7191

プ の プ Diag. Cht. No. 8252-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. PA-1347 Office No. H-7191

LOCALITY

State SOUTHEAST ALASKA

General locality SITKA SOUND---BARANOF ISLAND

Locality POVOROTNI POINT TO DEEP INLET

1947...

CHIEF OF PARTY

G. E. Boothe

LIBRARY & ARCHIVES

DATE 3 OCTOBER, 1950

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-7191

Field No. PA-1347....

State	S. E. Alaska
General locality	Sitka Sound - Baranof Island
Locality	Povorotni Point to Deep Inlet
Scale 1:10,000	Date of surveyJune and July 1947
Instructions dated	(Revised) ll April 1947
Vessel	PATTON - Launch No. 92
Chief of party	Glendon E. Boothe
Surveyed by	Glendon E. Boothe and Karl B. Jeffers
Soundings taken by fathometer,	graphic recorder, hand lead, wire Fathometer and Hand Lead
Protracted by William William	M. Martin M. Martin
Soundings in fathoms free feet	at MEW MLLW Fathoms at MIN
Remarks:	
·	

U. S. GOVERNMENT PRINTING OFFICE 428975

DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SURVEY H-7191 (PA-1347)

POVOROTNI POINT TO DEEP INLET 1947

SITKA SOUND, S. E. ALASKA

SCALE 1:10,000

U. S. C. & G. S. S. PATTON, GLENDON E. BOOTHE, CMDG.

* * 3

A. - PROJECT:-

This work is part of Project CS-247 for which revised instructions were issued under date of 14 April 1947.

B. - SURVEY LIMITS AND DATES:-

The survey covers the inshere area from the south side of Povorotni Point to the entrance to Deep Inlet and the waters surrounding the offlying islands northwest of Povorotni Point. Field work was begun on 6 June 1947 and was completed 18 July 1947.

Junctions were made with the following listed surveys:- H-7096, WE-1445 1945, scale 1:10,000, Southeast of Povorotni Point. H-6948, Scale 1:1000, Southern limit of sheet. (1942-43) H-6655, Scale 1:20,000, Western limit of sheet. (1940-41) H-6355 (1938), Scale 1:10,000, Northern limit of sheet. H-7190, PA-1247(1947), Scale 1:10,000, at entrance to Deep Inlet.

In addition to the area in which a new basic survey was required there were 10 shoal areas within the limits of the above mentioned surveys which required detailed development and investigation.

The entire area has a very rough bottom and a great deal of time was consumed in close-spaced development hydrography and hand lead investigation of all shoal indications.

C. - VESSEL AND EQUIPMENT:-

All hydrography was done in Launch No. 92 operating from the FATTON and using ship's personnel. Soundings were taken with an 808 type recording fathometer No. 51 and standard hand lead equipment. A few bottom samples in deep water were taken by the PATTON using an electric, wire sounding machine.

D. - TIDE AND CURRENT STATIONS:-

No tide or current observations were obtained within the limits of this survey. Current stations were occupied in Sitka Sound and are the subject of a separate report. The Standard Tide station maintained at Sitka was used for the reduction of soundings. No time or range factor was applied. Tabulations of hourly heights of the tide were furnished by the Washington Office.

E. - SMOOTH SHEET:-

The smooth sheet will constructed and the hydrography plotted by personnel at the Seattle Processing Office.

F. - CONTROL STATIONS:-

Triangulation stations established by G. C. Jones in 1938 and Charles Pierce in 1942 were supplemented by triangulation at the entrance to Deep Inlet in 1947. All previously established stations were recovered.

Topographic stations were located by graphic control methods on aluminum mounted sheets, The signals used in this survey will be found on sheets T-7045 (PA-D-47) and T-7046 (PA-E-47). The area covered by T-7046 was surveyed in 1942, (see T-6888). A number of the signals established at that time were recovered and the same name was used in this year's work. Sheet T-7046 should be used as the source for location of these signals.

Four signals were located by sextant angles and pertinent data are indexed in Volume No. 1 of the sounding records.

G. - SHORELINE AND TOPOGRAPHY:-

The shoreline and topography will be compiled from Review, air photographs of the area supplemented by the above listed graph- par /. ic control sheets. This work will be done by another office.

