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Form 504 Ed. June, 1928	
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY L. O. COLBERT....., Director	
State: ALASKA	
DESCRIPTIVE REPORT	
Topographic Hydrographic	Sheet No. Field A-38 Register No.- T-6716
LOCALITY	
SOUTH COAST - UNALASKA ISLAND	
ALEUTIAN ISLANDS	
1939	
CHIEF OF PARTY	
RAY L. SCHOPPE	

U. S. GOVERNMENT PRINTING OFFICE: 1923

DECLASSIFICATION BY NOAA

PURSUANT TO DOC SYSTEMATIC REVIEW

GUIDELINES AS DESCRIBED IN SECTION

3.3 (a), EXECUTIVE ORDER 12356

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 - 38

**T6716**

REGISTER NO.

State ALASKA-- ALEUTIAN ISLANDS

General locality UNALASKA ISLAND

Locality Vicinity CAPE ALIAK

Scale 1:20,000 Date of survey Season, 19 38 - 39

Vessel U.S.C.&G.S. Ship SURVEYOR

Chief of party Ray L. Schoppe

Surveyed by J.C. Tison, John Bowie, Jr., A.C. Thorson

Inked by A.C. Thorson

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

Contour, Approximate contour, Form line interval 100 feet

Instructions dated February 3, 19 38

Remarks: Sheet started 1938 Field Season, completed during

1939 Field Season



DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET - FIELD NO. A-38

SOUTH COAST - UNALASKA ISLAND

PROJECT HT-218

FIELD SEASONS - 1938, 1939

INSTRUCTIONS:

Field work was executed in accordance with Director's Instructions dated February 3, 1938 covering combined operations of the Str. SURVEYOR.

EXTENT OF SURVEY:

This survey includes the Pacific Ocean coastline of Unalaska Island, Northeast of Cape Aiak, from Latitude  $53^{\circ} - 18.37'$  and Longitude  $167^{\circ} - 21'$ , to Latitude  $53^{\circ} - 20'$  and Longitude  $167^{\circ} - 21'$ .

The interior area covered by the survey is bounded as follows: from a point on coast in Latitude  $53^{\circ} - 17.4'$  and Longitude  $167^{\circ} - 28.5'$ , W.S.W. to a point in Latitude  $53^{\circ} - 17.2'$  and Longitude  $167^{\circ} - 30.8'$ , thence NW along an irregular line to Latitude  $53^{\circ} - 21'$  and Longitude  $167^{\circ} - 33'$ ; thence NE on an irregular line to a point in Latitude  $53^{\circ} - 24.5'$  and Longitude  $167^{\circ} - 23.7'$ ; thence SE to a point in Latitude  $53^{\circ} - 21.5'$  and Longitude  $167^{\circ} - 19.6'$ ; thence S to a point on the coastline in Latitude  $53^{\circ} - 20.15'$  and Longitude  $167^{\circ} - 20'$ .

GENERAL DESCRIPTION:

The coastline slopes gradually in a NE'ly direction from the high headland N of triangulation station PIN, to a low point on which triangulation station NOSE is located.

North of this point there is a small bay that affords shelter for small craft in all but SE'ly weather. On the west side of this bay there is a broad sand beach backed by a low grassy valley. Three streams flow thru the valley. A rocky point projects from the middle of the beach. The East side of the bay is bordered by a chain of small rocky islets. A broad flat reef that bares one foot at M.L.L.W. lies northwest of these islets.

From the north end of the beach in the above bay, northeasterly to signal WAT the coastline is irregular with rocky ledges extending offshore. Back of the H.W. line steep rocky bluffs interspersed with small gullies are prominent. The rock cliffs between signals BAL and WAT are very precipitous. A small waterfall is located at the head of a small bight (Signal WAT).

From signal WAT to the eastern limit of the sheet the bluffs back of the shoreline are low and for the most part grass covered. There is a rough rocky ledge extending south from signal BOB and another



connecting the pinnacle rock (triangulation station <sup>SOL</sup>~~SOE~~) with the mainland. ✓

Grass covered mountains lie inland from this stretch of coastline. ✓  
Except for the south slope of the range that runs parallel to the coast  
the drainage is largely to the northwest side of Unalaska Island.

