

6861

Diag.Cht. No. 1255

Form 504
Rev. April 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Topographic | Sheet No. **A 41**
Hydrographic

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

FEB 17 1912

1912 41

State **ALASKA**

LOCALITY

ALEUTIAN ISLANDS

CHAGULAK & AMUKTA ISLANDS

1912 41

CHIEF OF PARTY

F.B.T. Siems

U. S. GOVERNMENT PRINTING OFFICE 102221

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

Applied to Chart 8861 - Feb 1942 - J.W.
" " 8802 July 29, 1942 g.H.S.

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE. \$300

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

OFFICIAL BUSINESS
RETURN AFTER FIVE DAYS

PHOTO G.R.A.P.H.S

in D.R.
See letter dated Aug. 27, 1942

Photo graphic library U. S. N.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. A 41

REGISTER NO. T6861 Confidential

State ALASKA Aleutian Islands

General locality Aleutian Islands Amukta Pass

Locality Chagulak I. & N.E. side Amukta Island

Scale 1:20,000 Date of survey June 3 to July 5, 1941

Vessel Explorer

Chief of party F.B.T. Siema

Surveyed by E.B. Brown

Inked by E.B. Brown

Heights in feet above MHW to ground to tops of trees

Contour, Approximate contour, Form line interval 100 feet

Instructions dated Feb. 3, 1941

Remarks:

25-MER

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 Seguan Island are transmitted herewith:

T-6861 (Part) -- Chagulak Island
T-6862 -- Amukta Island
T-6861 (Part) -- Amukta shoreline bordering Chagulak Pass
T-6866 " -- Seguan Island, Moundhill Cape to Finch Cape
T-6868 " -- " " Finch Cape to $\frac{1}{4}$ Brown
T-6868 " -- " " $\frac{1}{4}$ Brown to Saddleridge Point
T-6867 " -- " " Saddleridge Point to $\frac{1}{2}$ Zed
T-6867 " -- " " $\frac{1}{2}$ Zed to $\frac{1}{4}$ Burn
T-6869 " -- " " $\frac{1}{4}$ Burn to Ora
T-6869 " -- " " Ora to Lava Point
T-6866 " -- " " Lava Point to Moundhill Cape

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 A-41 T-6861

Instructions: Dated February 3, 1941.

Limits: Chagulak Island and Northeast side of Amukta Island.

Description of Coast:

Chagulak Island is a small, uninhabited island with a central sharp peak ³⁷⁵⁰ feet high. Where the slope is not too steep, there is a growth of tall grass. In general there is a steep rocky bluff near the shore line--the island is almost inaccessible. The shore is either large boulders, vertical cliffs or outcropping rock. The northeast side is rugged with sharp ridges and deep draws. There is a thumblike protrusion 1120 feet elevation about 200 meters inside the high water line that shows well from a northwest or southeast direction (at Lat. $52^{\circ}35'$ Long. $171^{\circ}07.9'$). The northeast point above the rocky cliff is grass covered and gentle sloping. About 850 meters east of this point is a small 8-foot rock; seas break over this rock in moderate weather. About 1070 meters south of this rock is a prominent 150-foot pinnacle (Signal "Gull") ^{or islet} that lies about 600 meters offshore. The east side of the island is steep and rugged. The southeast point of the island is outcropping rock on which it is possible to make a landing in smooth weather at slack water. After landing on the low rocks it is necessary to scale a near-vertical 25-foot cliff then a steep grassy slope--above these the slope is gentle for about $1/3$ mile. This is the only place that this party was able to gain access to the island. About $1/2$ mile ^{West} east of this point there is a prominent smooth slide. About $1/2$ mile west of the slide are several prominent draws. There are many offlying rocks along the southern shore. The southwestern point of the island is fairly flat and grass covered. There is a small rise on the southern side of this point, 346-foot elevation (Signal "Max"). Near the northwest side of the point there is a rise near the end of the shoulder 352-foot elevation (Signal "Should"). There is a small island on which signal "Tang" is located, that gives enough shelter so that a landing may be made on the beach in moderate weather. There is a low ⁵-foot reef about 170 meters off the southwest point of the island. On the western side there is a rounded thumblike protrusion (Signal "Thumb"), about 500 meters from the high water line, 1495 foot elevation. It may be seen best from the southwestward while there is snow on the island. It is on a ridge which forms the southern boundary of a deep valley.

