

6379

U. S. COAST & GEODETIC SURVEY  
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Ed. June, 1928

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
L. O. Colbert, Director

State: Alaska Aleutian Islands

DESCRIPTIVE REPORT

Topographic } Sheet No. Reg. No. 6379  
Hydrographic } Field No. 2538

LOCALITY

So. side of Umnak Island

Russian Bay

1938

CHIEF OF PARTY

A. M. SOBIERALSKI, H.&G.E.

6379

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. 2538

REGISTER NO. 6379 H 6379

State Alaska ~~Alaska~~ Alutian Islands

General locality So. side of Unimak I. ~~Alutian Islands~~ <sup>Unimak</sup>

Locality Russian Bay ~~So. side of Unimak I.~~

Scale 1:20,000 Date of survey July - Aug. ~~Summer~~, 1938.

Vessel U.S.C. & G.S.S. SURVEYOR

Chief of Party A. M. Sobieralski

Surveyed by A.M.S., G.L.B., J.B., Jr., H.J.O.

Protracted by H. J. Oliver

Soundings penciled by J. Laskowski

Soundings in fathoms fathoms ~~fathoms~~

Plane of reference M.L.L.W.

Subdivision of wire dragged areas by \_\_\_\_\_

Inked by \_\_\_\_\_

Verified by J.A. McCormick

Instructions dated February 3, 1938.

Remarks: \_\_\_\_\_

\_\_\_\_\_

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET No. 6379

FIELD SHEET No. 2538

U.S.C.&G.S.S. SURVEYOR and Launches

A. M. SOBIERALSKI, H.&G. Engr., Commanding

Project HT-176

Aleutian Islands

South Coast, Umnak Island

Russian Bay

Scale 1:20,000

INSTRUCTIONS:

This survey was made in accordance with the Director's Instructions dated February 3, 1938. ✓

SURVEY METHODS:

Standard hydrographic procedure was used in this Survey. Ship hydrography was controlled by sextant angles on shore objects, located by triangulation and topography. The Launch hydrography was controlled by sextant angles on shore objects and the soundings were taken with hand lead to the limit of the hand lead then wire soundings were taken. The ship soundings were taken with a fathometer. ✓

The soundings were reduced for variations in tide only. ✓  
Other corrections were unnecessary for fathometer soundings.

DISCREPANCIES:

At Latitude  $53^{\circ} - 10.8'$ , Longitude  $168^{\circ} - 17.2'$ , position 24A, of the ship work appears to have been recorded  $\frac{1}{2}$  minute in error. To fit the time on the soundings and the position of the fix it should probably have been recorded on the next sounding. The soundings were plotted on time on course between positions 23A and 25A with reference to position 24A. Satisfactory.

At Latitude  $53^{\circ} - 08.1'$ , Longitude  $168^{\circ} - 20.1'$  near the reef off the entrance to Russian Bay, the Motor Sailer obtained on position 4e a sounding of 14 fathoms. Launch No. 3 on position 82c which plots near that same point obtained a sounding of 7 fathoms. It is probable that some error exists either in recording or reading the angles. It is recommended that the 7 fathom sounding be plotted

on time and course which will improve the crossing. Plotted on rt. 4 and line.

Southwest of triangulation station THREE, the lines on the smooth sheet do not plot as evenly spaced as they appear on the boat sheet. This is caused by the signals between triangulation stations SCARP and THREE being relocated by topography.

A discrepancy somewhere in the signals was noticed during "a" day's work with the motor sailer by positions jumping on a change of fix. An adjustment of the signals was made but after "b" days work, it was decided to rerun the 1937 shoreline between the two triangulation stations to relocate all signals. This was completed after the launch hydrography.

A gap about 200 meters wide appears in Lat.  $53^{\circ} - 11.7'$ , Long.  $168^{\circ} - 18.8'$ . This location is very close to the rocky reef off triangulation station THREE. This gap is not considered of sufficient importance to warrant time and money being spent for a split during the next season as there is no uncompleted work in the immediate vicinity.