The low water line could not be obtained in the major portion of this area. The shoreline is rocky and steep-to. Sounding lines were run as close to the shoreline as conditions would permit.

H. - SOUNDINGS:-

Soundings were taken by means of an 808 Type Recording Fathometer, No. 51, operated on the fathom scale. Additional soundings were taken with a standard lead line. Standard methods were used throughout the survey. The fathometer initial was set correctly with a bar suspended exactly two fathoms below the

transceiver. The sounding was assumed to be correct at two fathoms for purposes of computing velocity corrections. This subject has been covered in a separate report which is hereby made a part of this report.

I. - CONTROL OF HYDROGRAPHY:-

All hydrography is controlled by three point sextant fixes on objects ashore. No unusual or substandard methods were used for this purpose. Fixes were taken at intervals of two minutes in general, and at such other lesser intervals as conditions warranted for good control. Soundings were recorded at 15 second intervals and all peaks or valleys were sdaled from the fathograms and recorded at the proper times.

J. - ADEQUACY OF SURVEY:-

The survey of the area is complete and is adequate to supercede previous surveys. Junctions with other surveys are satisfactory. The junction of depth curves at the western limit may be made somewhat difficult due to the very irregular character of the bottom and the sparseness of soundings on Sheet No. H-6655.(1940-41)

K. - CROSSLINES:-

The crosslines on the sheet constitute about 4.5 percent of the total sounding lines run including development work. Crossings on the boat sheet were satisfactory.

L. - COMPARISON WITH PRIOR SURVEYS:-

The original and only prior surveys made in this area are sheet H-2175, scale 1:40,000 and H-2176, scale 1:20,000 which were made in 1893. These surveys are not of sufficient detail to warrant comparison with the current work.

M. - COMPARISON WITH CHART No. 8255:-

a. Features disproved:

1. Sunken rock - Lat. 56° 59.04'; Long. 135° 25.10'.

The least depth found on this shoal is 55 fms. This area was carefully searched with a hand lead in addition to the fathometer work. The sunken rock symbol should be deleted. (deleter from chart)

2. Sunken rock - Lat. 56° 57.50'; Long. 135° 23.38' and the rock awash symbols which extend inshore from this point, do not exist or are incorrectly charted from rough sketching. There is a shoal 250 meters 293° True from this point which has a least depth of 1.5 fms. These rock symbols should be deleted. (de/eted from chart)

b. Discrepancies in soundings:

1. 2-3/4 fathom sounding in Lat. 56° 59,13'; Long. 135°23.80'.

The least depth on this shoal is 2.0 fms. (1/2 fms. now charted)

2. 4\frac{1}{2} fathom sounding in Lat. 56° 58.48\frac{1}{2}; Long. 135° 24.15'.

The least depth on this shoal is 4.50 fms. (4 fms. new charted)

3. Rock awash, (P.D.) Lat. 56° 56.45'; Long. 135° 23.30'.

A rock covered 1.7 fms at M.L.L.W. was found close to this point. The bottom was visible at the time the least depth w as measured. The rock symbol replaced by the correct sounding. (Rt. awash symbol replaced on that t by 1/2-fm. sdg.

1. A least depth of 1.9 fms was found at the charted 25 fm sounding N. E. of Vasilief Bank, Lat. 56° 57.561; Long. 135° 26.861.

(134 fm. 549 now charted)

c. New shoals and dangers found: - See "N" below.

N. - DANGERS AND SHOALS:-

All charted shoals and dangers were found except as noted in paragraph "M". Additional shoals were found as listed below:-

Depth	Pos.		
Fms.	No.	Latitude	Longitude
1.4	36aa -	56° 56.481	135° 25.63 1
2.0	5]u&53u*	56° 5 7.48.17	135° 27.121
1.6	63u	56° 57.851×	135° 24.381
20-tf(X)	1,2,& 3.1	56° 58.170 cov.2 FH. MLLW	135° 24.821
1.4	18v ~	56° 57.585	135° 23.61
2.32	23v°	56° 57.36'	135° 23.26 5
1.4	6v	56° 58 .56 ™	135° 24.56.49
2.32	41v´	56° 58.43,1~	135° 23.32 1
1.54	424	56° 58.51°	135° 23.22 1
2.2	116r′	56° 58.831	135° 23.581
D.4(*)	3ca	56° 58.921/cov.2ft.MLLW	135° 18.73!
0.6,	89p	56° 59.261	135° 19.41'
0.8	7ca	56° 59 .17 4	135° 18.28'48
	diane are smooth	SHECT VALUES	,

All detached shoals were searched for least depth and complete notes covering these investigations will be found in the sounding records. Numerous rocks and shoal spots which lie close to the beach were investigated, but are not listed here. Attached to this report is a copy of a letter to the Director with advance information relative to new dangers discovered and located.

