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6971a

Diag. Ch. No. 8865-1

Form 504

## U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC SHEET

Field No. EX-"D"-44 Office No. T-6971a

## LOCALITY

State Alaska - Aleutian Islands

General locality Aleutian Islands, Attu IslandLocality Steller Cove

194 4.

## CHIEF OF PARTY

Roland D. Horne

## LIBRARY &amp; ARCHIVES

DATE

FEB 2 1945

B-1870-1 (1)++

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. T6971a

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. Ex-D-44

REGISTER NO. **T6971a**

State Alaska - Aleutian Islands

General locality Aleutian Islands, Attu Island

Locality Steller Cove

Scale 1:10,000 Date of survey July, 19 44.

Vessel EXPLORER

Chief of party Roland D. Horne

Surveyed by Howard S. Cole

Inked by Howard S. Cole

Heights in feet above MHW ~~to ground~~ ~~to tops of trees~~

Contour, Approximate contour, Form line interval \_\_\_\_\_ feet

Instructions dated July 13, 19 44.

Remarks: \_\_\_\_\_



DESCRIPTIVE REPORT

TO ACCOMPANY

TOPOGRAPHIC SHEET "D"

T-6971a (1944)

STELLER COVE, ATTU ISLAND, ALASKA.

AUTHORITY:

Instructions Project 13, Steller Cove and approaches,  
dated July 13, 1944. ✓

CONTROL:

Triangulation was done in Steller Cove by the EXPLORER  
which was tied into the U.S.N. GANNET 1934, datum by a planetable  
traverse from Holtz Bay. The datum of the sheet is U.S.N. GANNET  
1934 (approximate). N.B. ✓

METHODS:

Topography was started before the triangulation was  
finished. Only the length of the base line and the azimuth were  
known but work was confined to the shoreline between "STEL" and  
"PRIT" until the triangulation was available. The triangulation  
was plotted by swinging arcs and the projection was put on the  
sheet after the work was finished. ✓

ERRORS:

Due to the method of plotting the triangulation some  
discrepancies may be found. The best way to use the signals  
located is to adjust between the triangulation stations. ✓

RECOMMENDED NAMES:

It was suggested by the field parties that the three



small coves making up Steller Cove be called, Auburn Cove, Brunette Cove, and Blonde Cove. If this were done Steller Cove might be called Steller Bay. These names have been shown in pencil on the sheet.

RECOVERABLE TOPOGRAPHIC POSITIONS:

The bench marks used in connection with the tide gage were located. Descriptions were furnished with the report on the installation of the gage. None of the bench marks are particularly good for hydrographic signals.

MAGNETIC DECLINATION:

A declinatoire observation was taken at the Steller S.E. Base. The value of  $7^{\circ}00'$  East which agrees favorably with transit magnetometer observations in the same vicinity was scaled from the sheet. This value for the declination however, is probably too high for the general area according to the charts.

Chart value  
is  $2^{\circ}45'$  E.

40

STATISTICS:

Statute miles of shoreline - 6.6

Respectfully submitted,

*Howard S. Cole*

Howard S. Cole,  
H. & G. Engr.

APPROVED AND FORWARDED:

*Roland D. Horne*

Roland D. Horne,  
Commanding Officer,  
U.S.C. & G.S.S. EXPLORER



# GEOGRAPHIC NAMES

Survey No.

T6971a

Name on Survey

	A	B	C	D	E	F	G	H	K	
	On Chart No.	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>Aleutian Islands</u>				(for title)						1
<u>Attu Island</u>								USGB		2
<u>Steller Cove</u>				530725E				"		3
<u>Red Head</u>				"						4
<u>Auburn Cove</u>				525725E						5
<u>Brunette Cove</u>										6
<u>Blonde Cove</u>										7
<u>Bering Sea</u>								USGB		8
										9
										10
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										27

by L. Heck on 9/11/45



DIVISION OF CHARTS

REVIEW SECTION -- NAUTICAL CHART BRANCH

REVIEW OF TOPOGRAPHIC SURVEY

REGISTRY NO. 6971a

FIELD NO. Ex-D-44

Aleutian Islands, Attu Island, Steller Cove  
Surveyed in July 1944      Scale 1:10,000  
Project CS-218

Plane Table Survey

Aluminum Mounted

Chief of Party - R. D. Horne  
Surveyed by - H. S. Cole  
Inked by - H. S. Cole  
Reviewed by - J. A. McCormick  
Inspected by - H. W. Murray, Oct. 11, 1945.

