discussion of accuracy of location of control refer to the Photogrammetry Descriptive Report, Ship SURVEYOR, 1953.

All locations are considered accurate for good position location of soundings.

A list of signals used and their source will be found in Volume No. 1.

G. SHORELINE AND TOPOGRAPHY.

The shoreline and topographic details for the boat sheet were obtained from the Advanced Topographic Manuscripts No. T-8836 (1946), T-11111 (1953), and T-11112 (1953). Generally the shoreline and the location of off-lying rocks was very good. A further check should be made upon completion of the smooth sheet.

Shoreline corrected to agree with revised Advance M/S of T-8836 & T-11111

It was impracticable to delineate the low water line on this sheet, except

in the vicinity of the sand beaches because numerous boulders and sunken rocks could not be approached without danger to life and property. TP3 Review

H. SOUNDINGS.

All soundings were taken with Model 808 J Depth Recorders equipped with tachometer reeds calibrated at 800 fathoms per second. Standard methods were followed to obtain the initial, index, phase and tide corrections. Refer to the Fathometer Report, Ship SURVEYOR, 1953. with H-8045

A lead line was used for all drift soundings, obtaining shoal soundings and bottom samples. All soundings obtained with the lead line were recorded to fathoms and tenths.

I. CONTROL OF HYDROGRAPHY.

Standard methods for visual controlled hydrography were used on this sheet.

J. ADEQUACY OF SURVEY.

This survey is complete and adequate to supersede prior surveys for charting.

The junctions with adjoining surveys are satisfactory. All depth curves can be adequately drawn. TP3 Review

No non-standard depth curves were used on this sheet.

K. CROSSLINES.

Approximately seven percent of the lines run were crosslines. An examination of the boat sheet indicates that all crossings are satisfactory and fall within the requirements of Paragraphs 3571 and 771 of the Hydrographic Manual.

The discrepancies at crossings in percentage of the depth can best be found after the reduced soundings are penciled on the smooth sheet. The soundings on the boat sheet were reduced with predicted tides and no fathometer corrections were applied at that time.

L. COMPARISON WITH PRIOR SURVEYS.

Comparison with prior surveys H-3576 (1913), 1:20,000; H-3706 (1914), 1:20,000; and H-3722 (1914) is satisfactory. A few prior soundings seem to be misplaced slightly. TP5 of Review

M. COMPARISON WITH CHARTS.

Comparison with chart 8700 is satisfactory.

N. DANGERS AND SHOALS.

Several shoals were found in previously uncharted areas and shoaler depths were found on shoals already charted. These shoals were all developed and on

the shoalest ones, a hand lead was dropped. The shoals found were not considered dangers due to their least depth and the areas in which they are located. A list of the shoals follows:

In the middle of Korovin Strait between Korovin and Popof Islands a long, narrow shoal extends west and northwest from latitude 55° 22.5' N, longitude 160° 17.6'W to latitude 55° 23.0' N, longitude 160° 21.0' W, then north to latitude 55° 23.5' N. The shoalest depth found was ~~24.9~~ 25.0 fathoms at latitude 55° 22.5' N, longitude 160° 19.6' W. (Between positions 19 and 20 L, Ship SURVEYOR).

Approximately 1.5 miles south of the east entrance to Korovin Bay at latitude 55° 22.3' N, longitude 160° ~~12.9'~~ 13.08', with a least depth of 23.2 fathoms. (Between positions 123 and 124 D, Ship SURVEYOR).

Approximately 1.7 miles south of Cape Devine, Korovin Island at latitude 55° ~~21.0'~~ 20.98' N, longitude 160° 08.8' W, with a least depth of 18.0 fathoms. (Between positions 167 and 168 J, Ship SURVEYOR).

Approximately 1.0 mile southeast of Cape Devine, Korovin Island, at latitude 55° 22.2' N, longitude 160° 07.4' W, with a least depth of 7.3 fathoms. (Position 52 k, launch No. 3).

Approximately 0.7 mile east of Cape Devine, Korovin Island, at latitude 55° 23.2' N, longitude 160° 07.2' W, with a least depth of 9.7 fathoms. (Between positions 113 and 114 e, launch No. 3).

Approximately 0.7 mile south of Henderson Island at latitude 55° 24.4' N, longitude 160° 21.8' W, with a least depth of 11.2 fathoms. (Position 9 m, launch No. 3).

