

7015

7015

Form 504 U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT	
Type of Survey	Hydrographic
Field No. ^{Ex} H-2144,45	Office No. H-7015
LOCALITY	
State	Alaska - Aleutian Islands
General locality	Attu Island
Locality	Temnac Bay
and Approaches to Attu I.	
<u>194⁴-5</u>	
CHIEF OF PARTY	
Roland D. Horne	
LIBRARY & ARCHIVES	
DATE	June 28, 1945 Sept. 25, 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. H7015

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. EX 2144

REGISTER NO. H-7015

State Alaska - Aleutian Is.
General locality ~~Aleutian Islands~~ Attu I.
Locality Tenna Bay and Approaches, Attu Island
Scale 1:20,000 Date of survey Aug. 25 to Oct. 4, 1944
Vessel EXPLORER
Chief of Party Lt. Comdr. Roland D. Horns
Surveyed by W. Weidlich, F. B. Quinn, J. E. Schultz
Protracted by H. G. Parsons
Soundings penciled by H. G. Parsons
Soundings in fathoms ~~xxxx~~ Fathoms and Tenths
Plane of reference MLLW
Subdivision of wire dragged areas by _____
Inked by G.B. Woolley
Verified by G.B. Woolley
Instructions dated March 25, 1944, 19_____
Remarks: Smooth Sheet and Plotting
by the Seattle Processing Office

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. H7015

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. _____

REGISTER NO. 7015

State Alaska - Aleutian Is.

General locality Attu I
Aleutian Islands

Locality Tennac Bay, Attu Island
and Approaches

Scale 1:20,000 Date of survey 28 April - 9 June, 1945

Vessel Launches 1 and 2 (Explorer)

Chief of Party Roland D. Horne

Surveyed by E. C. Baum

Protracted by D. H. Benson

Soundings penciled by 1

Soundings in fathoms ~~feet~~ and Fathoms

Plane of reference MLLW

Subdivision of wire dragged areas by _____

Inked by A. B. Woolley

Verified by A. B. Woolley

Instructions dated _____, 19____

Remarks: _____

DESCRIPTIVE REPORT TO ACCOMPANY SHEET NO. H-2144 (Ship)

Date of Instructions:

This is part of Project 5 - Hydrography and Topography, South Coast of Attu Island - Instructions for Field Work, 1944, dated March 25, 1944.

Survey Methods:

Standard survey methods were used throughout this sheet. The control was based on triangulation in the Massacre Bay vicinity done by the Navy in 1943 from control extended by the Army from Chichagof Harbor on the 1934 Gannet Datum. This triangulation was supplemented by further observations in the vicinity of Massacre Bay and extended to Theodore Point and Temnac Bay by the EXPLORER in 1944. A half-mile baseline was measured in Temnac Bay by the EXPLORER and made part of this scheme. Topographic signals were located by the EXPLORER in 1943 and 1944 for the area of this sheet. The projection on the boat sheet is somewhat out of position due to the preliminary expansion of the triangulation from the Temnac Baseline.

The 808 depth recorder was used throughout, both the "A" and "B" scales being used. A constant correction of plus 5 feet is applied to all "B" scale readings, based on comparisons made at Holtz Bay on Sheet ^{H-7017 (1944-45)} 2344. The initial was set at the beginning of each day for the draft reading of the ship. 15 vertical casts were taken over the area of the sounding to check the fathometer readings and to obtain bottom characteristics. One set of serial temperatures taken on August 4, 1944 are applicable to this area.

The sounding lines were run north and south, except at the northwest limits where lines were run northeast and southwest entering Temnac Bay parallel to the shoreline trend. The lines were spaced approximately 250 meters apart at the outer limits of the sheet to 150 meters apart at the inner limits. A sufficient number of crosslines were run to meet the general requirements.

The sheet is complete within the limits of the area covered by this survey, except at two spots where further development is recommended. These are the 9 fathom spot in general depths of 30 fathoms at latitude $52^{\circ}45.75'N$, longitude $173^{\circ}04.70'E$ which was also indicated on the launch sheet of this area, and the 21 fathom spot in general depths of 30 fathoms at latitude $52^{\circ}45.95'N$, longitude $173^{\circ}10.40'E$ *Accomplished in 1945*

The irregular bottom area at latitude $52^{\circ}46.5'N$, longitude $173^{\circ}00.5'E$ was also covered by the launch party with cross lines and is believed to be sufficiently developed.