DANGERS:

Two important dangers occur on this sheet. The first is a large reef and nearby rock off the entrance to Russian Bay at Lat.  $53^{\circ} - 08.0'$ , Long.  $168^{\circ} - 20.1'$ . The reef is about a mile offshore and is about 16 feet above high water. The rock is 400 meters west of the reef and ~~bare 3 feet at low water.~~ <sup>is covered 4 ft. sounding records</sup> The reef and rock may be considered a part of the same danger.

The second important danger is about 300 meters southwest of the north side of Russian Bay. This rock is marked by streamers of thin kelp. The least sounding obtained after considerable feeling around was  $\frac{1}{2}$  fathom.

Other less important dangers are listed as follows:

At Lat.  $53^{\circ} - 07.3'$ , Long.  $168^{\circ} - 22.3'$  on position 58a, Launch No. 3, a least depth of  $7\frac{1}{2}$  fathoms was found. A sounding of  $8\frac{1}{4}$  fathoms was obtained in 1937. About  $\frac{1}{2}$  day was spent in developing this spot and searching for the least depth. The shoal is a pinnacle rock and only about 5 feet wide on top. A bouy was dropped on the shoal after it was located and about half an hour spent in feeling around with two lead lines.

At Lat.  $53^{\circ} - 10.4'$ , Long.  $168^{\circ} - 19.8'$  a  $5\frac{1}{2}$  fathom shoal was developed. The least depth was found on the work by the motor sailer, position 4ld.

A reef extends southeastward off Thumb Point. In this vicinity at about lat.  $53^{\circ} - 11.7'$ , Long.  $168^{\circ} - 18.5'$  two rocks awash at low water about  $\frac{1}{2}$  mile offshore mark the outside end of the foul area.

✓  
Rocks bare 3 and 4 ft. according to sdg. records and are so shown on smooth sheet.

At Lat.  $53^{\circ} - 10.3'$ , Long.  $168^{\circ} - 20.1'$  positions 1d, 2d, and 3d, were taken in heavy kelp. These rocks are near the shore and the shoalest sounding of 5 feet was recorded on position 3d.

At Lat.  $53^{\circ} - 10.4'$ , Long.  $168^{\circ} - 19.9'$ , position 149b of the Motor Sailer, a least depth of 1 foot was taken on a rock whose top was visible. Shown as  
rock washed  
at MLLW.

CHANNELS AND ANCHORAGES:

Russian Bay may be entered from either side of the reef at the entrance. The North side is the widest but has less water than the entrance on the south side and a rock about 300 meters southwest of Northern point. The south side however has a dangerous rock about 400 meters west of the reef in the entrance. This rock should be given considerable clearance as it breaks only occasionally in a moderate swell. Russian Bay offers fair anchorage in 10 fathoms for northerly weather. The bay is entirely exposed to the southeast and is not recommended for anchorage except in an emergency.

COMPARISON WITH PREVIOUS SURVEYS:

No previous surveys have been made in this area.

GEOGRAPHIC NAMES:

See descriptive report for Topographic Sheet Registry No. T-6644.

JUNCTIONS:

On the south approximately along Lat.  $53^{\circ} - 07'$  this sheet joins Field Sheet No. 2137. <sup>H-6214</sup> On the east along Long.  $168^{\circ} - 17'$  it joins Field Sheet No. 4436. <sup>H-6215</sup> On the North at about Lat.  $53^{\circ} - 12'$  this sheet joins Field sheet No. 2237. <sup>H-6216</sup>

The junctions with these sheets were satisfactory.

Respectfully submitted

*Harold J. Oliver, Jr.*  
HAROLD J. OLIVER, Jr. H.&G.E.  
U. S. Coast and Geodetic Survey

Forwarded:

*Ray L. Schoppe*  
RAY L. SCHOPPE, H.&G.E.  
Commanding Officer  
U.S.C.&G.S.S. SURVEYOR

APPROVAL SHEET

to accompany

HYDROGRAPHIC SHEET No. 6379, FIELD SHEET No. 2538.

The descriptive report, records, and sheets for  
this survey have been examined and are approved.