At Lat. $52^{\circ}34.3'$ Long. $171^{\circ}09.8'$ there is a 225-foot pinnacle rock tangent to the shore line. A beach landing may be made on the southern side of this pinnacle. About 400 meters north of the pinnacle is an almost impassable 20-foot dike that extends about 20 meters outside the high water line. There are many rocks awash and sunken rocks off the point 250 meters north of the dike.* There are two prominent rocks off the northwest point of the island. The inshore rock is 55-foot elevation, the offshore rock (Triangulation Station "Nord") is 44-foot elevation. The northern shore is very rugged with precipitous rocky bluffs. There is a pinnacle 1905-foot elevation near the south side of a large shoulder about 570 meters south of the high water line (Signal "Pea"). In general there is a growth of kelp near the shores being thickest off the western shore.

* No feature shown on sheet.

The ^{east} northwest shore of Amukta Island is in general lava bluffs or large boulder beach. There are many offlying rocks along this shore. A good landing place is in the small bight on the south side of Signal "Big". There is a good small boat anchorage and landing in the small cove southwest of Signal "Near".

At Lat. $52^{\circ}30.2'$ Long. $171^{\circ}13.6'$ is a ¹⁴⁸⁰~~1650~~-foot cinder cone that is prominent especially while the snow is still on the island.

Landmarks:

The most prominent landmarks are: Peak (Triangulation Station "Chagulak Peak"); Pinnacle (Signal "Gull"); Cinder Cone.

Character of Control:

The sheet was controlled by triangulation and by signals "Gon" and "Nac", which were located by theodolite cuts.

Survey Methods:

The signals were cut in from the triangulation stations and from well-located topographic stations and by traverse. A traverse originated at signal "Gon" and closed on station "Nord" with a negligible closing error. A traverse was run between stations "Nord" and "Nac" with a 20 meter closing error. This error was adjusted in proportion to the distance from the origin in a north-easterly direction. No unusual survey methods were used.

Form Lines Verified:

There were very few cases where it was possible to get form line cuts from the beach. Form lines were drawn from sextant cuts taken from either a launch or the ship while cruising near the island.

Approved and Forwarded:

H. B. Siems
F. B. T. Siems,
Commanding Officer,
U.S.C. & G.S.S. EXPLORER.

Respectfully submitted,

E. B. Brown
E. B. Brown,
Jr. H. & G. Engr.,
U.S.C. & G.S.S. EXPLORER.

Magnetics:--

Magnetic meridians were drawn on the sheet with declinometer
No. 254, correction minus 9 minutes--calibrated by H. A. Paton
April 21, 1941.

Signals Outside High Water Line:--

Sub: A small 8 foot rock. $\phi 52^{\circ}35'$, $\lambda 171^{\circ}06'$

Gull: A 150 foot pinnacle.

Nac: A hydrographic disk on south side of 90 foot pinnacle.

Tang: A triangulation disk on south side of 160 foot pinnacle.

Brace: A white wash on rise on S.W. side of rock islet.

Nord: Top of an off lying rock islet.

Near: Top of rise at off shore end of rock islet. $\phi 52^{\circ}32'$, $\lambda 171^{\circ}15'$

Off: Top of 20 foot pinnacle.

Seal: Pointed off lying rock 8 feet high.

In: Highest and inshore edge of top of rock.

Ink: White wash on eastern end of rock.

Attached here with are computations of positions of signals that
were located by theodolite cuts.

