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Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic
EX-A-47
Field No. EX-B-47 Office No. T-7068-a&b

LOCALITY

State Alaska - Aleutian Islands
General locality Shemya Island
Locality Alcan Harbor & Skoot Cove

194 7

CHIEF OF PARTY

F.B.T.Siems

LIBRARY & ARCHIVES

DATE April 30, 1948

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

77068a

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 Shemya Island
Near Islands

Locality Skoot Cove
South side Shemya Island

Scale 1 : 5,000 Date of survey August, 1947

Vessel EXPLORER

Chief of party F.B.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: _____

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET

Field No. EX-A-47

Aleutian Islands - Shemya Island

South Side (Skoot Cove)

1947

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

Surveyed by: I.R. Rubottom

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 shore line 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 shows 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: 514 ✓

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

STATISTICS:

Miles of shoreline: 1.5 statute miles.

Respectfully submitted

Ira R. Rubottom

Ira R. Rubottom
Lt. Comdr. USC&GS

Approved and forwarded:

F.B.T. Siems

F.B.T. Siems, Captain USC&GS
Commanding Ship EXPLORER

LIST OF RECOVERABLE STATIONS

(semi-permanent objects)

Object	Lat. o ' "	D.M. Meters	Long. o ' "	D.M. Meters	Remarks
ABE	52 43	796	174 03	937	S.E. red and white runway light pole
RAT	52 43	695	174 04	31	Black radio pole
PIX	52 43	569	174 04	202	Black radio pole near GAS
CON	52 43	488	174 04	365	S.E. corner W'ly pier
END	52 43	500	174 04	509	Mooring-line pile on S.W. corner E'ly pier
WAX	52 43	472	174 04	703	W.W. on offshore face of highest rock on point
SET	52 43	385	174 04	977	W.W. on offshore face of highest rock on point

GEOGRAPHIC NAMES

Survey No. **T7068a**

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K
<u>Skoot Cove</u>									1
<u>Shemya Island</u>								USGB	2
									3
									4
<u>Alaska</u>			(for title)						5
<u>Alutian Islands</u>			(" ")						6
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Names underlined in
red are approved
2/1/49 L.H.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

T7068b

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

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

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET

Field No. EX-B-47

Aleutian Islands - Shemya Island

Alcan ~~Cove~~ Harbor

Ship EXPLORER, F.B.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 signals 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:

Triangulation of ^{1944 &} 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 KID 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.

Stations	Length (Meters) Coordinates	Computed from 1947 Triangulation	Diff. (Meters)
COVE - GAS	2737.19	2737.10	0.09
COVE - SAN ₂	2376.02	2376.05	0.03
COVE - A-7	716.06	686.91	29.15
A-7 - H-5	203.15	226.62	23.47

*New determination
of position shown.
Station called
A-7(USE) 1947*

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

Approved and forwarded:

F. B. T. Siems
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 Skoot 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 Scale 1:2,400
Instructions dated Feb. 3, 1938 and letter from C.O., U. S.
Troops, Shemya, dated 5/29/47

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

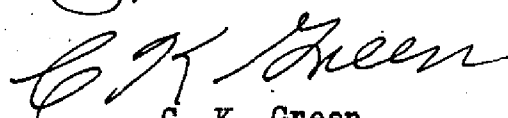
This survey adequately serves the purpose intended and no additional work is required.

Examined and approved:


H. R. Edmonston
Chief, Nautical Chart Branch


K. G. Crosby
Chief, Section of Hydrography


Casper M. Durgin
Chief, Division of Charts


C. K. Green
Chief, Division of Coastal Surveys

GEOGRAPHIC NAMES

Survey No. **T7068b**

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	
Alcan Harbor									1
Shemya Island								USRB	2
									3
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2/1/49 L.H.

NAUTICAL CHARTS BRANCH

SURVEY NO. T-7068

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.