

8480  
8481

Diag. Cht. No. 8252-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey SHORELINE

T-8480

Field No. Ph-49(49)

Office No. T-8481

LOCALITY

State ALASKA

General locality SITKA

Locality SITKA SOUND (EAST SIDE)

1945-47

CHIEF OF PARTY

G.E. Boothe, Chief of Party, Division of Photogrammetric, Washington, D.C.

LIBRARY & ARCHIVES

DATE December 18, 1953

8-1870-1 (1)

8480  
8481

DATA RECORD

T-8480 and T-8481

Project No. (II): Ph-49(49)      Quadrangle Name (IV):

Field Office (II):

Chief of Party:

Photogrammetric Office (III): Washington, D. C.      Officer-in-Charge: K. T. Adams

Instructions dated (II) (III):

Revised Instructions - Proj. CS-247  
14 April 1947

Copy filed in Division of  
Photogrammetry (IV)  
Office Files

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 11-12-52

Publication Scale (IV): —

Publication date (IV):  
(Date of issue July 1952)

Geographic Datum (III): N.A. 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): Maid, 1942 (T-8480)

Lat.: 56°51' 31.650" (979.0<sup>m</sup>) Long.: 135° 28' 06.459" (109.5<sup>m</sup>)  
Crane, 1943 (T-8481)

Adjusted X  
Unadjusted

56°50' 58.349" (1804.9<sup>m</sup>) 135° 22' 54.486" (923.5<sup>m</sup>)  
Plane Coordinates (IV):      State:      Zone:

Y=

X=

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.



# DATA RECORD

Field inspection by (II):  
 (1) K. G. Crosby - - - - - 1945  
 (2) H. F. Garber and R. H. Brown - - - - - 1946  
 (3) Glendon E. Boothe and A. L. Wardwell - - 1947

Planetable contouring by (II): \_\_\_\_\_ Date:

Completion Surveys by (II): \_\_\_\_\_ Date:

Mean High Water Location (III) (State date and method of location):  
 (1) Planetable surveys  
 (2) Field inspected nine-lens photographs

Projection and Grids ruled by (IV): Washington Office Date:

Projection and Grids checked by (IV): Washington Office Date:

Control plotted by (III): Graphic Compilation Section  
 Washington Office Date:

Control checked by (III): Graphic Compilation Section  
 Washington Office Date:

Radial Plot ~~on Stereoscopic~~ Graphic Compilation Section Date:  
~~Control extension by (III):~~

Planimetry Date:  
 Stereoscopic Instrument compilation (III):  
 Contours Date:

Manuscript delineated by (III): Graphic Compilation Section  
 Washington Office Date:

Photogrammetric Office Review by (III): Date:

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

Camera (kind or source) (III):

Number	Date	Time	Scale	Stage of Tide
9351	7/4/42	11:20	1:10,000	Approx. 2' above MLLW
9352	"	11:21	"	" " " "
9353	"	11:22	"	" " " "
9354	"	11:23	"	" " " "
9377	7/8/42	9:02	"	" " " "
9378	"	9:03	"	" " below MHW
9379	"	9:03	"	" " " "
9380	"	9:04	"	" " " "
9381	"	9:05	"	" " " "
9382	"	9:05	"	" " " "
9383	"	9:05	"	" " " "
9389	"	9:09	"	" " " "

Tide (III)

Reference Station: Sitka

Subordinate Station:

Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	7.7	

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

Date: 3-21-51

Final Drafting by (IV): *A. Berry T-8480*  
*W. Taylor T-8481*

Date: *Oct 22, 1951*

Drafting verified for reproduction by (IV): *C. Kupiec T-8480*  
*W.O. Halluin T-8481*

Date: *Oct 22, 1951*  
*June 18, 1952*

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III):

Shoreline (More than 200 meters to opposite shore) (III):

Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Recovered:

Identified:

Number of BMs searched for (II):