Approximately 0.5 mile offshore in the middle of Korovin Bay, Korovin Island, at latitude 55° 24.4' N, longitude 160° 14.9' W, with a least depth of 5.3 fathoms with the lead line and 5.9 fathoms with the fathometer. (Position 92 f, launch No. 4). (5.3 smooth-plotted.)

The following dangers were verified from prior surveys:

The rocks awash reef approximately 0.2 mile south of Cape Devine, Korovin Island, lat latitude 55° 22.5' N, longitude 160° 09.5' W. (Reference positions 3 to 8 c, launch No. 1, and positions 11, 21 and 31 h, launch No. 3).

Reef bare ~~12~~ 4 feet at MHW, approximately 0.4 mile south-southeast of Henderson Island at latitude 55° 24.7'N, longitude 160° 21.0'W. (Reference positions 57 a, 14 and 15 b, launch No. 3).

Reef bare 5 feet, approximately 0.4 mile north of Andronica Island at latitude 55° 21.0' N, longitude 160° 04.2' W. (Position 137 k, launch No. 3). Other rocks awash shown on H-3713 (1913) and the Advanced Topographic Manuscript T-11112 were not verified. No hydro obtained during present survey in this area.

Generally, all of the shoreline is littered with boulders and sunken rocks and should be considered dangerous.

O. COAST PILOT INFORMATION.

The general description of this area as given in the Coast Pilot, Part II - Yakutat to Arctic Ocean, pages 318 to 320, is satisfactory, and the important dangers to navigation are noted.

Coast Pilot Notes were submitted as a separate report on an area basis on 25 November 1953, and will not be repeated in this report.

P. AIDS TO NAVIGATION.

The Andronica Island Light at latitude 55° 20.8' N, longitude 160° 03.8' W and the Pirate Cove Light at latitude 55° 21.8' N, longitude 160° 21.6' W are located on this sheet. Andronica Island Light is a photo-hydro station, No. 1204, and Pirate Cove Light has a 1950 triangulation position.

There are no ferry routes, bridges, submarine cables or telegraph or telephone lines in this area.

Q. LANDMARKS FOR CHARTS.

The following suggested landmarks for charts, as submitted on Form 567, 20 November 1953, fall on this sheet:

1. Pinnacle off northeast corner of Andronica Island at latitude 55° 20.8' N, longitude 160° 03.2' W (Signal Hag, radial plot on T-11112).

2. Pinnacle on north shore of Andronica Island at latitude 55° 20.5' N, longitude 160° 05.8' W (Signal Ear, radial plot on T-11112).

R. GEOGRAPHIC NAMES. No new geographic names appear on this sheet.

S. SILTED AREAS. No silted areas were noted on the fathograms.

T. BY-PRODUCT INFORMATION. None.

U-Y. MISCELLANEOUS. None.

Z. TABULATION OF APPLICABLE DATA.

The following items have been forwarded to the Washington Office:

Fathometer Report - submitted 15 December 1953. w/4 H-8045
Coast Pilot Notes - submitted 25 November 1953.
Landmarks for Charts - submitted 20 November 1953.
Photogrammetry Report - submitted 24 December 1953.

Respectfully submitted:

Omar H. Quade, Jr.
Omar H. Quade, Jr.
Lieut. (j.g.), USC&GS

Forwarded:

A. C. THORSON, CDR., USC&GS
Commanding, USC&GSS SURVEYOR

STATISTICS FOR HYDROGRAPHIC SURVEY H-8049 (1953)

USC&GSS SURVEYOR
CS - 344

SURVEYOR

Day Letter	Volume Number	Date	H.L. or W.S.	Number of Positions	Statute Miles of Sounding
A	1	18 August 1953	0	130	40.9
B	1 & 2	20 August 1953	0	224	77.3
C	2	27 August 1953	0	173	55.4
D	2 & 3	4 September 1953	0	266	84.1
E	3 & 4	5 September 1953	0	74	25.4
F	4	8 September 1953	0	11	0.0
G	4	11 September 1953	0	6	0.0
H	4	12 September 1953	0	73	20.6
J	4 & 5	19 September 1953	0	202	60.1
K	5	20 September 1953	0	117	36.1
L	5	23 September 1953	0	34	6.1
M	5	24 September 1953	0	73	18.9
		Totals	0	1383	424.9

STATISTICS FOR HYDROGRAPHIC SURVEY H-8049 (1953)