Comparison with Previous Surveys:

There have been no previous surveys of this area, except for an overlap junction of 1943 sheet H-6939 at the east on a scale of 1:20,000 and of 1943 Sheet H-6938^c at the south on a scale of 1:100,000.

The junction with Sheet H-6939 overlaps a distance of two miles because of splits left in the 1943 work and poor control available in 1943 for the outer limits. Good agreement was obtained.

The comparison with the 1:100,000 Sheet H-6936 appears to be satisfactory, but the spacing of soundings and lines on Sheet H-6936 is too wide for a complete check. Where differences exist, the close and complete development on Sheet H-2144^{H-7015} should be accepted in all cases. See Rev., Par. 4

Discrepancies:

There are no discrepancies noted in this survey.

Dangers:

All dangers in the area covered by this sheet appear plainly on the boat sheets for the launch work. There may be shoaler depths at the 9 fathom and 21 fathom spots indicated in paragraph 4 of "Survey Methods" above.

Channels and Anchorages:

There is good anchorage for ships at the head of Temnac Bay. The

Ship EXPLORER anchored at latitude 52°49.ON, longitude 173°03.5E, with the south tangent of Krasni Point and the north tangent of the island at the west entrance to the head of the bay on range. Fine grey sand bottom is found in this area.

The rocks awash at latitude 52°48.ON, longitude 173°04.35E and the foul area extending $1\frac{1}{4}$ miles south-southwest of Krasni Point should be particularly noted and avoided.

Statistics:

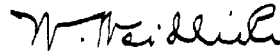
Number of positions- - - - - 1147

Number of statute miles of sounding lines- - - - - 455.1

Tidal Note:

Tides recorded by the standard automatic tide gage No. 401 at Massaore Bay control the tide reductions on this sheet.

Respectfully submitted,



W. Weidlich, Mate, C&GS

Approved and forwarded:



Roland D. Horne, Lieut. Comdr., C&GS
Commanding Ship EXPLORER

DESCRIPTIVE REPORT TO ACCOMPANY ADDITIONAL
WORK ON HYDROGRAPHIC SHEET NO. 7015

Project CS-218, Sub project No. 5, dated 12 April 1945.

Method of Survey:

No unusual methods of Survey were used. The Survey consisted of some additional work on the hydrographic Survey Sheet accomplished in 1944 with the development of shoals not sufficiently developed on original survey.

Respectfully Submitted,



Edwin C. Baum,
Lt. Comdr., C&GS.

Approved and forwarded:



Roland D. Horne,
Comdr., C&GS.

Descriptive Report to Accompany Sheet 2144 (Launch)

Date of Instructions:

Project 5 Survey of Temnac Bay, Attu Island, by Lieut. Comdr. C. M. Durgin dated March 25, 1944.

Survey Methods:

Standard survey methods were used throughout this sheet. Launches No. 1, 2 and 3 were used with Lieut. Comdr. F. B. Quinn and Lieut. (j.g.) J. E. Schultz in charge. The control was based on triangulation by the U. S. Navy 1943 (HYDROGRAPHER), based on the Gannet (1934) datum. A Base Line was measured in Temnac Valley. Planetable positions were used for additional signals and shoreline detail. Additional shoreline detail was taken from air photographs 9-22-43; which were flown by the U. S. Army Air Corps.

The 808 depth recorder was used in both launches with bar checks made three times daily, at the beginning middle and end of each day's work. Vertical casts were taken with leadlines over the area of the survey and bottom characteristics were noted at the same time.

The serial temperature which was taken on August 8, 1944, in Steller Cove, is to be used in this area.

The sounding lines were run North and South to obtain a development normal to the beachline. Lines were spaced 90 to 150 meters apart.

Comparison with Previous Surveys:

There were no previous surveys of this area.

Discrepancies:

There are no discrepancies in this survey.

Dangers:

The important dangers are surrounded by depth curves on the boat sheet.

Anchorage:

Safe anchorage, except during Southerly weather, may be had with fine grey sand bottom in 30 fathoms.

25

A safe anchorage for small boats in Southerly weather in 12 fathoms may be had behind Temnac Island.

Statistics:

Number of positions- - - - -1266

Number of statute miles of sounding lines- - - - -268.8

Tidal Note:

The standard tide gage in Massacre Bay was used for the period of this survey.