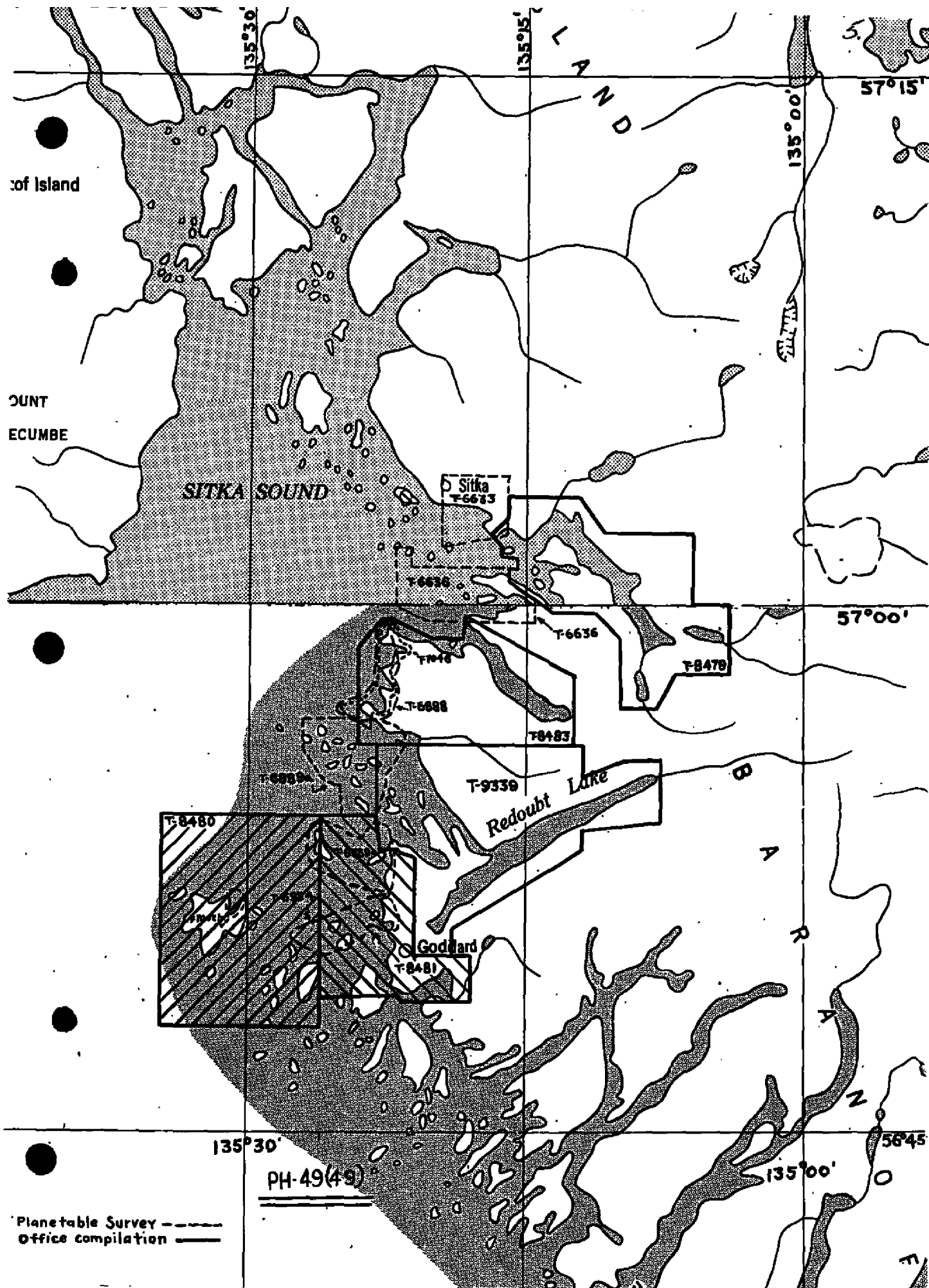
Recovered:

Identified:

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:



SUMMARY TO ACCOMPANY T-8480 and T-8481 (see item 4)

Data pertaining to T-8480 and T-8481 are filed as follows:

A. Division of Photogrammetry General File

1. Acetate manuscript for T-8480 and T-8481
2. Duplicate of the combined descriptive report.

B. Bureau Archives

Registered copies under T-8480 and T-8481 will include the combined descriptive report and lithographic prints of the map manuscript at compilation scale.

