

9152
9153

Diag. Cht. No. 8865

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. Ph-34(48) T-9152
Office No. T-9153 Conf.

LOCALITY

State ALASKA

ALEUTIAN ISLANDS

General locality NEAR ISLANDS GROUP (SEMICHI IS.)

9152- ALAID & NIZKI ISLANDS

Locality 9153- SHEMYA ISLAND

194 4-1948

CHIEF OF PARTY

C. D. Meaney, Chief of Field Party.

Division of Photogrammetry, Washington, D. C.

LIBRARY & ARCHIVES

DATE APRIL 24, 1950

8-1870-1 (1)

9153

9152

DATA RECORD

T-9152 and T-9153

Project No. (II): Ph-34(48) Quadrangle Name (IV): T-9152 - Alaid-Nizki
T-9153 - Shemya

Field Office (II): Ships Explorer & Surveyor Chief of Party: C. D. Meaney and
R. D. Horne

Photogrammetric Office (III): Washington, D. C. Officer-in-Charge: Louis J. Reed, Chief,
Stereoscopic Mapping Section

Instructions dated (II) (III): 8 April 1948 Copy filed in Division of
Photogrammetry (IV)
Office Files

Method of Compilation (III): Stereoplanigraph

Manuscript Scale (III): 1:20,000 Stereoscopic Plotting Instrument Scale (III): 1:20,000

Scale Factor (III): Photograph : Instrument : Plot : 27,500:20,000:20,000

Date received in Washington Office (IV): 3-30-49 Date reported to Nautical Chart Branch (IV): 4-1-49

Applied to Chart No. 9125 Date: 8/24/49 Date registered (IV): 4-6-50

Publication Scale (IV): 1:25,000

Publication date (IV):

Geographic Datum (III): NA-1927

Vertical Datum (III):

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): T-9152 - LEMON, 1944 G-7052, Vol. 5, Pg. 294
T-9153 - SHEMA, 1943 G-7003, Vol. 5, Pg. 284

Lat.: Long.: Adjusted
~~Unadjusted~~

Plane Coordinates (IV): Universal Transverse State:
Mercator

Zone: Military Grid
No. 60 + No. 59

Y=

X=

Mil. Grid: Plotted by K.N. Maki 1/18/50
checked by L.M. Gazile 1/20/50

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,
or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

Areas contoured by various personnel
 (Show name within area)
 (II) (III)

100% by Michael G. Misulia

DATA RECORD

Field Inspection by (II):

Date: 1944 to 1947

Planetable contouring by (II):

None

Date:

Completion Surveys by (II):

None

Date:

Mean High Water Location (III) (State date and method of location):

Delineated from compilation photography.

Projection and Grids ruled by (IV):

Ruling Machine

Date: 9 Nov 48

Projection and Grids checked by (IV):

William E. Ward

Date: 9 Nov 48

Control plotted by (III):

Clarence E. Misfeldt

Date: 22 Nov 48

Control checked by (III):

Bernard J. Colner

Date: 23 Nov 48

~~Radial Plot~~ or Stereoscopic
Control extension by (III):

Michael G. Misulia

Date: 21 Dec 48

Stereoplanigraph
~~Stereoscopic Instrument~~ compilation (III):

Planimetry
Michael G. Misulia
Contours

Date: 21 Dec 48
Date:

Manuscript delineated by (III):

Date:

Original Manuscript Inked: Robert L. Sugden

11 Mar 49

Photogrammetric Office Review by (III):

Date:

Elevations on Manuscript
checked by (II) (III):

Louis J. Reed

Date: 31 Mar 49

Camera (kind or source) (III): USC & GS "B" Camera, Cartographic, 6", metrogon
("O")

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
9152 T-9118 48-0-742 thru 48-0-747	23 Oct 48	1335	27,500	
9153 T-9119 48-0-738 thru 48-0-742	23 Oct 48	1335	27,500	3.0' above MLLW or 0.3' below MHHW

Tide (III)

Reference Station: Massacre Bay, Attu Island (obs.)

