

# 6381

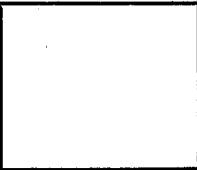
U. S. COAST & GEODETIC SURVEY  
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Form 504  
Ed. June, 1928

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



Aleutian Islands

State: ~~Alaska~~

## DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. Reg. No. H-6381  
Hydrographic } Field No. 2638

### LOCALITY

No. Side of Umnak Island

~~Aleutian Islands~~

Vicinity of

~~Between Cape Ilmalianuk and~~

~~Cape Kigushinkade, Umnak Id.~~

1938

CHIEF OF PARTY

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

# 6381



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.

Field No. 2638

REGISTER NO. H-6381 H 6381

State ~~Alaska~~ Aleutian Islands

General locality North Side of Umnak Island  
~~Aleutian Islands~~

Locality Vicinity of  
~~Between Cape Ilmalianuk & Cape Kiguchinkade, Umnak Id.~~

Scale 1:20,000 Date of survey June - September, 1938

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

Chief of Party A. M. Sobieralski

Surveyed by G.L.B.; J.B.; & H.J.O. (A.M. Sobieralski)

Protracted by J. Bowie

Soundings penciled by J. Bowie & D. E. Sturmer

Soundings in fathoms ~~feet~~

Plane of reference M.L.L.W.

Subdivision of wire dragged areas by

Inked by G.H. Everett

Verified by G.H. Everett

Instructions dated February 3, 1938

Remarks: Project HT-218

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET No. H-6381, FIELD No. 2638

BETWEEN CAPE ILMALIANUK & CAPE KIGUSHIMKADA

NORTH SIDE OF UMNAK ISLAND, ALEUTIAN ISLANDS, ALASKA

U.S.C.&G.S.S. SURVEYOR, A. M. SOBIERALSKI, Commanding

INSTRUCTIONS:

Instructions for this survey were issued to the Commanding Officer by the Director, dated February 3, 1938, Project HT-218.

SURVEY METHODS:

The sheet was surveyed in accordance with instructions of February 3, 1938 and the Hydrographic Manual (Special Publication No. 143.).

The ship SURVEYOR, Motor Sailer, and Launch No. 4 were used to complete the survey. All positions were determined by three point sextant fixes, using signals located by triangulation and topography. Launch soundings were obtained by hand line and wire while the ship's soundings were obtained by the fathometer. Fathometer soundings were corrected for temperature, salinity, index, etc.

JUNCTIONS:

Sheet 2638 joins with Sheet 2438, Reg. No. H-6382, on the northeast; sheet 8137, Reg. No. H-6383, on the northwest and is to join sheet 2338 on the southwest. The survey of sheet 2338 will be completed during the 1939 season.

DISCREPANCIES:

Junctions with adjacent sheets and between launch and ship soundings were very good. Crossings were excellent, only one small

discrepancy occurring. This was in Lat.  $53^{\circ} - 13.3'$ , Long.  $168^{\circ} -$  (~~some point~~)  
44.3' in which fathometer soundings of 30 and 33 fathoms occurred <sup>Position of 30  
revised and both  
soundings inked.</sup>  
at the same point. The 30 fathom sounding was used on the smooth  
sheet which gives good agreement with adjacent soundings.

~~Several~~ 37 and 39 fathom soundings were obtained on a line <sup>✓</sup>  
in Lat.  $53^{\circ} - 12.0'$ , Long.  $168^{\circ} - 47.3'$ . There is deeper water <sup>✓</sup>  
around this location and should be developed if the occasion permits <sup>Noted in  
review.</sup>  
without undue cost and time.

DANGERS:

There are no dangers to navigation on this sheet. ✓ ✓

CHANNELS:

There are no channels on this sheet. ✓ ✓

ANCHORAGES:

There are no anchorages on this sheet. ✓ ✓

COMPARISON WITH PREVIOUS SURVEYS:

No previous surveys has been made of this area and chart  
8802 is of such a small scale that no discrepancies are noted. ✓ ✓

GEOGRAPHIC NAMES:

Geographic names are listed in the Topographic report of  
this area. ✓ ✓

GENERAL DISCUSSION:

The shoreline on this sheet consists of several short  
stretches of sand beach areas, while the larger proportion of the  
beach is rough, rocky and some lava formation. Heavy kelp was en-  
countered off the rocky areas, extending 200 meters offshore in  
places. The 20 fathom curve runs from  $\frac{1}{2}$  mile to 1 mile offshore. ✓