## Field Inspection

Field inspection reports on Sitka Sound and vicinity covering the area of T-8480 and T-8481 are filed in the Division of Photogrammetry general files. Field inspection reports are by:

K. G. Crosby, 1945

H. F. Garber and R. H. Brown, 1946

Glendon E. Boothe and A. L. Wardell, 1947



## Photogrammetric Plot

T-8480 and T-8481

The photogrammetric plot for these surveys was accomplished without prior field identification of control. The ground control was approximately identified on the photographs in the office from descriptions and a preliminary plot was made. Transparent acetate templates of nine-lens photographs were laid directly on the manuscript sheet to form the compilation base.

Field recovery of horizontal control was provided subsequent to the preliminary compilation of the shoreline. A new radial plot was not made since the original compilation base did not require a complete revision. Pass points and detail points were revised only in areas of previously weak control or where field pricking of a control point indicated error in the office locations.

MAP T. 84 80 PROJECT NO. Ph-49 (49) SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM N.A. 1927	LATITUDE OR $\phi$ -COORDINATE LONGITUDE OR $\lambda$ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
ORKA, 1942	G 5917 p. 816	"	56° 52' 01.417"	43.8					
			135° 33' 51.229"	867.9					
TRAN, 1942	G 5917 p. 812	"	56° 51' 56.730"	1754.8					
			135° 31' 23.874"	404.5					
HAMUS, 1942	"	"	56° 51' 56.320"	1742.1					
			135° 30' 21.361"	361.9					
RAN, 1942	G 5917 p. 817	"	56° 51' 22.40"	692.9					
			135° 29' 30.36"	514.5					
MIDDLE, 1942	G 5917 p. 812	"	56° 50' 55.672"	1722.1					
			135° 27' 05.308"	90.0					
LEGMA 1942	G 5917 p. 813	"	56° 50' 08.356"	258.5					
			135° 26' 39.118"	663.3					
BIORKA, 1942	G 5917 p. 811	"	56° 51' 15.119"	467.7					
			135° 32' 13.008"	220.5					
KAINGHALI, 1925	G 402 p. 851	"	56° 50' 00.64	20.0					
			135° 33' 48.198"	817.3					
WOODHOUSE, 1925	G 5917 p. 815	"	56° 49' 35.596"	1224.8					
			135° 32' 03.809"	64.6					
ATAKU, 1942	"	"	56° 49' 42.838"	1325.1					
			135° 29' 21.933"	372.0					
KER, 1924	G 5917 p. 811	"	56° 48' 08.300"	256.7					
			135° 29' 32.485"	551.2					

CHECKED BY: S

DATE

[illegible]

MAP T-8481 PROJECT NO. PH-49(49) SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR B-COORDINATE LONGITUDE OR X-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
✓ MAZE, 1942	P. 817	1927	56° 53' 14.199"	439.2					
	820	"	135° 23' 39.551"	669.7					
✓ COLBERT, 1942	P. 813	"	56° 52' 52.292"	1617.5					
		"	135° 23' 39.730	672.9					
✓ BALD, 1943	P. 818	"	56° 52' 38.959"	1205.1					
		"	135° 22' 54.939"	930.5					
✓ VISO K01, 1925	P. 812	"	56° 52' 12.832"	396.9					
		"	135° 24' 57.575"	975.4					
✓ LET, 1943	P. 819	"	56° 52' 14.478"	447.8					
		"	135° 23' 42.736"	723.9					
✓ LAST, 1925	P. 813	"	56° 51' 25.697"	794.9					
		"	135° 23' 23.059"	390.8					
✓ CRANE, 1943	P. 818	"	56° 50' 58.349"	1804.9					
		"	135° 22' 54.486"	923.5					
✓ NAERIE, 1943	P. 817	"	56° 50' 52.526"	1624.8					
		"	135° 24' 07.831"	132.7					
✓ FINGER, 1925	G-6402 ZL P. 851	"	56° 51' 08.614"	266.5					
		"	135° 25' 48.227"	817.4					
✓ TOR, 1943	P. 817	"	56° 51' 04.140"	128.1					
		"	135° 25' 07.626"	129.3					
✓ FRAG, 1943	P. 817	"	56° 50' 32.007"	990.1					
		"	135° 24' 44.852"	760.4					
✓ LOST, 1943	P. 817	"	56° 49' 59.187"	1830.8					
		"	135° 24' 01.717"	29.1					