O. - COAST PILOT NOTES:-

This subject has been covered under a special report for the Sitka Sound area.

P. - AIDS TO NAVIGATION:-

There are no aids to navigation in this area.

Q. - LANDMARKS FOR CHARTS:-

There are no landmarks recommended for charting in this area.

R. - GEOGRAPHIC NAMES:- 254

A special report on geographic names will be submitted. Two new names are recommended: Three Entrance Bay, which is located south of Cape Burunof, and Samsing Cove, which lies just East of Pirate Cove. All previously charted names were verified.

S. - SILTED AREAS:-

No silted areas were noted.

Z. - TABULATION OF APPLICABLE DATA:-

The following listed special reports are pertinent to this survey:-

Air Photo Inspection Report.

Descriptive Reports to Accompany Topographic (Graphic control)

Sheets T-7045 (PA-D-47) Pirate Cove to Deep Inlet, and T-7046 (PA-E-47) Povorotni Point to

Pirate Cove.

Temperature and Salinity Observations.

Coast Pilot Notes.

Geographic Names.

Applicable data attached to this report:-

Table of Statistics
Tide Note
Tables of Velocity Corrections (2)
List of Signals
Letter, 12 July 1947 - Dangers, Chart #8255 C.L. 482 (1947)

Submitted by

Karl B. Jeffers Lt. Commor., C & G Survey

VELOCITY CORRECTIONS

U.S. Coast and Geodetic Survey

Ship PATTON

Glendon E. Boothe, Comdg.

Between 6 June 1947 and 17 June 1947

Locality: Sitka Sound, Povorotni

Point to Deep Inlet

Hydrographic Survey No. PA-1347

Launch No. 92 Table of Corrections

Der	th			Correct	ions
	to	4.9	fms.	0.0	fms.
5.0	18	9.9	Ħ	-0.1	Ħ
10.0	13	14.9	11	-0.2	11
15.0	ij	20.0	11	-0.3	n
20.1	11	25.0	18	-0.4	11
25.1	Ħ	30.1	11	- 0.5	11
30.2	11	35.1	11	-0.6	#1
35.2	11	45.7	11	-0.8	11
45.8	73	55.9	11	-1.0	Ħ
56.0	11	66.1	11	-1.2	11
66.2	#	76.1	Ħ	-1.4	11