Statistics: Statute miles of shore line = 17.0

Square statute miles of topography = 3.4

Topo only

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
FORM 27
Ed. April, 1929

POSITION COMPUTATION, THIRD-ORDER TRIANGULATION

Conf Out.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Form 27
Ed. April, 1929

POSITION COMPUTATION, THIRD-ORDER TRIANGULATION

α	2	to 3	200	02	35	α	3	to 2	380	04	14
$2d\angle$			+ 1/6	33	27	$3d\angle$			- 10/	35	10
α	2	to 1	2/6	36	02	α	3		278	29	04
$\Delta\alpha$			0.3	10		$\Delta\alpha$				1	31
α'	1	to 2	180	00	00.0				180	00	00.0
			36	39	12	α'	1	to 3	98	30	35
First Angle of Triangle											
	°	,	°	,	°	°	,	°	°	,	"
	°	,	°	,	°	°	,	°	°	,	"
ϕ	52	30	08.335	2	0.89	λ	171	12	10.893	φ	52
$\Delta\phi$	03	16.200				$\Delta\lambda$	03	59.149	$\Delta\phi$		10.509
ϕ'	52	33	24.535	1	$\sqrt{2}c$	λ'	171	08	11.744	ϕ'	52
							°	"	+ 0.001		24.534
									1	NAC	
s	3.878	340	Values in seconds								
Cos α	9.904	614	$\frac{1}{2}(\phi+\phi')$		52	31	46.5	s	3.342	093	Logarithms
B	8.509	895									$\frac{1}{2}(\phi+\phi')$
	2.292	849	(1096.2)								52
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To be only

POSITION COMPUTATION, THIRD-ORDER TRIANGULATION

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
FORM 27
Ed. April 1929

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POSITION COMPUTATION, THIRD-ORDER TRIANGULATION

THE VETERINARY PRACTICE OF HORSES. 1823

TRIANGLE COMPUTATION USING TWO SIDES AND INCLUDED ANGLE

$$\left[\frac{a}{b} = \tan (45^\circ + \phi) \quad (\text{Call longer side } a): \quad \tan \frac{1}{2} (A_p - B_p) = \tan \phi \tan \frac{1}{2} (A_p + B_p): \quad c = \frac{a \sin C_p}{\sin A_p} \right]^*$$

C_s		Log a	3.949 819	Log m
Sph. excess		Log b	3.944 220	Log sin C_s
C_p	31 15 55.4	Log tan (45 + ϕ)	0.005 599	Log a
$\frac{1}{2} C_p$	15 37 57.7 (45° + ϕ)		45 22 09.6	Log b
$90^\circ - \frac{1}{2} C_p = \frac{1}{2} (A_p + B_p)$	74 22 02.3 ϕ		0 22 09.6	Log sph. ex.
$\frac{1}{2} (A_p - B_p)$	1 19 10.8	Log tan ϕ	7.809 3019	Sph. excess
Sum = A_p	75 41 13.1	Log tan $\frac{1}{2} (A_p + B_p)$	10.553 1209	
Diff = B_p	73 02 51.5	Log tan $\frac{1}{2} (A_p - B_p)$	8.362 4228	
C_p	31 15 55.4		(Sketch)	A CHAGULAK
	180 00 00.0			
Log a	3.949 819			
Log sin C_p	9.715 170			
Colog sin A_p	0.013 694			MUKA
Log c	3.678 683			TOTEM

CHECK COMPUTATION

No.	STATION	SPHERICAL ANGLE	SPHERICAL EXCESS	PLANE ANGLE AND DISTANCE	LOGARITHM
2-3					3.678 683
1	CHAGULAK	31 15 55.4			0.284 830
2	TOTEM	73 02 51.5			9.980 706
3	MUKA	75 41 13.1			9.986 306
1-3					3.944 219 +1
1-2					3.949 819 ✓
		180 00 00.0			
2-3					3.678 683
1	DRAG	15.5 34 32.6			
2	TOTEM	20 31 51.5			
3	MUKA	3 53 37.1			
1-3					
1-2					
		180 00 01.2			

*The subscripts s and p on this form refer to spherical and plane angles respectively.