USC&GSS SURVEYOR
CS - 344

Launch No. 1

Day Letter	Volume Number	Date	H.L. or W.S.	Number of Positions	Statute Miles of Sounding
a	6	8 September 1953	0	137	21.8
b	6 & 7	11 September 1953	0	196	27.2
c	7	12 September 1953	2	54	6.9
		Totals	2	387	55.9

STATISTICS FOR HYDROGRAPHIC SURVEY H-8049 (1953)

USC&GSS SURVEYOR
CS - 344

Launch No. 3

Day Letter	Volume Number	Date	H.L. or W.S.	Number of Positions	Statute Miles of Sounding
a	8	25 July 1953	0	79	18.0
b	8 & 9	29 July 1953	0	254	32.6
c	9	26 August 1953	0	186	35.1
d	9 & 10	27 August 1953	0	166	22.5
e	10	4 September 1953	0	195	29.7
f	10 & 11	5 September 1953	0	71	9.0
g	11	8 September 1953	0	171	21.7
h	11 & 12	11 September 1953	0	241	31.6
j	12	12 September 1953	0	85	8.4
k	12	19 September 1953	2	168	17.8
l	13	22 September 1953	0	25	3.7
m	13	23 September 1953	0	102	9.1
		Totals	2	1743	239.2

STATISTICS FOR HYDROGRAPHIC SURVEY H-8049 (1953)

USC&GSS SURVEYOR
CS - 344

Launch No. 4

Day Letter	Volume Number	Date	H.L. or W.S.	Number of Positions	Statute Miles of Soundings
a	14	19 August 1953	0	26	6.7
b	14	26 August 1953	0	202	42.7
c	14 & 15	27 August 1953	0	81	15.8
d	15	8 September 1953	0	165	30.0
e	15 & 16	11 September 1953	0	211	42.3
f	16	12 September 1953	0	93	16.1
g	16	24 September 1953	0	46	7.0
		Totals	0	824	160.6
	Totals for sheet		4	4337	880.6
	Statute square miles of hydrography				48.2

TIDE NOTE

1953

The portable tide gage at Sand Point, Alaska, was used to reduce all of the soundings on this sheet. This gage was located at latitude 55° 20.2' N, longitude 160° 30.1' W on the dock of the Aleutian Cold Storage Company. MLLW on the staff, as furnished by the Washington Office, is 4.0 feet. Refer to the Acting Director's letter (36 rjb) dated 26 August 1953, attached.

No time or range corrections were applied in reducing the soundings.

C O P Y

36-rjb

26 August 1953

To: The Commanding Officer
U.S.C.& G.S. Ship SURVEYOR
705 Federal Office Building
Seattle 4, Washington

Subject: Tide data, Alaska

Tide data requested in your letter of 15 August 1953 are as follows:

	Albatross Anchorage	Sand Point
MLLW (on staff)	4.0 feet	4.0 feet
MTL (on staff)	8.0 "	7.9 "
Mean range	5.4 "	5.3 "
Ratio of ranges (on Womens Bay)	0.80	0.78
Difference, time of tide (on Womens Bay)	$\neq 35^m$	$\neq 35^m$

/s/ Earl O. Heaton
Acting Director

GEOGRAPHIC NAMES

An alphabetical list of all geographic names penciled on the smooth sheet will be submitted by the Seattle Processing Office upon completion of the smooth sheet.

APPROVAL SHEET

The boat sheet was inspected at the end of each day's hydrography, by Cdr. J. C. Bose, while the work was in progress.

The fathograms and record volumes have been given a final inspection of a general nature and were approved.

No plotting has been accomplished on the smooth sheet.

A. C. THORSON
Commander, USC&GS
Comdg. USC&GSS SURVEYOR

PROCESSING OFFICE NOTES H-8049
SU-2553

E. Smooth Sheet

The smooth sheet was hand constructed in the Seattle Processing Office using standard methods.

F. Control Stations

As a rule there were slight jumps in sounding lines when the control for the sextant fixes shifted from KOROVIN ISLAND to either ANDRONICA or HIGH ISLAND. This was also noted in the fixes used for locations of the hydro station. Whether these discrepancies were the fault of poor visability and personal error or a lack of agreement on the photoplot could not be determined.

smooth - plotting adequate

G. Shoreline and Topography

Numerous references to reefs and rocks were recorded in the sounding volumes especially on sounding lines taken to delineate the low water line. It was not practical to show all of these features as most of them fell in areas shown as shoreline reefs on the photoplot.