LIST OF HYDROGRAPHIC SIGNALS PA-1347 POVOROTNI PT. TO DEEP INLET

Hydrographic Name	Source	Hydrographic Name	Source
ABE	7-7045 PA-D-47	DON	PA-E-47
Æ	7-7046 PA-E-47	THOSE SECTION	PA-E-47
ADAM	PA-E-47	DUD	PA-E-Li7
ADC	PA-E-47	DUN	PA-D-17
AI	PA-E-47	DOM	LWDerft (
ALP	PA-D-47	EAR	DA 10 1.9
AMY	PA-D-47	EAT	PA-E-47 PA-D-47
ANN	PA-E-47	EBB	
ANT	PA-D-47	REL	PA-E-47
ARM	PA-D-47	EGG	PA-D-47
Tal ull		ELM	PA-117
BAG	PA-B-47	END	PA-B-47
BAH	PA-D-47	ERA	PA-E-47
BAT	PA-D-47	EVA	PA-E-47
BED	PA-E-47		71-6889a
BEG	PA-E-47	EXTRA	Tri. Sta. EXTRA 1938
B I B	PA-E-47	man.	n. n. l.
BIG	PA-E-47	FAR	PA-D-47
BIL	PA-E-47	FAT	PA-D-47
BOG	PA-E-47	FED	PA-E-47
BOB	PA-E-47	FEN	PA-E-47
BON	PA-E-47	FEZ	PA-E-47
BOX	PA-D-47	FIG	PA-E-47
BOY	PA-E-47	FIN FIT	PA-E-47
BUM	= WAG T-6889a		PA-B-47
BUS	PA-E-47	FIAG	PA-E-47
. 505		FLY	PA-D-47
CAB	PA-D-47	FOR	PA-D-47
CAL	Tri. Sta. CALMING 1942	FOG	PA-E-47
CAR	PA-E-47	FOP	PA-D-47
CARD	Tri. Sta. CARD 1942	FOX	PA-E-47
CAS	Tri. Sta. CASTOR 1947	FRY	PA-E-47
CAT	PA-D-47	FUN	PA-E-47
CAU	Tri. Sta. CAUTION 1942	Q4D	n. n.lm
COD	PA-D-47	GAD	PA-D-47
CON	PA-D-47	GAG	PA-E-47
COP	PA-D-47	CAL	PA-D-47
CRY	PA-E-47	GAS	PA-E-47
COM	PA-E-47	CEM	PA-E-47
CUR	PA-E-47	GIG	PA-E-47
Out	PA-D-17	GIL.	PA-E-47
	12 2 41	CLAC	Tri. Sta. GLAG 1942
DAW	PA-E-47	COB	PA-E-47
DAY	PA-D-47	COT	PA-D-47
DEB	PA-E-47	CUL	PA-E-47
DIF	PA-E-47	CUM	PA-E-L17
DIM	PA-D-47	TIAG	- 1-
DIP	PA-D-47	HAC	PA-E-47
DIX	PA-E-17	HAG	PA-D-47
DOC	PA-E-47	HAT	PA-E-47
DOE	PA-E-47	HEM	PA-E-47
DOG	PA-E-47	HER	PA-E-47
_ 	18-5-41	HID	PA-E-47

LIST OF HYDROGRAPHIC SIGNALS PA-1347 POVOROTHI PT. TO DEEP INLET

Hydrographic Name	Source	Hydrographic Name	Source
CC CC	PA-E-47	MAR	D4. 79 1.77
HOE	PA-E-47	MAW	PA-E-47
HOP	PA-D-47	MAX	PA-E-47
	T-6889a		PA-E-17
HC.		MAY	PA-B-17
HOW	PA-D-47	MID	PA-D-47
HUB	Vol. 1	MOP	PA-E-47
HUM	PA-S-47	MOT	PA-E-47
ICE	PA-E-47	NAT	PA-D-47
IDA	P A-D-47	NED	PA-13-417
I MP	T-6889a	MEM	PA-B-47
İON	P A-D-47	NIL	PA-D-47
ÍRA	PA-E-47	NI P	PA-147
IRE	PA-E-47	NIX	PA-B-417
ITS	mi. Sta. ITSKI 1938	NOD	PA-B-47
IVY	PA-E-47	NON	PA-D-47
		NOR	PA-D-47
JAP	PA-E-47	NOW	PA-D-47
JA R	PA-E-47	NUT	PA-B-47
JOY	PA-E-47	× .	
JAW	PA-D-47	OAK	PA-19-47
. JIM	PA-D-47	OB	Tri. Sta. 0B 1942
JOE	PA-D-47	OBI	PA-D-47
JUG	PA-D-47	OFF	PA-E-47
		OLD	PA-E-47
KAMEN	Tri. Sta. KAMEN 1942	ORA	PA-D-47
KED -	PA-E-47		TA-D-41
KEN	PA-D-47	PAD	- PA-E-47
KEY	PA-D-47	PAL	PA-D-47
KID	PA-E-47	PEO	PA-E-47
KIM	PA-B-47	PE T	PA-E-47
KOB	PA-E-47	PIE	PA-E-47
NOD	1A-B-41	PIG	PA-D-47
LAD	PA-E-47	PLY	
LAM	PA-D-47	POP	PA-D-47
LAX	PA-E-47	POT	PA-E-47
LAY	PA-D-47	PRO	PA-E-47
LEDG	Tri. Sta. LEDG 1942	PUP	Vol. 1
LEG		ror	PA-E-47
TEA TEA	PA-E-47	See Action See	n
، اوت	PA-D-47	RAG	PA-E-47
T TODO	PA-E-47	RAIN	Tri. Sta. RAIN 1938
LETS	Tri. Sta. INLETS 1947	RAM	PA-E-47
LIZ	PA-D-47	RAT	Tri. Sta. PIRATE 1942
LOG	PA-E-47	REY	PA-D-47
LON	PA-E-47	RIM	PAD-47
LUG	PA-E-47	RIO	PA-E-47
LUX	PA-E-47	RIP	PA-D-47
		ROE	Tri. Sta. ROE 1942
MAG	PA-D-47	RUM	PA-E-47
MAL	PA-E-47	RUN	Tri. Sta. RUN 1938
MAN	PA-E-1:7		•

