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Rey. April 1935	
DEPARTMENT OF COMMERCE	l li
U. S. COAST AND GEODETIC SURVEY	
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DESCRIPTIVE REPORT	- 1
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Hydrographic	
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F. B. T. Siens	

DECLASSIFICATION BY NOAA

PURSUANT TO DOC SYSTEMATIC REVIEW

GUIDELINES AS DESCRIBED IN SECTION

[3.3 (a), EXECUTIVE ORDER 12356

, U. S. GOVERNMENT PRINTING OFFICE 109221

PENALTY FOR PRIVATE USE TO AVOID PAYMENT OF POSTAGE. \$300	atteched de hed ay, 27,1142
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OF COMMERCE GEODETIC SURVEY	
DEPARTMENT OF COMMERCE u. s. coast and geodetic survey	OFFICIAL BUSINESS RETURN AFTER FIVE DAYS

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. B-41 REGISTER NO. T6862 Confidential
State Aleutian Islands
General locality Aloutian Islands Amukta Pass
Locality Amukta Island
Scale 1; 20,000 Date of survey June-July , 19 41
Vessel EXPLORER
Chief of party F.B.T.Siems
Surveyed by H.A.Paton : E.B. Brown : K.S.Ulm
Inked by C.J.Wagner.
Heights in feet above MHM to ground to the following
Contour, Approximate ontour, Form line interval 100 feet
Instructions datedApril 3, 1940, 19
Remarks:

CONFIDENTIAL

August 27, 1942

To: Lieutenant Colonel R. M. Cutts, U.S.M.C. Section F-11, Office of Naval Intelligence Navy Department Washington, D. C.

From:

The Director

U. S. Coast and Geodetic Survey

Subject:

Confidential survey sheets and photographs

Complying with your verbal request, the following photostat copies of topographic survey sheets of Chagulak, Amukta and Seguam Island are transmitted herewith:

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T-6861 (Part) - Chagulak Island
T-6862
                Amukta Island
T-6861 (Part) -
              - Amukta shoreline bordering Chagulak Pass
T-6866
             -- Seguam Island, Moundhill Cape to Pinch Cape
T-6868
                              Finch Cape to / Brown
T-6868
                              T-6867
                              Saddleridge Point to 0 Zed
                              ezed to Esurn
T-6867
T-6869
                              Burn to Ora
T-6869
                              OOra to Lava Point
T-6866
                             Lava Point to Moundhill Cape
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It is requested that the receipt for the above data be accomplished on the attached carbon copy of this letter.

Request is acknowledged of one photostat copy of each of the topographic sheets listed in this letter. Date______

Director

Descriptive Report

to accompany

Topographic Sheet B-41 T4862

U.S.C. & G.S.S. EXPLORER

F.B.T. Siems, Chief of Party.

INSTRUCTIONS DATED: April 3, 1940 and others.

LIMITS:

This Topographic Sheet covers most of the shoreline of Amukta Island, Aleutian Islands, Alaska, and all the form lines of the interior of the island. This sheet joins Sheet A-41 on the NE shore of Amukta Island, near Triangulations Stations MUKA 1941 and TOTEM 1940. The shoreline from Sheet A-41 was transferred to this sheet in pencil as a guide during the process of the formlining.

GENERAL DESCRIPTION OF THE COAST:

Amukta Island is a small, almost round, island surmounted by a volcanic cone, with crater in the top. This cone rises to an elevation of 3450 feet above MHW. At about the 1000 foot level is the base of the cone proper. Below the base there is a change in the slope. To the east and west of the cone there are almost flat ridges extending to the high bluffs and hills just back of the shore. To the north and south the land slopes from the cone to the low lava bluffs back and at the shore.

The island is generally covered with lava and cinders, and is black in general appearance. There are some grassy areas on the ridges on the west side of the island, in the area to the south of the cone, and small areas on the east side.

At the base of the cone on it's southeast side there are several reddish knolls.

