

7787

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-1149 Office No. H-7787

LOCALITY

State S.E. Alaska

General locality Sitka Sound

Locality Southern Part of Nakwasina Sound

and Katlian Bay

194 9

CHIEF OF PARTY

J.C. Partington

LIBRARY & ARCHIVES

DATE 31 JULY 1950

28242

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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 7787

Field No. Pa 1149

State Southeast Alaska ✓

General locality Sitka Sound ✓

Locality ~~Southern part~~ Nakwasina Sound and Katlian Bay ✓

Scale 1/ 10 000 ✓ Date of survey 3 June - 29 Sept. 1949 ✓

Instructions dated 5 August 1947

Vessel PATTON - Launch No. 92.

Chief of party J.C.Partington ✓

Surveyed by J.C.Partington and I.R.Rubottom ✓

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

Protracted by G.W.Bergford

Soundings penciled by G.W.Bergford

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

REMARKS: Fathograms scaled by PTP, checked by JCP? EHS? & G.W.B.

Smooth sheet and plotting by Seattle Processing Office.

Verified -
see Instr. for preli-
minary in back of
report

DESCRIPTIVE REPORT TO ACCOMPANY
HYDROGRAPHIC SURVEY NO. H- 7787(PA-11149)
NAKWASINA SOUND (SOUTHERN PART) AND KATLIAN BAY
S. E. ALASKA

SCALE 1:10,000 - DATE 1949

U.S.C. & G.S.S. PATTON, J. C. Partington, Comdg.

* * * * *

A. PROJECT:

This survey was accomplished under Instructions for Project CS-247, issued by the Director on 5 August 1947.

B. SURVEY LIMITS AND DATES:

This sheet covers the southern part of Nakwasina Sound on the northern side of the Crosswise Islands, and all of Katlian Bay.

Junction was made on the north in Nakwasina Sound with Sheet No. H- 7788⁽¹⁹⁴⁹⁾(PA-1249), at the entrance to Nakwasina Sound with Sheet No. H-7673⁽¹⁹⁴⁸⁾, and at the entrance to Katlian Bay with Sheet No. H-6764. (1942.)

Field work was started on 3 June 1949 and was completed on 29 September 1949.

C. VESSEL AND EQUIPMENT:

All hydrography was done in Launch No. 92 operating from the PATTON. Soundings were taken with an 808-A recording fathometer (No. 51), supplemented by hand lead soundings on shoals and in kelp.

Bottom samples were taken by wire with hand sounding machine mounted on the launch, and in the deeper portions by the PATTON using an electric, wire sounding machine.

D. TIDE AND CURRENT STATIONS:

The records from the tide station at Sitka were used for the reduction of soundings for the entire area.

No current stations were occupied ^{within} the limits of this survey.

E. SMOOTH SHEET:

The smooth sheet will be constructed and plotted by personnel of the Seattle Processing Office.

F. CONTROL STATIONS:

During the current season, second order triangulation was carried through Nakwasina Sound and Nakwasina Passage from a junction with 1948 stations in Nakwasina Passage to a strong tie with 1947 stations at the southern entrance to Nakwasina Sound. Second order triangulation was extended into Katlian Bay from 1942 stations.

The records, computations and a special report have been forwarded to the Washington Office.

Topographic stations were located by graphic control methods on aluminum mounted sheets Nos. T-7129 (PA-A-49) and T-7129 (PA-G-49). ^{of G.C. sheets} (subsequently destroyed; Desc. Report attached to D.R. of H-7789 (1949))

G. SHORELINE AND TOPOGRAPHY: (See T-8819, ~~T-8820~~, ~~T-8821~~ & T-8475 (1949))

The shoreline and topography will be compiled from air photographs of the area which were field inspected by this party.

Short sections of shoreline were rodded-in at the various plane table

setups. Over much of the area delineation of the shoreline will be difficult because of overhanging trees.