Recommendations:

Some development over the ^{9%} 11 fathom shoal 4868 meters *Accomplished in 1945 - 6⁷ fathoms*
~~South~~ ^{North} of station Temnac should be done.

A small area between Temnac Bay and Murder Point should be done in the future. The signals are built and located but the weather did not permit the completion of this project at this time.

Accomplished in 1945

Junctions with other sheets:

This sheet joins sheet H6939 with the specified overlap.

General:

A preliminary compilation of this sheet, on a scale of 1:20,000 was supplied to Lieut. Comdr. C. M. Durgin in October 1944.

Respectfully submitted,

Francis B. Quinn
Francis B. Quinn, Lt. Comdr., C&GS

John E. Schultz
John E. Schultz, Lt. (j.g.), C&GS

Approved and forwarded:

Roland D. Horne
Roland D. Horne, Lt. Comdr., C&GS
Comdg. Ship EXPLORER

Seattle Processing Office Notes

EX 2144

H-7015

Temnac Bay - Attu I.

Datum-

USN 1934, assuming CHIO 1943 as a recovery of the Navy's Astro. Station of 1934.

Control-

Triangulation by the HYDROGRAPHER in 1943 and by the EXPLORER in 1944. Geographic Positions for the 1943 stations are from the recomputation by the party on the EXPLORER made during 1944. Topographic signals are from T-6970. ^{T-6970} Cuts to locate hydro. signal YEL are recorded in Vol. 10.

Shoreline-

Inked shoreline is from T-6970. ^{T-6969} Pencilled shoreline was sketched from photographs and is approximately in position. Dotted lines indicate danger line as sketched on photographs 9-43, scale 1:26,000 (approx.) by Lt. Comdr. H. O. Fortin, while engaged on field inspection.

Boat Sheets-

Boat sheets were returned to the field party for additional work during 1945.

Discrepancies-

By rescanning the fathogram record, all bad crossings were cleared up. These extra soundings were inserted in the sounding record book.

Depth Curves-

Because of the irregularities of the bottom, the depth curves were emphasized to bring out their shape. The 15 fm. curve was also added for the same reason.

15 fm curve was considered unnecessary and was omitted.

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Dangers-

Two kelp fields extend southwesterly from Krasni Point to a distance of one and one half miles. It was difficult for the launch to work through them and the kelp traces made the fathogram hard to read. Although the work was done in a light chop, the mass of kelp kept the swells and breakers from showing. Least depths would only be found in seasons when the kelp would be gone. *Should have used handlead* ^{NWM}

The 11 fm. launch sounding in Lat. 52° 45'75 N Long. 173° 04'70 E is definitely a side echo of the 9.5 fm. ship sounding in the same locality. No breaker was noted in a heavy chop. 83)

Least Soundings-

All least soundings were checked against the fathograms for errors.

<u>Least Depth</u>	<u>Position</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Remarks</u>
4/8 ✓	170-171b	52° 49.12	173° 01.35 ✓	
3.3 ✓	41-48f	52 49.21	173 01.58 ✓	
3.8 ✓	118-119b	52 49.18	173 01.52 ✓	
3.5 ✓	82-83b	52 49.39	173 01.88 ✓	
3.6 ✓	33-34f	52 49.02	173 01.81 ✓	
4.6 ✓	171-172b	52 49.06	173 01.72 ✓	
9.1 ✓	69-70b	52 49.30	173 02.12 ✓	
14 ✓	12-13f	52 49.05	173 02.15 ✓	
5 ✓	90-91a	52 49.17	173 04.30 ✓	
8.6 ✓	41-42f	52 48.88	173 01.80 ✓	
6.6 (not plotted)	38-39a	52 48.02	173 03.83 ✓	
6.6 ✓	60-61a	52 48.01	173 04.05 ✓	
8.1 ✓	146-147d	52 48.02	173 06.08 ✓	
5.8 ✓	104-105a	52 47.86	173 04.31 ✓	
14.5*	98-99a	52 47.34	173 04.16	(*depth of 13.5
9.1 ✓	70-71c	52 47.65	173 04.72	recorded on fath.
6.8 ✓	100-101d	52 47.86	173 05.85	on LTRA between
9 ✓	179-180d	52 47.72	173 06.21	197 and 198C, ship)
4.5 ✓	4-5e	52 47.67	173 06.40 ✓	
1.1 ✓	29-30e	52 47.57	173 06.52 ✓	
1.5 ✓	23-24e	52 47.01	173 06.81 ✓	
5.1 ✓	109-110e	52 47.04	173 07.03 ✓	
3.5 ✓	111-112e	52 47.10	173 07.15 ✓	
14.5 ✓	67-68a	52 46.40	173 00.28 ✓	
1.5* 6.0	151-152d	52 46.70	173 06.20	(*Fath. looks like kelp over 6.5 bottom.)

