# DESCRPTIVE REPORT

**Type of Survey**
- Topographic

**Field No.**
- EX-A-47
- EX-B-47

**Office No.**
- T-7068-a&b

## LOCALITY

**State**  
Alaska - Aleutian Islands

**General locality**  
Shemya Island

**Locality**  
Alcan Harbor & Skoot Cove

## CHIEF OF PARTY

F.B.T. Siems

## DATE

April 30, 1948
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. EX-A-47

REGISTER NO. T-7068-a

State Alaska - Aleutian Islands
General locality South side Shemya Island
Locality South side Shemya Island

Scale 1:5,000 Date of survey August 1947

Vessel EXPLORER

Chief of party F.E.T. Siems

Surveyed by I.R. Rubottom

Inked by I.R. Rubottom and J.M. Neale

Heights in feet above to ground to tops of trees
Contour, Approximate contour, Form line interval feet

Instructions dated 3 Feb. 1938; revised 16 April 1943

Remarks: 

670
DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET

Field No. EX-A-47

Aleutian Islands - Shemya Island

South Side (Scoot Cove)

1947

Ship EXPLORER, F.B.T. Siems, Comdg.

Surveyed by: I.R. Rubottom

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INSTRUCTIONS:

Original instructions for Project CS-218 dated 3 February 1938, and revised 16 April 1943.

LIMITS OF SURVEY:

This sheet covers the area in the immediate vicinity of what has formerly been known as Scoot Island, on the south side of Shemya Island. Military forces have made extensive cuts and fills in this area and constructed two small piers in the cove. A stretch of shoreline approximately one-half mile in length in the vicinity of the cove was covered.

CONTROL:

Existing second-order unadjusted triangulation in the immediate area was used for control. All topography on the sheet was controlled by triangulation stations SAN2 (USED) 1943, GAS (USED) 1943, and TOP 1944.

DATUM:

Gannet USN 1934.

SURVEY METHODS:

Standard topographic methods were used throughout. All signals were located by graphic triangulation supplemented by rod readings in some instances. Shoreline was located in general by rod readings and cuts. The reef-line was delineated by cuts and rod readings at a stage of the tide near the M.L.L.W. level and from information obtained on hydrographic sheet. No traverses were run.
COMPARISON WITH PREVIOUS SURVEYS:

The offshore sections of the shoreline show reasonably close agreement with previous surveys. Due to various cuts and fills considerable changes have been made in the inner shoreline.

COMPARISON WITH HYDROGRAPHIC SURVEY:

No discrepancies exist between this survey and the hydrographic survey.

ADEQUACY OF SURVEY:

The survey is considered adequate and complete for the area covered.

LANDMARKS FOR CHARTS:

There are no objects or topographic features of sufficient prominence or permanence suitable for landmarks for charts.

GEOGRAPHIC NAMES:

Squot Cove. The name Squot Island appears on chart CS-9125. Since this feature is no longer an island, it is recommended that the name Squot Island be deleted and the cove between the piers be officially called Squot Cove.

STATISTICS:

Miles of shoreline: 1.5 statute miles.

Respectfully submitted

[Signature]
Ira R. Rubottom
Lt. Comdr. USC&GS

Approved and forwarded:

[Signature]
F.B.T. Siems, Captain USC&GS
Commanding Ship EXPLORER
# LIST OF RECOVERABLE STATIONS

*(semi-permanent objects)*

<table>
<thead>
<tr>
<th>Object</th>
<th>Lat.</th>
<th>D.M.</th>
<th>Long.</th>
<th>D.M.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABE</td>
<td>52 43</td>
<td>796</td>
<td>174 03</td>
<td>937'</td>
<td>S.E. red and white runway light pole</td>
</tr>
<tr>
<td>RAT</td>
<td>52 43</td>
<td>695</td>
<td>174 04</td>
<td>31</td>
<td>Black radio pole</td>
</tr>
<tr>
<td>PIX</td>
<td>52 43</td>
<td>569</td>
<td>174 04</td>
<td>202</td>
<td>Black radio pole near GAS</td>
</tr>
<tr>
<td>CON</td>
<td>52 43</td>
<td>488</td>
<td>174 04</td>
<td>365</td>
<td>S.E. corner W'ly pier</td>
</tr>
<tr>
<td>END</td>
<td>52 43</td>
<td>500</td>
<td>174 04</td>
<td>509</td>
<td>Mooring-line pile on S.W. corner E'ly pier</td>
</tr>
<tr>
<td>WAX</td>
<td>52 43</td>
<td>472</td>
<td>174 04</td>
<td>703</td>
<td>W.W. on offshore face of highest rock on point</td>
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<tr>
<td>SET</td>
<td>52 43</td>
<td>385</td>
<td>174 04</td>
<td>977</td>
<td>W.W. on offshore face of highest rock on point</td>
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<td>Name on Survey</td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
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<td>Skook Cove</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Shemya Island</td>
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<td></td>
</tr>
<tr>
<td>Alaska</td>
<td></td>
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<tr>
<td>Aleutian Islands</td>
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</table>