The low water line could not be established by hydrography in most places. The shoreline is very abrupt and rocky with overhanging trees. Sounding lines were run as close to the beach as circumstances would permit.

H. SOUNDINGS:

Soundings were taken with an 808 type fathometer (No. 51), operated on the fathom scale. Hand lead soundings were taken in critical areas on shoals and in kelp. Wire soundings were taken for obtaining bottom samples.

Velocity corrections to fathometer soundings were computed from serial temperature and salinity observations taken in deep water area in southern end of Nakwasina Sound and in Katlian Bay.

Comparisons between the A and B and the B and C scales of the fathometer, were taken on calm, smooth days over as flat a bottom as could be found.

I. CONTROL OF HYDROGRAPHY:

The hydrography is controlled by three-point sextant fixes on signals ashore. No unusual or substandard methods were used for this purpose.

J. ADEQUACY OF SURVEY:

This survey is adequate and complete and should supercede previous surveys of this area.

K. CROSSLINES:

The crosslines of this sheet, exclusive of development, constitute 10% of the total miles of soundings. The crossings are good considering the extremely steep slopes over much of the area.

L. COMPARISON WITH PREVIOUS SURVEYS: *See Review, par. 5.*

Previous surveys of this area were made in 1897, at a scale of 1:20,000, Sheet No. H-2302. The sounding lines were widely spaced and only limited development was accomplished. The new survey is much more detailed and complete. In general, the depths agree with previous surveys, but in most shoal areas, lesser depths were found.

M. COMPARISON WITH CHART NO. 8281:

The comparison drawn in "L" is applicable when comparison is made between the new survey and the latest edition of Chart No. 8281.

N. DANGERS AND SHOALS:

There are no dangers except in the proximity of the shoreline or near small islets.

Shoals in Nakwasina Sound:

1. A rock, bearing 4 feet at MLLW located about 50 meters offshore in the southwestern part of Nakwasina Sound in latitude $57^{\circ} 11'.52$, Longitude $135^{\circ} 25'.55$, Position 48e. This rock has a ledge, covered at all stages of the tide, which extends offshore approximately 50 meters from the visible portion of the rock. The limits of this ledge are delineated on the boat sheet. The ledge constitutes some danger to small boats cruising near a shoreline that is otherwise free of rocks and ledges.

2. A 12-5/10 fathom shoal located in Latitude 57° 11'.54, ✓
Longitude 135° 25'.20, Position 57-e + 57 seconds. 12 fms. 50 m. S. (59-60 e)

3. ^{15 smooth sheet} 15-3/10 fathoms, located in Latitude 57° 11'.18, ✓
Longitude 135° 25'.46, Position 199-d + 20 seconds.

4. ^{24⁵} 25 fathoms, located in Latitude 57° 11'.36, Long-
itude 135° 24'.50, Position 38-e + 1^m 10^s.

5. ^{7² fms. φ 57° 10.9', λ 135° 25.05'} ✓
Shoals in Katlian Bay:

1. 1-9/10 fathoms, located in Latitude 57° 10'.72, ✓
Longitude 135° 20'.06, Position 178-1.

2. ^{7¹} 7-2/10 fathoms, located in Latitude 57° 10'.52, ✓
Longitude 135° 18'.47, Position 46-m.

3. 2-4/10 fathoms on southern side of entrance to Kat-
lian Bay, in Latitude 57° 08'.84, Longitude 135° 22'.48, Position 89-m.
This shoal is noteworthy only because it is located at the narrow en-
trance to Katlian Bay, and in this locality the shoreline is abrupt and
the water deepens rapidly over most of the area.

O. COAST PILOT:

Coast Pilot information furnished in letter to Director,
dated 7 November 1949.

P. AIDS TO NAVIGATION:

There are no aids to navigation within the limits of ✓
this survey.

Q. LANDMARKS FOR CHARTS:

See "Air Photo Inspection Report".

