

6919

6919

<small>Form 504</small>	
U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Hydrographic
Field No. 2443	Office No. H-6919
LOCALITY	
State	Alaska
General locality	Andreanof Islands
Locality	Chugul I. to Little Tanaga I.
<u>1943</u>	
CHIEF OF PARTY	
C. D. Meaney M. V. PATTON	
LIBRARY & ARCHIVES	
DATE	

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.

Field No. 2445 VD

REGISTER NO. H-6914⁹

State Alaska

General locality Aleutian Islands

Locality Andreanof Islands - Asuksak Pass

Scale 1120,000 Date of survey April 16, 1943

Vessel EXPLORER

Chief of Party G. G. Mattison

Surveyed by S. B. Grenell

Protracted by W. M. Martin

Soundings penciled by "

Soundings in ~~fathoms~~ feet

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by R.H. Carstens

Verified by R.H. Carstens

Instructions dated April 16, 1943

Remarks: smooth sheet & plotting by Seattle Processing Office

NOTES TO ACCOMPANY FIELD SHEET 2443

H 6919

INSTRUCTIONS: Hydrography by the PATTON on these sheets was executed in accordance with verbal instructions by the Commanding Officer of the U.S.C. & G.S. EXPLORER.

SHEETS: The projections used in the field and all triangulation and topographic stations were plotted by personnel attached to the EXPLORER. All hydrographic stations were located and plotted by PATTON personnel. The angles observed to locate these signals are recorded in the sounding volumes. ~~The inshore hydrography and dangerous shoals were located by EXPLORER personnel.~~ ^{They} Other hydrography was executed by PATTON personnel. The scale of the sheet is 1:20,000.

TIDE REDUCERS: Tide reducers have been entered and checked. Mean lower low water, 4.3 on the Sand Bay, Great Sitkin Island, Alaska tide staff, is the plane of reference.

SERIAL TEMPERATURES: Soundings were corrected for temperature, salinity and pressure. Serial temperatures were observed by EXPLORER personnel. A separate report on serial temperatures has been submitted by the Commanding Officer of the PATTON.

RECORDS: Hydrography executed by the PATTON is contained in ~~nine~~ ^{three} sounding volumes. All soundings have been reduced and checked.

SOUNDING APPARATUS: The PATTON is equipped with a Dorsey III fathometer and 808-A depth recorder. Both were used at the same time, except for short periods when operating difficulties were encountered. When both were operating, soundings were recorded at regular intervals from the Dorsey III fathometer. Later the record of the 808-A depth recorder was scanned, soundings in the record books were checked, and additional troughs and crests added when necessary. There are numerous comparisons between soundings taken with the Dorsey III and those recorded by the 808-A apparatus. From these comparisons it was determined that soundings on the A scale of the 808-A checked the Dorsey III fathometer and that soundings on the B scale of the 808-A were five feet less than soundings recorded from the Dorsey III. Whenever it was necessary to sound with the 808-A depth recorder alone while the Dorsey III was being repaired, corrections were applied to the depth recorder soundings. The instrument used for sounding is noted at the beginning of each day and any changes are shown when they occurred in the sounding record.

COMPARISON WITH PREVIOUS WORK: In general, soundings on this survey agreed with information shown on H. O. Charts of this locality. Several shoaler but not dangerous depths were found and developed with the PATTON. Dangerous ~~shoals not shown on H. O. Charts were located by EXPLORER personnel.~~

BOTTOM SAMPLES: The Commanding Officer of the EXPLORER advised me that bottom specimens, if needed, would be taken from the EXPLORER. The sounding machine on the PATTON was used to reel in the wire drag and was not available for sounding. None taken

ADDITIONAL WORK: This survey is not complete. Much additional inshore hydrography should be done and offshore hydrography should be completed. The PATTON received orders from the Commander, Alaska Sector, to close this work on June 16 and take up surveys west of Adak.

SURVEY METHODS: The location of the PATTON during hydrography was determined by three-point fixes on triangulation, topographic and hydrographic stations.

STATISTICS

Sheet ~~2443~~, H-69189

No. of Positions	No. of Soundings	Statute Miles	Area Sq. Stat. Miles
1579	12,836	508.7	68-
560	5,035	216.9	36

Respectfully submitted,

(Sgd.) C. D. Meaney

C. D. Meaney
Lt. Comdr., C&GS
Comdg. MV PATTON

SEATTLE PROCESSING OFFICE NOTES

H-6919

Datum

The boat sheets are on U.S.N. datum of 1934. Smooth sheets are on Unalaska datum. The U.S.N. datum is indicated on the smooth sheets.

