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Form 504
Rev. April 1935
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESRIPTIVE REPORT

Topographic }
~~Hydrographic~~ } Sheet No. N - 35

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES
APR 19 1938
Acc. No.

State Aleutian Islands
~~ALASKA~~

LOCALITY
North Coast of Umnak I.
~~ALUTIAN ISLANDS~~

~~UMNAK ISLAND (NORTH COAST)~~
Cape Tanak to Hidden Point
Ashishik

1935
1937

CHIEF OF PARTY
A. M. SOBIERALSKI
H. B. CAMPBELL

U. S. GOVERNMENT PRINTING OFFICE

DECLASSIFICATION BY NOAA
PURSUANT TO DOC SYSTEMATIC REVIEW
GUIDELINES AS DESCRIBED IN SECTION
3.3 (a), EXECUTIVE ORDER 12356

Applied to drawing of Chart No. 9021 - Oct. 1938. S. Riegar
" " " " " " 8861 - Jan 1942 - J. Walkey

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LIBRARY

APR 20 1938

REG. NO.

TOPOGRAPHIC TITLE SHEET

Acc. No.

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

Field Letter N*35 T-6599

REGISTER NO.

State ~~ALASKA~~ Aleutian Islands
General locality ~~ALUTIAN ISLANDS~~ North Coast of Umnak Island
Locality ~~NORTH COAST UMNAK ISLAND~~ Cape Tanak to ^{Ashishik} Hidden Point.
Scale 1:20,000 Date of survey Aug. 1935 - July, 1937
Vessel Str. SURVEYOR & DISCOVERER
Chief of Party A. M. SOBIERALSKI AND H. B. CAMPBELL
Surveyed by H. J. S., G. E. M., and J. L.
Inked by J. L.
Heights in feet above MHW to ground to tops of trees
~~Contour Approximate contour~~ Form line interval 100 feet
Instructions dated April 13, 1934
Remarks:

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET NO. N-35 T-6599

UMNAK ISLAND, ALASKA

Season 1935 & 1937

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

A. M. SOBIERALSKI, Commanding

AUTHORITY

This survey was made under the Director's Orders dated April 13, 1934.

EXTENT

The sheet covers the Cape Tanak area and area westward to approximately Lat. $53^{\circ}31'$ and Long. $168^{\circ}09'$.

PROCEDURE OF SURVEY

During the season of 1935 the Str. DISCOVERER surveyed the area east of @ IN (Lat. $53^{\circ}33.9'$ Long. $168^{\circ}05.0'$). The remainder of the survey was executed by the Str. SURVEYOR during the season of 1937.

GENERAL DESCRIPTION

Cape Tanak is a low and flat plain covered with lava boulders. Evidently the lava boulders are the result of a flow from the crater in the vicinity of Triang. station CRATE. A large stream empties into the ocean at Cape Tanak. The coast line is bordered by a foul area consisting of boulders and sunken rocks fringed with kelp.

The area from Cape Tanak westward to the extent of survey consists of a bluff coastline, rocky cliffs surrounding the points on which Triang. stations JOIN, FOX and CLEAR are located and sand covered bluffs and beaches existing in the area between them.

The land area on the western limits of the sheet consists of a black cinder-covered ridge that rises rapidly in elevation from within one third mile of the shoreline. The east side of the ridge has cliff slopes but are not readily discernible from offlying distances since its outline blends in with the black color of the ridge.

CONTROL

In 1935 the control consisted of the Triang. stations TANAK, BLOT, FOX and CLEAR. In 1937 all control as shown on the sheet was available except that the positions of stations were of 1935 and 1936 determination.

SURVEY METHODS

(Str. DISCOVERER) 1935.

The survey was started on a sheet on which there was no projection constructed or any triangulation stations plotted.

The plane table was set up over Triang. station TANAK and a logical point on the sheet was selected to represent Triang. station TANAK. The table was then oriented in relation to Triang. station BLOT so that the survey would fit the sheet. Orientation lines were then drawn to Triang. stations BLOT and FOX and the survey was begun. A traverse was run eastward with plane table and stadia up to @ NOT. A traverse was also run westward from Triang. station TANAK up to @ IN. The projection was constructed later in the year around Triang. stations TANAK, BLOT and FOX, using the positions as determined by the DISCOVERER in 1935. The reason for this procedure was that it was desired to establish control for launch hydrography in order that a survey could be executed over a reported shoal off Cape Tanak and thus shorten the steamer route for the vessel on its way to a R.A.R. station.

(Str. SURVEYOR) 1937

The work was carried on with plane table and stadia, the usual procedure being followed.

JUNCTIONS AND ADJUSTMENT

The junction between this sheet and Sheet UJ-36 failed to close by 26 meters. This result is obtained by adding the 19 meter closure on @ NOT plus the 7 meter difference in the 1935 and 1936 position of TANAK. The control on sheet UJ-36 was of 1936 determination. The 19 meters was adjusted proportionally between @ NOT and YEL, while the 7 meters was adjusted between @ YEL and Triang. station TANAK. The remaining closures between control stations were within the allowable limits.

As the 1937 topography was executed with the position of control stations of 1936 determination it was necessary to adjust the survey for the 1937 determination of stations. This was accomplished by making a tracing of the survey from Triang. station TANAK westward and then plotting the control stations whose position was determined in 1937. The tracing was then fitted over the 1937 control points and all signals and topographic features moved accordingly.

Due to unavoidable conditions the survey was not tied into Triang. station CLEAR.

