CONFIDENTIAL

6597

DESCRIPTIVE REPORT

Topographic

Sheet No. UM-36

Aleutian Islands

State

LOCALITY

Unalaska Island

SOUTHWEST END OF UNALASKA ISLAND

1936

CHIEF OF PARTY

A.M. Sobieralski

DECLASSIFICATION BY NOAA
PURSUANT TO DOC SYSTEMATIC REVIEW
GUIDELINES AS DESCRIBED IN SECTION
3.3 (a), EXECUTIVE ORDER 12356
Applied to drawing & Chart 8802 - June 18, 1938 - J.W.

Chart Comp. 9020 - Oct. 1939 - G. P. Jones

Applied to chart comp. 9020 - May 1940 - L. A. M.
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 Letter W 36

REGISTER NO.

State: ALASKA

General locality: ALUTIAN ISLANDS

Locality: SOUTHWEST END OF UNALASKA ISLAND

Scale: 1:20,000

Date of survey: July - August 1936 & 37

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

Chief of Party: A.M. SOBIERALSKI

Surveyed by: JOHN C. ELLEBRE

Inked by: JOHN C. ELLEBRE

Heights in feet above mean to ground to tops of trees

Contour: Approximate contour

Form line interval: 100 feet

Instructions dated: April 13, 1934

Remarks: This sheet was partially done during season 1936; finished during season 1937

N. C. DEPARTMENT DIVISION OFFICE 1900
DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET UH - 36

PROJECT NO. HT-176

U.S.C.&G.S.S. SURVEYOR

A. M. SOBIERALSKI, Cmdg.

AUTHORITY

Director's instructions dated April 13, 1934.

CONTROL

Triangulation executed by the parties of A. M. Sobieralski in 1935.

EXTENT

This sheet covers the southwestern tip of Unalaska Island, extending to Surveyor Bay on the south side. The survey covers shoreline, rocks, off-lying islands, and form lines from one to two miles inshore.

GENERAL DESCRIPTION

The land to the northeast of the southwest tip of the island is characterized mainly by gently rising, rolling slopes, merging into very steep slopes above the 1000 foot elevation. T. station LONE PEAK, 1935, on the peak of the hill given that name by the survey party, is about 1½ miles inshore and is very prominent.

The southwestern tip of the island (called West End by the survey party) is somewhat of a promontory, since a deep valley, almost cutting it off from the rest of the island, extends from a shallow bay on the north side to a like bay on the south side. This tip, which rises gradually from the shoreline to a height of 420 feet, is a little over a mile in length, and is characterized by grassy, rolling slopes.

Eastward from the first bay on the southwest side, the land is characterized by precipitous bluffs rising from 100 to 250 feet and merging into rolling, grass-covered country. These bluffs are cut in numerous places by deep, wide valleys, especially at the inner ends of the several shallow bays in this stretch.

All of the land area covered by this survey, with the exception of Lone Peak, is grass covered, and is used for grazing lands for sheep and cattle.

Emerald Island (so named by the survey party) is a small, round island about 200 feet high, lying about one mile south of the southwest end. It is grass covered and shows very green during the summer season. This island is very prominent from the southeast and northwest, but merges into the background of higher ridges on Unalaska
Island when viewed from the southwest.

Practically all of the shoreline, over the entire length of this sheet, is characterized by fairly wide reefs extending out from the high water line. Outside of this reef, large patches of kelp extend as far eastward as T. station QUIRE. To the eastward of T. station QUIRE, kelp was found in isolated spots, though later observations by the hydrographic party would indicate that there was a general thick growth under water, which did not appear on the surface until very late in the season. All reefs in this area are bare from 1 to 4 feet at MLLW.

PROMINENT FEATURES

The most prominent feature in this vicinity is Lone Peak (so named by the survey party), a bare, rocky, hogs-back ridge, rising 1847 feet, and running in a northeast-southwest direction.

From the northwest and southeast, Emerald Island is fairly prominent, but blends into the background of higher hills on Unalaska Island when seen from the southwest.

CHARACTER OF CONTROL

Adequate control for this survey was furnished by triangulation executed in 1936.

CLOSING ERRORS OF TRAVERSES RUN

A traverse was begun at T. station SHORE, on the northern side of the sheet and carries along the beach as far as two set-ups east of T. station QUIRE, where it was broken because of lack of time during the season of 1936. The traverse was picked up again in 1937 at T. station QUIRE, checking the detail already obtained east of that station, and continued eastward to T. station TIME, on the eastern end of the sheet. All the triangulation stations en route were used as checks in passing, with error so small as to be negligible. The traverse closed flat on T. station TIME.

The table was set up on T. station SUD and the entire east side of Emerald Island rodded in from that position. Likewise, the entire western side of the island was rodded in from a set-up on T. station DIM. All possible cuts to objects on Unalaska Island were taken from these two set-ups and used as aids to check the long traverse run along the shoreline of that island.

All possible cuts to outstanding geographic features on Unalaska Is. were taken and elevations for form lines computed therefrom. Form lines were sketched between the elevations obtained.

COMPARISON WITH PREVIOUS SURVEYS

On chart 8802, a group of rocks are shown off the west end of the Island, three of which run in approximately an east-west direction, while a fourth lies about two miles to the southward. Polivnoi Rock, shown as a rock awash, is the western one of the group, and appears on Topographic Sheet Field No. UX-36. All other rocks in this vicinity are shown in their proper positions on this sheet.
JUNCTIONS WITH OTHER SURVEYS

On the north, this sheet joins satisfactorily with work done on sheet UF-36, season 1936.