Final

TRIANGLE COMPUTATION USING TWO SIDES AND INCLUDED ANGLE

$$\left[\frac{a}{b} = \tan (45^\circ + \phi) \quad (\text{Call longer side } a) : \quad \tan \frac{1}{2} (A_p - B_p) = \tan \phi \tan \frac{1}{2} (A_p + B_p) : \quad c = \frac{a \sin C_p}{\sin A_p} \right]^*$$

C_s		Log a	3.949 819	Log m
Sph. excess		Log b	3.927 106	Log sin C_p
C_p	4 13 03.3	Log tan (45° + ϕ)	0.022 713	Log a
$\frac{1}{2} C_p$	2 06 31.6 ¹⁵ (45° + ϕ)		46 29 51.2	Log b
$90^\circ - \frac{1}{2} C_p = \frac{1}{2} (A_p + B_p)$	87 53 28.4 ¹⁵ ϕ		1 29 51.2	Log sph. ex.
$\frac{1}{2} (A_p - B_p)$	35 22 28.3 ¹⁵ Log tan ϕ	8.417 3592		Sph. excess
Sum = A_p	123 15 56.7	Log tan $\frac{1}{2} (A_p + B_p)$	1.433 8957	
Diff = B_p	52 31 00.0	Log tan $\frac{1}{2} (A_p - B_p)$	9.851 2549	CHAGULAK 1940
C_p	4 13 03.3			(Sketch)
	180 00 001			
Log a	3.949 819			
Log sin C_p	8.866 549			
Colog sin A_p	0.077 723			DRAG
Log c	2.894 091			A c TOTEM, 1940

CHECK COMPUTATION

No.	STATION	SPHERICAL ANGLE	SPHERICAL EXCESS	PLANE ANGLE AND DISTANCE	LOGARITHM
2-3					2.894 091
1	CHAGULAK	4 13 03.3			1.133 451
2	TOTEM	52 31 00.0			9.899 564
3	DRAG	123 15 56.7			9.922 277
1-3					3.927 106
1-2					3.949 819
		000			
2-3					
1					
2					
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1-3					
1-2					

*The subscripts s and p on this form refer to spherical and plane angles respectively.

Topo only

COMPUTATION OF TRIANGLES

11-9121

State: _____

NO.	STATION	OBSERVED ANGLE	CORR'N	SPHER'L ANGLE	SPHER'L EXCESS	PLANE ANGLE AND DISTANCE	LOGARITHM
2-3							3.832 635
1 Nac		(61 51 18)	+05			23	0.054 645
2 Drag		16 33 35	-08			27	9.454 813
3 Tang		101 35 07	+03			10	9.991 059
1-3							3.342 093 (4)
1-2							3.878 340 (0)
2-3							3.790 620
1 Nac		(31 42 03)	-16			47	0.279 493
2 Muka		10 46 39	+14			53	9.271 984
3 Tang		137 31 18	+2			20	9.829 499
1-3							3.342 097
1-2							3.899 612 (1)
2-3							3.607 173
1 Nac		(30 09 11)	+24			35	2.298 939
2 Drag		80 06 55	-9			46	9.993 501
3 Muka		69 43 54	-15			39	9.972 228
1-3							3.899 613
1-2							3.878 340
							comp. part.
2-3							3.607 173
1 Thum		(29 12 26)					0.311 607 /
2 Drag		65 58 58	/				9.960 672
3 Muka		84 48 36	/				9.998 216
1-3		17 118 120					3.879 452 /
1-2							3.916 996

Do not write in this margin

Topo only

COMPUTATION OF TRIANGLES

State: _____

11-9121

NO.	STATION	OBSERVED ANGLE	CORR'N	SPHER'L ANGLE	SPHER'L EXCESS	PLANE ANGLE AND DISTANCE	LOGARITHM
	2-3						3.790 620
	1 Cinder Hill	(53 42 27)					0.093 662
	2 Muka	101 58 15					9.990 451
	3 Tang	24 19 18					9.614 748
	1-3						3.874 733
	1-2						3.499 030
	2-3						
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Topo only