CONTROL:

This sheet is controlled by Second and Third order triangulation established during the 1936 Field Season. ✓

SURVEY METHODS:

The shoreline from Triangulation station PIN to the point, signal DOC, was executed during the 1938 Field Season by J.C. Tison. The balance of the shoreline to signal PIL, was completed during the 1939 Field Season by John Bowie Jr. The form lines were established by A.C. Thorson during the 1939 Field Season. ✓

Standard methods as prescribed in Special Publication No. 144 were used in the execution of this Survey. ✓

A traverse was run from Triangulation station PIN to triangulation station NOSE. This was in error about 5 meters in azimuth and adjustment was made in the field. ✓

Signals were cut in from triangulation stations NOSE and ISLE. In traversing between triangulation station NOSE and signal DOC, checks were made by resecting on the above two stations and triangulation station HOPE. No error was introduced. ✓

Mr. Bowie ran a traverse from Signal DOC to triangulation station SOL without appreciable error. ✓

All outlying features were located by stadia readings or by 3 or more cuts from planetable positions. ✓

ELEVATIONS:

The elevations on ridge between Latitudes  $53^{\circ} - 17'$  and  $53^{\circ} - 19'$  and between Longitudes  $167^{\circ} - 30'$  and  $167^{\circ} - 31'$ , were transferred from Field sheet UL-36. The elevation and form lines (near top) of peak in Latitude  $53^{\circ} - 24'$  and Longitude  $167^{\circ} - 26'$  were transferred from 1:40000 scale sheet showing form lines of Unalaska Island. All other elevations were obtained during 1939 Field Season.   
*Not 40,000 scale sheet received in office or shown on layout. T-6548 joins in this vicinity. Scale 1:40,000.* ✓

Elevations were obtained by use of the alidade for cuts and vertical angles and the hypsograph for computing elevations. ✓

FORM LINES:

Cuts were taken for elevations from various points along the shoreline. The hill (elevation 278 feet) north of Signal ROD was occupied with the planetable; also the 194 foot hill west of signal KIT. ✓

Cuts were also taken with the Alidade from triangulation stations HOPE, ISLE and NOSE.

Additional cuts were taken with a sextant to locate peaks and



drainage lines from the ship while at anchor SW of triangulation station SOL and southwest of triangulation station PIN. ✓

The planetable was later taken inland from Chernofski Bay to the peak (elevation 1070 feet) in Latitude  $53^{\circ} - 28.8'$  and Longitude  $167^{\circ} - 28.5'$  where additional cuts were taken and the interior form lines sketched. ✓

JUNCTION WITH ADJACENT SURVEYS:

~~T-655~~ The shoreline joined exactly with surveys as shown on sheets UL-36 and T6641. Par. 1, review.

The form lines shown at the junction with sheet T-6641 as transferred from that sheet did not agree at the edge of sheet T-6641. The form lines were changed on this sheet to conform to the terrain.

Some slight changes were made at the junction with sheet ~~T-655~~ UL-36.

COMPARISON WITH EXISTING CHARTS:

Chart 8802 covering this portion of Unalaska Island is on such a small scale that comparison is not possible. ✓

NAMES:

The names UNALASKA ISLAND and PACIFIC OCEAN are from chart 8802. No new names were added by the field party. ✓

STATISTICS:

Statute miles of shoreline.....10.0 ✓  
Square statute miles of topography.....37.2

LIST OF PLANETABLE POSITIONS:

RAT - whitewash on rock cliff - not recoverable  
BIS - whitewash on rock cliff - not recoverable  
ACE - whitewash on offlying pinnacle rock - not recoverable  
DUK - whitewash on rock cliff - not recoverable  
WEB - whitewash on rock cliff - not recoverable  
BOS - whitewash on boulder on beach - not recoverable  
TUN - whitewash on boulder on beach - not recoverable  
CAT - whitewash on rock outcrop - not recoverable  
DOG - whitewash on rocky point - not recoverable  
KIT - whitewash on driftwood - not recoverable  
PUP - whitewash on rocky cliff - not recoverable  
SNO - whitewash on rocky cliff - not recoverable  
ICE - whitewash on rock outcrop - not recoverable ✓  
SIN - whitewash on boulder - not recoverable  
RUG - whitewash on boulder - not recoverable  
ZUP - whitewash on rock outcrop - not recoverable  
GUS - whitewash on face of bluff - not recoverable  
DOC - whitewash on sharp rock point - recoverable  
NOT - whitewash on rock cliff - not recoverable  
HI - whitewash on rock cliff - not recoverable  
RIF - whitewash on rock cliff - not recoverable  
BAL - whitewash on rock cliff - not recoverable  
HO - whitewash on rock cliff - not recoverable  
WAT - waterfall - recoverable ✓



List of Planetable positions (cont)

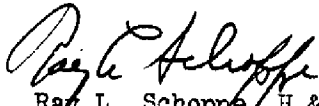
END - whitewash on rock outcrop - not recoverable  
DIM - whitewash on face of bluff - not recoverable  
GUD - whitewash on rock outcrop - not recoverable  
BOB - whitewash on face of bluff - not recoverable  
ROD - whitewash on rocky cliff - not recoverable  
PHIL- whitewash on boulder - not recoverable

Respectfully submitted,



A.C. Thorson  
Jr. H. & G. E.

Examined and approved:



Ray L. Schoppe, H.&G.E.  
Chief of Party  
Commanding Ship SURVEYOR

## Remarks

## Decisions

1		U. S. G. B
2	off limits of sheet, mentioned page 1	530675
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# GEOGRAPHIC NAMES

Survey No.

**70716**

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.	
<u>Unalaska Island</u>									1
<u>Cape Alak</u>									2
									3
Names underlined in red approved									4
by L. Heck on 5/16/40									5
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# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
PHOTOSTAT OF

~~No. 11~~

No. T

**T6716**

received April 18, 1940  
registered April 30, 1940  
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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DIVISION OF CHARTS

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6716 (1938-39) FIELD NO. A-38

Aleutian Islands, Unalaska Island, Northeast of Cape Aiak

Surveyed in 1938 - 1939, Scale 1:20,000

Instructions dated February 3, 1938 (SURVEYOR)

Plane Table Survey

Aluminum Mounted

Chief of Party - R. L. Schoppe.

Surveyed by - J. C. Tison; J. Bowie, Jr., A. C. Thorson.

Inked by - A. C. Thorson.

Reviewed by - J. A. McCormick, May 9, 1940.

Inspected by - H. R. Edmonston.

1. Junctions with Contemporary Surveys.

Junctions with T-6548 (1936) on the north, T-6552 (1936) on the west and T-6641 (1938) on the east are satisfactory. Considerable office adjustment was necessary to obtain satisfactory continuity of form lines at all three junctions. Form lines on the present survey supersede those which they overlap on T-6552. Exact overlaps have been made with T-6548 and T-6641, in the latter case including the sketching of a 1/2 mile gap between the limits of T-6641 form lines and those of the present survey. The sketched form lines are shown in green on T-6641.

2. Comparison with Prior Surveys.

This Bureau has made no previous surveys in this area.

3. Comparison with Chart 8802 (New Print Dec. 21, 1939).

The chart is on such a small scale as to give only a general idea of the topography.

4. Condition of Survey.

Satisfactory.

5. Compliance with Instructions for the Project.

Satisfactory except as noted in par. 1.

6. Additional Field Work Recommended.

None.



7. Superseded Surveys.

None.

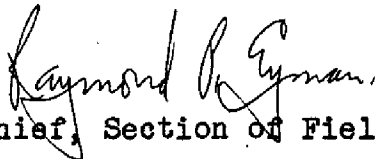
Examined and approved:



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



Chief, Division of Charts.



Chief, Section of Field Work.



Chief, Division of H. & T.