Control

The Navy triangulation of 1934, recomputed on Unalaska datum by the Washington Office, furnishes the basis of the control. Topographic signals are taken from T-6931. Hydrographic signals on H-6919 are located by cuts found in Volume 4.

Smooth Sheets

These were prepared by the Seattle Processing Office. The shoreline was taken from T-6931 and is not inked because it was not inked on the topographic sheet. The topographer rodded in a few meters of shoreline and adjusted another survey (~~Navy?~~) to it.
(Chart shoreline)

Respectfully submitted,

(Sgd.) Edgar E. Smith

Edgar E. Smith
Assoc. Cartographic Engineer

Approved and Forwarded:

(Sgd.) F. H. Hardy

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

January 16, 1945.

~~Division of Hydrography and Topography:~~

✓ Division of Charts: Attention: H. R. EDMONSTON

Plane of reference approved in
2 volumes of sounding ^{wire drag} records for

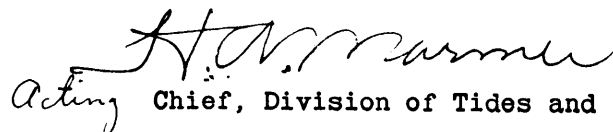
HYDROGRAPHIC SHEET 6919

Locality Asuksak Pass, Aleutian Islands

Chief of Party: G. C. Mattison in 1943
Plane of reference is mean lower low water reading
4.3 ft. on tide staff at Sand Bay
8.0 ft. below B. M. 1

Height of mean high water above plane of reference is 3.7 feet.

Condition of records satisfactory except as noted below:


Acting Chief, Division of Tides and Currents.

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.

Field No. 2445

REGISTER NO. H-6919

State Alaska

General locality Andreanof Islands

Locality Chugul I. to Little Tanaga Island

Scale 1:20,000 Date of survey May 20 - June 16, 1943

Vessel M. V. PATTON

Chief of Party C. D. Meaney

Surveyed by Officer personnel

Protracted by Christine N. Hillman

Soundings penciled by Christine N. Hillman

Soundings in fathoms ~~feet~~ Fathoms

Plane of reference MLLW

Subdivision of wire dragged areas by _____

Inked by A.R. Stini

Verified by A.R. Stini

Instructions dated Oral instructions from Comdg. Officer, EXPLORER

Remarks: Smooth Sheet and Plotting by the

Seattle Processing Office.

HYDROGRAPHIC SHEET H-6914⁵

Field No. 2443 WD

Aleutian Islands - Andreanof Islands - Asuksak Pass

WIRE DRAG SHEET

Surveyed by the EXPLORER G. C. Mattison, Chief of Party

Scale 1:20,000

FIELD NOTES

INSTRUCTIONS:

Project CS-218; Priority "A", dated April 16, 1943.

AREA:

This sheet was supposed to cover a narrow strip along the north shore of Umak Island and Umak Pass. Only a part of the former was done due to the work being discontinued in favor of work of a more pressing nature.

EQUIPMENT:

Two regular sounding launches from the EXPLORER were used to tow the drag, with a motor whaleboat being used as a tender. The M. V. PATTON set out and picked up the drag.

The standard wire drag was used. The ground wire was 3/16" equipped with patent fieges. The toggles were aluminum. The buoys were of the latest design, all-steel construction.

The tester was the standard type with regulation markings and greased iron rod at the bottom for registering lift.

METHOD OF SURVEY:

Dual launch control was used, each launch plotting independent positions on duplicate boat sheets. No attempt was made to drag close to the bottom except close inshore. Tests for lift were taken as frequently as needed to compute lift.

DANGERS

No dangers were found in this area except heavy tide rips at the east end of the drag strip.

RECORDS

End launch and tender records were copied into the guide launch record. ✓

All reducers have been entered and checked and the drag diagrams have been drawn with effective depths entered. ✓

Field notes prepared by:

G. R. Shelton
Lt. Comdr. C&GS

PROCESSING OFFICE NOTESDATUM

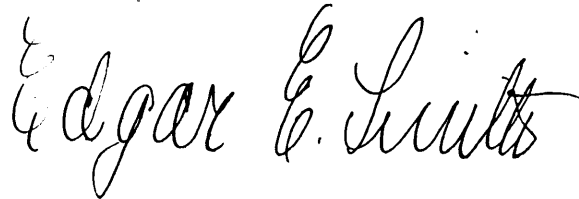
Boat sheets - U.S.N. 1934. Smooth sheet - Unalaska.

CONTROL

Triangulation U.S.N. 1934 and topographic signals from T-~~6931~~^{10001 (1943)}.

