

4947

U. S. COAST & GEODETIC SURVEY  
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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

L. O. Colbert, Director

State: ~~Alaska~~ Aleutian Is.

DESCRIPTIVE REPORT

Topographic } Sheet No. Field No. X-37  
~~Hydrographic~~

LOCALITY

~~Alaska Aleutian Is.~~

~~Aleutian Islands~~

Interior of Umnak Island

Mt. Vsevidof & Vicinity

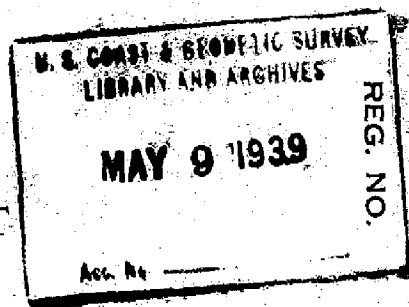
1937-38  
~~1938~~

CHIEF OF PARTY

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

Applied to new compilation chart 8861 - Jan 1942 - JFW

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY



TOPOGRAPHIC TITLE SHEET

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

Field No. I - 37

REGISTER NO. T4947

State ~~Alaska~~ Aleutian Islands

General locality ~~Aleutian Islands~~ Interior of Umnak Island

Locality ~~Umnak Island~~ Mt. Ysevidof & Vicinity

Scale 1: 40000 Date of survey June ~~July~~ Aug. Sep 9 37 & 38

Vessel Surveyor

Chief of party A. M. Sobieralski

Surveyed by W.F.D. & W.R.T.

Inked by W.F.D.

Heights in feet above M.H.W. to ground to ~~tops of trees~~

~~Certainly Approximate~~ Form line interval 100 feet

Instructions dated Apr. 13, 1934 & Feb. 3 1938, 19

Remarks: No shore line shown on sheet

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET X-37

FORM LINES IN INTERIOR OF UMNAK ISLAND, ALASKA

1937-38

INSTRUCTIONS:

This survey was made in compliance with the Director's Instructions dated April 13, 1934. ✓

SCOPE:

This sheet joins larger scale sheets that delineate the shoreline but do not extend far enough inland to take in all the form lines of the island. ✓

GENERAL DESCRIPTION:

No shoreline was surveyed on this sheet. Mount Vsevidof is a useful landmark from either the Pacific Ocean or Bering Sea sides of the island. This mountain is similar to the frustrum of a cone and the conical sides are approximately 3500 feet high without a break. A crater exists on the peak, the depth of which was not estimated. A hogback of 3000 feet elevation joins the northeasterly slope of Mount Vsevidof to a serrated ridge of 5500 feet elevation and higher. This ridge is a better landmark than Mount Vsevidof since it blots out the latter from an easterly direction and is often visible and recognizable when the ceiling is low. Other peaks shown on this sheet may be used as guides to navigation and will be listed as landmarks. These peaks are not as distinguishable as the higher elevations mentioned but are valuable for inshore navigation on days with low ceiling. ✓

CONTROL:

Second and third order triangulation was used for control. ✓

METHODS OF SURVEY:

Most of the peaks and elevations were determined by plane-table methods. This method could not be used when inland topography was obscured by nearby bluffs or ridges and it was found necessary to use hydrographic locations; i.e., sextant angles. In a few cases triangulation directions were combined with planetable or sextant directions to determine locations of interior features; similarly, plane-table and sextant directions were sometimes combined. The various methods were so interlocked that a list of peaks used as signals with their geographic positions and method of location will be included in this report. ✓

INCOMPLETE AREAS:

An area of about four square miles that extends south westward of triangulation station "Bean" was not seen from either side of the island and no elevations could be taken in this vicinity. The area north of triangulation station "Umnak" was not completed for the same reason.

CHANGES:

To effect a smooth junction it was necessary to change form lines of sheets previously submitted. These changes are the only ones that will effect submitted sheets.

MISCELLANEOUS:

The sketches shown on this sheet were made in the field to better show the profile of several islands near Vsevidof Island that may be valuable as aids to navigation.

LANDMARKS FOR CHARTS:

Landmarks are submitted on Form 567.

STATISTICS:

Shoreline ..... 0.0 statute miles

Square miles of form lines .. 62.0 statute

Respectfully submitted:

*William F. Deane*

WILLIAM F. DEANE, Aid  
U.S.C.&G. Survey

Forwarded:

*Ray L. Schoppe*

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

Topographic Sheet Field No. X-37 and its accompanying descriptive report, have been reviewed and examined and are hereby approved.

To effect a smooth junction it was necessary to change form lines of sheets previously submitted. These changes are the only ones that will effect submitted sheets. It is recommended that these changes be considered to supersede previous form lines in this area.

Limits of superseded areas  
have been added to affected  
sheets. J.A.M.