Subordinate Station:

Subordinate Station:

Ratio of Range	Mean Range	Spring Range	Diurnal Range
			3.3'

Washington Office Review by (IV): K.N. Maki

Date: 7-26-49

Final Drafting by (IV): S. Dean (9153) Battely
M. Day (9152)

Date: 11-14-49
9-21-49

Drafting verified for reproduction by (IV): C. F. Hupiec

Date: 3-16-50

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): ~~9153~~ T-9119 = 5.5 sq mi; ~~9152~~ T-9118 = 5.5 sq mi
Shoreline (More than 200 meters to opposite shore) (III): T-9119 = 18 mi; T-9118 = 21 mi
Shoreline (Less than 200 meters to opposite shore) (III): none
Control Leveling - Miles (II): none
Number of Triangulation Stations searched for (II): 32 Recovered: 21 Identified: 21
Number of BMs searched for (II): none Recovered: Identified:
Number of Recoverable Photo Stations established (III): none
Number of Temporary Photo Hydro Stations established (III): none

Remarks:

Summary to Accompany T-9152 & T-9153

Alaid, Nizki and Shemya Islands

Field inspection was limited to location of triangulation and hydrographic signals. Single-lens 1943-45 Army photographs were used by the field parties operating from the USC&GS ships Hydrographer, Explorer and Surveyor.

A radial plot was not required. Compilation was performed in the Washington Office on the Stereoplanigraph using a contour interval of 50 feet and a supplemental interval of 25 feet. The manuscripts were compiled on acetate ruled with a polyconic projection at 1:20,000 scale on the North American 1927 Datum. A Military Grid was also ruled on each of the manuscripts. Photography for the instrument was taken with the U. S. Coast and Geodetic Survey Cartographic 6" ("0") camera. Instrument delineation was supplemented, in part, by 1944, 1945, and 1947 Graphic Control and Hydrographic Surveys.

Depth Curves and critical soundings were applied to the manuscripts by the Division of Charts.

Cloth-backed lithographic copies of the manuscripts at compilation scale will be registered with the Descriptive Report. After publication, cloth-backed color prints at 1:25,000 scale will be placed with the registered copy.

K. N. Maki

K. N. Maki

March 1950

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~~2.~~

FIELD INSPECTION REPORT

1 thru 25:

Photogrammetric control identification was made prior to this compilation by parties from USC & GS Ships Surveyor, Hydrographer, and Explorer, chiefly the Surveyor, as part of the hydrographic work in the area. The field report on this work is included in the Descriptive Reports for the hydrographic and topographic surveys listed below:

(a) Hydrographic Surveys:

- | | | | |
|-------------|---|------------------------|----------|
| 1. H-6938* | Hydrographer & Explorer | 1943 season | 1:10,000 |
| | Inshore, west end Shemya Island | | |
| (2. H-6937 | Surveyor | Nov 1943 & 1944 season | 1:20,000 |
| | Inshore, Alaid and Nizki Islands | | |
| 3. H-6999 | Surveyor | 1944 season | 1:10,000 |
| | Inshore, Shemya Island except west coast | | |
| 4. H-7000 | Surveyor | 1944 season | 1:20,000 |
| | Offshore, Shemya Island | | |
| (5. H-6988 | Surveyor | 1944 season | 1: 5,000 |
| | Inshore & offshore, Shemya Pass-Shemya to Nizki | | |

* superseded
& 3 sheets not listed
RFF

(b) Topographic Surveys:

- | | | | |
|------------|--|---------------------|----------|
| 1. T-6971b | Explorer | May and June 1944, | 1: 5,000 |
| | Alcan Cove, Shemya Island(now mostly obsolete) | | |
| 2. T-6932 | Surveyor | June and Sept 1944 | 1:10,000 |
| | Shemya coast between T-6971b and T-6931a | | |
| 3. T-6931a | Surveyor | June thru Sept 1944 | 1:10,000 |
| | East end Shemya Island adjoining T-6932 | | |
| 4. T-6931b | Surveyor | September 1944 | 1: 5,000 |
| | Shemya Pass between Shemya and Nizki Islands | | |
| 5. T-6964 | Surveyor | 1944 | 1:20,000 |
| | Alaid and Nizki Islands | | |
| 6. T-7008b | Explorer | 1945 | 1: 2,400 |
| | Alcan Harbor, Graphic Control only | | |
| 7. T-7068a | Explorer | August 1947 | 1: 5,000 |
| | Skoot Cove, Shemya Island | | |
| 8. T-7068b | Explorer, | August 1947 | 1: 2,400 |
| | Alcan Harbor, Shemya Island | | |

COMPILATION REPORT26. Control:

Triangulation station and planetable positions are to be found in preceding list of control* All listed stations appear in, Geographic Positions, USC & GS, Alaska, Vol. V.