LIST OF HYDROGRAPHIC SIGNALS PA-1347 POVOROTNI PT. TO DEEP INLET

Hydrographic Nam	ne Source	Hydrographic Name	Source
_ A D	PA-D-47	WAD	PA-E-47
SAG	PA-E-47	WAG	PA-D-47
SAY	BA-E-47	WAN	PA-B-47
SAN	Tri. Sta. SANDY COVE 1947	WAR	PA-E-47
SAL	PA-E-4?	Was	P A- D-47
SIR	PA-D-47	WAX	PA-E-47
SIS	PA-E-47	WE	Vol. 1
SKY	PA-E-47	WEE	PA-E-47
SNUF	Tri. Sta. SNUF 1942	WEN	PA-E-47
SO	Vol. 1	WET	PA-E-47
SOB	PA-E-47	WIG	PA-B-47
SOL	PA-E-47	W00	PA-D-47
SOP	PA-E-47		
SOX	PA-E-47	YAK	PA-A-47
SUB	P A-D-47	YAM	PA-D-47
SUE	PA-E-47	YES	PA-B-47
TAP	PA E 47	·	
TAG	PA-E-47	ZAG	PA-E-47
TAN	PA-D-47	ZIG	PA-D-47
TAX	PA-E-47	ZO O	PA-D-47
TEE	PA-E-47		
TOM	PA-E-47 PA-E-47		
TOY	Tri. Sta. TRI 1942		
TRU	PA*E-17		1 To 1
TRY	13.00-41	•	
TIOD	D4F		• • • • •
USE	PA-E-47		• • • • •
VAL	PA-E-47		
VA N	PA-E-47		
VET	PA-D-47		
VEX	PA-E-47		
AIM	P A- E-47		

VELOCITY CORRECTIONS
U.S. Coast and Geodetic Survey
Ship PATTON

Ship PATTON
Glendon E. Boothe, Comdg.
Between 18 June 1947 and 19 July 1947
Locality: Povorotni Point to Deep Inlet.
Hydrographic Survey No. PA-1347 & PA-1247

* * * *

Launch No. 92 Table of Corrections

Corrections Bepth	 Depths Corrections						
0.0 fms				to	7.8	fms	
-0.1 "	from	7.9	fms	11	11.8	11	
-0.2 n	Ħ	14.9	11	11	20.2	11	
-0.3 "	11	20.3	Ħ	28	25.7	11	
-0.4 n	11	25.8	IT	Ħ	3049	Ħ	
-0.6 H	11	31.0	H	H	41.3	Ħ	
-0.8 "	11	41.4	Ħ	Ħ	51.8	Ħ	
-1.0 "	11	51.9	14	H	62.6	10	
-1-2 11	11	62.7	Ħ	11	73.6	11	

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

POST-OFFICE ADDRESS: USC&GSS PATTON, Box 158, Sitka, Alaska

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

12 July 1947

To:

The Director

U. S. Coast and Geodetic Survey

Washington 25, D. C.

Through: Supervisor, Northwestern District

Subject: Dangers - Chart #8255

The following listed shoals that are located on Chart #8255 are furnished herewith:

Rock covered 3 ft. at M. L. L. W. Breaks in moderate swell
Latitude 56° - 58'. H North
Longitude 135° - 24'. 82 West

1.6 (2)

Least depth 1.7 fms. at M. L. L. W. Latitude 56° - 57'.85 North Longitude 135° - 24'.38 West

(3)
Least depth 1.4 fms at M. L. L. W.
Latitude 56° - 58'.50 North
Longitude 135° - 24'.49 West

Least depth 0.5 fms. at M. L. L. W. Latitude 56° - 59'.26 North Longitude 135° - 19'.41 West

Above information subject to Office verification. Based on predicted tides for Sitka, from USC&GSS PATTON Boat Sheet #1347. These locations have not been furnished the Coast Guard as these shoals are not in the steamer lanes, or where ships travel, except for the local fish boats. These men do not receive the Notice to Mariners, and many do not use charts, so this information would be of no value distributed in that manner.