R. GEOGRAPHIC NAMES: ⁸⁵⁴ ✓

There are no new names or changes in charted names of
geographic features.

S. SILTED AREAS:

The area enclosed within the 50 fathom curve is heavily silted. There is a layer of soft mud and ooze over most of this area approximately 8 to 10 feet in thickness.

Z. TABULATION OF APPLICABLE DATA:

The following listed Special Reports are pertinent to this survey and report:

- (1) Air Photo Inspection Report.
- (2) Descriptive Reports to Accompany topographic Sheets T-7129 (PA-A-49), and T-7129 (PA-G-49). *(D.R.'s attached to D.R. of H-7789)
(G.C. sheets destroyed)*
- (3) Temperature and Salinity Observations. *with forms present survey*
- (4) Coast Pilot Notes.
- (5) Triangulation Report.

Applicable Data Attached to this Report:

- (1) Table of Statistics.
- (2) Tide Note.
- (3) List of Signals.
- (4) Tables of Velocity Corrections (2).

Submitted by

Ira R. Rubottom
LCDR USC&GS
USC&GSS PATTON

Approved and Forwarded:

J. E. Partington
CDR USC&GS
Cmdg., USC&GSS PATTON

VELOCITY CORRECTIONS

U.S.C. & G.S. SHIP PATTON

J. C. PARTINGTON, COMMANDING

LOCALITY: NAKWASINA SOUND & PASSAGE, S. E. ALASKA

HYDROGRAPHIC SURVEYS NOS. PA-1119 and PA-1219
H-7787 H-7788

FOR USE BETWEEN 2 JUNE AND 24 JUNE 1949

LAUNCH NO. 92

TABLE OF PATHOMETER CORRECTIONS

0.0 Fms.		to	5.0 Fms.
-0.1 "	from 5.1 Fms.	"	10.0 "
-0.2 "	" 10.1 "	"	15.0 "
-0.3 "	" 15.1 "	"	19.0 "
-0.4 "	" 19.1 "	"	23.0 "
-0.5 "	" 23.1 "	"	28.0 "
-0.6 "	" 28.1 "	"	32.0 "
-0.8 "	" 32.5 "	"	40.0 "
-1.0 "	" 40.5 "	"	48.0 "
-1.2 "	" 48.5 "	"	56.0 "
-1.4 "	" 56.5 "	"	64.0 "
-1.6 "	" 64.5 "	"	72.0 "
-1.8 "	" 72.5 "	"	80.0 "
-2.0 "	" 80.5 "	"	Above

VELOCITY CORRECTIONS

U.S.C. & G.S. SHIP PATTON

J. C. PARLINGTON, COMMANDING

LOCALITY: KATLIAN BAY, S. E. ALASKA

HYDROGRAPHIC SURVEY NO. PA-11149
H-7787

FOR USE BETWEEN 19 SEPTEMBER AND 29 SEPTEMBER 1949

LAUNCH NO. 92

TABLE OF FATHOMETER CORRECTIONS

0.0 Fms.		to	8.0 Fms.
-0.1 "	17.0	"	17.0 "
-0.2 "	" 17.1 "	"	25.0 "
-0.3 "	" 25.1 "	"	31.0 "
-0.4 "	" 31.1 "	"	36.0 "
-0.6 "	" 36.5 "	"	45.0 "
-0.8 "	" 45.5 "	"	54.0 "
-1.0 "	" 54.5 "	"	63.0 "
-1.2 "	" 63.5 "	"	73.0 "
-1.4 "	" 73.5 "	"	81.0 "
-1.6 "	" 81.5 "	"	90.0 "
-1.8 "	" 90.5 "	"	98.0 "
-2.0 "	" 98.5 "	"	107.0 "

LIST OF HYDROGRAPHIC SIGNALS

SHEET H-7787 (PA-1149)