Names underlined in red are approved 2/1/49 LH.
# 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-B-47**

REGISTER NO. **T-7068-b**

<table>
<thead>
<tr>
<th>State</th>
<th>Alaska - Aleutian Islands</th>
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<tbody>
<tr>
<td>General locality</td>
<td>Aleutian Islands</td>
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<tr>
<td>Locality</td>
<td>Aislan Cove, Shemya Island</td>
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<tr>
<td>Scale</td>
<td>1:2,400</td>
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<tr>
<td>Date of survey</td>
<td>August 1947</td>
</tr>
<tr>
<td>Vessel</td>
<td>EXPLORER</td>
</tr>
<tr>
<td>Chief of party</td>
<td>F.B.T. Siems</td>
</tr>
<tr>
<td>Surveyed by</td>
<td>G.C. Mast</td>
</tr>
<tr>
<td>Inked by</td>
<td>G.C. Mast and J.M. Neale</td>
</tr>
<tr>
<td>Heights in feet above MLLW to ground</td>
<td>**** to tops of trees</td>
</tr>
<tr>
<td>Contour, Approximate contour, Form line interval</td>
<td>**** feet</td>
</tr>
<tr>
<td>Instructions dated</td>
<td>3 Feb. 1938 - 16 April 1943</td>
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</table>

**Remarks:**

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DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET

Field No. EX-B-47

Aleutian Islands - Shemya Island

Alcan Cove Harbor

Ship EXPLORER, F.E.T. Siems, Comdg.

Surveyed by: G.C. Mast

AUTHORITY:

Original instructions for Project CS-218 and letter from Commanding Officer, U.S. Troops, Shemya, dated 29 May 1947.

PURPOSE:

To locate signal rods for the control of the hydrography and to show the changes in the shore line and docks since the previous survey.

DATUM:

Gannet USN 1934.

CONTROL:

1944 &

Triangulation of 1947.

LANDMARKS:

No new landmarks are submitted.

CLOSING ERRORS, TRAVERSES:

No traverses were run.

SURVEYING METHODS:

Signals were located by cuts taken from triangulation stations and checked by rod readings where possible. Signals XID and BAG were located by rod readings and checked by cuts from two set-ups on the remains of the old breakwater and from ALCAN. Shore line and docks were rodded in from set-ups located by cuts and resections. The outer edge of the kelp was located ap-
proximately by cuts from triangulation stations ALCAN and COVE.

CHANGES:

Only the portion of the shore line that had changed was relocated. This was due to the east breakwater washing out, and the end of the west breakwater washing off. The west breakwater is being used as a dump and considerable change has occurred between the middle pier and the breakwater. The middle pier was rebuilt in 1947 and located after completion.

DISCREPANCIES:

Discrepancies exist as noted above and in the following paragraph.

The USE mark A-7 has apparently been moved since 1945, or the same mark was not recovered in 1947. There is tabulated below a comparison of distances between stations as determined by the 1947 triangulation and as computed from the USE rectangular coordinates of the stations.

<table>
<thead>
<tr>
<th>Stations</th>
<th>Length (Meters) Computed from</th>
<th>Diff. (Meters)</th>
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</thead>
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<tr>
<td></td>
<td>Coordinates 1947 Triangulation</td>
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<tr>
<td>COVE - GAS</td>
<td>2737.19</td>
<td>0.09</td>
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<tr>
<td>COVE - SAN</td>
<td>2376.02</td>
<td>0.03</td>
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<td>COVE - A-7</td>
<td>716.06</td>
<td>29.15</td>
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<tr>
<td>A-7 - H-5</td>
<td>203.15</td>
<td>23.47</td>
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GEOGRAPHIC NAMES:

No new names are submitted.

AIR PHOTOGRAPHS:

The Army was contacted regarding air photographs, but no new pictures were available. No air-photo inspection was made.

STATISTICS:

Statute miles of graphic control ........ 2.7
Statute miles of shore line ............. 3.2

Respectfully submitted

G. C. Mast
Lt. Comdr. USC&GS

Approved and forwarded:

F.B.T. Siems
Captain USC&GS
Commanding USC&GSS EXPLORER
DIVISION OF CHARTS
REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF TOPOGRAPHIC SURVEY REGISTRY NO. T-7068a
FIELD NO. EX-A-47

Alaska-Aleutian Islands, Shemya I., Skoot Cove
Surveyed in August 1947 Scale 1:5,000
Instructions dated Feb. 3, 1938, revised April 16, 1943

Plane Table Survey Aluminum Mounted

Chief of Party - F.B.T. Siems
Surveyed by - I. R. Rubottom
Inked by - I. R. Rubottom and J. M. Neale
Reviewed by - I. M. Zeskind, February 1, 1949
Inspected by - R. H. Carstens

1. Adjoining Surveys
The present survey makes adequate junctions on the east
and west with the shoreline of survey T-6932 (1944).