Least Depth	Position	Latitude	Longitude	Remarks
2.6 ✓	161-162d	52° 46.160	173° 06.34	
1.8^{miss}	112-113e	52 46.88	173 07.17	
2.3⁰	130-131e	52 46.98	173 07.40	
5.6 ✓	106-107e	52 46.37	173 07.12	
✓ 9.5* ✓	45-46D	52 45.72	173 04.61	<i>Add. W.F. accomplished in 1945</i> (*Additional develop- ment needed.)
✓ 13.5 ✓	123-124F	52 45.86	173 07.12	
5.5* ✓	152-153d	52 46.5	173 06.2	*This sdg. may be 2 fms. deeper.
14.5 ✓	202-203a	52 45.9	173 04.2	
✓ 21. ✓	42-43H	52 45.9	173 10.3	Add. development (desirable) <i>Add. W.F. accomplished in 1945</i>

H-7015

Geographic Names

Pencilled on Smooth Sheet

Attu Island ✓

Temnac Bay ✓

Krasni Point ✓

Murder Point

Theodore Point ✓

H-7015

Tidal Note

Temnac Bay - Attu I.

Massacre Bay

Standard Automatic Gage #401 on
Navy Pier No. 1

Latitude 52° 50.5

Longitude 173 11.7

Staff Reading of MLLW --- 3.94 ft.

TIDE NOTE

Automatic tide gage located on Navy Pier No. 2, Massacre Bay. Latitude $52^{\circ} 50' .9$ N, Longitude $173^{\circ} 11' .6$ E.

MLLW on staff is 3.4 feet.

EX 2144

H-7015

Temnac Bay - Attu Island

Date	Day Letter	Vessel	Vol.No.	Positions	Stat.Mi. Sdg. Line
1944					
Aug. 23	A	EXPLORER	1	83	29.2
" 25	B	"	1	97	39.9
" 26	C	"	2	205	87.6
" 26	C	"	3	7	3.0
" 27	D	"	3	221	88.0
" 27	D	"	4	15	6.0
" 29	E	"	4	82	33.3
Sept. 4	F	"	4	134	54.0
" 4	F	"	5	34	15.0
" 9	G	"	5	139	48.3
Oct. 3	H	"	6	72	27.8
" 4	J	"	6	52	23.0
Aug. 23	a	Lch. #2	7	147	35.3
" 25	b	"	7	83	19.2
" 25	b	"	8	176	44.0
" 26	c	"	8	178	35.8
" 27	d	"	9	183	46.0
" 28	e	"	9	84	12.0
" 28	e	"	10	68	14.8
" 29	f	"	10	80	11.2

Date	Day Letter	Vessel	Vol. No.	Positions	Stat. Mi. Sdg. Line
Sept. 2	g	Lch. #1	10	72	11.5
" 9	h	"	10	60	12.2
" 9	h	"	11	119	25.4
" 2	a	Lch. #3	12	<u>97</u>	<u>20.6</u>
Totals				2488	743.1

Area - 75 Square Statute Miles

HYDROGRAPHIC SHEET # 7015 (1944)

SHOWING CRITICAL LEAST DEPTH AS DEVELOPED DURING 1945

<u>Depth</u> Fms-tenth	<u>Latitude</u>	<u>Longitude</u>	<u>Volume</u>	<u>Position</u>
5.0 1.9 fms. ✓ 4.7	52°47'.67	173°04'.78	2	156-157 m 146-147 m
6.7 fms. ✓	52°45'.76	173°04'.52	2	80 m 79 m & 82 m
13.2 fms. ✓	52°45'.88	173°04'.2	2	104-105 m
17.2 fms. ✓	52°45'. 93 68	173°04'. 89 00	2	100-101 m
17.3 fms. ✓	52°45'. 71 68	173°04'.04	2	50 m
12.8 fms. ✓	52°45'.85	173°07'.14	2	123-124 m
12.5 fms. ✓	52°46'. 14 09	173°07'. 02 18	2	125-124 m 125-126
3.8 fms. ✓	52°46'.31	173°07'.05	2	158-159 1
17.0 fms. ✓	52°45'.87	173°09'.42	2	130-131 1
19.3 ⁶ fms.	52°45'. 88 92	173°10'.31	2	80-81 1 77-78 2
15.3 fms. ✓	52°46'.72	173°09'.06	1	33-34 1
1.9 fms.	52°47'.3	173°09'.2	1	25 1