The southeast and southwest points of the island are formed by prominent ridges.

LANDMARKS:

See copy of Form 567 inclosed.

CHARACTER OF CONTROL USED:

Triangulation stations from the scheme by the Ship EXPLORER, executed in 1941, were used to control this survey.

TRAVERSE RUN AND HOW ADJUSTED:

See next paragraphs.

AUXILIARY SURVEYING METHODS:

When this topography was in progress, the only triangulation stations available for control were AMUKTA and TOTEM 1940, In order to expedite the work and get control for the launch hydrography, random traverses were resorted to, and oriented on the boat sheets with relation to key b points by extensive sextant cuts, carefully taken from the ship. In this way the launch hydrography could be carried on without waiting for the control and days of good weather, seldom occuring and otherwise lost to the party, could be utilized for small boat work.

A scheme of triangulation was run around the west side of the island, from Station TOTEM 1940, west, south, and east to the Station AMUKTA 1940. Most of the stations were necessarily high and not accessible to the topographer nor visible from the shore. Some of the stations were placed so as to be visible from the ship when about 1 mile off-shore, and were used in sextant fixes for locating key points along the shore.

Lieut. (jg) E. B. Brown ran a random traverse, starting at station TOTEM 1940 and ending at or near station AMUKTA 1940. This traverse is shown, as actually run, on the reverse side of sheet A-41. This traverse was controlled in the transfer and orientation to the sheet by the positions of stations TOTEM, AMUKTA and BOX 1940 and by topo. stations Double, Stack, Rock, Doll, Head, Top, Line and Lint. These latter stations were located by sextant fixes plotted on a master sheet described later. This traverse was carefully transferred and oriented on the sheet. The transfer showed the traverse to be without appreciable error, there being practically perfect agreement in relative location among the various points as determined by the topographer and as determined by the triangulation and sextant work, making necessary only an orientation with respect to azimuth.

The traverse from Topographic Station AKE (A-41) south to station NIP was run by Lieut. H. A. Paton on the reverse side of sheet F-41. This section is shown as run on the back of sheet E-41. This traverse was oriented and transferred to this sheet, using the positions of AKE and Mush from A-41 and sextant fixes and cuts, based on the triangulation stations on the high land along the west shore, to topo. stations MOON, NUB, COX, PAT, ZIP, IDA, SEAL, andNIP. The transfer showed an error in the section between AKE and COX of about 8 meters. This was adjusted in the transfer, by straight line method. From COX to NIP the traverse required no adjustment after orientation. The positions AKE and MUSH are from sheet A-41, and the location of these two stations is shown on that sheet. As these are close to triangulation station MUKA 1941 and as the position of AKE was checked by topographic cuts from points on Chagulak Island, their position is considered exact.

For plotting the fixes and cuts to locate the two above mentioned traverses a 42" x 54" sheet of Paragon white mounted paper was carefully cemented with rubber cement to the top of one of the Explorers drafting tables. A projection scale of 1-20000 was carefully drawn on this sheet and the triangulation stations plotted thereon. Then the fixes were carefully plotted after the angles were reduced for slope or elevation on this sheet and cuts drawn to the various signals. These cuts, of which there was generally a large number to each station, intersected in a point or nearly so. The sextant work was done from the ship. The ship was brought to a still position and angles were taken simultaneously. It is believed that the positions determined by sextant cuts are shown on this sheet with a probable error of less than 5 meters in position and an actual error of less than 2½ meters.

The section from station Spike to Station Nip was run on the back of this sheet and transferred to this side. No adjustment of distance was needed in affecting the transfer.