A. M. SOBIERALSKI, H.&G.E.

Chief of Party

U. S. Coast and Geodetic Survey

STATISTICS

to accompany

HYDROGRAPHIC SHEET No. 6379, FIELD No. 2538

Date	Day	Boat	Volume	No. of Positions	No. of Soundings	Statute Miles
1938						
✓ July 8	A	SURVEYOR	1	174	648	54.9
✓ Aug 27	B	"	1	60	211	18.1
July 8	a	Motor Sailor	2	158	362	18.1
✓ " 20	b	" "	2	149	488	15.8
✓ " 21	c	" "	2&3	154	383	15.5
✓ " 26	d	" "	3	84	217	5.6
✓ " 27	e	" "	3	161	378	21.9
" 20	a	Launch # 3	4	113	264	9.0
" 21	b	" "	4	132	395	17.5
" 27	c	" "	4&5	181	394	23.4
TOTALS				<u>1366</u>	<u>3740</u>	<u>573.8</u>

Area in Sq. Statute Miles 17.8

LIST OF SIGNALS

to accompany

HYDROGRAPHIC SHEET No. 6379, FIELD No. 2539

TRIANGULATION SIGNALS

CREEK	1936-37	LEDGE	1936-37	HAM	1936
THREE	1936-37	CZAR	1936-37	BEAN	1937
SCARP	1936-37	ROUGE	1936		

TOPOGRAPHIC SHEET - B-37 - (1937) FIELD No.

RED	LOON	TUT
SIP	NOE	MAK
PUS	BUN	COR
LUG	JUN	AT
VOL	MAY	RIP
GAS	BOW	RAT
LAM	PUP	ANT
PIG	WATER	GREEN

TOPOGRAPHIC SHEET REG. No. T-6644, FIELD No. S-38

SLIM	LEG	DALE
POI	FAT	DOC
BIS	SOT	CHET
TUK	GUD	SKI
BIT	SLIP	RUS
NAL	IRK	BERT
HI	TOE	HAL
TOS	JAN	FUL
ELL	ABLE	CAST
POP	BAY	DOG
SID	KOW	MUS
ARM		



LIST OF SIGNALS (cont)

to accompany

HYDROGRAPHIC SHEET No. 6379, FIELD No. 2539

TOPOGRAPHIC SHEET - C-37 - 1937

HOT	BOY	HUM
MES	JAZZ	CUM
GIRL	REP	ROK
*POL	BUG	CAR
BLUF	CUT	ADD

\* Station "POL", Lat.  $53^{\circ} - 07.6'$  N., Long.  $168^{\circ} - 22.7'$  W., is the same as the station "POI" on the 1937 work. The station name was changed to avoid confusion with another signal "POI" Lat.  $53^{\circ} - 11.9'$ , Long.  $168^{\circ} - 18.9'$ .

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H63.79**

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

Number of positions on sheet	..1366
Number of positions checked	...27.
Number of positions revised	....1.
Number of soundings recorded	..3740
Number of soundings revised	....9.
Number of soundings erroneously spaced	....0.
Number of signals erroneously plotted or transferred	.....0

Date: Oct. 11, 1939

Verification by } J.A.M<sup>c</sup> Cormick  
Review by

Time: 39 hr.

Time: 4 hr.

HYDROGRAPHIC SURVEY NO. H-6379

Smooth Sheet Yes

Boat Shoet Three

Records; Sounding 5 Vols., Wire Drag     Vols., Bomb     Vols.

Descriptive Report Yes

Title Sheet Yes

List of Signals In D.R.

Landmarks for Charts (Form 567) None

Statistics Yes

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524) ---

Special Chart for Lighthouse Service None  
(Circular Nov.30, 1933)

Hydrography: Total Days 6 ; Last Date August 27, 1938

Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Remarks

Decisions

	Remarks	Decisions
1		File No 530 680
2		530 680
3		530 680
4		
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26		
27		
234		

# GEOGRAPHIC NAMES

Survey No. **H-6379**

On Chart  
No. **8802**

On previous survey  
No.