1 FT. = 3048006 METER

M. 2368

DATE

CHECKED BY

DATE

MAP T-8481  
PROJECT NO. Ph-49 (49)  
SCALE OF MAP 1"=10,000'  
SCALE FACTOR

PROJECT NO. Ph-49 (49) SCALE OF MAP 1"=10,000'

MAP T-848

[illegible]

1 FT. = 3048006 METER

**COMPUTED BY:**

DATE \_\_\_\_\_

**CHECKED BY:**

DATE

**M-2388=12**

## COMPILATION REPORT

T-8480

Nine lens photographs field inspected in 1945, 1946, and 1947 were used in revising preliminary details. Planetable details have been transferred to the manuscript where adequate. Hydrographic surveys have been compared with T-8480 regarding sounding lines. The different color inks on the manuscript were used to designate the source of the details as follows:

- (a) Black - preliminary shoreline and details that have not been changed.
- (b) Green - preliminary or planetable shoreline and details revised from field inspected photographs.
- (c) Red - Planetable details copied without revision from planetable.

### 31. Delineation.

(1) Revisions and changes were applied directly from the field photographs using the preliminary or planetable shoreline as a base.

- (a) Vertical projector was used in some instances.

### 32. Control.

See attached form M-2388-12 for control summary.

### 33. Supplemental Data.

(I) T-68896 (1942) All of the rocks shown on the planetable board in foul areas close to shore have not been transferred to the manuscript. Numerous changes have been made in both the preliminary and planetable interpretation of details on Peisar Island.

(II) H-6948 (July, 1942)(Aug., 1943). Survey sounding lines were checked with T-8480. No discrepancies were found.

(III) Some of the details on T-70026 have been transferred to the manuscript. *Not registered-destroyed. G.F.J.*

(IV) H-7097 (1945) Survey sounding lines were checked with the manuscript; no discrepancies were found.

(V) H-4554 (1925) Survey sounding lines were checked with the compilation; no discrepancies were found.

(VI) T-7048 (1:10,000) No shoreline or details are shown on planetable board.

*Removed from registry-destroyed-1-30-51 G.F.J. (839)*  
(VII) T-7047 (1:10,000) No shoreline or details are shown on the planetable board.

(VIII) H-6947 (1942-1943) Survey sounding lines were checked with the compilation; no discrepancies were found.

(IX) T-6934 (1943) Details transferred from the plane-table board are shown in red on the manuscript.

34. Contours and drainage.

No changes or additions have been applied.

35. Shoreline and alongshore details.

Details have been changed to agree with field inspected photograph data where the interpretations differ greatly.

36. Offshore details.

Inapplicable.

37. Landmarks and aids.

Form 567, Landmarks for Charts, submitted for two radio towers on Biörka Island.

Attached

38. Control for future surveys.

One form 524 was submitted for Topographic Station "Wag".

39. Junctions.

Div Photogrammetry general files.

T-8481 (Revised 1950). Junctions in agreement.

40. Horizontal and Vertical Accuracy.

Revised details have approximate horizontal accuracy of original details compiled from radial plot.

46. Comparison with existing maps.

Inapplicable.

47. Comparison with nautical charts.

(1) 8255 (1:40,000) published in 1929 - Revised 1948.

Approved by:

Submitted by:

Chief, Graphic Compilation

S. G. Blankenbaker

## COMPILATION REPORT

T-8481

Nine lens photographs field inspected in 1946 were used in revising preliminary details. Planetable details have been transferred to the manuscript where adequate. Details previously applied to T-8481 from Hydrographic surveys have been left on the manuscript. Hydrographic surveys have been compared with T-8481 regarding sounding lines. The different color inks on the manuscript were used to designate the source of the details as follows:

- (a) Black - preliminary shoreline and details that have not been changed.
- (b) Green - preliminary Jr planetable shoreline and details revised from field inspected photographs.
- (c) Red - Planetable or Hydrographic details copied without revision from planetable or Hydrographic surveys.

A part of T-8481 has been superseded by T-6889a and T-9339. The superseded area has been marked off with red lines. See item #61

### 31. Delineation.

(1) Revisions and changes were applied directly from the field photographs using the preliminary or planetable shoreline as a base.