The section from station Spike to between station Ned and Station Sun was run on the back of the sheet. Before preceeding with the field work of this section, the theodolite angle observed at Tri. Sta. Amukta between Tri. Sta. Spike and Tri Sta. South Rock was carefully plotted by protracter and by means of computed intercepts, one checking the other. The distance between Amukta and Spike as approximately determined by sextant cuts was laid down, thus establishing positions of these two stations together with a direction to South Rock on the reverse dide of the topographic sheet. In the field a cut was taken from a plane table location near Spike to Tri. Sta, South Rock to establish the position of the latter with true relation to the other two but on a scale related to the standard scale corresponding to the ratio of the unknown distance with respect to the approximate distance used. As the section comprises a cove which lends itself to plane table triangulation, that method, based on Spike, South Rock and Amukta, was used in locating the signals in this area. The intervening short sketches of shore line between signals were located by rod readings based on the standard scale. Any errors resulting were not accumulative and these in themselves were considered immaterial, assuming that a close approximation was had of the relatively long distance between Spike and Amukta. Since the assumed approximate distance was found to differ from its later determination by triangulation this section was out of scale. It was reduced proportionally in scale and transferred to this sheet. Only a slight adjustment of the shoreline was necessary between the adjusted positions of the topo signals.

The section from Signal Lint to junction with above section was done on this sheet, using sextant cuts to Hum, Leg, Square and Sun to assist in the control.

Copies of the sextant fixes are inclosed, pages 10-16
See copy of Report on Random Traverses (included), page 7

Prominent Features

The rock off the South shore of the island is prominent from West & East as a Very sharp top pinnacle rising from a flat rock. The pinnacle is gray in color. From the South the rock blends in with the shore.

The Stations Middle Finger and South Finger mark a jagged ridge with rock pinnacles along the top.

Just West (about 6 feet) from Station Totem 1940 there is a rock pinnacle, other pinnacles West of this one make a very jagged rock backbone to the ridge. This is prominent from the North and Northwest.

Station Box 1940 is a square rock peak on the ridge and is prominent from any direction that has the sky for a background. It can usually be identified even when it has the island for a background.

Form Lining

The formlining of the section of the island, approximately triangular, with North Amukta Peak. Spike and Station Hum as apexes, was accomplished by Lieut. H. A. Paton while in camp at Trader's Cove. accomplishing the triangulation. Some of the ravines, slopes and prominences directly along the shore were outlined by the topographer. The remainder of the island was formlined by observations using sextants fixes, cuts and vertical angles from launches. These fixes were taken, plotted and elevations computed in the launch and formlines drawn immediately after. Usually three cuts intersecting in a point or very small triangle established the location and a mean of the two or three vertical angles established the elevation. Generally, the agreement between elevations to the same point from different fixes differed by from 5 to 10 feet only.

List of Planetable Positions

See forms 524.

Photographs

Photographs and regarders are included.

T6862

Statistics

Statute miles of shoreline Area in sq. statute miles

16.6 26.6

Respectfully submitted
Cliffon Wagner

Approved & Forwarded

Elliams

Approval By Chief of Party

Topographic Sheet B-41 has been inspected and is hereby approved. The field work and office work was accomplished under my immediate supervision. No additional work is considered necessary.

F.B.T. Siems Chief of Party

RANDOM TRAVERSES

In the topographic surveys of Anukta and Saguam Islands, plane-table traverses in advance of the triangulation were run along strait-a-way or rounded sections of the coast. Control schemes, partly established at the time, covered interior areas adjacent to these sections with stations along the shore ridges generally inaccessible to the topographer and often invisible from the shore. By reason of this, the triangulation control eventually had to be carried to signals along the shore by sextant observations from the ship. The completion of an appreciably usable part of the control could not be effected, under existing circumstances within a moderate period of time.

In order to employ units of the party to the best advantage and also to utilize the few favorable opportunities afforded for landing, it was considered urgently necessary that the topographic work should proceed in advance of the delayed centrol.

Signal building of course preceded the topographic work. A suitable station along the shore was selected for starting the traverse. Its corresponding position on a blank, aluminum mounted sheet was assumed. The plane table was placed in an assumed orientation which was held during the progress of the traverse. All set-ups of the traverse were marked semi-permanently so that if any question arcse as to the correctness of any part of the work in later adjusting it to the control, a field investigation could be made readily.