2. Comparison with Prior Surveys
T-6932 (1944) 1:10,000
The present survey lies entirely within the area covered
by T-6932. Extensive construction by the Military Forces
has been done in the vicinity of Skoot Cove. Two piers
have been constructed, and filling along the shore east
of Skoot Cove has advanced the shoreline by 40 to 90
meters. The area formerly known as Skook Island and the
former small island off the eastern shore of Skoot Cove
are now part of the mainland.

The prior limits of the reef lines and foul areas are in
adequate agreement with those shown on the present survey.
With the addition of supplementary rocks awash, the present survey is adequate to supersede this prior survey within the common area.

3. **Comparison with Chart 9125 (Latest print date 2/3/47)**

   The shoreline shown on the chart originates with T-6932 (1944) and needs no further consideration.

4. **Condition of Survey**

   The survey was neatly inked and conforms to the requirements of the Topographic Manual.

   The Descriptive Report covers all matters of importance.

5. **Compliance with the Project Instructions**

   The present survey adequately complies with the Instructions.

6. **Additional Field Work Recommended**

   This survey adequately serves the purpose intended and no additional work is required.

   (See review of T-7068b for signatures)
DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF TOPOGRAPHIC SURVEY

REGISTRY NO. T-7068b

FIELD NO. EX-B-47

Alaska-Aleutian Islands, Shemya I., Alcan Harbor
Surveyed in August 1944

Plane Table Survey

Aluminum Mounted

Chief of Party - F.B.T. Siems
Surveyed by - G. C. Mast
Inked by - G. C. Mast and J. M. Neale
Reviewed by - I. M. Zeskind, February 1, 1949
Inspected by - R. H. Carstens

1. Adjoining Surveys

The present survey shows only those portions of the shoreline and piers which have changed since September, 1945. Adequate junctions were made with T-7008b (1945), except in the vicinity of lat. 32° 44' 30", long. 174° 05' 13" where the present shoreline falls approximately 20 meters southeast of its location on T-7008b. This difference is probably caused by the erosion of the shoreline in this general area.

2. Comparison with Prior Surveys

T-6971b (1944) 1:5,000
T-7008b (1945) 1:2,400

Inasmuch as T-6971b has been superseded by T-7008b, it need not be considered in this review.

The present survey lies entirely within the area covered by T-7008b. Considerable erosion of both the west breakwater and the remains of the east breakwater has taken place. The end and eastern side of the west breakwater has eroded as much as 45 meters. The remains of the east
breakwater shown on T-7008b in the vicinity of lat. 52° 44' 21"., long. 174° 05' 02". has eroded as much as 75 meters. The pier which formerly was located on the east side of the west breakwater has been removed. The middle pier has been rebuilt and extended approximately 185 meters. The shoreline and piers on the present survey supersede the shoreline and piers within the common area on T-7008b.

The present survey position of station A-7 (U.S.E.) 1947 differs by 50 meters from what is assumed to be the same station on T-7008b. This station has apparently been moved since the original location in 1944 or the same mark was not recovered in 1947. The 1947 position should be used for control on future surveys of this area.

3. Comparison with Chart 9125 (Latest print date 2/3/47)

The charted shoreline originates principally from advance information of T-7008b shown on Bp. 40249 (1945) (See paragraph 2 above).

4. Condition of Survey

a. The survey was neatly inked and conforms to the requirements of the Topographic Manual.

b. The Descriptive Report covers all matters of importance.

5. Compliance with Project Instructions

The present survey adequately complies with the Instructions.

6. Additional Field Work Recommended

This survey adequately serves the purpose intended and no additional work is required.

Exchanged and approved:

Casper M. Durgin
Chief, Division of Charts

C. K. Green
Chief, Division of Coastal Surveys

H. A. Edmonston
Chief, Nautical Chart Branch

K. G. Crosby
Chief, Section of Hydrography
<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>
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<tr>
<td>Shemya Island</td>
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Names underlined in red are approved 2/14/49.
<table>
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<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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<td>5/19/49</td>
<td>Special Acanthn.</td>
<td>Goodrich</td>
<td>Before After Verification and Review Pina only</td>
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<tr>
<td>8/26/49</td>
<td>9/15</td>
<td>D.A. Meiklem</td>
<td>Before (X) Verification and Review</td>
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<td>5/20/63</td>
<td>8865</td>
<td>D. S. Barnes</td>
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</tbody>
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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.