T-64977

On the southeast, this sheet joins satisfactorily with work done on sheet UL-36, season 1936.

T-65572

ANCHORAGES

There are no anchorages on this sheet suitable for large craft.

Small craft may find fair shelter from southeasterly weather in the small bay one mile east of, and on the northern side of, the western tip of the island. Of, if on the south side of the island, in this vicinity, and it is not desired to go through the tide rips in Umnak Pass, temporary shelter from southeast weather may be found just outside the kelp about 300 yards northeast of T. station DIM.

Fair shelter from northerly weather may be found in the bight 1 1/2 miles southeast of the southwest tip of Unalaska Island.

NEW GEOGRAPHIC NAMES

Emerald Island - A small island about 1 mile south of the southwest end of Unalaska Island. During the summer months, this island, which is about 200 feet high, and entirely grass-covered, is a brilliant green in color, hence the name assigned by the survey party. It is recommended that this name be adopted officially, since the island is unnamed at the present time.

West End - The westernmost tip, a sort of a promontory, of Unalaska Island, 423 feet high. It is plainly visible from the south, but is cut off by S.W. End from the East, and blends into the higher background from the west. The name West End is recommended for this feature.

Southwest End - This name appears on Chart 8802 and obviously refers to the point at T. station PATH, 1936. This point is distinguished by a low but definite hill (597 feet) and a group of rocks extending about 1/2 mile offshore. The point and rocks are plainly visible from the southeast, cutting off West End, but from other directions are vague due to higher land inshore.

MAGNETICS

Magnetic observations with the compass declinometer were obtained during the 1936 season at triangulation station WEND. Results are included in a separate report on magnetics.

Observations with the declinometer were obtained as specified in Special Publication #144.

DATUM

This survey was done on Unalaska, 1937 datum.
STATISTICS

Statute miles of shoreline .......... 27.4
Area in square statute miles ...... 14.5
Number of elevations obtained .... 104

Respectfully submitted:

John C. Ellerbe
Jr. H.&G.E.

Forwarded and approved:

A. M. Sobieralski
H.&G.E., Chief of Party
Cmd'g. SURVEYOR
<table>
<thead>
<tr>
<th>Remarks</th>
<th>Decisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>See T-4937</td>
</tr>
<tr>
<td>2</td>
<td>USGS decision submitted to USGS</td>
</tr>
<tr>
<td>3</td>
<td>Assigned by Field Party</td>
</tr>
<tr>
<td>4</td>
<td>Submitted to USGS</td>
</tr>
<tr>
<td>5</td>
<td>On previous editions of PBO2</td>
</tr>
<tr>
<td>6</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td></td>
</tr>
</tbody>
</table>

(continued on next page)
<table>
<thead>
<tr>
<th>Name on Survey</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unnak Pass</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Unalaska Island</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>West End</td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Emerald Island</td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Southwest End</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
</tbody>
</table>

Names underlined in red approved by **EFE** on 5/6/58
MEMORANDUM
IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT

No. T-6597

received April 19, 1938
registered May 24, 1938
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.

<table>
<thead>
<tr>
<th>ROUTE</th>
<th>Initial</th>
<th>Attention called to</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>62</td>
<td></td>
<td></td>
</tr>
<tr>
<td>63</td>
<td></td>
<td></td>
</tr>
<tr>
<td>82</td>
<td></td>
<td></td>
</tr>
<tr>
<td>83</td>
<td></td>
<td></td>
</tr>
<tr>
<td>88</td>
<td></td>
<td></td>
</tr>
<tr>
<td>90</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

RETURN TO

82 T. B. Reed

\[10362\]
Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6597 (1936-37) FIELD NO. UH-36

Southwest End of Unalaska Island, Unalaska Island, Aleutian Islands
Surveyed in July-August, 1936-37, Scale 1:20,000
Instructions dated April 13, 1934 (SURVEYOR)

Plane Table Survey.

Chief of Party - A. M. Sobiersalski.
Surveyed and inked by - J. C. Ellerbe.

Aluminum Mounted.

1. Condition of Survey.
   a. The sheet is neat and legible and conforms to the requirements of the Topographic Manual.
   b. The Descriptive Report is complete and satisfactorily covers all items of importance.

2. Compliance with Instructions for the Project.
   The survey satisfies the instructions for the project.

3. Junctions with Contemporary Surveys.
   The junctions with T-4937 (1936) on the north and T-6552 (1936) on the southeast are satisfactory.

   This is the first survey of this area by this Bureau.

   Chart 8502 (New print dated Feb. 2, 1938).
   a. Topography.
      Charted information in this area is very sketchy and probably originates with old Russian surveys. It should be entirely superseded by the present survey.
   b. Aids to Navigation.
      There are no navigational aids in this area.

6. Field Drafting.
   The field drafting is satisfactory.

7. Additional Field Work Required.
   No additional field work is required.
8. Superseded Old Surveys.

There are no previous surveys of the area by this Bureau.


Inspected by E. P. Ellis.

Examined and approved:

\[\text{Signature}\]
Thos. B. Reed
Chief, Section of Field Records

\[\text{Signature}\]
K. T. Adams
Chief, Division of Charts.

\[\text{Signature}\]
Fred L. Peacock
Chief, Section of Field Work

\[\text{Signature}\]
\[\text{Name}\]
Chief, Division of Hydrography and Topography.