The current is estimated at 2 to 3 knots, the strongest being opposite prominent points. Tide rips were not encountered in this area. Tide rips in  
lat. 53° 13'  
long. 168° 47'

Respectfully submitted

*John Bowie, Jr.*  
JOHN BOWIE, JR., 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 H-6381, FIELD No. 2638

This sheet, the records, and the accompanying descriptive  
report have been reviewed and are approved. ✓

*A. M. Sobieralski*

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

Chief of Party

U. S. Coast and Geodetic Survey

STATISTICS

to accompany

HYDROGRAPHIC SHEET No. H-6381, FIELD No. 2638

Ship SURVEYOR (Red Caps)

<u>Date</u>	<u>Day</u>	<u>Vol.</u>	<u>No. of Pos.</u>	<u>No. of Sndgs.</u>	<u>Statute Mi.</u>
✓ June 19	A	1	23	103	7.8
✓ Aug. 1	B	1	35	142	12.6
✓ Aug. 2	C	1	85	332	30.4
✓ Aug. 6	D	1	78	306	27.9
✓ Aug. 29	E	1	67	280	16.8
✓ Aug. 31	F	1	46	154	15.8
✓ Sept. 1	G	1 & 2	65	225	23.5

MOTOR SAILER (Small blue)

✓ July 18	a	3	62	215	7.2
✓ Aug. 2	b	3	125	394	16.6
✓ Aug. 4	c	3	174	465	12.3
✓ Aug. 6	d	4	169	546	21.2
✓ Aug. 29	e	4	62	174	7.6
✓ Sept. 2	f	4	164	399	18.9

LAUNCH No. 3 (Small purple)

✓ Sept. 19	a	5	81	194	7.4
		<i>Total</i>	<u>1236</u>	<u>3929</u>	<u>226.0</u>

Area in Square Statute Miles = 25.0

LIST OF SIGNALS

to accompany

HYDROGRAPHIC SHEET H-6381, Field No. 2638

TRIANGULATION STATIONS

ROCKAWAY	1937	TROUPE	1938	LANUK	1938
MALINUK	1938	ROLLO	1938	BOWL	1938
DUNE	1938	TI	1938	NUBBY	1938
STRAT	1938	GRAD	1938	TEAPOT	1938
HOOF	1938	TERRACE	1938	KIGUSH	1937

TOPOGRAPHIC SIGNALS

Topographic Sheet T-6645, Field No. T-38

Yid	Way	But
Art	Cap	Cow
Den	Aid	Ken
Ira	Sir	

Topographic Sheet T-6646, No. V-38

Des	Ted	Jus	Arc	Mil
Rok	Dul	Out	Gib	Min
Par	Pip	Fur	Ant	Off
Jet	Ref	Tie	Red	Sus
Tat	Duc	Odd	Sis	Elk
Fall	Las	Ham	Hi	Fog
Rum	Nit	Buz	Eve	Rod
Put	Add	Sum	Rat	Raz



TIDE NOTE FOR HYDROGRAPHIC SHEET

June 14, 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 6381

Locality Vicinity of Cape Ilmalianuk, North side of Umnak Island,  
Aleutian Islands

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

Height of mean high water above plane of reference is 3.4 feet.

Condition of records satisfactory except as noted below:

  
Acting Chief, Division of Tides and Currents.

GEOGRAPHIC NAMES

Survey No. H-6381

Name on Survey	Sources										
	A	B	C	D	E	F	G	H	K Baker		
	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			
<u>Bering Sea</u>	✓										1
R Derby Point											2
R Lavanak Point											3
<u>Umnak Island</u>	✓										4
R Kshaliuk											4
<del>Bulldog Point</del>										<sup>c</sup> Kshaliuk	5
<u>Cape Ilmalianuk</u>	✓										6
											7
											8
											9
											10
											11
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											22
											23
											24
<i>TYPE</i>											25
<i>7/21/39</i>											26
											27

Remarks

Decisions

1		USGB decision
2	R. Recommended names	
3	Referred to USGB 7/21/39	
4		USGB decision
5		Probably same feature of C. Kshaliuk (Tebentof)
6		
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234		

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H6381** .....

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

Number of positions on sheet	1236 .....
Number of positions checked	35 .....
Number of positions revised	5 .....
Number of soundings recorded	3929 .....
Number of soundings revised	8 .....
Number of soundings erroneously spaced	— .....
Number of signals erroneously plotted or transferred	— .....