The shores of anults and Seguen Telands for the most part do not lend themselves to plane table triangulation or other graphic methods of breaking down the control. This is the case particularly along those sections covered by the advanced topographic surveys; here, there are no prenounced bays or coves nor offlying islets or neighboring islands, and the interior regions are obstructed from view by elevated land adjacent to the shores. Only the immediate vicinity and a limited stretch along the shore are available to the topographer from his traverse stations and the plane table survey is confined mainly to the location of signals, and the delineation of the shoreline.

Hence it did not involve any complex adjustment in the transfer of the independently supped stretches of shore topography to a master projection, on which the subsequent control was plotted. As previously stated the control consisted mainly of sextant locations along the shore based on elevated triangulation stations. Sextant locations of topographic signals about one mile spart along the shore formed an accurate framework on which the traverse work was assembled.

Special care was exercised in securing accurate sextant locations of the topographic signals. The ship was brought to a still position for the sextant observations. A fix was based on four rather than three triangulation stations whenever possible. The angles for the fix and for cuts to various topographic signals were taken simultaneously, with observers grouped close to one another. The reading of the sextant in each case was verified by a second person. Generally the fix and the same cuts were taken a second time from approximately the same position. A large number of cuts for each location was observed. Elevation angles of the stations and signals were observed for reduction of inclined angles to the herisental plane. Indirect rather than direct measurement of an inclined angle was made when this increased the accuracy in reduction to the horizontal.

Special care was also emercised in the plotting of the sextant work. For this purpose, a sheet of "Paragen" lines-backed drawing paper was secured to the top of one of the EXPLORER's drawing tables with rubber coment and with a large number of fine wire staples along the edges of the sheet. In some cases where great accuracy was deemed necessary, the three-point fix was computed and plotted, rather than protracted on the sheet, and the cuts were plotted as assumble using computed intercepts.

7. 3. T. Siems, Commanding Officer, U.S.C. & G.S.S. EXPLORER.

Form 567 Rev. March 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

TO BE CHARTED STRIKE OUT ONE

Seattle, Washington

Cotober 8, 193 /41

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks, be charted on (deleted from) the charts indicated.

The positions given have been checked after listing.

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This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

SEXTANT FIXES

1.	Nac Totem Amukta Totem - Double Totem - Stack Totem - Lint Totem - Rock	95-01 53-58 24-20-10 42-23 57-33 51-53	V.A. V.A.	1 ⁰ 142¶ 1 ⁰ 26¶
2.	Nac Totem Amukta Totem - Double Totem - Stack Totem - Line Totem - Rock	31-09 55-28 6-12 19-05 56-41 24-52	V.A. V.A.	0°33' 1°40'
3•	Nac Totem Amukta Totem - Double Totem - Stack Totem - Line Totem - Rock	22-19 79-51 4-27-50 18-24 82-46 23-50	V.A. Rock V.A. S. Amukta Pt. V.A. Red Cinder Hill	9°351
4.	Nac Totem Amukta Totem - Hum Totem - So.Rk. Totem - Lint Totem - Hay	19-57 83-44 94-09-10 96-51 92-37 19-28	V.A. V.A. Hay	0°41 t 3°331
5•	Nac Totem Amukta Totem - Hum Totem - So.Rk. Totem - Lint Totem - Rock	16-55 48-23 54-32-30 76-52 51-54 10-31	V.A. V.A. Hay	0°281 2°421