Blendon E. Boothe Lt.Comdr., C&GS Cmdg., USC&GSS PATTON

GEB/dd

SES COPY

1482 (42)

APPROVAL SHEET TO ACCOMPANY SHEET PA-1347 (H-7191)

The hydrography on this sheet was executed under my direct supervision as a member of the hydrographic party.

The sounding records and boatsheet have been examined and approved by me. They were inspected daily during the survey. It is my opinion that the survey is adequate, and that no additional work is required.

The smooth sheet is to be constructed, and plotted by the Seattle Processing Office. The tidal data was supplied by the Washington Office from the record of the standard tide gage at Sitka.

The area covered by this survey is exceedingly rough and broken. The development required closely spaced lines, and much time was spent drifting and hand leading shoals.

18 December 1947

Clendon E. Boothe It.Comdr., USC&GS Cmdg., Ship PATTON

H 7191 (PA 1347)

SE Alaska Sitka Sound Povorotni Point to Deep Inlet.

Processing Office Notes.

Smooth sheet.

The projection was made by hand on Whatman paper. In the area between Povorotni Point and Cape Burunof the topography was surveyed in 1942 on T 6888 and T6889 and this was transferred to the smooth sheet. New signals were established and located by planetable on sheet T 7046 in 1947. Some topographic features were shown on the latter sheet, and these usually duplicated the 1942 topography. Where there were differences in the shopeline or rocks the interpretations of T 6888 and T 6889 were held. Where new features were added on T 7046 they were transferred to the smooth sheet. *There shoreline is lacking it is to be supplied from the air photo compilation when available. The following topographic signals located on T 6889 in 1942 were used on H 7191: (1947). * Shoreline added from T-8483(1942-47) Snuf Imp Adam Hot Tri Eva Bum (Formerly Wag). Ice

Shoals.

The dangers have been noted in the report of the field party. These have been checked and where the final reduction of the soundings differ from boat sheet readings used for the report the smooth sheet figure has been entered with a pen.

The three shoals developed on Vasilief Bank were seen as breakers to which cuts were made during the survey of # 6655. The two rocks awash on this bank were transferred from H 6948.(1943)

Two other rocks near φ 56 57.29 λ 135 25.31 were

transferred from T 6888.(1942)

Note the 3.6 fm. sounding at 56 59.07 λ 135 25.12. A photo copy of H 6655 shows in pencil a sounding of 3 1/6 fathoms at ϕ 56 59.07 λ 135 25.09. There is a sunken rock symbol beside it. This looks like the plotting of additional work. (Skn. Rk. disproved; 3.1-fm sdg. carried fwd. to pres. survey)
The rock at φ 56 56.65 λ 135 26.56 located by topo

seems to be the object to which cuts were made on H 6655 (1944)

The least depths on many shoals have been pointed out on the smooth sheet.

Smaith 9

TIDE NOTE

TYPE OF GAGE - Standard Automatic Tide Gage

LOCATION - Sitka, Baranof Island, Southeast Alaska. Latitude 57° 02'.9; Longitude 135° 20'.3

PLANE OF REFERENCE - Mean Lower Low Water

The gage was operated and maintained by personnel of the Sitka Magnetic Observatory. The hourly heights of the tide were furnished by the Washington Office.