1. Adjoining Surveys

This survey makes a satisfactory junction on the east with photo shoreline added in this office to graphic control survey T-6973a (1944). Note that independent triangulation on the present survey depends for datum on a planetable traverse carried on T-6973a from triangulation in Holtz Bay.

2. Previous Surveys

None.

3. Comparison with Chart 9127 (Print of April 28, 1945)

Topography charted in this area is from blueprints submitted by the field party in advance of the inked survey. Small differences between chart and survey should be adjusted when the chart is reconstructed.

It will be noted that declinoire values for variation are  $7^{\circ} 00'$  E as compared with  $2^{\circ} 45'$  E on the chart. As transit magnetometer observations were made in the vicinity (descriptive report, page 2) and agreed substantially with the declinoire, the Division of Geomagnetism and Seismology undoubtedly is aware of the discrepancy.

4. Compliance with Project Instructions


Satisfactory.

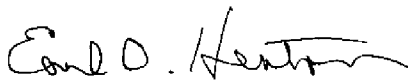



5. Additional Field Work Recommended

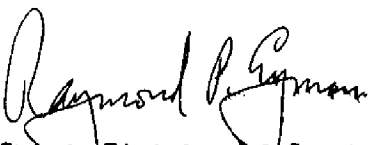
None.

Examined and approved:

  
Chart Division  
Chief, Nautical Chart Branch

  
Chief, Section of Hydrography

  
Chief, Division of Charts

  
Chief, Division of Coastal Surveys



## NAUTICAL CHARTS BRANCH

SURVEY NO. T. 6971 a

### Record of Application to Charts

[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

6971b

6971b

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	TOPOGRAPHIC SHEET
Field No. <i>Ex- "E"-44</i>	Office No. <i>T6971b</i>
LOCALITY	
State	ALASKA - Aleutian Islands
General locality	<del>ALEUTIAN ISLANDS</del> , SHEMYA ID.
Locality	ALCAN COVE
194 4.	
CHIEF OF PARTY	
Roland D. Horne	
LIBRARY & ARCHIVES	
DATE	FEB 2 1945



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 16971

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. ~~65~~ "E" 44

REGISTER NO. 7697

State ALASKA - Aleutian Islands

General locality ALEUTIAN ISLANDS, SHEMYA ISLAND

Locality ALCAN COVE

Scale 1:5,000 Date of survey May - June, 1944.

Vessel EXPLORER

Chief of party Roland D. Horne

Surveyed by Howard S. Cole

Inked by Howard S. Cole

Heights in feet above MHW ~~to ground to tops of trees~~

Contour, Approximate contour, Form line interval feet

Instructions dated May 16, 1944.

Remarks:

DESCRIPTIVE REPORT  
TO ACCOMPANY  
TOPOGRAPHIC SHEET "E"  
ALCAN COVE, SHEMA ISLAND, ALASKA.

AUTHORITY:

Instructions Project 10, Survey and Wire-drag of Alcan  
Cove, Shema Island, Alaska, dated May 16, 1944. ✓

CONTROL:

Triangulation by the U.S.E.D. in 1943 and by the Ship  
EXPLORER, in 1944. Traverse by the U.S.E.D. Datum of this sheet  
is U.S.N. GANNET, 1934. ✓

METHODS:

This sheet was originally on the U.S.E.D. grid and the  
coordinates of all the signals on the U.S.E.D. grid is enclosed  
with this report. To start the sheet the Army furnished coordi-  
nates for some of the stations as computed from cuts at various  
traverse stations. It was intended that the sheet be only a  
quick check on these Army computations but as more signals were  
needed from time to time it gradually expanded. Signals "Ken",  
"Spar", "Cat", "Dog", "Cog", "Red", "Dock", "Tri", "Her", "Short",  
"Kiss", "City", and "Dick", were located as above and were plotted  
on the sheet. To check these locations the planetable was set up  
at "SHEMA", and cuts taken to some of the signals, but most of  
the check cuts were taken at a set-up on the edge of the bluff, ✓



just west of "SHEMYA". The orientation for these checks was on triangulation station "END". No great error could be found and the signals as plotted were considered correct for the rest of the work. Station "Tri" was one of the Army traverse stations.

All signals other than those mentioned as being located by the Army were located on this sheet by standard topographic methods.

The projection was put on the sheet after the field work was completed.

