

11101

Diag. Cht. Nos. 8152-2 and 8201-2.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Photogrammetric Shoreline

Field No. Ph-87 Office No. T-11101

LOCALITY

State Alaska

General locality Tuxekan Passage

Locality Naukati Bay

1948-53

CHIEF OF PARTY

R.A.Gilmore, Chief of Field Party
J.C.Sammons, Baltimore Photo. Office

LIBRARY & ARCHIVES

DATE December 17, 1959

B-1870-1 (1)

11101

DATA RECORD

T -11101

Project No. (II): Ph-87

Quadrangle Name (IV):

Field Office (II): Seattle, Wash.

Chief of Party: Ross A. Gilmore

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: Jack C. Sammons

Instructions dated (II) (III): 11 June 1952
24 Dec. 1952
8 Jan. 1953
28 Oct. 1953

Copy filed in Division of
Photogrammetry (IV)

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): MAR 13 1952

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 17 Feb 1959

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

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): LUNCH, 1952

Lat.: 55° 52' 34.917" (1079.9m)

Long.: 133° 08' 58.074" (1009.8m)

~~Unadjusted~~
Unadjusted

Plane Coordinates (IV):

State: Alaska

Zone: 8

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.

(Not applicable)

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

DATA RECORD

Field Inspection by (II): Ross A. Gilmore

Date: Aug. 1952

Planetable contouring by (II): None

Date:

Completion Surveys by (II): None

Date:

Mean High Water Location (III) (State date and method of location): June - August 1948
Field and office identification.

Projection and Grids ruled by (IV): J. Allen

Date: 1/13/53

Projection and Grids checked by (IV): H. D. Wolfe

Date: 1/15/53

Control plotted by (III): L. A. Senasack

Date: 2/28/53

Control checked by (III): H. R. Rudolph

Date: 2/2/53

Radial Plot ~~not stereoscopic~~ H. R. Rudolph
~~Control checked by~~ (III):

Date: 2/11/53

Planimetry
Stereoscopic Instrument compilation (III):
Contours

Date:

Date:

Manuscript delineated by (III): J. Honick

Date: 2/26/53

Photogrammetric Office Review by (III): R. Glaser

Date: 3/3/53

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

Date:

Camera (kind or source) (III): U. S. Navy single lens

Number	Date	PHOTOGRAPHS (III)		Scale	Stage of Tide
		Time			
SEA 22-103	6/9/48	not available		1:10,000	
SEA 22-104	6/9/48	"	"	"	
SEA 103-038, 039	8/8/48	"	"	"	
SEA 101-194, 195	9/4/48	"	"	"	

Tide (III)
From predicted tables

Reference Station: SITKA
Subordinate Station: Karheen, Sea Otter Sound
Subordinate Station:

Diurnal		
Ratio of Ranges	Mean Range	Range
	7.7	9.9
1.1	8.4	10.6

Washington Office Review by (IV): *Luna T. Stevens*

Date: 13 April, 1954

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

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

Shoreline (More than 200 meters to opposite shore) (III): 18 mi.

Shoreline (Less than 200 meters to opposite shore) (III): 2 mi.

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Recovered: none

Identified:

Number of BMs searched for (II):

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): none

Number of Temporary Photo Hydro Stations established (III): 2

Remarks:

* New stations established - 14.

Identified - 9

MAP T-11101

PROJECT NO. Fh-87

SCALE OF MAP.....1:10,000.

SCALE FACTOR:

[illegible]