Submerged rocks and reefs shown on the boat sheet, but not noted in the record books were transferred to the smooth sheet.

An error in height of 10 feet was found in a reef at Lat. 55° 24.'7, Long. 160° 21.'0. (see N in report) (Bares 4 ft MHW.)

A rock awash noted on Pg. 8, Vol. 16 was not plotted. This note probably belongs to the next fix, which was rejected in the field.

fix adjusted. rock plotted

K. Crosslines

There were no discrepancies at crossings which could not be resolved by examination of the fathogram. The bottom is quite irregular with steep slopes and sharp pinnacles.

L. Comparison with Prior Surveys

(1913) H-3576 There is good agreement between this survey and H-8049.
(1914) H-3706 Except for some displaced sounding lines just west of Cape Devine, KOROVIN ISL. this survey agrees very well with H-8049.
(1914) H-3713 There is good agreement between this survey and H-8049.
(1914) H-3722 A line of soundings from Lat. 55° 23.'5, Long. 160° 05.'8 to Lat. 55° 21.'2, Long. 160° 06', has soundings 2 to 3 fathoms shoaler than the present survey. The character of the bottom as shown by the

TPS of Review

fathogram in this area is very rough with pinnacles of from 3 to 5 fathoms. This sounding line can not have been misplaced and there are too many shoaler soundings for them to be in error.

An 18 fathom sounding at Lat. 55° 24.3, Long. 160° 22.3 is in the vicinity of a 20 fathom shoal and may exist. not important not carried fwd

All other soundings are in close agreement.

M. Comparison with Contemporary Surveys

The junctions with H-8046 (1953) on the North and H-8047 (1953) on the West are good and complete. / HP 3 Review

Respectfully submitted,

Harvey C. Parsons

Harvey C. Parsons
Cartographic Aid (General)

APPROVED AND FORWARDED:

L. S. Hubbard

L. S. Hubbard, Captain
Supervisor, NW District

LIST OF SIGNALS (H-8049, SU-2553)

Name	Source
Triangulation	
CAP	CAP 1913
HEN	HENDERSON 1913
HEX	LIT 1913
NET	POPOF ID. NE RADIO TOWER 1950
PIRATE	PIRATE COVE LT. 1950
POP	POPOF ID. SW RADIO TOWER 1950
SHARP	KOROVIN ID., SHARPEST OF SEVERAL PINNACLES 1913
TOWER	TOWER ROCK 1913
ON Marked Topo, (See photo Insp D.R.)	
BARE	BARE 1953 (T-8836)
LEW	LEWD 1953 (T-11111)
Photo Topo	
AIM	PH. 1228
ANN	Ph. 3609
AXE	Ph. 1146
BED	Ph. 1145
BEN	T-11111
BIB	Ph. 3617
BIN	Ph. 3630
BOA	Ph. 1142
COD	Ph. 1230
CON	At Ph. 3618, 9.2m 30° 00' left from Sharp Hydro ✓
COW	T-8836
CRY	Ph. 3636
DAW	Ph. 3621
DAY	T-8836
DIL	At Ph. 3605, 5m toward PAW; At CAP ROCK 15° 19' right from VIN Topo ✓
DON	Ph. 1139
DUO	Ph. 1141
EAR	T-11112
ELF	Ph. 1144
EMO	Ph. 3629
ERA	Ph. 3620
FIN	Ph. 3619
FOE	Ph. 1210
FOP	T-11111
FRY	Ph. 1209
GET	Ph. 3613
GIG	T-8836
GOB	T-8836
GUY	Ph. 3623
HAG	T-11112
HAT	Ph. 3634
HEM	T-11111