NAKWASINA SOUND & KATLIAN BAY, S. E. ALASKA

*Note: G.C.
Sheets destroyed*

Hydrographic Name	Source	Hydrographic Name	Source
Aot	PA-A-49	Gun	Tri. Sta. GUNNER 1947
Alp	PA-A-49	Guy	PA-G-49
Arm	PA-G-49		
Add	PA-G-49	Her	PA-G-49
Ace	PA-G-49	Hop	PA-A-49
At	Tri. Sta. FAT 1897	Hut	PA-G-49
Bat	PA-A-49	Ioe	Tri. Sta. SPICE 1947
Bal	Tri. Sta. JUBAL 1949	Ila	Tri. Sta. AQUILA 1947
Ban	PA-G-49	Irk	PA-G-49
Bee	Tri. Sta. BEEHIVE 1949	Its	PA-G-49
Bed	PA-G-49		
Bib	PA-G-49	Joe	PA-G-49
Bob	PA-G-49	Joy	PA-G-49
		Jug	PA-A-49
Cam	Tri. Sta. CAMPO 1949		
Cer	Tri. Sta. ULCER 1949	Kat	Tri. Sta. KAT 1942
Cop	PA-G-49	Kel	Tri. Sta. YOKEL 1949
Cor	Tri. Sta. CORONA 1947	Key	PA-A-49
Cry	PA-G-49	Kim	PA-G-49
Cut	PA-G-49	Kit	PA-G-49
Der	Tri. Sta. DERBY 1949	Lab	Tri. Sta. LABAN 1949
Dim	PA-A-49	Lat	Tri. Sta. BALAT 1949
Dip	Tri. Sta. DIPPER 1947	Lax	PA-G-49
Dix	PA-G-49	Let	PA-G-49
Dog	Tri. Sta. DOC 1897	Lian	Tri. Sta. LIAN 1942
Don	PA-G-49	Liz	PA-A-49
Dot	PA-G-49	Log	PA-A-49
Dud	PA-G-49		
		Mal	PA-G-49
Ebb	PA-G-49	Mag	Tri. Sta. MAGOG 1949
Egg	PA-G-49	Mer	Tri. Sta. GOMER 1949
End	PA-G-49	Mid	PA-G-49
Epo	Tri. Sta. EPOCH 1949	Mus	Tri. Sta. WAMUS 1949
Eva	PA-G-49		
Eye	PA-A-49	New	PA-A-49
		Nig	PA-A-49
Fag	PA-G-49	Nil	PA-G-49
Pat	PA-A-49	Nod	PA-G-49
Fox	PA-A-49	Nut	PA-G-49
Fry	PA-G-49		
Fun	PA-G-49	Obe	Tri. Sta. ADOBE 1949
		Old	PA-G-49
Gab	PA-A-49	Out	PA-G-49
Gad	PA-A-49		
Gal	PA-G-49	Par	PA-G-49
Gem	PA-G-49	Peg	PA-G-49

LIST OF HYDROGRAPHIC SIGNALS (Cont'd.)

SHEET H-7787 (PA-1149)

Hydrographic Name	Source	Hydrographic Name	Source
Pox	PA-A-49		
Pro	PA-G-49		
Rag	PA-A-49		
Ram	PA-G-49		
Rig	PA-G-49		
Rod	Tri. Sta. HEROD 1949		
Rub	PA-G-49		
Sad	PA-G-49		
Sal	PA-G-49		
Sax	PA-G-49		
Sig	PA-A-49		
Sit	Tri. Sta. SITKA 1942		
Sub	PA-A-49		
Tax	PA-G-49		
Toy	PA-G-49		
Tub	PA-G-49		
Unc	PA-G-49		
Use	PA-G-49		
Vet	PA-G-49		
Vim	PA-G-49		
Wad	PA-A-49		
Was	PA-G-49		
Why	PA-G-49		
Wise	Tri. Sta. WISE 1897		
Yak	PA-G-49		
Yea	Tri. Sta YEAST 1949		
Yel	PA-A-49		
Zag	PA-G-49		
Zig	PA-G-49		

