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

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 of CAPE ALIAK

Scale 1:20,000 Date of survey Season, 1938 - 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.N.W. to ground to tops of trees

Contour, Approximate contour, Form line interval 100 feet

Instructions dated February 3, 1938

Remarks: Sheet started 1938 Field Season, completed during 1939 Field Season
DESCRIPTION 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 Alak, from Latitude 53° - 18.37' and Longitude 167° - 21', to Latitude 53° - 20' and Longitude 167° - 21'.

The interior area covered by the survey is bounded as follows: from a point on coast in Latitude 53° - 17.2' and Longitude 167° - 26.5', W.S.W. to a point in Latitude 53° - 17.2' and Longitude 167° - 36.8', thence NW along an irregular line to Latitude 53° - 21' and Longitude 167° - 33'; thence NE on an irregular line to a point in Latitude 53° - 24.5' and Longitude 167° - 23.7'; thence SE to a point in Latitude 53° - 21.5' and Longitude 167° - 19.6'; thence S to a point on the coastline in Latitude 53° - 20.15' and Longitude 167° - 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 sandy 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 NOSE) 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. Thurston 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° - 17' and 53° - 19', and between Longitudes 167° - 30' and 167° - 31', were transferred from Field sheet UL-58. The elevation and form lines (near top) of peak in Latitude 53° - 24' and Longitude 167° - 26' were transferred from 1:40000 scale sheet showing form lines of Unalaska Island. All other elevations were obtained during 1939 Field Season.

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° - 26.8' and Longitude 167° - 29.5' where additional cuts were taken and the interior form lines sketched.

**JUNCTION WITH ADJACENT SURVEYS:**

The shoreline joined exactly with surveys as shown on sheets UL-36 and T6641.

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 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
GAT - 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
GIN - whitewash on boulder - not recoverable
HUG - 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
HIE - whitewash on rock cliff - not recoverable
RIF - whitewash on rock cliff - not recoverable
BAL - whitewash on rock cliff - not recoverable
NO - whitewash on rock cliff - not recoverable
WAT - waterfall - recoverable
List of Paintable positions (cont)

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

Respectfully submitted,

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

Examined and approved:

F. L. Schoppe, H.G.E.
Chief of Party
Commanding Ship SURVEYOR
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Names underlined in red approved by L. Heck on 5/16/40
MEMORANDUM
IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

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.

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RETURN TO

82  T. B. Reed
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.
Inked by - A. C. Thorson.
Reviewed by - J. A. McCormick, May 9, 1940.
Inspected by - H. R. Edmonston.

1. Junctons with Contemporary Surveys.

Junctons with T-6548 (1936) on the north, T-6552 (1938) 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.


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.

Raymond G. Lyman,  
Chief, Section of Field Work.

J. S. Borden,  
Chief, Division of Charts.

E. R. Johnson,  
Chief, Division of H. & T.