7

NET - 3048006 METER

1 FT. = 3048006 METER
COMPUTED BY: J. King

DATE 11/10/53

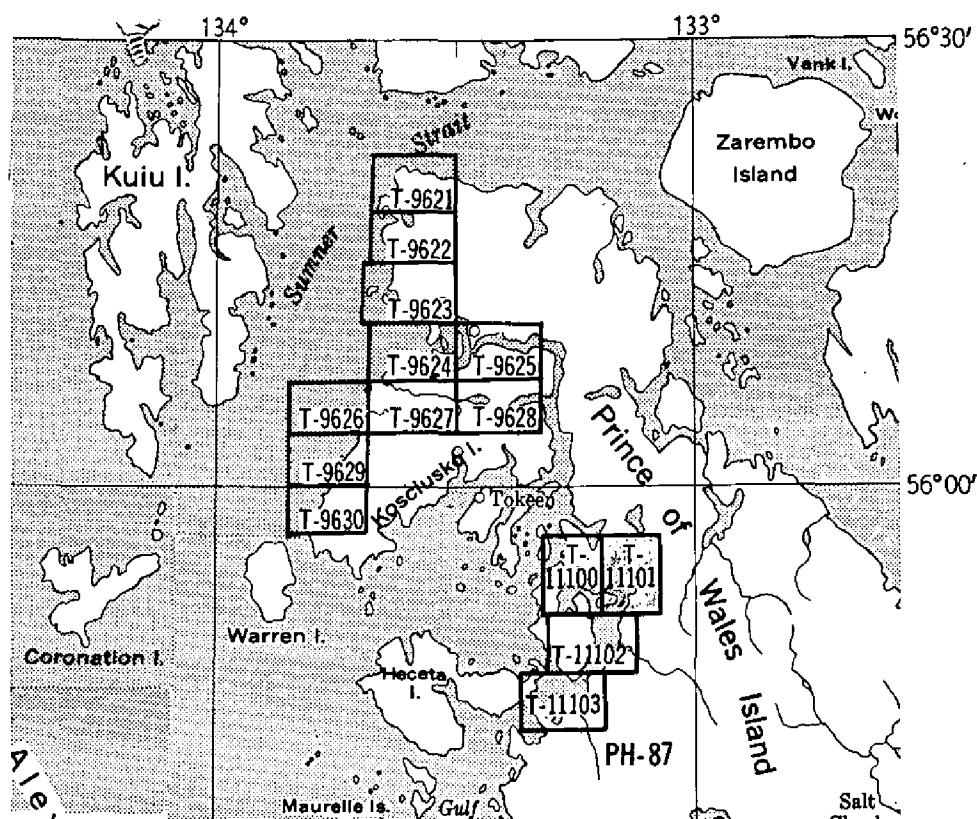
CHECKED BY: F. J. Tarcza

DATE 11/12/53

M. 2388-1

SHORELINE MAPPING PROJECT PH-87

Tuxekan Passage & Sumner Strait, ALASKA



PH-87

OFFICIAL MILEAGE FOR COST ACCOUNTS

SHEET NO.	AREA SQ. MILES	LIN. MILES SHORELINE
T-11100	32	32
T-11101	9	9
T-11102	18	18
T-11103	16	16
T-9621	12	12
T-9622	16	16
T-9623	15	15
T-9624	17	17
T-9625	21	21
T-9626	4	4
T-9627	15	15
T-9628	14	14
T-9629	5	5
T-9630	<u>7</u>	<u>7</u>
TOTALS	201	201

Summary to Accompany T-11101

Shoreline project Ph-87 has two parts: T-9621 (Pt. Baker to T-9630 (Cape Pole) at the north end of Prince of Wales Island and the southwest tip of Kosciusko Island, respectively; and T-11100 to T-11103, covering Tuxekan Passage. The project carries out the photogrammetric phase of Coastal Surveys' project CS-347 for which instructions were issued 11 June 1952 and 3 June 1953.

Field inspection was made in 1952 and in 1953. It included establishment of control; delineation of shoreline, rocks, and shoals on 1:20,000 photographs; and descriptive notes for alongshore features. In 1953 five planetable surveys were made. They have been fully utilized in the final compilation of T-11101 so that they will not be retained in the Bureau Archives.

T-11101 includes Naukati Bay and Little Naukati Bay which are northeastward arms of Tuxekan Passage.

COMPILATION REPORT
T-11101

Field Inspection Report

The field inspection report for this survey is covered by the 1952 season report for Tuxekan Passage, Southeast Alaska, Project CS-347 which has been submitted as part of the descriptive report for T-11103, Ph-87. *2 1953 - Little Naukatli Bay T-11104*

Photogrammetric Plot Report

The photogrammetric plot report covering the area of this survey has been submitted with the descriptive report for survey T-11103.

31. DELINEATION

This manuscript was compiled by graphic methods.

The vertical projector was used to compensate for scale difference between the photographs and the manuscript.

The portion of Little Naukatli Bay that falls on this manuscript will be delineated on T-11100 when the radial plot for that survey is completed.

Lack of good photographic definition in the foreshore areas made office interpretation of ledge rock very uncertain.

32. CONTROL

The density and placement of horizontal control was adequate but identification of some stations was doubtful. See Photogrammetric Plot Report. *Calf, Trout*

33. SUPPLEMENTAL DATA

None.

34. CONTOURS

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate.

Low water and shoal lines are based on data furnished by the field party.

36. OFFSHORE DETAILS.

No comment.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

See item 49 for the descriptions of photo-hydro stations located on this manuscript.

39. JUNCTIONS

Junction was made and is in agreement with Survey T-11102 to the south.