Not all of these 89 stations could be held during instrument compilation although every one was plotted on the work sheet prior to compilation and an attempt made to identify and hold each station. Of the 30 stations not held, some were not photo-identified, others were not recognized because they were meant to be hydrographic control only, and a few appeared destroyed by wartime construction. Those stations not held are so indicated on the separate control list mentioned above.

The density of the usable control stations was more than adequate; photographic coverage was also adequate.

The water surface furnished the primary source of vertical control and was available in every stereoscopic model. In addition, five elevations were furnished on horizontal control stations, the elevations being shown in the preceding control list, and all five were checked on the plotting instrument vernier as being well within tolerance. Actually, the field elevations for stations ALAID, LEMON and K1 were about 10 feet lower than the instrument elevations for the respective points. This led to a search thru the field record computations where it was found that although the elevations were considered to be check-elevations, there was some doubt as to their correctness. However, since the elevations from field observations are published in the Geographic Position list, and since the instrument elevations check them within the half-contour specifications, the GP elevations are shown on the manuscripts.

28 Detailing:

Planimetry and topography, including shoreline and offshore features, were delineated on the stereoplanigraph which does not require a radial plot. No field inspection was available. However, large scale 1944 photography (1:8,000 and 1:10,000) was available and was used with a stereoscope as an aid in delineation and in detailing areas obscured by shadows.

The resulting shoreline is considered to be well within the accuracy requirements of map standards, and is to supersede any previous compilation. This is also true of planimetry details.

Offshore features are covered in paragraph 32, this report.

See note on page opposite.

29 Supplemental Data:

- (a). 1944 single lens photography with field identification of control.
- (b). Eight Graphic Control Surveys; see preceding Field Inspection Report.
- (c). Five Hydrographic Surveys; see listing in Field Inspection report.

* List removed from Descriptive Report- Refer to manuscript for stations.
K.H.M.

Note The planetable surveys show sections
of shoreline and ^{sowed} ~~meadow~~ in lieu of
field identification notes on photographs.
Pg 7.

2.8.

COMPILATION REPORT

26. Control:

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Planimetry and topography, including shoreline and offshore features, were delineated on the stereoplanigraph which does not require a radial plot. No field inspection was available. However, large scale 1944 photography (1:8,000 and 1:10,000) was available and was used with a stereoscope as an aid in delineation and in detailing areas obscured by shadows.

The resulting shoreline is considered to be well within the accuracy requirements of map standards, and is to supersede any previous compilation. This is also true of planimetry details.

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See note on page 39 of report.
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- (a). 1944 single lens photography with field identification of control.
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- (c). Five Hydrographic Surveys; see listing in Field Inspection report.

* List removed from Descriptive Report. Refer to manuscript for stations.
K.H.W.

30. Mean High-Water Line:

The MHWL was delineated from compilation photography in the stereoplanigraph, aided by stereoscopic studies of large scale 1944 photographs of the islands. MHWL was not furnished by field inspection.

31. Low-Water and Shoal Lines:

The original compilation included a foul line more or less parallel to the shoreline and around off-lying groups of rocks. It was delineated on the plotting instrument guided by the surf in the compilation photographs, and therefore is not a shoal line in the true sense, but does indicate in general an area inside which shallow water can be expected. No low-water line was delineated.

During the process of comparing with the hydrographic surveys of the area, much of this foul line was replaced by ledge symbol, and low-water line transferred to the manuscript.

32. Off-shore Details:

The instrument delineation and compilation of off-shore details ~~were~~ compared against all hydrographic surveys made in the area, and considerable conflicting information was discovered. This can be attributed to the fact that the field surveys were made during the course of World War II when time was of the essence rather than attention to details, and since which time much military construction has altered some shoreline and off-shore features.