On U. S. quadrangle  
Maps

From local  
information

On local Maps

P. O. Guide or Map

Rand McNally Atlas

U. S. Light List

Name on Survey

A,

B,

C,

D

E

F

G

H

K

<u>Umnak Island</u>	✓										1
<u>Thumb Point</u>											2
<u>Russian Bay</u>											3
<u>Pacific Ocean</u>	✓										4
											5
											6
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*Names underlined in red app'd.  
by WFE 3/22/39*

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
 DESCRIPTIVE REPORT } No. H-6379  
~~PHOTOSTAT OF~~ } ~~Notes~~

{ received May 8, 1939  
 { registered June 7, 1939  
 { verified  
 { reviewed  
 { approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
22			
24			
25	✓	<i>HL</i>	<i>Pages 2 and 3</i>
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	T. B. Reed
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✓ *TBR*

*L.C.*

TIDE NOTE FOR HYDROGRAPHIC SHEET

June 12, 1939

Division of Hydrography and Topography:

✓ Division of Charts: Attention: Mr. E. P. Ellis

Plane of reference approved in  
5 volumes of sounding records for

HYDROGRAPHIC SHEET 6379

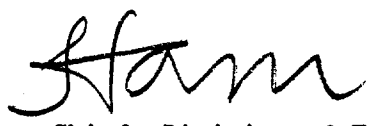
Locality Russian Bay, South side of Umnak Island, Aleutian Islands.

Chief of Party: A. M. Sobieralski in 1938  
Plane of reference is mean lower low water reading  
3.9 ft. on tide staff at Driftwood Bay  
7.2 ft. below B. M. 1

Height of mean high water above plane of reference is 4.5 feet.

Condition of records satisfactory except as noted below:

6271  
6272  
626 C/



Acting Chief, Division of Tides and Currents.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6379 (1938) FIELD NO. 2538

Russian Bay, South Side of Umnak Island, Aleutian Islands  
Surveyed in July-Aug., 1938, Scale 1:20,000  
Instructions dated Feb. 3, 1938 (SURVEYOR)

Hand Lead and Machine Soundings. 3 Point fixes on shore signals.  
Fathometer Soundings.

Chief of Party - A. M. Sobieralski.  
Surveyed by - Officers of Ship SURVEYOR.  
Protracted by - H. J. Oliver.  
Soundings plotted by - J. Laskowski.  
Verified and inked by - J. A. McCormick.

1. Shoreline and Signals.

Shoreline and topographic signals are from T-6596 (1937), T-6598 (1937), and T-6644 (1938).

2. Depth Curves.

Satisfactory.

3. Sounding Line Crossings.

Satisfactory.

4. Junctions with Contemporary Surveys.

Junctions with H-6265 (1936-37) on the east, H-6274 (1937) on the south, and H-6286 (1937) on the north are satisfactory.

5. Comparison with Prior Surveys.

This Bureau has made no previous surveys in this area.

6. Comparison with Chart 8802 (New Print of Nov. 3, 1938).

The chart contains no soundings in the common area but shows several rock symbols which correspond generally with features on the present survey. Information of dates prior to the present survey should be disregarded.

7. Condition of Survey.

Sounding records and descriptive report were satisfactory. Field plotting was very good but transfer of shoreline from topographic surveys was poor, necessitating considerable revision by the office verifier.

8. Compliance with Instructions for the Project.

Additional wire or hand lead investigation would have



been desirable in the following cases:

- a. 6 2/6 fathoms in lat. 53°09.1', long. 168°21.0'.
- b. 14 fathoms in lat. 53°08.6', long. 168°20.8'.
- c. Several soundings of 20 to 22 fathoms in lat. 53°07.5', long. 168°19.0'.

9. Additional Field Work Recommended.

See preceding paragraph.

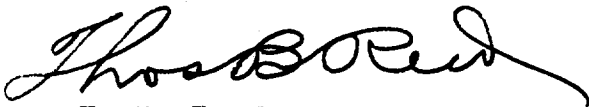
10. Superseded Surveys.

None.

11. Reviewed by - J. A. McCormick, October 11, 1939.

12. Inspected by - H. R. Edmonston.

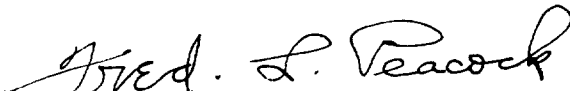
Examined and Approved:



T. B. Reed,  
Chief, Section of Field Records.



Chief, Division of Charts.



Fred. L. Peacock  
Chief, Section of Field Work.



Chief, Division of H. & T.

applied to chart 8802  
" " " 8861

J. M. A. Nov. 1940  
JTW Jan 1942