ERRORS:

There were no great discrepancies noted during the course of the field work. Station "Lit" is believed to be the same as the station of the same name on the work done by the HYDROGRAPHER in 1943, and the location on this sheet compares very well with the HYDROGRAPHER location. Some of the signals on the sheet were also located by the SURVEYOR in 1944, but no comparison has been made.

TOPOGRAPHIC FEATURES:

The docks were not completed at the time the topography was done. Also the breakwater which starts near signal "Far", has been extended. The whole area is under construction making many changes highly probable.

RECOVERABLE TOPOGRAPHIC POSITIONS:

Bench Marks 1, 2, 3, 4, and 5, used in connection with the

tide gage were located. Descriptions will be found in the report ✓  
on the tide gage installation.

STATISTICS:

Statute miles of shoreline - 3.7

Respectfully submitted,

*Howard S. Cole*

Howard S. Cole,  
H. & G. Engr.

APPROVED AND FORWARDED:

*Roland D. Horne*

Roland D. Horne,  
Commanding Officer,  
U.S.C. & G.S.S. EXPLORER.



ADDITIONS TO DESCRIPTIVE REPORT T-6971-B

Washington Office, May 15, 1945

Details shown in green on T-6971-B were compiled from air photographs in this office.

Photographs:

6-14, 3-6, 5-7, at scale 1:10,000, dated 1944 and 1-V-35 at 1:10,050, dated 1944.

Field Inspection:

Photographs field inspected by planetable party. Only triangulation and hydrographic signals located. No shoreline or other features located.

Compilation:

Compilation done by holding the triangulation and hydrographic signals that were identified on the photographs. Shoreline, ledges, etc. were delineated on the photographs with the aid of a stereoscope and transferred to the sheet by use of a vertical projector.

Compiled by: A. H. Faulds

Verified by: M. G. Misulica

Inspected by - L. C. Lande

note.

Though there was no field inspection of shoreline details it is believed that the additions from the photographs are with standard accuracy specifications.

B. Jones

J. A. Mc Cormick  
10/11/45.

COORDINATES-SIGNALS IN VICINITY OF  
ALCAN COVE, SHEMYA ISLAND

<u>SIGNAL</u>	<u>NORTHING (ft.)</u>	<u>EASTING (ft.)</u>
SHEMYA 1943	31,805.82	110,858.02
QUA 1943	31,957.87	111,322.98
Box	33,018.88	111,624.34
Point	32,834.16	111,634.68
Car	31,671.52	109,851.37
✓ Kid	30,665.02	109,379.59
✓ John	30,128.16	109,119.42
Long	29,556.59	108,921.26
Dick	28,949.48	108,646.99
City	28,510.29	108,516.03
Kiss	27,834.88	107,855.41
Short	27,637.14	107,274.12
Her	27,470.97	106,813.19
✓ Tri	27,113.81	106,119.09
Tel	27,260.63	106,124.99
Dock	27,525.39	105,660.43
Red	27,427.12	105,273.55
Cog	27,656.40	105,076.67
Ken	29,091.36	104,821.68
Ship	28,976.21	106,748.36
✓ Cat	28,806.24	105,943.54
Dog	28,670.23	105,953.37
Spar	28,577.03	105,441.23
END 1943	25,843.93	103,952.06

<u>SIGNAL</u>	<u>NORTHING (ft.)</u>	<u>EASTING (ft.)</u>
MID - 1943	25,750.91	115,347.99
RAD - 1943	27,029.23	121,567.03
FOR - 1943	28,495.16	115,740.85
North Radio	28,960.95	110,317.42
South Radio	28,469.32	110,268.04
Rock	27,423.15	106,656.17
Hecp	27,823.82	104,807.08
Art	28,179.79	105,031.49
Far	28,578.41	104,830.05
Low	29,099.25	104,846.46
Lit	33,827.59	110,725.06
New	31,984.25	109,567.75
Check	28,431.43	108,626.64
BM - No. 1	27,362.86	106,063.98
BM - No. 2	27,398.95	106,246.39
BM - No. 3	27,461.28	106,521.16
BM - No. 4	27,557.74	106,764.76
BM - No. 5	27,695.86	106,950.73



# GEOGRAPHIC NAMES

Survey No.

**T6971 b**

Name on Survey

	On Chart No.	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	
Aleutian Islands				(for title)					1.
Shemya Island				525 740E			USG-B		2
Alcan Cove				"					3
Bering Sea							USG-B		4
									5
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by L Heck on 9/4/45



## NAUTICAL CHARTS BRANCH

SURVEY NO. T. 6971

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[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.