COMPUTATION OF TRIANGLES

State: ALASKA

11-9121

NO.	STATION	OBSERVED ANGLE	CORR'N	SPHER'L ANGLE	SPHER'L EXCESS	PLANE ANGLE AND DISTANCE	LOGARITHM
	2-3						3.678 683
1	Gon (nw)	(38 04 53)					0.209 870
2	Totem	50 43 16					9.888 782
3	Mukas	91 11 51					9.999 905
	1-3						3.777 335
	1-2						3.888 458
	2-3						3.607 173
c	1 Gon	(34 52 18)					0.242 801
	2 Drag	57 49 28					9.927 586
	3 Mukas	87 18 14					9.999 519
	1-3						3.777 560 (225)
	1-2						3.849 493
	2-3						2.894 091 ✓
1	Gon	(3 12 35) ✓					1.251 882 ✓
2	Totem	30 11 25 ✓					9.701 458 ✓
3	Drag	146 36 ⁵⁴ 00 ✓					9.740 742 ✓
	1-3						3.847 431
	1-2						3.886 715
	2-3						
1							
2							
3							
	1-3						
	1-2						

Do not write in this margin

	Remarks	Decisions
1		525710 U.S.G.B
2		" "
3	OK to ink pending U.S.G.B. decision.	"
4		
5	A card is being submitted to U.S.G.B.	
6	for the 150' rock just east of	"
7	Chugulair I (signal G U L L). En Baker	"
8	it is either High Rock (as on	
9	charts 8802, 9102) or Chugulair	
10	Rock (el. 122 feet).	
11		
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GEOGRAPHIC NAMES

Survey No. **T6861**
Confidential

Name on Survey	A, On Chart No.	B, On previous survey No.	C, On U. S. quadrangle Maps	D, From local information	E, On local Maps	F, P. O. Guide or Map	G, Rand McNally Atlas	H, U. S. Light List
<u>Amukta Island</u>								1
<u>Chagulak Island</u>								2
<u>Chagulak Pass</u>								3
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MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT

xNoott

No. T T6861

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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CONFIDENTIAL

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF TOPOGRAPHIC SURVEY

REGISTER NO. 6861

Field No. A

Aleutian Islands, Chagulak Island
and N. E. Side Amukta Island
Surveyed June 3 - July 5, 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 - E. B. Brown
Inked by - E. B. Brown
Reviewed by - Harold W. Murray
Inspected by - H. R. Edmonston, September 7, 1942

1. Junctions with Contemporary Surveys

The junction of shoreline details with T-6682 (1941) on the northwest and southeast sides of Amukta Island is satisfactory. Form lines for this island are shown on T-6682.

2. Comparison with Prior Surveys

No prior surveys have been made in this area.

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

a. Topography

(1) Chart 8802

Topography on this chart originates with miscellaneous information prior to the year 1893 (1st ed., chart 8800). The island as charted is 1 mile northwest of the present survey location and the maximum present elevation is 3,750 feet instead of the charted 4,300-ft. value. The sunken rock charted on the northwest side of the island was disposed of in the review of H-6695 (1941). The present survey supersedes the above charted information.

(2) Chart 9102

The present survey was applied to this chart prior to review. No comment is necessary except that the shoreline has been generalized and several close-lying islets have been omitted.

b. Magnetic Meridian

The two declinatioire observations on Chagulak Island agree closely with the charted value. The observations on Amukta Island have been considered in detail in the review of T-6862 (1941), par. 3b.

4. Compliance with Instructions for the Project

Satisfactory.

5. Condition of Survey

A commendable addition to the Descriptive Report is a list of all signals outside the high water line accompanied by a description of the objects on which they are located.

6. Additional Field Work Recommended

None.

7. Superseded Surveys

None.

Examined and approved:



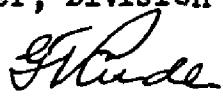
Chief, Surveys Section



Chief, Division of Charts



Chief, Section of Hydrography



Chief, Division of Coastal Surveys