*Note: G. C. sheets
destroyed*

H 7787
Pa 1149

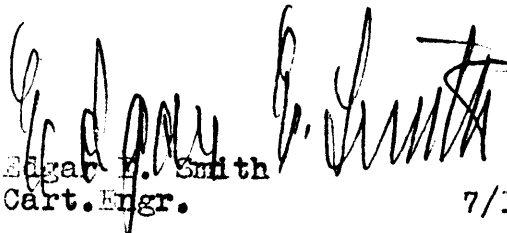
Sitka Sound
Katlian Bay and South Part Nakwasina Sound.

Processing Office Notes.

Smooth sheet.

The projection was made by hand on Whatman paper. The GP's are from the triangulation of Partington, 1949, field computations. Topographic signals are from graphic control plate ^{* Subse-} T 7129 a & b. The short stretches ^{quently} of shoreline shown are from the same graphic control ^{destroyed} sheets. No other shoreline suitable for smooth sheet use was available. A number of islets shown by dashed lines ^{Review, par. 1.} on the boat sheet have been transferred to the smooth sheet to explain open spaces in the sounded area and signals off the main line of the shore.

Other subjects have been considered in the report of the field party.



Edgar H. Smith
Cart. Engr.

7/18/50

H 7787
Pa 1149

Nakwasina Sound and Katlian Bay

List of geographic names
Penciled on smooth sheet.

Southeastern Alaska

Halleck Island

Baranof Island

Crosswise Islands

Beehive Island

Nakwasina Sound

Katlían Bay

Lisianski Peninsula

Halleck Island

TIDE NOTE

TYPE OF GAGE: STANDARD AUTOMATIC

**LOCATION: SITKA, BARANOF ISLAND, S.E. ALASKA
LAT. 57° 02.9'; LONG. 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- 7787 (PA-1149)

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

Date 1949	Day Letter	Vol. No.	Hand Lead & Wire Soundings	Pos.	Statute Miles of Soundings
3 June	a	1	--	30	5.2
6 June	b	1	23	58	5.3
7 June	c	1	--	127	18.7
8 June	d	1 & 2	--	252	34.7
9 June	e	2	--	122	15.3
10 June	f	2	--	103	5.8
11 June	A(Ship)	3	12	12	Bottom Spec.
19 Sept.	g	4	--	113	16.3
20 Sept.	h	4	--	214	29.5
24 Sept.	B(Ship)	3	12	12	Bottom Spec.
26 Sept.	j	5	--	166	20.2
27 Sept.	k	5 & 6	--	208	24.7
28 Sept.	l	6	1	181	26.0
29 Sept.	m	6	48	98	5.5
Totals:			96	1496	207.2

Area: 7.0 square statute miles

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ^{H-7787}

Records accompanying survey:

Boat sheets ¹.....; sounding vols. ⁶.....; wire drag vols.;
 bomb vols.; graphic recorder rolls ^{3 envel.}.....;
 special reports, etc.

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

Number of positions on sheet		1496
Number of positions checked		212
Number of positions revised		0
Number of soundings revised (refers to depth only)		0
Number of soundings erroneously spaced		9
Number of signals erroneously plotted or transferred		✓
Topographic details	Time	✓
Junctions	Time	✓
Verification of soundings from graphic record	Time	8
<i>Prelim. verif. by O. Svendsen 35 hrs. 8 Jan '52.</i>			
Verification by <i>J. B. Sherman</i>	Total time	116	Date 5-2-58
Reviewed by <i>J. A. Dinsmore</i>	Time	28 hrs.	Date 17 July 1952
Addendum Review by <i>L. L. Van Zant</i>		85 hrs	Date 19 June 1963
<i>Stirni</i>		4 hrs.	