Name	Source	
	Photo Topo (Cont.)	
HER	T-8836	
HOE	T-11111	
HOP	T-8836	
JAW	Ph. 1211	
JOB	T-11111	
JUG	At Ph. 1153, 25.0m 120° 18' Right from PIRATE	Hydro ✓
KEN	Ph. 1152	
KEY	Ph. 1143	
LAP	T-11111 ~~(Radio Shack)~~ Center of house (D.R. 11111)	
LIP	Ph. 3624	
LIT	Ph. 3603	
LOG	At Ph. 3626, 5.0m 166° Left from SHARP	Hydro ✓
LOP	At Ph. 3632, 18.5m 90° 18' Right from PIRATE	Hydro ✓
MAG	Ph. 3611	
MART	Ph. 3608	
MUD	T-11111	
MUG	T-8836	
MUM	T-8836	
NAT	At 3622, 17.0m 135° 00' Right from TOWER, (AIM-TOWER 29° 37', TOWER-LOG 35° 25')	Topo classification satisfactory. Hydro ✓
NED	At 3631, 7.5m 37° 55' Right from PIRATE	
NOD	T-8836	
NUB	Ph. 1205	
PRY	T-11111	
PUP	Ph. 3610	
RAY	T-11111	
ROT	T-8836	
RUE	Ph. 1151	
RUM	Ph. 3643	
SIT	Ph. 3604	
SOL	Ph. 1150	
TAP	At Ph. 1149, 17.4m 109° 28' Right from CAP	Hydro ✓
TAX	At Ph. 3633, 15.0m 24° 54' Right from HEN	Hydro ✓
TEX	T-11111	
TIL	Ph. 3602	
TOM	At Ph. 3633, 51.0m 21° 24' Right from HEN	Hydro ✓
VIN	Ph. 3651	
WAD	At Ph. 1148, 43.0m 77° 43' Right from PIRATE	Hydro ✓
WHY	Ph. 1204, Andronica Id. Lt.	
YAK	Ph. 1229	
YAM	T-8836	
YET	Ph. 1147	
ZOO	Ph. 3607	
	Hydrographic Signals	
AMY	sextant cuts Vols. #2, #7	
BAT	sextant cuts Vols. #2, #9	
BIG	sextant cuts Vols. #1 and SU-2253 Vols. #10, #17	

Name	Source
Hydro Signals (Cont.)	
DOT	computed sextant angles, Lat. 55° 26' + 374.0m; Long. 160° 20' + 43.9m
FEW	sextant cuts Vol. #9
IRK	sextant cuts Vol. #1
LIZ	sextant cuts Vols. #1, #2
PIK	At CAP ROCK 36° 46' Left from VIN sextant cuts SU-2253, Vol. #10
YEL	sextant cuts Vol. #10

LIST OF GEOGRAPHIC NAMES

ANDRONICA ISLAND
CAPE DEVINE
GORMAN STRAIT
GROSVOLD BAY
HENDERSON ISLAND
HIGH ISLAND
KOROVIN BAY
KOROVIN ISLAND
KOROVIN STRAIT
LITTLE HARBOR
PIRATE COVE
POPOF ISLAND
SCOTLAND PT.

GEOGRAPHIC NAMES

Survey No. H-8049

Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Alaska		}	for title							1
Alaska Peninsula									BFN	2
Popof Island									"	3
Little Harbor										4
Pirate Cove										5
High Island										6
Korovin Strait										7
Henderson Island										8
Korovin Island										9
Korovin Bay										10
~~Crostand~~										11
Grosvold Bay										12
Scotland Point										13
Cape Derine										14
Gorman strait										15
Andronica Island										16
										17
				Names approved.						18
				6-8-55. L. Heck						19
										20
Sand Point		(tide station)								21
										22
										23
										24
										25
										26
										27

M 234

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. 8049

Records accompanying survey:

Boat sheets 2; sounding vols. 16; wire drag vols. .....;

bomb vols. .....; graphic recorder rolls 16 Env.

special reports, etc. ~~1 Smooth sheet~~

.....

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

Number of positions on sheet		4337
Number of positions checked		32
Number of positions revised		6
Number of soundings revised (refers to depth only)		34
Number of soundings erroneously spaced		—
Number of signals erroneously ~~plotted~~ ~~or~~ transferred		Tex Con, Mud, Axe, Ray 5
Topographic details	Time	36 hrs
Junctions	Time	31 hrs
Verification of soundings from graphic record	Time	7 hrs

Verification by Ernest E. Thomas Total time 232 hrs Date 11/19/56

Reviewed by Lew Jeskind Time 49 Date 1-24-57

M-2232-1

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8049 FIELD NO. SU-2553

Alaska, Alaska Peninsula - South Side, Korovin Strait

Project No. CS-344

Surveyed - July - Sept. 1953 Scale 1:20,000

Soundings: Control:

808 Fathometer
Lead line

Sextant fixes on
shore signals

Chief of Party - J. C. Bose, H. J. Healy and A. C. Thorson
Surveyed by - J. P. Lushene, A. N. Stewart, J. C. Bull and F. X. Popper
Protracted by - H. C. Parsons
Soundings plotted by - H. C. Parsons
Verified and inked by - E. E. Thomas
Reviewed by - I. M. Zeskind 1-24-57
Inspected by - R. H. Carstens

1. Shoreline and Control

The shoreline originates with unreviewed air-photographic surveys T-8836 (1946), T-11111 (1952) and T-11112 (1952).