	6.	Nac	114-03			
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i		Amukta	1/1- 20			
. :		Totem - Square	58-29-10			
		Totem - Spike	78 – 08			
		Totem - Line	42-10 53-24	V.A. Leg	0°051	
		Totem - Leg	,y)- c+	1020 200		
	7.	Totem	18-05		A	
	•	Amukta	er i e	V.A.	3°35 ¹	
		So.Rk.	6 11−11 6	** * * ***	0 ⁰ 291	
		Totem - Hum	16-20	V.A. Totem	0-29.	
		Totem - Leg Totem - Line	32 -4 1 11-22			_
		Totem - Square	42-30			
			-			
	8.	Totem	12-41			
		Hum So No	59 _ 148			
		So.Rk. Needle - So.Rk.	18-18-20			
		Leg - So.Rk.	46-00			
		So.Rk Spike	6-17			
• •		Square - So.Rk.	3 7- 141		•	
	9•	Totem	74-14			
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		So.Rk.	28-43			
		Hum - Sun	12-28-50 23-16			
		Hum - Spike Hum - Leg	-00-		•	
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			15 50	V.A.	0 ⁰ 31†	
	10.	Nac To tem	15-52	Y e.D.e	U) +	
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		Hum - So. Rk.	537			
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٠.		So.Rk.	39-40			
		Hum - Spike	39-22 22-48			
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•	13.	Totem	39-42			
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		Hum - Sun	25-08			
•	1₫•	Totem Hum	12-10			
		So,Rk.	41-59		•	
		Hum - Sun	25 54			
		Hum - Spike	<u> 49-25</u>			
	15.	Totem Hum	11-11			
		So. Ek.	42-32			
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	16.	Hun	62-38		•	
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		Tex - So.Rk.	13-18			
		Ned - So.Rk.	18-12	•		
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	17.	Hum So.Rk.	54-14	•		9
		Spike	46-56			
		Sun - So.Rk.	2059			
		Tex - So.Rk.	14-20			
	18.	Hum So. Rk.	55-04			
		Spike	43-49			
		Sis - So.Rk.	32-29			
		Ned - So.Rk.	13-02			
	19.	Hum So.Rk.	54 -48		•	
_		Spike	43-48			
		Leg - So.Rk.	43-10			
		Square - So.Rk.	38 – 34			
	20.	Amukta So Pir	46-11	∀.A.	2 <mark>0</mark> 121	
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		Spike So.Rk Ulm	3 ¹ 4-38 35-26	V.A.	0 4)	

21.	Amukta So.Rk.	4609	
	Spike So.Rk Ulm Hum - So.Rk.	31 <u>-42</u> 35-32 51-44	
22.	Amukta So.Rk.	45-52	•
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23.	Hum So.Rk.	11-29	
	Spike So.Rk Ulm So.Rk Red	38-36 38-14 57-54	
24.	Hum So. Rk.	11-05	
	Spike So.Rk N.W'ly rk. So.Rk S.E'ly rk.	41-54 27-47 20-00	
25.	Hum So.Rk. Spike	11 - 20 45 - 36	Red - Sea Lion Rk
	Red - SeaL. Rk. So.Rk Fan	63-10 54-50	
26.	Left Limb Sun - Hum Alt Sun Hum - So.Rk. Hum - Spike Hum - Zip	93-3 ¹ 4 60-20-30 0-31 20-36 66-06	
27•	Amukta - Yunaska Pk. Yunaska Peak - Zip Spike - Zip So.Ek Zip	7-19 56-18 30-01 60-53	
28.	Amukta - Yunaska Pk. Yunaska Pk Zip Spike - Zip So.Rk Red	7-28 55-53 30-39 57-47	
29.	Amukta - Yunaska Pk. Yunaska Peak - Zip Spike - Zip So.Rk. Zip So.Rk Red	7-31 55-14 31-17 60-24 57-04	