*A.M. Sobieralski*

A. M. SOBIERALSKI, H.&G.E.  
Chief of Party

LIST OF SIGNALS

to accompany

TOPOGRAPHIC SHEET X-37

TRIANGULATION SIGNALS

CINDER	1937	PILL	1936	LEDGE	1936
ALTER	1937	THREE	1936	CZAR	1936
ANDE	1937	BEAN	1937	ROUGE	1936
CREEK	1936	SCARP	1936	BROKE	1937
NUDAK	1937	NANU	1937	MOT	1936
HAM	1936	LUX	1936	KAY	1936
PUF	1936	VSEV	1936	AMY	1936
ERG	1937	GOLD	1937	UNMAK	1937
TOWN	1937	DUB	1938	PORT	1937
TAP	1938	RIT	1938	WEBB	1938
JOY	1938	HIT	1938	MID	1938
UDAK	1937	DRIFT	1936	LAVA	1937
GUSH	1937	KIGUSH	1937		

TOPOGRAPHIC SIGNALS

	<u>Latitude</u>	<u>Longitude</u>
Sot	53° - 18' - 197.0 M.	168° - 17' - 319.2 M.
Cap	53° - 12' - 1707.6 M.	168° - 24' - 770.0 M.
Green	53° - 09' - 1501.3 M.	168° - 23' - 714.7 M.
Ant	53° - 11' - 654.9 M.	168° - 24' - 420.0 M.
Tim	53° - 09' - 1404.3 M.	168° - 25' - 569.7 M.
Cub	53° - 09' - 1047.9 M.	168° - 24' - 1000.0 M.
But	53° - 09' - 49.3 M.	168° - 26' - 209.0 M.
Snow Peak	53° - 09' - 461.9 M.	168° - 31' - 62.1 M.
Balanced Rock	53° - 09' - 41.3 M.	168° - 33' - 605.5 M.
3 Musketeers	53° - 08' - 1781.8 M.	168° - 33' - 1089.1 M.
Low Tip	53° - 06' - 1290.0 M.	168° - 33' - 1110.4 M.
Root	53° - 06' - 1568.2 M.	168° - 32' - 552.0 M.
High Tip	53° - 07' - 1342.9 M.	168° - 34' - 506.0 M.
Humpback	53° - 07' - 642.9 M.	168° - 36' - 91.0 M.
Ann	53° - 08' - 1684.0 M.	168° - 34' - 630.0 M.
Mount Vsevidof (See triangulation station "Dub")		

## Remarks

## Decisions

1	USGB decision	
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3	Name on sketch sufficient.	
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# GEOGRAPHIC NAMES

Survey No. **T-4947**

Name on Survey	On Chart No. <i>2502</i>		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	
	A.	B.	C.	D.	E.	F.	G.	H.	K.							
<u>Mt. Vsevidof</u>	/														1	
<u>Umnak I.</u>	/														2	
<u>Vsevidof I.</u>															3	
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# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
 DESCRIPTIVE REPORT } ~~xxxxxx~~  
~~PHOTOGRAPH~~ } No. T-4947

{ received **May 8, 1939**  
 { registered **June 14, 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
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RETURN TO

82	T. B. Reed
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✓ *TBR*

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 4947 (1937-38) FIELD NO. X-37

Mt. Vsevidof and Vicinity, Interior of Umnak Island, Aleutian Islands.

Surveyed in 1937-38, Scale 1:40,000.

Instructions dated April 13, 1934; Feb. 3, 1938 (SURVEYOR)

Plane Table Survey.

Whatman's Paper.

Chief of Party - A. M. Sobieralski

Surveyed by - W. F. Deane; W. R. Tucker

Inked by - W. F. Deane

1. Junctions with Contemporary Surveys.

Junctions with T-6646 (1938) on the northwest; T-6645 (1938) and T-6643 (1938) on the north; T-6596 (1937), T-6644 (1938) and T-6598 (1937) on the east; and T-6595 (1937) and T-6649 (1938) on the south are satisfactory. There are some differences in the overlaps, particularly that with T-6596. In such cases, the present survey supersedes the overlapping portions of the adjoining surveys.

2. Comparison with Prior Surveys.

This Bureau has made no previous surveys in this area.

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

The elevation charted for Mt. Vsevidof is 7236 feet as compared with 6920 feet on the present survey. Some of the other peaks are indicated on the chart by hachures. The present survey supersedes topography now charted in the common area.

4. Condition of Survey.

Satisfactory. The profile sketches of several islands near Vsevidof Island are excellent.

5. Compliance with Instructions for the Project.

Satisfactory.

6. Additional Field Work Recommended.

Further attempts should be made to survey the holiday centered about lat. 53°12', long. 168°26', (descriptive report, page 2, Incomplete Areas).

7. Reviewed by - J. A. McCormick, December 4, 1939.

8. Inspected by - H. R. Edmonston.

Examined & Approved:

*Thos B Reed*

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

*K.T. Adams*

Chief, Division of Charts.

*Raymond Lyman*

Chief, Section of Field Work.

*G. H. de*

Chief, Division of H. & T.