(a) Vertical projector was used in some instances.

### 32. Control. See attached form M-2388-12 for control summary.

### 33. Supplemental Data.

The following surveys were used:

- |                        |                   |
|------------------------|-------------------|
| (1) H-6947 (1942-1943) | 1:10,000          |
| (2) H-6948 (1942-1943) | 1:10,000          |
| (3) H-4554 (1925)      | 1:10,000-1:20,000 |
| (4) T-6934 (1943)      | 1:10,000          |
| (5) T-68896 (1943)     | 1:10,000          |
| (6) T-4179 (1925)      | 1:10,000-1:20,000 |

### 34. Contours and drainage.

Several small lakes have been added to the sheet.

### 35. Shoreline and alongshore details.

Details have been changed to agree with field inspected photograph data where the interpretations differ greatly.



36. Offshore details.

Inapplicable

37 & 38. Inapplicable

39. Junctions.

(1) T-8480 (Revised, 1950) (2) T-9339 (1950)  
(3) T-6889a (1943). Junctions are in agreement.  
A part of T-8481 is superseded by planetable survey  
T-6889a. There is no junction on land.

40. Horizontal and vertical accuracy.

Revised details have approximate horizontal accuracy  
of original details compiled from radial plot.

46. Comparison with existing maps.

Inapplicable.

47. Comparison with nautical charts.

(1) 8255 (1:40,000) published in 1929 - Revised in 1948.

Submitted by:

S. G. Blankenbaker

Approved by:

Chief, Graphic Compilation

**DEPARTMENT OF COMMERCE**  
**U. S. COAST AND GEODETIC SURVEY**

# TO BE CHARTED

## STRIKE OUT ONE

## NONFLUENT READERS OR LANDMARKS FOR CHARTS

Washington, D. C. May 26, 1950

I recommend that the following objects which have ~~(been examined)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(the chart)~~ the charts indicated.

The positions given have been checked after listing by S. O. Blankenbaker

**L. C. Lando**

**Chief of Party.**

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The *guide* should be considered for the charts of the area and not by individual field survey sheets. Information - each column heading - given.

# GEOGRAPHIC NAMES

Survey No. T-8480

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>Sitka Sound</u> ✓										2
<u>Peisar Island</u> ✓								USGB		3
<u>Middle Rock</u> ✓			(20 ft. high)							4
<u>Blackbird Island</u> ✓										5
<u>Iegma Island</u> ✓										6
<u>Maid Island</u>								USGB		7
<u>Tava Island</u> ✓	c									8
<u>Ataku Island</u>										9
<u>Ilegnoi Island</u> ✓										9
<u>Golovni Island</u> ✓										10
<u>Pishak Island</u> ✓										11
<u>Vasilief Rock</u> ✓			(awash)							12
<u>Terbilon Island</u> ✓										13
<u>Gunboat Rock</u> ✓			(bare)					USGB		14
<u>Impassable Island</u>										15
<u>Kaiuchali Island</u>										16
<u>Biorka Island</u> ✓								USGB		17
<u>Little Biorka Island</u> ✓										18
<u>Entrance Island</u>										19
<u>Symonds Bay</u> ✓								USGB		20
<u>Hanus Island</u>										21
<u>Wrangell Island</u> ✓										22
<u>Point Woodhouse</u>										23
										24
										25
<u>Biorka Channel</u>								USGB		26
<u>Necker Islands</u>			(group to SE and E of Biorka Channel)							27

Names underlined in red are approved. 5-26-50.

L. Heck

# GEOGRAPHIC NAMES

Survey No. T-8481

GEOGRAPHIC NAMES		Survey No. T-8481									
Name on Survey	<div>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</div>										
	A	B	C	D	E	F	G	H	K		
<u>Alaska</u>											1
<u>Sitka Sound</u>											2
<u>Baranof Island</u>										USGB	3
											4
<u>Peisar Island</u>										USGB	5
<u>Frosty Reef</u>			(new name)								6
<u>Viesokoi Rock</u>											7
<u>Oalligan Island</u>											8
<u>Peresheek Point</u>											9
<u>Crane Cove</u>											10
<u>Naerie Rock</u>											11
<u>Kolosh Island</u>											12
<u>Kliuchevoi Bay</u>											13
<u>Goddard</u>											14
<u>Hot Springs Bay</u>											15
<u>Kliuchef Peninsula</u>										USGB	16
<u>Dorothy Narrows</u>											17
<u>Big Bay</u>											18
<u>Elovoi Island</u>			(not Elovoi)								19
<u>Herring Bay</u>											20
<u>Galkin Island</u>											21
<u>Fragrant Island</u>											22
<u>Torsar Island</u>											23
<u>Blackbird Island</u>											24
											25
											26
											27