SHORELINE

On T-~~6931~~^{10001 (1943)} the shoreline was not run except for short pieces at a few points. The shoreline from another source (~~Map~~^{Navy}, chart, ~~photo~~) was fitted to these rodded-in bits of shoreline. The transferred shoreline on H-6914 is left in pencil. The transfer was verified.



Edgar E. Smith
Assoc. Cart. Engr.

Approved and forwarded:

F. H. Hardy
F. H. Hardy, Capt., C&GS
Officer in Charge
Seattle Processing Office

H-6914⁹

Field No. 2443 WD

Aleutian Islands - Andreanof Islands - Asuksak Pass

STATISTICS

Positions	18
Statute Miles of Drag Strip	3.1
Area in square statute miles	1.2

LIST OF SIGNALS

<u>Signal</u>	<u>Origin</u>
ANAGAKSIK	ANAGAKSIK 1934
BAR	Hydrographic - Vol. 4
BAT	BAT 1934
BED	T-6931 10001
BOO	BOO 1934
CHUGUL	CHUGUL 1934
COM	COM 1934
DIB	T-6931 10001
DIK	"
EAB	"
FEL	"
* GAD	"
* HEC	"
IKE	"
* JEW	"
* LIEC	"
MAL	MAL 1934
MIN	Hydrographic - Vol. 4
* MIX	T-6931 10001
* MOB	"
MOO	"
* NUT	"
OFF	"
* OLD	"
ONE	Hydrographic - Vol. 4
CUT	T-6931 10001
PAB	"
PET	Hydrographic - Vol. 4
REM	T-6931 10001
ROCK	Hydrographic - Vol. 4
SIG	T-6931 10001
TOR	"
TREE	Hydrographic - Vol. 4
TWO	"
UMAK	UMAK 1934
ASUKSAK	ASUKSAK 1934
TAGADAK	TAGADAK 1934
Col	T-10001 (1933)
Ges	" "
Nar	" "
Ram	" "

* originates with
a topo. sheet
subsequently destroyed

TIDAL NOTE

H-6919 (2443)

Chugul Island to Little Tanaga Island

Aleutian Islands

Sand Bay - Great Sitkin Island

Portable Automatic Tide Gage

*Latitude 51° 58.37

*Longitude 176 05.15

Staff reading of MLLW ----- 4.3 feet

*Unalaska Datum

TIDAL NOTE

H-6919 (2443)

Chugul Island to Little Tanaga Island

Aleutian Islands

Sand Bay - Great Sitkin Island

Portable Automatic Tide Gage

*Latitude 51° 58.37

*Longitude 176 05.15

Staff reading of MLLW ----- 4.3 feet

*Unalaska Datum

240
ACE

TIDE NOTE FOR HYDROGRAPHIC SHEET

September 12, 1944

~~-Division of Hydrography and Topography-~~

✓ Division of Charts: Attention: H. R. EDMONSTON

Plane of reference approved in
4 volumes of sounding records for

HYDROGRAPHIC SHEET 6919

Locality Chugul Island to Little Tenaga I., Andreanof Islands, Alaska.

Chief of Party: C. D. Meaney in 1943
Plane of reference is mean lower low water
4.3 ft. on tide staff at Sand Bay
8.0 ft. below B. M. 1

Height of mean high water above plane of reference is 3.7 feet.

Condition of records satisfactory except as noted below:

CK Green

Chief, Division of Tides and Currents.

GEOGRAPHIC NAMES

Survey No. H-6919

Name on Survey	Source of Name										
	A	B	C	D	E	F	G	H	K		
<u>Alaska</u>											1
<u>Andreanof Islands</u>			515	760							2
<u>Chugul Island</u>			515	755					(U.S. G. B)		3
<u>Chugul Pass</u>			"						"		4
<u>Umak Island</u>			515	760					"		5
<u>Umak Pass</u>			"						"		6
<u>Little Taraga Island</u>			"						"		7
<u>Anagaksik Island</u>			"						"		8
											9
											10
											11
											12
											13
											14
<u>Sand Bay</u>										location of tide staff (515760)	used
											15
											16
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											23
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											27

Names underlined in red approved
by L. Heck on 12/12/44

Remarks

Decisions

	Remarks	Decisions
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Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. 6919

Records accompanying survey:

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

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

Number of positions on sheet	.551..
Number of positions checked	.43..
Number of positions revised	..-..
Number of soundings recorded	.5000 (Est.)
Number of soundings revised (refers to depth only)	.30
Number of soundings erroneously spaced	..18..
Number of signals erroneously plotted or transferred	..-..
Topographic details	Time ..1..
Junctions	Time ..2..
Verification of soundings from graphic record	Time ..6..