30.	Amukta - Unaska Pk. Uanaska Pk Zip Spike - Zip So.Rk Red So.Rk Ulm So.Rk Bone	7-39 54-45 31-47 60-07 27-40 38-54			
31.	Amukta - Tom So.Rk Tom So.Rk Ulm So.Rk Nip So.Rk Seal	55-48 52-38 26-45 48-04 55-40	V.A. Tom	5 ₀ 15 ₁	·
32.	Amukta - Tom So.Rk Tom So.Rk Ulm So.Rk Nip So.Rk Seal	55-05 51-25 26-30 46-59 54-22	V.A. Tom V.A. So.Rk.	1°18' 2°08' 0°20'23"	
33•	Amukta - Tom So.Rk Tom So.Rk Spike So.Rk Nip So.Rk Red So.Rk Seal	54-09 49-31 26-48 45-35 50-50 52-32	V.A. Amukta V.A. So.Rk. V.A. Spike	1°18t 2°07†30" 0°18† 0°47†	
34.	Amukta - Tom So.Rk Tom So.Rk Break So.Rk Spike So.Rk Zip	50-00 49-31 47-54 17-41 53-18	I.C2' V.A. V.A. Tom V.A. Break V.A. Spike V.A. So.Rk.	Amukta 1°09° 2°05° 1°48° 0°38° 0°15°	H.I301
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36.	So.Rk Spike	17-07	V.A. Break I.C+- 3' V. V.A. Tom V.A. So.Rk. V.A. Spike	5 ₀ 081	

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		Spike - Tom				
		Spike - Glee	75~23	V.A. Glee	3°21 ¹	
		Spike - Nip	7 -54	V.A. Spike	00151	
				.ext obino	4 - <i>y</i>	
		Spike - Seal	3 4 ⊷29			
		Spike - Cox	84-51			
		bprac - cor	U-1		•	
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	42.	Spike - Break	43-23	V.A. Break	3 ⁰ 41 •	
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		Spike - Nord	8 ?- 57			
		Spike - Zip	65-27			
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		Spike - Tom	68 -4 6	V.A. Tom	4 64'	
		Spike - Nip	7 ~ 30			
			76-43	V.A. Glee	3 ⁰ 251	
•		Spike - Glee				
		Spike - Seal	3 4- 34	V.A. Spike	0°201	
		Spike - Cox	86 -1 8			
		•		.	-0-0-	
	43.	Break - Nord	82-12	V.A. Break	3 ⁰ 261	
-			18-51	V.A. Try	501111	
A -		Try - Nord		1860 713	□ 'T''	
		Zip - Nord	674-55		_	
		Tom - Nord	52 <u>-42</u>	V.A. Tom	5 ⁰ 581	
				. 4474 TOTA	<i>y</i>	
		Pat - Nord	3 1 01		. 0.	
		Glee - Nord	31-18	V.A. Glee	ሰ ₀ ክዬ፣	
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		Seal → Nord	90-46			
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•	# 1#	Break - Nord	82-11	V.A. Break	2 ⁰ 24		
•		Try - Nord	18 11 8	V.A. Try	5 ₀ μμι		
		Zip - Nord	67 - 55		0.1		
		Tom - Nord	52 - 37	V.A. Tom	5°541		
		Pat - Nord	31-00				
•		Cox - Nord	17-10		. 0		
		Glee - Nord	31 -1 4	V.A. Glee	jt _O jtj†₁		
		Seal - Nord	90-148				
	45.	Break - Nord	113-53	V.A. Break	Soft&1		
	•	Try - Nord	42 <u>-2</u> 2	V.A. Try	ب ⁰ 30ء		
		Zip - Nord	115-38	-	_		
		Tom - Nord	99-37	V.A. Tom	6°12‡		
		Pat - Nord	8 <u>1</u> -06		_		
		Glee - Nord	6 7 34	V.A. Glee	6°51'	•	
		Moon - Nord	30 ~44				•
		Cox - Nord	53-00				
	46.	Break - Nord	113-45	V.A. Break	20jtg1		
	_	Try - Nord	42-09	V.A. Try	4°311		
		Zip - Nord	115-22	_			
	•	Tom - Nord	99-23	V.A. Tom	6°341		
. •		Pat - Nord	83-40		_		
		Glee - Nord	67-17	V.A. Glee	6 օդդ.		
		Moon - Nord	30-41				
•		Cox - Nord	52-38				
	47.	Amp - Nord	100-03	V.A. Amp	Й _О ЙЙ 1		
	•	Muka – Nord	49-23	-			
•		Try - Nord	89–18	V.A. Try	4 ⁰ 05 '		
		Glee - Nord	10 1 39	V.A. Glee	jt _O jtΩ s		
		Moon - Nord	75-22				
		Zip - Nord	127-01	,			
		Pat - Nord	118-21		•		
		Cox - Nord	10836				
	4g.	Amp - Nord	95-36	V.A. Amp	ħο581		
		Muka - Nord	48-21	·			
		Moon - Nord	72-01		_		
		Glee - Nord	99-52	V.A. Glee	ӆ _о Ѕӆ ҄ •		
		Zip - Nord	122-38				
		Pat - Nord	112-59	•			
		Cox - Nord	102-31				