Date:

Verification by *G.H. Everett*

Time: 29 hrs.

Review by *J.A. McCormick* 11/17/39

Time: 5 hr.

HYDROGRAPHIC SURVEY NO. H-6381

Smooth Sheet Yes

Boat Sheet Two

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

Descriptive Report Yes

Title Sheet Yes

List of Signals In. Dr.

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 11 ; Last Date September 19, 1938

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

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
 DESCRIPTIVE REPORT  
~~PHOTOS AND/OR~~

No. H-6381  
~~XXXX~~

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			
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62			
63			
82			
83			
88			
90			

RETURN TO

82	T. B. Reed
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✓ *TBR*

## Report on Verification

- I. **Records:** Conform to general instructions except that in northern half of survey, sanded area shown between L.W. line and H.W. line. Since no soundings were taken inside L.W. line the sanded area was not removed.
- II. **Field Drafting:** Excellent. The transfer of detail from topo surveys was especially an excellent piece of work, accurately accomplished.
- III. **Contemporary Topo Surveys** are T 6645 and 6646 (1938 plane table surveys)
- IV. **Curves:** Broken inshore because of foul areas and at south end of survey, where a few random lines were ran from main survey. Curves were left in pencil in this area pending receipt of <sup>Partially</sup> <sub>inked.</sub> joining survey.
- V. **Junctions:** Junction with H 6382 at north end is good. Junction with H 6383 will be made by verifier of that survey. Mass. Junction with launch (this survey) and ship (this survey) at Lat. 53-14.6; Long 168-42' (line 2a - 8a purple) shows the usual difference between wire and fathometer soundings. It is noted that where the launch ran lines normal to shoreline, the <sup>agreement</sup> <sub>satisfactory</sub> soundings appeared to agree much better with adjacent fathometer soundings.
- VI. **Notes:** See 'Discrepancies' page 2 (D.R.) Position 44E (red) is of doubtful location (see Vol. I pg. 51). It was replotted with one angle making better agreement.

VII. **Rocks.** Differences between Hydro and Topo Surveys.

Location	Topo Survey	Hydro Survey	Remarks
53-11.0 168-46.2	(+) sunken rock	(*) Awash MLLW	Hydro accepted. 35f (blue) ✓
53-11.7 168-44.8	Not on	(+) sunken rock	" " 51c (blue) ✓
53-11.75 168-44.6	(*) awash half tide	(*) <del>Bares 1' MLLW</del> awash MHW	" " 67 c (blue) ✓
53-12.3 168-43.8	(*) Awash LW	(*) Bares 2' MLLW	" " 156 c (blue) ✓
53-12.3 168-43.7	Not on	(*) Awash MLLW	" " 141 c (blue) ✓
53-12.35 168-43.6	(*) Awash LW	(*) Bares 1' MLLW	" " ✓

Submitted 10/31/39

*Eff. Everett* →

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6381 (1938) FIELD NO. 2638.

Vicinity of Cape Ilmalianuk, North Side of Umnak Island,  
Aleutian Islands.

Surveyed in June-Sept., 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 - A. M. Sobieralski

Protracted by - J. Bowie

Soundings plotted by - J. Bowie; D. E. Sturmer

Verified and inked by - G. H. Everett

1. Shoreline and Signals.

Shoreline and topographic signals are from T-6645 and T-6646 of 1938.

2. Depth Curves.

Satisfactory.

3. Sounding Line Crossings.

Satisfactory.

4. Junctions with Contemporary Surveys.

Junctions with H-6382 (1938) on the northeast and H-6383 (1937-38) on the northwest are satisfactory. The survey on the southwest has not been received from the field.

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 few soundings charted in the area covered by the present survey are from outside sources. In a general way, they are in fair agreement with the present survey.

7. Condition of Survey.

Satisfactory.

8. Compliance with Instructions for the Project.

Satisfactory except as noted in following paragraph.



9. Additional Field Work Recommended.

The 37 fathom sounding in lat. 53°12.0', long. 168° 47.4' should be developed.

10. Superseded Surveys.

None.

11. Reviewed by - J. A. McCormick, November 17, 1939.

12. Inspected by - H. R. Edmonston.


Examined and Approved:



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



Chief, Division of Charts.



Chief, Section of Field Work.



Chief, Division of H. & T.

Applied to	chart	8802	F. M. A.	Nov. 1940
"	"	"	8861	JW Jan 1942
"	"	"	9025	JWS Mar. 1942