STATISTICS

Number of Statute miles of Hydrography - - - - - 122.9
 Number of Square Statute miles of Hydrography - - - - - 4.0
 Number of positions - - - - - 801

NAME	LATITUDE	dm	LONGITUDE	dp
WIG	52° 46'	510.2 (1344.5) ✓	172° 57'	67676.0 (44800) ✓
UHO	52 46	753.9 (1100.8) ✓	172 57	617.0 (508.0) ✓
OK	52 46	884.3 (970.4) ✓	172 57	958.8 (166.2) ✓
MIN	52 46	1232.7 (622.0) ✓	172 58	104.0 (1021.0) ✓
PAB	52 46	1450.0 (404.7) ✓	172 57	1069.0 (56.0) ✓
PIF	52 47	99.5 (1765.2) ✓	172 58	240.6 (884.0) ✓
ACH	52 47	1689.3 (165.4) ✓	172 59	438.2 (686.0) ✓
ZIG	52 47	1706.5 (148.4) ✓ 1735.0	172 59	-886.0 (288.2) ✓ 625.0

DM's and DP's scaled from topographic sheet B 1945 by the field party.

T-7006 Temporary registry No.

COPY

DEPARTMENT OF COMMERCE
U. S. Coast & Geodetic Survey

82-DRM

18 June 1945

To: Officer in Charge,
Seattle Processing Office
1500 Westlake Avenue North,
Seattle 9, Washington

Subject: H-7015, Temnac Bay

In reply to your letter dated 11 June 1945, please forward the smooth sheet of Temnac Bay to this office. After photostating, it will be returned to you for further smooth plotting when the 1945 field data become available.

(Signed)

J. H. Hawley
Acting Director

Edgar E. Smith
Respectfully submitted,

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

Approved and Forwarded,

F. H. Hardy

**F. H. Hardy
Officer in Charge,
Seattle Processing Office**

H-7015

Temnac Bay, Attu Island

Seattle Processing Office Notes

The three sounding volumes for the additional work on hydrographic sheet H-7015, Temnac Bay, Attu Island, have been reduced in the processing office and are being forwarded to Washington for plotting in accordance with the Director's letter of 30 June 1945, 82-DRM.

The boat sheet and fathograms have been retained by the field party.

Respectfully submitted,

Edgar E. Smith
Edgar E. Smith
Cartographic Engineer

Approved and Forwarded,

F. H. Hardy

F. H. Hardy
Officer in Charge,
Seattle Processing Office.

GEOGRAPHIC NAMES

Survey No. **H7015**

Name on Survey	Source										No.	
	A	B	C	D	E	F	G	H	K			
<u>Alaska</u>												1
<u>Aleutian Islands</u>												2
<u>Attu Island</u>										USGB		3
<u>Temnao Bay</u>										"		4
<u>Murder Point</u>										"		5
<u>Krasni Point</u>										"		6
<u>Theodore Point</u>										"		7
												8
												9
												10
												11
												12
<u>Masseore Bay</u>												13
												14
												15
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												17
												18
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												20
												21
												22
												23
												24
												25
												26
												27

Names underlined in red approved
by L Heck on 6/28/46

location of tide staff

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. ..H7015

Records accompanying survey:

Boat sheets .3...; sounding vols. ¹⁵~~12~~.; wire drag vols.;
 bomb vols.; graphic recorder rolls ..~~5~~6.;
 special reports, etc. .1. [?]overlay.....

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

Number of positions on sheet	32.90
Number of positions checked	..280
Number of positions revised	...15
Number of soundings recorded	2,3030 (approx 80% plotted)
Number of soundings revised (refers to depth only)	..70.
Number of soundings erroneously spaced	..30.
Number of signals erroneously plotted or transferred	..1..(ZIG)
Topographic details	Time .53..
Junctions	Time .48 hrs
Verification of soundings from graphic record	Time .150 hrs.