As the sheet now stands, it has been adjusted to fit the sheet to the eastward UJ 1936 and the positions of the triangulation stations as determined in 1937.

These various adjustments were made necessary because part of the work was done in advance of the triangulation, and also be-

cause there are three different positions of most of the triangulation stations, as follows: The 1935 positions as determined by Str. DISCOVERER, using Bogoslof Island; the 1936 positions determined by the SURVEYOR from the eastward; and the 1937 positions as determined by the SURVEYOR from the westward. The latter positions were not available until after the topography on this sheet had been completed.

The differences between these various positions do not exceed 12 meters, so the discrepancy is not serious.

NEW NAMES

✓ 64E

The name ^{Ashishik}~~Hidden~~ Point is suggested, since the point is not readily visible or pronounced from offlying sea distances.

FORM LINES

Sufficient number of elevations were determined on the western limits of the area to draw the form lines. The eastern portion of the survey has no inland elevations so the form lines were drawn to portray the land as it appears and also to join the form lines on Sheet UJ-36. T-6550.

STATISTICS

Statute Miles of Shoreline	11.0
Area in Square Statute Miles	13

Approved and forwarded:

A. M. Sobieralski

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

Respectfully submitted:

John Laskowski
John Laskowski
Jr. H.&G.E.

Remarks

Decisions

1		US60 decision
2	Assigned by Field Party	see H-6277
3		" "
4		US6B decision
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GEOGRAPHIC NAMES

Survey No. T-6599

Name on Survey	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		
	A,	B,									C,
<u>Bering Sea</u>	✓										1
<u>Ashishik</u> <u>Hidden Point</u>	GNS										2
<u>Cape Tanak</u>	✓										3
<u>Umanak Island</u>	✓										4
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Names underlined in red approved											26
by <u>EJE</u> on <u>5/31/38</u>											27

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT } ~~No. 11~~
 PHOTO STAT OF } No. T -6599

{ received April 19, 1938
 { registered May 24, 1938
 { 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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✓ JBR

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6599 (1935-37) FIELD NO. N*35

Cape Tanak to Ashishik Point, North Coast of Ummak Island,
Aleutian Islands

Surveyed in August 1935 - July 1937, Scale 1:20,000

Instructions dated April 13, 1934 (SURVEYOR)

Plane Table Survey

Aluminum Mounted

Chief of Party - A. M. Sobieralski and H. B. Campbell.

Surveyed by - G. E. Morris, H.J. Seaborg and John Laskowski.

Inked by - John Laskowski.

1. Condition of Survey.

The survey is neat and legible and conforms to the requirements of the Topographic Manual except as follows:

- a. Form 524 states that topographic signals NECK, SEE and NOT are on prominent bare rocks baring 5 to 8 feet at M.H.W. The rocks and their accompanying heights were added to the smooth sheet in the office.
- b. Several rocks awash were noted as baring 5 to 6 feet at M.L.L.W. The mean range of tide being about $3\frac{1}{2}$ feet, these rocks should have been referenced to the plane of M.H.W. and will be so indicated on the accompanying hydrographic sheets.
- c. No elevations were determined in the eastern inland portion of the present survey. The form lines in this section are no doubt below the standard in accuracy. *Form lines superseded by T-4948 (1938) and T-6555 (1938)*
- d. Several names were inked on the smooth sheet by the field party. These should have been left in pencil in accordance with Field Memo. No. 4 of 1935. *L.S.S.*
- e. The 26 m. closing error (prior to adjustment) between the present survey and T-6550 (1936) on the east is in excess of that required by the Topographic Manual (par. 12a). (For further details, see Descriptive Report, page 2).

The Descriptive Report is clear and satisfactorily covers all items of importance.

2. Compliance with Instructions for the Project.

The plan, character and extent of the survey satisfy the instructions for the project.

3. Junctions with Contemporary Surveys.

- a. The junction on the southeast with T-6550 (1936) is satisfactory.
- b. The junction on the west will be considered when that work is received from the field.

4. Comparison with Prior Surveys.

No prior surveys have been made by this Bureau in this area.

5. Comparison with Chart 8802 (New Print dated Dec. 13, 1937).

a. Topography.

Topography shown on the chart originates with miscellaneous sources. The shoreline eastward of long. $168^{\circ} 05'$ originates with Field Examination No. 4 of 1936, which is an advance tracing of the DISCOVERER'S work on the present survey. It should be superseded by the present survey in future charting. The shoreline west of long. $168^{\circ} 05'$ was sketched after application of the tracing mentioned above and should also be rejected in favor of the present survey.

b. Magnetic Declination.

The magnetic declination determined at triangulation station TANAK in lat. $53^{\circ} 34'$, long. $168^{\circ} 01'$, is approximately $3-1/2$ degrees greater than the charted value of about $14-1/2$ degrees. This matter has been referred to the Division of Magnetism.

6. Field Drafting.

The inking of the shoreline and topographic features is satisfactory. A mechanical lettering set should be used wherever practicable.

7. Additional Field Work Recommended.

No additional field work is required.

8. Superseded Prior Surveys.

No prior surveys have been made by this Bureau in this area.

9. Reviewed by - Harold W. Murray, Aug. 18, 1938.

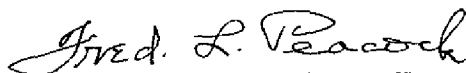
Inspected by - E. P. Ellis.

Examined and approved:



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

K.T. Adams
Chief, Division of Charts.


Chief, Section of Field Work.
Chief, Division of H. & T.