GEOGRAPHIC NAMES

Survey No. H-7787

Name on Survey											1	
	A	B	C	D	E	F	G	H	K			
<u>Southern tern Alaska</u>												1
<u>Sitka Sound</u>												2
<u>Baranof Island</u>											USGB	3
<u>Nakwasina Sound</u>											"	4
<u>Katlian Bay</u>											"	5
<u>Lisianski Peninsula</u>												6
<u>Crosswise Islands</u>												7
<u>Beehive Island</u>												8
<u>Crosswise Islands</u>												9
<u>Halleck Island</u>												10
												11
												12
												13
												14
<u>Sitka</u>												15
												16
<i>Katlian River</i>												17
												18
												19
												20
												21
												22
												23
												24
												25
												26
												27

Names underlined in red are approved. 8-16-50 L. Heck

(location of tide gage)

Preliminary Verification

H-7787

Instructions

1. Inspect junctions for agreement of hydrography, and curves ✓
2. Verify the following:

✓	6.9 fm lat. 57° 11.07', long. 135° 25.95'		
✓	4.4	11.10	25.88' - spacing? - check with 239-240 cl
✓	12 ⁵	11.53	25.2
✓	15	11.2	25.55'
✓	7.2	10.96	25.02'
✓	0.2, 1.3, 2.4	10.57	24.75' - spacing 9.6 fm
✓	-	11.5	23.75' - areas outlined, dashed
✓	6.2	11.47	23.92
✓	-	11.69	23.55 end of L.W. reef (pos 2d)
✓	(-0.5)	12.40	22.71 - too far offshore? check with 1-3f
✓	0.5	12.03	22.74 " " "
✓	11	10.9	20.75
✓	3.5	10.97	20.75
✓	2.6	10.6	19.1
✓	0.5	10.7	19.73
✓	1.9	10.7	20.06
✓	-	10.16	20.55 pos 150K ^h incorrect
✓	-	10.39	20.02 pos 74, 75j incorrect
✓	-	10.74	19.1 pos. and spacings 34-35K, 155-157K
✓	-	10.49	18.53 pos 84K (note crossing 84-85K)
✓	7.1	10.52	18.47
✓	10.3	08.55	23.4
✓	2.4	08.83	22.48

G. F. Jordan

12-26-51

NOTE:

Many sdg. corrections have been ^{made} applied to irregular time interval readings. This fault in plotting, deserves especial care in final verification.

O. Svendsen
14 Aug '52

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7787

FIELD NO. PA-1149

S. E. Alaska, Sitka Sound, Nakwasina Sound and Katlian Bay

Project No. CS-247

Surveyed in June - September 1949

Scale 1:10,000

Soundings:

808 Fathometer
Hand lead
Wire

Control:

Sextant fixes on shore signals

Chief of Party - J. C. Partington
Surveyed by - J. C. Partington and I. R. Rubottom
Protracted by - G. W. Bergford
Soundings plotted by - G. W. Bergford
Preliminary Verification by - O. Svendsen
Verified and inked by - *J. C. Chambers*
Reviewed by - T. A. Dinsmore, 17 July 1952
Inspected by - R. H. Carstens

1. Shoreline and Signals

*The shoreline was applied before
Addendum to Review. L & V*

The application of shoreline has been deferred pending complete verification and inking of the smooth sheet. The short sections of inked shoreline originate with graphic control survey sheets PA-A-49 and PA-G-49 which are designated for destruction subsequent to the verification and review of the surveys in this area.

The signals also originate with the above-mentioned graphic control surveys.

2. Sounding Line Crossings

Depths at sounding line crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves are adequately delineated.

Except for irregularities inshore, the bottom for the most part is relatively smooth. In depths of 50 fms. and greater, the bottom is heavily silted. As much as 8 to 10 ft. of soft

mud and ooze covers much of the deeper areas.

4. Junctions with Contemporary Surveys

The present survey will junction adequately with H-7788 (1949) and H-7673 (1948) on the north and southwest, respectively, in Nakwasina Sound and with H-6764 (1942) at the southwestern end of Katlian Bay. The transfer of junctional soundings will be made at the time the survey is completely verified and inked.