The source of the control is given in the Descriptive Report.

2. Sounding Line Crossings

Depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves were adequately delineated, except close inshore where foul areas and inshore dangers sometimes prevented development to the low-water line.

The bottom is very irregular. Submarine features such as ledges, pinnacles, shoals, and deeps contribute to the bottom irregularity. In Korovin Strait off the southwest portion of Korovin Island, an unusual curving ridge with least depth of 25 fms. extends into 80 - 100 fm. depths.

4. Junctions with Contemporary Surveys

Adequate junctions were effected with H-8046 (1953) on the north, H-8047 (1953) on the west, and H-8000 (1952-53) on the east. The survey extends to the limits of the project on the south where survey depths are in adequate agreement with charted depths.

5. Comparison with Prior Surveys

H-3576 (1913), 1:20,000
H-3706 (1914), 1:20,000
H-3713 (1914), 1:20,000
H-3722 (1914), 1:100,000

The prior surveys cover the area of the present survey. A comparison between the prior and present surveys reveals minor differences of 2 - 3 fms. in depths. A number of bottom characteristics have been carried forward to the present survey from prior surveys.

With the addition of these bottom characteristics, the present survey is adequate to supersede the prior surveys within the common area.

6. Comparison with Chart 8700 (Latest print date 5-7-56)

A. Hydrography

The charted hydrography originates principally with the prior surveys previously discussed which need no further consideration, supplemented by a few critical soundings from the present survey prior to verification and review. The 15-fms. charted in lat. 55°21.0', long. 160°08.7' from the boat sheet of the present survey has been revised to 18 fms. on the smooth sheet.

The present survey is adequate to supersede the charted hydrography within the common area.

B. Aids to Navigation

There are no floating aids to navigation within the limits of the present survey. The present survey positions of lights are in substantial agreement with the charted positions and adequately mark the features intended.

7. Condition of Survey

a. The Descriptive Report and sounding records are complete.

b. The smooth-plotting was accurately done, except as follows:

Topographic signals Tax, Mud, Axe, Roy, and Con were originally smooth-plotted about 1/2 mm in error. The signals were correctly replotted during the verification of the present survey.

8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

9. Additional Field Work Recommended

This is an excellent basic survey and no additional field work is recommended.

Examined and Approved:

Max G. Ricketts
Chief, Nautical Chart Branch

Charles A. Schanck
Chief, Division of Charts

Karl B. Jeffers
Chief, Hydrography Branch

Samuel B. Grenell
Chief, Division of Coastal Surveys

RHC

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Hydrography and Topography~~ 15 June 1955

Division of Charts: R. H. Carstens

Plane of reference approved in
16 volumes of sounding records for

HYDROGRAPHIC SHEET 8049

Locality Alaska Peninsula (South Side)