Off-shore details of the original compilation were made to agree with the field surveys where it was considered that their solution was more nearly correct. The decisions called for considerable exercise of judgment on the part of the compiler, judgment based on a wide experience in both the field and compilation offices, in conjunction with a thorough study of all available data.

35. Hydrographic Data:

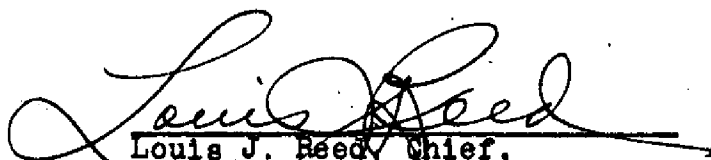
Hydrography will be added to the limits of the two manuscripts covered by this report by the Nautical Charts Branch, Division of Charts.

39. Classification:

Manuscript T-⁹¹⁵³~~9119~~ is classified "RESTRICTED" ^{because} ~~in as much~~ as it ~~is~~ produced from similarly classified photography. The authority is via Dept of the Army letter of 20 April 1948 to the USC & GS regarding classification of Alaska photography.

40: Quality of Contours:

All contours on this map conform to the national standards of accuracy for a contour interval of 50 feet, except in the areas where a supplemental contour of 25 feet is shown, in which areas the contours conform to the national standards of accuracy for a contour interval of 25 feet.


 Louis J. Reedy, Chief,
 Stereoscopic Mapping Section,
 Division of Photogrammetry.
LSR

GEOGRAPHIC NAMES

Survey No. T-9152

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>Alaska</u>										1
<u>Aleutian Islands</u>										2
<u>Semichi Islands</u>									USGB	3
<u>Bering Sea</u>								"		4
<u>Pacific Ocean</u>										5
<u>Shemya Pass</u>										6
<u>Nizki Island</u>									USGB	7
<u>Nizki Cove</u>										8
<u>Aleid Island</u>									USGB	9
<u>Aleid Head</u>				(hill or promontory at NW end of island				"		10
										11
										12
										13
										14
										15
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										22
										23
										24
										25
										26
										27

Names underlined in red
are approved. 7-8-49

h. Heck

✓ 3-16-50

a. J. W.

13.

Division of Photogrammetry
Review Report of T-9152 and T-9153

39 Geographic Names

A list of Geographic Names compiled by the Geographic Names Section, Division of Charts has been attached to the Descriptive Report.

44 a Comparison with Previous Surveys

T-9152:		
T-6931b	1:5,000	1944
T-6964	1:20,000	1944
H-6937	1:20,000	1943-44
H 6988	1:5,000	1944
T-9153:		
T-6971b	1:5,000	1944
T-6932	1:10,000	1944
T-6931a	1:10,000	1944
T-7008b	1:2,400	1945
T-7068a	1:5,000	1947
T-7068b	1:2,400	1947
H-6937	1:20,000	1943-44
H-7000	1:10,000	1944
H-6999	1:10,000	1944
H-6987	1:10,000	1944
H-6988	1:5,000	1944
H-6873	1:2,400	1945
H-7634	1:2,400 & 1:5,000	1947

These surveys were used to supplement the instrument delineation of detail.

45 Comparison with Nautical Charts

9130	1:20,000	10/4/48
9125	1:20,000	2/3/47 (Includes insets at 1:10,000 for Alcan Harbor and Approach to Fox Beach.)
3375	1:2,400	June 1949

47 Adequacy of the Compilation

These maps, T-9152 and T-9153 are topographic maps and have been compared and reconciled with all hydrographic and topographic surveys of record in this Bureau and become, therefore, the most authoritatively complete and accurate topographic maps of record for Alaid, Nizki and Shemya Islands as of the date of this report.

48 Accuracy Tests

Horizontal

Photo coverage and horizontal control were adequate for instrument compilation methods and ensure that the maps meet the National Map Accuracy Standards.