Verification by *A.R. STIRNI* Total time .42.. Date *8/7/44*

Review by *R.H. Carstens* Time .17.. Date *12/7/44*

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6919

Field No. 2443

Alaska, Andreanof Island,
Chugul Island to Little Tanaga Island
Surveyed in May and June 1943; Scale 1:20,000
Revised instructions dated April 16, 1943

Soundings:

808 Fathometer
Dorsey Fathometer

Control:

Three-point fix on shore signals
Dual Control

Chief of Party - C. D. Meaney
Surveyed by - Ship's Officers
Protracted by - C. N. Hillman
Soundings plotted by - C. N. Hillman
Verified and inked by - A. R. Stirni
Reviewed by - R. H. Carstens
Inspected by - H. R. Edmonston, December 12, 1944

1. Shoreline and Signals

No contemporary shoreline surveys of the area have been made by this Bureau. The signals originate with T-10001 (1943) and sextant fixes recorded in the sounding records. Signals on the east coast of Umak Island were transferred from a graphic control sheet which has subsequently been destroyed.

2. Sounding Line Crossings

Satisfactory.

3. Depth Curves and Submarine Relief

The depth curves could only be incompletely drawn. The curves in Umak Pass have been left in pencil until additional development has been accomplished.

The bottom in this area is generally irregular. No shoals were developed on this survey.

4. Junctions with Contemporary Surveys

Unsurveyed areas still remain between the present survey and H-6918 (1943) on the north. No contemporary surveys adjoin the present survey on the south.

5. Comparison with Prior Surveys

H-6894 (1934) 1:15,000
 H-6895 (1934) 1:15,000
 H-6897 (1934) 1:30,000

Agreement with these U. S. Navy surveys is generally good. Differences are usually less than 3 fathoms. In Umak Pass development on the present survey is sparse and is not considered adequate to disprove a number of shoaler soundings from the prior surveys or to supersede the prior surveys in delineating the bottom. The present survey should be used to supplement the prior surveys in this area. In Chugul Pass the present survey is, in general, adequate to delineate the bottom in depths greater than 50 fathoms. The following discrepancies charted on 9140 between the present survey and H-6897 are noted:

- a. 29 fm. in Lat. $51^{\circ}55.25'$, Long. $175^{\circ}49.95'$ falling in present depths of about 41 fm. is probably out of position and should be disregarded. Present depths of 29 fm. fall 260 meters to the north.
- b. 55 fm. in Lat. $51^{\circ}52.38'$, Long. $175^{\circ}52.62'$ falling in present depths of about 60 fm. is probably a valid depth on the shoal at this spot and should be retained on the chart.

Except for the previously mentioned sounding the present survey is adequate to supersede these prior surveys within the area developed in Chugul Pass.

6. Comparison with Chart 9140 (latest print date 9-15-44)a. Hydrography

The charted hydrography within the limits of the present survey originates with the previously discussed surveys which need no further consideration.

The 7 fm. charted in Lat. $51^{\circ}54.2'$, Long. $176^{\circ}04.52'$ was cleared by an effective depth of 45 feet and should be disregarded. Other charted depths are in harmony with the effective depths of the present survey.

b. Aids to Navigation

No charted aids to navigation fall within the limits of the present survey.

7. Condition of Survey

Satisfactory.

8. Compliance with Instructions for the Project

Satisfactory.

9. Additional Field Work Recommended

The inshore hydrography and considerable development of shoals and running of split lines remain to be accomplished on this survey. The junction with H-6918 (1943) on the north is still incomplete. Additional development is especially desirable in the vicinity of Lat. $51^{\circ}53.45'$, Long. $176^{\circ}08.2'$ and Lat. $51^{\circ}52.3'$, Long. $176^{\circ}06.2'$.


Wire dragging of the area intended to be covered has not been completed.


10. Superseded Surveys


H-6894 (1934) in part


H-6897 (1934) " "

Examined and approved:


Chief, Surveys Branch


Chief, Division of Charts


Chief, Section of Hydrography


Chief, Division of
Coastal Surveys

Applied to chart 9138 after review J.M.A. 1-10-45
 applied to Chart Cor. 8862 Jan. 1945. W.E.M.
 applied to chart 9140 Mar. 30, 1945 G.H.S.
 " " " 9193 Apr. 21, 1945 G.H.S.
 Completely applied to Ch. 9139 after review (thru Ch 9140) - 4/30/45 - JFW
 " " " " 9141 " " " " 9139 6/2/45 - JFW
 " " " " 8863 " " " " 10-1-45 J.M.A.
 Added 30, 40, 50 fm curves to chart 9140 5/21/47 JFW