Names underlined in red are approved. 6-17-50 L. Heck

M 234

Names underlined in red are approved. 6-17-50

L. Heck

REVIEW REPORT T-8480 and T-8481

SHORELINE MAPS

21 March 1951

61. General Statement.

The photogrammetric shoreline surveys T-8480 and T-8481 were compiled in the Washington Office from nine lens photographs prior to field identification of control and without field inspection of shoreline details. The preliminary compilations consisted of three maps of which one, T-8482, was dropped and reassigned as B.P.46,616 in the Division of Charts.

The detail appearing on the east half of T-8481 compiled prior to field inspection and with no subsequent revision applied is superseded by T-9339. This area is defined on map manuscript T-8481 by a red line and will not appear on the registered copy.

T-8480 and T-8481 are final and complete <sup>shoreline</sup> surveys resulting from the application of data furnished by planetable surveys, hydrographic surveys and field inspection photographs. Details from planetable and hydrographic surveys were copied where adequate with revision of details only where field inspection and photographs showed them to be in error.

62. Comparison with Registered Topographic Surveys.

T-4179,	1:10,000-1:20,000,	1925
T-6889b	1:10,000,	1943
T-6934	1:10,000,	1943

These surveys are superseded by T-8480 and T-8481 for nautical charting purposes.

63. Comparison with Maps of Other Agencies.

None

64. Comparison with Contemporary Hydrographic Surveys.

H-7193	1:10,000	1947
H-7097	1: 5,000	1945, 47
H-4554	1:10,000-1:20,000	1925
H-6947	1:10,000	1942-43
H-6948	1:10,000	1942-43
H-6655	1:20,000	1940-41

These surveys have been compared with T-8480 and T-8481 and do not conflict. Shoreline and alongshore details on the final revised photogrammetric compilation supersede those transferred to the hydrographic sheets from the preliminary compilation and from plane-table surveys but do not supersede hydrographic locations of rocks and ledges.

65. Comparison with Nautical Charts.

8002, 1:969,756, ed. 1936, corr. 1/3/49  
8255, 1:40,000, ed. 1948, corr. 8/2/48

There are no significant differences between T-8480-81 and the charts.

66. Adequacy of Results and Future Surveys.

T-8480 and T-8481 are adequate for use as a base for hydrographic surveys and construction of nautical charts and comply with National Map Accuracy Standards.

67. Delineation.

Review corrections and additions were made in purple ink. These added revisions consisted of the redelineation of small portions of field inspected shoreline from the photographs and the addition of elevations to a number of the very small islands from field inspection data.

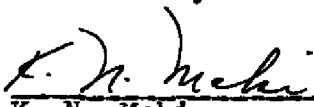
68. Landmarks and Aids.

Refer to Chart Letter 647 (1942) filed in the Division of Charts for positions on the five radio range towers on Biorka Island. They are not triangulation stations as per Geodesy. It is also stated that the towers were located by fourth-order methods in the descriptive report for hydrographic survey H-6655. The radio range towers are shown on the map with the conventional symbol used for landmarks and aids.

Form 567 has been submitted for two additional radio towers on Biorka Island and a copy attached to this descriptive report.

A form 524 card for station Wag, 1947 (T-8480) has been submitted and is on file in the Division of Photogrammetry general files.

Reviewed by:

  
K. N. Maki

Approved:

S. V. Griffith  
Chief, Review Section  
Div. of Photogrammetry

H. Edmundson  
Chief, Nautical Chart Branch  
Division of Charts

O. J. Reading  
Chief, Div. of Photogrammetry

Carl O. Hutton  
Chief, Div. of Coastal Surveys