GEOGRAPHIC NAMES

Survey No. T-9153

GEOGRAPHIC NAMES										
Survey No. T-9153										
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>Alaska</u>	/									1
<u>Aleutian Islands</u>	/									2
<u>Near Islands</u>	/									3
<u>Semichi Islands</u>	/								USCB	4
<u>Pacific Ocean</u>	/									5
<u>Bering Sea</u>	/								USCB	6
<u>Shemya Island</u>	/								"	7
<u>Alcan Harbor</u>	/									8
<u>Fox Beach</u>	/									9
<u>Skoot Cove</u>	/									10
<u>Hammerhead Island</u>	/									11
<u>Lotus Island</u>	/									12
<u>Shemya Pass</u>	/									13
										14
Names underlined in red are approved.										15
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6-13-49

3-16-50

L. Beck
a.j.w.

Vertical

No vertical accuracy tests have been made in the area of these maps. All contours are within the accuracy requirements for a contour interval of 50 feet. Supplemental contours, where shown, are within the accuracy requirements for a contour interval of 25 feet.

49 Security Classification

Shemya Island has been classified as "Restricted" by the Air Force, Office of Intelligence Requirements, Reconnaissance Branch. Alaid and Nizki Islands are not classified areas.

Reviewed by:

K. N. Maki
K. N. Maki 7/26/49

Approved by:

S. V. Lippish
Chief, Review Section *SL*

A. C. Edmonson
Chief, Nautical Chart Branch
Division of Charts

O. S. Reading
Chief, Division of Photogrammetry

W. M. Scaife
Chief, Div. of Coastal Surveys *WMS*

HISTORY OF HYDROGRAPHIC INFORMATION

T-9118-9152

Alaid and Niziki Islands Quadrangle, Aleutian Islands

The soundings and depth curves are referred to mean lower low-water. They were transferred to the manuscript from the First Edition of Nautical Chart 9130, printed 4 October 1948; the hydrography of which, originates with following surveys by this Bureau.

H-6937 (1943-44) 1:20,000

H-6988 (1944) 1:10,000

These basic surveys were used in applying to the manuscript additional soundings in depths less than three fathoms, and to improve the selection of transferred sounding offshore.

The danger line in purple is continued by black dashed line (foul line) detailed by Division of Photogrammetry.

Hydrography applied by: R. E. Elkins 4/28/49

Hydrography checked by: *J. F. Jordan* 5/5/49*1500*

*Hydrographic data applied for use of
army map series and is not shown
on the registered copy. JGG*

HISTORY OF HYDROGRAPHIC INFORMATION

T-9153, ~~formerly T-9119~~

Shemya Island Quadrangle, Aleutian Islands

Hydrography was applied to this topographic manuscript in accordance with the following instructions:

Requisition: 13 April 1949

General Specifications: 18 May 1949, Division of Photogrammetry

Detailed Specifications: A.M.S. Technical Memorandum No. 35-XVII

The soundings and depth curves are expressed in fathoms referred to mean lower low-water and originate with surveys by this Bureau:

H-7634	(1947)	1:2,400 and 1:5,000
H-6873	(1945)	1:2,400
H-6988	(1944)	1:5,000
H-6987	(1944)	1:10,000
H-6999	(1944)	1:10,000
H-7000	(1944)	1:20,000
H-6937	(1943-44)	1:20,000

The reliability of these surveys is considered good.

Two charts originating with the above surveys were used in applying the hydrography to the manuscript; chart 9130, Alaïd and Nizki Islands printed 4 October 1948, 1:20,000 and chart 3375, Aleian Harbor compiled June 1949, 1:2,400 (distribution limited).

Chart 9125 was not used. It was compiled from advance information, prior to the verification of the above surveys and is scheduled for recompilation in the near future.

The depth curves are drawn at 1, 3, 5, and 10 fathoms. The danger curve represented by the dotted-line is continued by the dashed-line (foul line) detailed by Division of Photogrammetry.

Hydrography applied 17 May 1949 by R. E. Elkins and verified by G. F. Jordan - 27 June 1949

R. E. Elkins

R. E. Elkins

Cartographer, Nautical Chart Branch

Hydrographic data was applied for use of Army map service and is not shown on the registered copy.