Verification by *G.R. Woolley*... Total time 39.7 hrs. Date June 20, '46

Review by *R.H. Carstens*.... Time 33 hr Date June 28, 1946

TIDE NOTE FOR HYDROGRAPHIC SHEET

July 10, 1945.

~~Division of Hydrography and Topography:-~~

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

Plane of reference approved in
12 volumes of sounding records for

HYDROGRAPHIC SHEET 7015

Locality Temnac Bay and approaches to Attu Island, Aleutian Islands

Chief of Party: R. D. Horne in 1944
Plane of reference is mean lower low water reading
3.9 ft. on tide staff at Massacre Bay
6.5 ft. below B. M. 1

Height of mean high water above plane of reference is 3.3 feet.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 7015

FIELD NO. EX-2144, 45

Alaska-Aleutian Is., Attu I., Temnac Bay and Approaches
Surveyed in August 1944 - June 1945 Scale 1:20,000
Project No. CS-218

Soundings:

Control:

808 Fathometer

Sextant fixes on shore signals

Chief of Party - R. D. Horne

Surveyed by - W. Weidlich, E. C. Baum, F. B. Quinn and
J. E. Schultz

Protracted by - H. C. Parsons and D. H. Benson

Soundings plotted by - H. C. Parsons and D. H. Benson

Verified and inked by - G. B. Woolley

Reviewed by - R. H. Carstens, June 28, 1946

Inspected by - H. W. Murray

1. Shoreline and Signals

The shoreline and signals are from T-6969 and T-6970 of 1944 and T-7006 (1945). ~~The pencilled shoreline of the islands in lat. 52° 48.3', long. 173° 04.7' was sketched from photographs and is approximate. Cuts locating hydrographic signal Yel were recorded in the sounding records.~~ ^{added from T-6970 2/1/49 - G.F.J.}
(Insert on T-7006 was not used), but should be used in compilation - G.F.J.

2. Sounding Line Crossings

Depths at crossings are in satisfactory agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves were satisfactorily drawn.

The bottom in this area is very irregular. Numerous shoals and pinnacles rise abruptly from deeper depths. A shoal covered with kelp extends about 1 mile south of Krasni Point. In lat. 52° 45.7', long. 173° 04.6' a shoal with a least depth of 6-7/10 fms. rises from general depths of 25-35 fms. Eastward from this shoal, there are several other shoals with depths of 13 to 19 fms. In the vicinity of lat. 52° 48', long. 173° 04', there are several offlying dangers consisting of a rock awash and several 5-fathom shoals.

4. Junctions with Contemporary Surveys

A satisfactory junction was effected with H-6869 (1945) on the west, H-7018 (1945) on the south and H-6940 (1943) on the northeast. The junction with H-6939 (1943) on the east is generally satisfactory. Several lines of soundings from that survey which would cause unnatural curves on the present survey were not transferred. Curves should be charted from the present survey.

Agreement with depths from H-6936 (1943) overlapping the present survey is satisfactory. Development on the present, larger-scale survey is adequate to reveal all the essential information. Only those soundings from H-6936 which have been retained on H-7018 were transferred to the present survey.

No inshore survey on the west is registered at the present time.

5. Comparison with Prior Surveys

Except for the overlapping areas on H-6939 and H-6936 considered in the previous paragraph there, are no prior surveys of the area by this bureau.

6. Comparison with Chart 9129 (Latest print date 11/24/45)

A. Hydrography

The charted hydrography originates with advance information of surveys of 1943-45 shown on bp. 38970 and in chart letters 432 and 466 (1945). The following more important charted soundings have been changed 1 to 4 fms. in the process of verification and should be revised to agree with the present survey:

<u>Chart Sounding</u>	<u>Latitude</u>	<u>Longitude</u>
<small>SUPERSEDED</small>		
✓a. 1	52° 47.65'	173° 09.6'
✓b. 1/2	52° 47.3'	173° 09.18'
✓c. 2-1/4	52° 46.97'	173° 07.4'
✓d. 4-1/2	52° 46.24'	173° 07.02'
✓e. 1-1/2	52° 46.88'	173° 07.18'
✓f. 3-1/4	52° 47.1'	173° 07.12'
✓g. 1-1/4	52° 46.7'	173° 06.2'
✓h. 1	52° 47.57'	173° 06.51'
✓i. 4-1/4	52° 47.67'	173° 06.4'
✓j. 1-1/4	52° 47.44'	173° 06.8'
✓k. 2	52° 47.68'	173° 04.78'
✓l. 4	52° 47.57'	173° 04.75'
✓m. 1/2	52° 47.86'	173° 05.85'
✓n. 4-1/2	52° 50.05'	173° 04.38'
✓o. 6-3/4	52° 49.18'	173° 00.75'
✓p. 2-1/2	52° 47.78'	172° 59.7'