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MEMORANDUM IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE	REPORT	**************************************	

received February 17, 1942
registered February 20, 1942
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 R. W. Knox

1 CWG

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF TOPOGRAPHIC SURVEY

REGISTER NO. 6862 Field No. B

Aleutian Islands, Amukta Island Surveyed June - July 1941; Scale 1:20,000 Instructions dated February 3, 1938 (SURVEYOR) and April 3, 1941 (EXPLORER)

Plane Table Survey

Aluminum Mounted

Chief of Party - F. B. T. Siems Surveyed by - H. A. Paton, E. B. Brown and K. S. Ulm Inked by - C. J. Wagner Reviewed by - Harold W. Murray Inspected by - H. R. Edmonston, September 3, 1942

1. Junctions with Contemporary Surveys

The junction of shoreline details on the northeast with T-6861 (1941) is very good.

2. Comparison with Prior Surveys

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

3. Comparison with Chart 8802 (New Print date 1-29-42)
9102 (New Print date 7- 2-42)

a. Topography

(1) Chart 8802

The charted topography on this chart originates with old miscellaneous information prior to the year 1893 (1st Ed., Chart 8800) and differs materially in outline. The charted elevation of the top of the island, 3738 feet, is 275 feet greater than the present survey determination of 3463 feet. The present survey is sufficiently adequate to supersede this miscellaneous information. The sunken rocks off the east and southeast sides of the island were disposed of in the review of R-6695 (1941).

(2) Chart 9102

The present survey was applied to this chart prior to review. The charted elevation of 3450 feet should be changed to 3463 feet. The 3450 value is the elevation of triangulation station NORTH AMUKTA PEAK which was established 250m. northeast of the highest elevation of 3463 feet.

b. Magnetic Meridians

Four magnetic observations were made and all vary 2 to 4-1/4 degrees less than the interpolated charted value of 12-1/4 degrees East. An additional observation of 10-1/2 degrees on this island was made on T-6681 (1941) at triangulation station MUKA in Lat. 52°32', Long. 171°15'. A local attraction of about 2 degrees (Declinatoire No. 252, correction plus 4 minutes) is indicated within a 1-1/2-mile section on the northwest side of the island (Lat. 52°30.4', Long. 171°18.4'). At signal ZIP a reading of 10 degrees decreases 2 degrees in changing to 8° at signal PAT (0.9 mile N.W.) and again changes back about 2-1/4 degrees at signal COX (1/2 mile N.W. of PAT) where an observation of 10-1/4 degrees was noted.

The declinatoire corrections were noted on the sheet by the reviewer and obtained from the Descriptive Reports of the contemporary surveys T-6861 (1941), page 3 and T-6869 (1941), page 3. The above magnetic information has been referred to the Division of Terrestrial Magnetism and Seismology.

- 4. Compliance with Instructions for the Project Satisfactory.
- 5. Condition of Survey
 Satisfactory.
- 6. Additional Field Work Recommended
 None.
- 7. Superseded Surveys

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

T-6862 (1941) - 3

Examined and approved:

Chief. Surveys Section

Chief, Division of Charts

Ippaynor

Chief, Section of Hydrography Chief, Division of Coastal Surveys