STATISTICS FOR HYDROGRAPHIC SURVEY H-7191 (1947)

U. S. C. & G. S. S. PATTON; PROJECT CS-247

Date 1947	Day Letter	Vol. No.	H. L. & Wire Soundings	Positions	Statute Miles of soundings
6 June 9 " 10 "	a b c	1 2	7	192 92 217	32.0 15.6 36.2
11 " 12 " 13 " 16 "	d e f	2 & 3 ' 3 3 & 4 4	1	233 50 193 132	35.4 7.7 24.7 17.1
17 " 18 " 19 "	g h j k	4 & 5 5 5 & 6		264 173 245	32.6 20.0 31.8
20 " 21 "	.1 m n	6 7 7	1	221 51 103	19.1 4.2 13.9
23 H 24 H 25 H 26 H	p q r	7 & 8 8	2 10	89 82 121	11.5 11.6 13.6
2 July 7 " 8 " 9 " 10 "	s t u	8 8 9	12 2 10	104 49 64	9•1 4•9 5•3
12 "	w x y	9 9 9 9 9 & 10	40 9 13 15	145 97 143	2.6
14 " 15 " 16 " 17 " 18 "	z aa ba ca	10 10 & 11 11 11	12 14 17 14	195 150 90 7 9	19.8 11.7 5.3 4.4
		Totals:	162	3488	399.8

Area Surveyed = 7.6 square statute miles.

my right

H 7191 (Pa 1347)

Southeast Alaska Sitka Sound Povorotni Point to Deep Inlet

List of geographic names penciled on smooth sheet.

SITKA SOUND

BARANOF ISLAND

KULICHKOF X81AND ROCK

LONG ISLAND

DEEP INLET

SANDY COVE

* SAMSING COVE

PIRATE COVE

CAPE BURUNOF

* THREE ENTRANCE BAY

POVOROTNI POINT

KAMENNOI ISLAND

GLAGHOLM ISLAND

KITA ISLAND

VASILIEF BANK

^{*}These two names are in the report on geographic names by Boothe 1947. All other names are from the charts.

GEOGRAPHIC NAMES Survey No. H-7191	I		ous	diag.		r m	\$ / XE	of Mo	N PETE
Name on Survey		Chor.	Or 40 /	D Mood	rom oco de	or local Mark	of Guide	Part More Andread	J S. L
	A	<u> </u>	/ c	D	E	F	G	/ H	/
Southeast Alaska	+		_					-	 -
Sitka Sound	 	 			-				-
Baranof Island	ļ	 				-		ļ	US
Povorotni Point	 		 	_			·		ļ
Kamennoi Island						ļ	-		
Glagolm Island	<u> </u>	ļ.	-						
Kita Island									
Vasilief Bank									
Kulichkof Rock		<u> </u>	not Is	land)	,				ປວເ
Three Entrance Bay									
Cape Burunof									uso
Pirate Cove									
Samsing Cove									
Long Island ~								****	
Sandy Cove									
Deep Inlet							1		
Deep IIIIet									
Following names are OK									
desired to use them:			8255 f	or pla	ement				
N						<u> </u>	<u> </u>		
Mielkoi Cove √						-			
Calming Island									
Obsechki Island	<u> </u>				ļ 	,			
			 	Names	under	lined	in red	are	
			<u> </u>	appro	ved.	12-4-	50	,	···
			 	 		h.:	Heck		
Si tka		(100 8	tion	of tide	gsge)				USC
					;				

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H-7,19]...

lecords accompanying survey:		
Boat sheets; sounding vols; w	ire dra	g vols;
bomb vols; graphic recorder rolls	5 env	el,
special reports, etc	•••••	• • • • • • • • • • • • •
•••••••••••••••	•••••	• • • • • • • • • • • •
The following statistics will be submitted wi rapher's report on the sheet:	th the	cartog_
Number of positions on sheet		Prelim. Final
Number of positions checked		70 260
Number of positions revised		5
Number of soundings revised (refers to depth only)		19 30
Number of soundings erroneously spaced		4 . 8 .
Number of signals erroneously plotted or transferred	-	
Topographic details	Time	1 . 74 .
Junctions	Time	3 109
Verification of soundings from graphic record	Time	3
Verification by D.R. Engle	656	Date 3-6-52
Reviewed by Annamore Time	4.8	Dete 11. Cct. 1954

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7191

FIELD NO. PA-1347

Alaska, Sitka Sound, Povorotni Point to Deep Inlet

Project CS-247

Surveyed - June and July 1947

Scale 1:10,000

Soundings:

Control:

808 Fathometer Hand lead

Sextant fixes on shore signals

Chief of Party - G. E. Boothe
Surveyed by - G. E. Boothe and K. B. Jeffer
Protracted by - W. M. Martin
Soundings plotted by - W. M. Martin
Verified and inked by - D. R. Engle
Reviewed by - T. A. Dinsmore
Il Oct. 1954
Inspected by - R. H. Carstens

1. Shoreline and Signals

The shoreline originates with graphic control survey T-7046 of 1947, topographic surveys T-6888 and T-6889a of 1942 and air-photographic survey T-8483 of 1942-47.