5. Comparison with Prior Surveys

H-2302 (1897) 1:20,000

The present survey falls within the area covered by this prior survey. A comparison between the prior and present depths indicates that no changes in bottom have taken place. Prior depths in the deeper areas are generally slightly greater than present depths but such differences are usually found when comparing lead line and fathometer soundings in extremely soft bottom. The present survey obtained many shoal depths not revealed by the sparse development on the old survey.

The 17-fm. sounding charted in lat. $57^{\circ} 10.97'$, long. $135^{\circ} 24.45'$, from H-2302 should be disregarded. Falling in present depths of 50 fms., the prior sounding was plotted out of position. In its corrected position about 200 meters southward, the prior sounding falls in comparable depths on the present survey.

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

6. Comparison with Chart 8281 (Latest print date 3/5/51)

A. Hydrography

Charted hydrography originates principally with the previously discussed survey supplemented by critical soundings from the present survey prior to verification and review.

The charted information is entirely superseded by the present survey.

B. Aids to Navigation

No aids to navigation are charted within the limits of the present survey. The only dangers to navigation lie close inshore or adjacent to small islets.

7. Condition of Survey

- a. The sounding records are complete; the Descriptive Report covers all matters of importance.
- b. The preliminary inspection and verification of the survey sheet indicated that the smooth plotting was adequate except that several obvious discrepancies were not resolved by the smooth plotter. The discrepancies referred to resulted from erroneous position plotting and were readily discernable because of differences of as much as 20 fms. at sounding line crossings in smooth bottom. The erroneous positions have been replotted in the Washington Office.


8. Compliance with Project Instructions

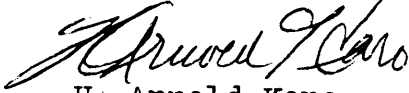
The survey adequately complies with the Project Instructions. Coverage of the area for bottom characteristics was unusually complete.


9. Additional Field Work

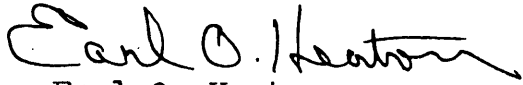
The survey is considered to be basic for the area covered and no additional field work is necessary.

Examined and approved:


H. R. Edmonston
Chief, Nautical Chart Branch


H. Arnold Karo
Chief, Division of Charts


L. S. Hubbard
Chief, Section of Hydrography


Earl O. Heaton
Chief, Division of Coastal Surveys

Addendum to Review

H-7787 (1949)

Verified and inked by - J. C. Chambers
Review addendum by - L. L. Van Zant
Inspected by - I. M. Zeskind

The verification of this survey has been completed. Soundings, shoreline, and depth curves have been completely inked. The shoreline originates with reviewed photogrammetric surveys T-8475, T-8819 and T-8821 of 1942-49.

Junctions with Contemporary Surveys

Adequate junctions were completed with H-7788 (1949) on the north, with H-7673 (1948) on the west and with H-6764 (1942) on the south.

Comparison with Chart 8281 (print date 4/4/60)


The hydrography was charted after verification and preliminary review of the present survey and is in agreement with the present survey.

Condition of Survey

(a) Completion of the verification reveals that the smooth plotting was well done.

(b) The Descriptive Report is complete and comprehensive.

Approved:


Lorne G. Taylor
Chief, Nautical Chart
Division

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~DIVISION OF HYDROGRAPHY AND TOPOGRAPHY~~

18 August 1950

Division of Charts: R. H. Carstens

Plane of reference approved in
6 volumes of sounding records for

HYDROGRAPHIC SHEET 7787

Locality Katlian Bay, Alaska

Chief of Party: J. C. Partington in 1949
Plane of reference is mean lower low water, reading
5.0 ft. on tide staff at Sitka
13.1 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. McKay
Section
Chief, Division of Tides and Currents.