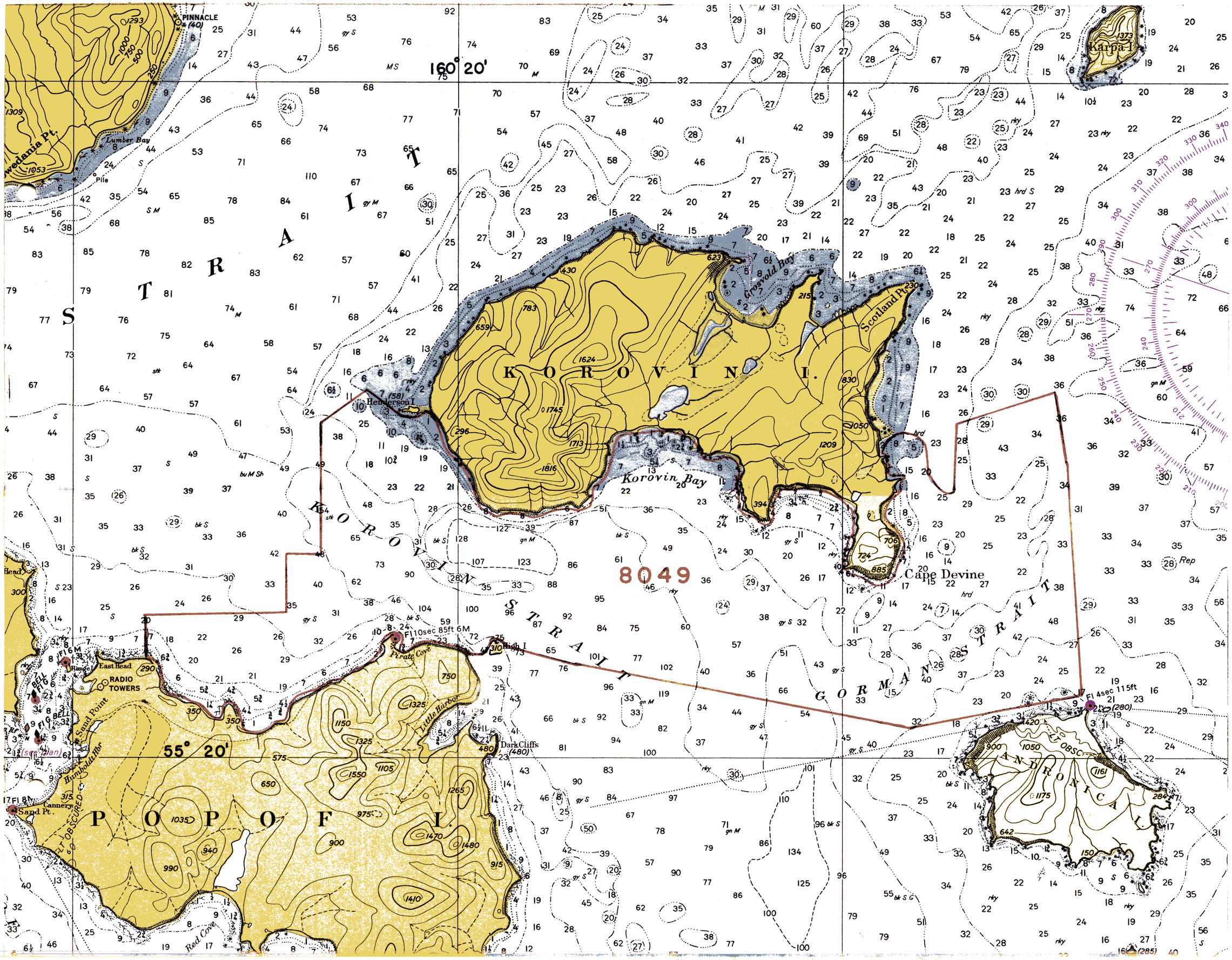
Chief of Party: J. C. Bose in 1953
Plane of reference is mean lower low water, reading
4.0 ft. on tide staff at Sand Point
18.5 ft. below B. M. 5 (1943)

Height of mean high water above plane of reference is 6.5 feet.

Condition of records satisfactory except as noted below:

E. C. McKay
Tides Branch
Chief, Division of Tides and Currents.

U. S. GOVERNMENT PRINTING OFFICE 756675


PINNACLE
(40)
Lumber Bay
Pile
Kowedania Pt.
160° 20'
Karpa I.
Grosvald Bay
Scotland Pt.
KOROVIN I.
Korovin Bay
Henderson I
KOROVIN STRAIT
8049
Cape Devine
GORMAN STRAIT
55° 20'
POPOF I.
RADIO TOWERS
East Head
Range Ls
Sand Point
Humboldt Hbr
Cannery
Sand Pt.
OBSCURED
Pirate Cove
Little Harbor
High I
Dark Cliffs
(480)
Red Cove
ANDRONICA I.
OBSC
Fl 4sec 115ft
Fl 10sec 85ft 6M
Fl WHG BELL
Fl R BELL
(sch plan)

NAUTICAL CHARTS BRANCH

SURVEY NO. H-8049

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
29 June 60	8700	Nichols	~~Before~~ After Verification and Review Full appl.
			~~Before~~ After Verification and Review
~~30 Dec 60~~			
30 Dec 60	880v	Nichols	~~Before~~ After Verification and Review thru 8859
3 Jan 61	930v	Do	~~Before~~ After Verification and Review thru 880v
5 Apr 78	16553	Martof/Vanzant	~~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.