The origin of the signals is given in the Descriptive Report.

2. Sounding Line Crossings

Considering the irregularities in the bottom, depths at crossings are in very good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves are adequately delineated except in foul areas which were too hazardous to run sounding lines.

Numerous rocks, ledges and pinnacles distributed freely throughout the area contribute to the extreme irregularities in the bottom. Many of these features are dangerous to navigation.

4. Junctions with Contemporary Surveys

Adequate junctions were effected with the following surveys:

H-6355 (1938-47), on the north H-7190 (1947), on the northeast H-7096 (1945), on the south H-6948 (1942-43), on the southwest H-6655 (1940-41), on the northwest

Sevenal detached sheel areas as w (////) w (all)

Several detached shoal areas on H-6655 and H-6948 have been closely developed on the present survey and are so indicated by reference notes on the aforementioned surveys.

5. Comparison with Prior Surveys

H-2175 (1893), 1:40,000 and H-2176 (1893), 1:20,000

The present survey falls within the area covered by these prior surveys. A comparison of the prior and present depths indicates no changes in bottom in the area. However, the widely spaced sounding lines on the prior surveys fail to reveal many shoals and pinnacles disclosed by the close development on the present survey.

The 20-fm. sounding charted in lat. 57°59.47', long. 135°18.90', from H-2176 falls in depths of 29-30 fms. on the present survey. The prior sounding is considered to be 10 fms. in error and should be disregarded.

The present survey is adequate to entirely supersede the prior surveys within the common area.

6. Comparison with Chart 8255 (Latest print date 1/14/52)

A. Hydrography

Charted hydrography originates with the previously discussed surveys supplemented by partial application of the present survey prior to verification and review. Numerous minor revisions to smooth-sheet soundings have been made during verification. With the exception of the 20-fm. sounding mentioned in paragraph 5, no important discrepancies are noted in the charted soundings. However, the rock awash charted in late 56°59.66', long. 135°18.60', should be deleted from the chart. The present survey disproves the existence of a rock in the above location.

The present survey entirely supersedes the charted information.

B. Aids to Navigation

No aids to navigation are charted within the limits of the present survey. There are many dangers to navigation in the area.

7. Condition of Survey

- a. The sounding records and Descriptive Report are complete and comprehensive.
- b. The smooth plotting was accurately done.
- c. The development of shoal areas and determination of least depths by use of the hand lead on pinnacle rocks and in kelp was particularly thorough on this survey.

8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

9. Additional Field Work

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

Examined and approved:

H. R. Edmonston Chief, Nautical Chart Branch

R. McCarthy

Acting Chief, Division of Charts

G. R. Fish Chief, Hydrography Branch

Chief, Division of Coastal Surveys

Vanle

FORM 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. June 1987

TIDE NOTE FOR HYDROGRAPHIC SHEET

division x of x hydrography x and x top agraphy k

11 December 1950

Division of Charts: R. H. Carstons

Plane of reference approved in 11 volumes of sounding records for

HYDROGRAPHIC SHEET 7

7191

Locality Sitka Sound, Alaska

Chief of Party: G. E. Boothe in 1947

Plane of reference is mean lower low water, reading 5.0 ft. on tide staff at Sitka 15.1 ft. below B. M. 8 (1924)

Height of mean high water above plane of reference is 9.1 feet.

Condition of records satisfactory except as noted below:

E.C. Mc Kay

Section
Chief, Division of Tides and Currents.

NAUTICAL CHARTS BRANCH

SURVEY NO. H-7191

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
8/35	82.55	Elfran	Before After Verification and Review Intial Splication
1/28/52	8252	Son ha G	Before Verification and Review
1/20/32	0232	J. 4 Mettern	Partially opplied - (2 sdy changed.)
6-19-60	8252	En PHI Tropy	After Verification and Review
		07	Coupletely speed
1-25-65	8255	Simple	Before After Verification and Review
			Completely appl
			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
	<u> </u>		<u> </u>

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.