The following charted soundings and hydrographic features were compiled in error on bp. 38970. This information should be revised to agree with the present survey:

<u>Charted</u>	<u>Latitude</u>	<u>Longitude</u>
a. Rock awash	52° 47.25'	173° 07.15'
b. 5-1/2	52° 47.18'	173° 08.17'
c. 23	52° 45.54'	173° 06.15'
d. Rock awash	52° 48.23'	173° 05.35'
e. Islet	52° 50.18'	173° 04.35'
f. 2-1/4	52° 49.6'	173° 04.3' pos. changed on smooth sheet
g. 4-1/2	52° 46.4'	173° 06.8'
h. Rock awash	52° 49.94'	173° 03.7' pos. changed on smooth sheet

The 16 charted in lat. 52° 46.8', long. 173° 08.8' from H-6939 is disproved by present survey soundings and should be disregarded. The sounding is on a poorly controlled line on H-6939 and is probably out of position. The present survey shows a similar shoal a few meters east of the 16.

The islets charted in the vicinity of lat. 52° 47.7', long. 173° 10.2' from bp. 38970 are on a reef awash at MHW. They should be revised to agree with the present survey.

Because of the numerous differences between charted information and present survey information, the chart should be brought into agreement with the present survey.

B. Aids to Navigation

There are no floating aids to navigation within the limits of the present survey.

7. Condition of Survey

The protracting and field plotting of soundings were satisfactory.

The Descriptive Report is complete and comprehensive.

Interpretation of fathograms was not in accordance with the practice in the Washington office. In numerous instances the tops of kelp traces were read as soundings. About 15 such soundings charted as critical depths from advance information were changed during the review of the survey.

8. Compliance with Instructions for the Project


The survey complies with the Instructions except that no attempt was made to check critical depths in kelp areas with the handlead. Detached sounding on shoals were taken only with the fathometer.

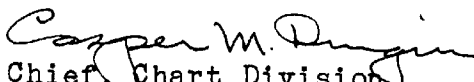
9. Additional Field Work Recommended

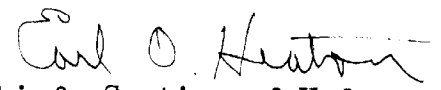
Handlead verification of the following shoals is recommended:

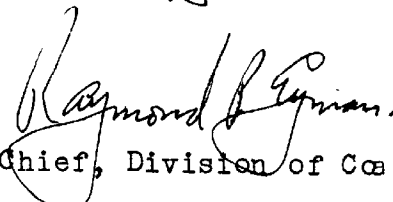
<u>Shoal</u>	<u>Latitude</u>	<u>Longitude</u>
✓3 fms.	52° 47.85'	173° 06.00'
✓4.7 fms.	52° 47.65'	173° 04.75'
✓5.4 fms.	52° 48.02'	173° 03.82'
✓2 fms.	52° 47.31'	173° 09.23'
✓2.6 fms.	52° 46.6'	173° 06.35'
✓3.8 fms.	52° 46.3'	173° 07.05'

Examined and approved:


Chief, Nautical Chart Branch


Chief, Chart Division


Chief, Section of Hydrography


Chief, Division of Coastal Surveys

H.W.M.

TIDE NOTE FOR HYDROGRAPHIC SHEET

October 2, 1945.

~~Division of Hydrography and Topography:~~

Division of Charts: Attention: H. W. MURRAY

Plane of reference approved in
3 volumes of sounding records for

HYDROGRAPHIC SHEET 7015 (Additional Work)

Locality Temnac Bay, Aleutian Islands, Alaska

Chief of Party: R. D. Horne in 1945
Plane of reference is mean lower low water, reading
3.4 ft. on tide staff at Massacre Bay
6.8 ft. below B. M. 1

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

Condition of records satisfactory except as noted below:

H. A. M.
Actg Chief, Division of Tides and Currents.