Survey T-11100 to the west has not been delineated; ~~so junction could not be made.~~ all detail at junction will be delineated on T-11100.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 through 45

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

None available.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 8171, scale 1:40,000, published June 1947 and corrected to 8/4/52.


Items to be applied to nautical charts immediately:

None.

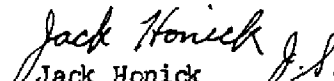
Items to be carried forward:

None.

Approved and forwarded:


Jack C. Sammons,
Capt. U.S.C. & G. S.
Officer in Charge

Respectfully submitted
27 February 1953


Jack Honick
Carto. Photo. Aid

48. GEOGRAPHIC NAME LISTNaukati BayPrince of Wales IslandTuxekan Passage

For title:
 Probably Southeastern Alaska

Tahka PointKaishi PointKlinau Island

→ Marks wrong
 island on sheet.

Kussu IslandsHauti Island

LAM
 2/20/63

Gutchi CoveGutchi CreekTuxigai CreekXatuk CreekKaigao ~~cove~~ PointKaikli CoveKaigao Cove

Names approved
 4-13-54. The 12
 new names are
 from the Project
 Names Report.
 L-HECK 12

49. NOTES FOR THE HYDROGRAPHER

The following two hydrographic stations were established:

No. 001 - Center of two large trees on grassy islet (there is only one other tree on islet).

No. 002 - Large, very tall tree, slightly separate from main group (wrapped with white signal cloth).

The compilation office was not able to satisfactorily complete the classification of the foreshore areas. If possible, the hydrographic party should verify the delineation of rock ledge, sand, mud, etc.

MAP T. 11101 PROJECT NO. Ph-87 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ν -COORDINATE LONGITUDE OR x -COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
STAR, 1952	Field Comp. Unadj.	N.A. 1927	55° 53' 10"	09.178"				283.9	(1571.8)		
			133 10	57.950				1007.3	(35.6)		
DELTA, 1952	"	"	55 53	08.020				248.0	(1607.6)		
			133 09	05.492				95.5	(947.5)		
LUNCH, 1952	"	"	55 52	34.917				1079.9	(775.8)		
			133 08	58.074				1009.8	(33.5)		
BEAR, 1952	"	"	55 52	27.381				846.8	(1008.8)		
			133 09	35.948				625.1	(418.2)		
REEF, 1952	"	"	55 52	05.893				182.3	(1673.4)		
			133 09	14.583				253.6	(789.8)		
CALF, 1952	"	"	55 52	04.778				147.8	(1707.9)		
			133 10	17.889				311.1	(732.4)		
TIMBER, 1952	"	"	55 51	57.677				1783.8	(71.8)		
			133 10	37.569				653.4	(390.1)		
CINDER, 1952	"	"	55 51	29.673				917.7	(938.0)		
			133 11	37.333				649.4	(394.3)		
POLE, 1952	"	"	55 52	49.801				1540.2	(315.4)		
			133 09	56.743				986.5	(56.6)		
TROUT, 1952	"	"	55 53	05.699				176.3	(1679.4)		
			133 10	11.413				198.4	(844.6)		
MOON, 1952	"	"	55 52	50.882				1573.7	(282.0)		
			133 10	08.068				140.3	(902.8)		
HEMLOCK, 1952	"	"	55 51	24.232				749.4	(1106.2)		
			133 10	18.738				326.0	(717.8)		

1 FT. = 3048006 METER

COMPUTED BY: J. C. Oregon

DATE Jan. 26, 1953

CHECKED BY: F. J. Tarcza

DATE 28 JAN. 1954

PROJECT NO
Ph-87

SCALE OF MAP 1:10,000

SCALE FACTOR

-9-

M-2388-12

1 FT. = 3048006 MICRONS

COMPUTED BY: E. L. Williams

DATE 28 January 1953

CHECKED BY: J. C. Cregan

DATE 20 January 1953

MAP T-11101.

[illegible]

16 1 FT. = .3048006 METER
COMPUTED BY: J. King
DATE: 11/10/53
CHECKED BY: F. J. Tarca
DATE: 11/12/53
M-2388-12

50

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11101

1. Projection and grids ✓ 2. Title ✓ 3. Manuscript numbers ✓ 4. Manuscript size ✓

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy ✓ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) none 7. Photo hydro stations ✓ 8. Bench marks none 9. Plotting of sextant fixes none 10. Photogrammetric plot report ✓ 11. Detail points ✓

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ✓ 13. Low-water line ✓ 14. Rocks, shoals, etc. ✓ 15. Bridges none 16. Aids to navigation none 17. Landmarks none 18. Other alongshore physical features ✓ 19. Other along-shore cultural features none

PHYSICAL FEATURES

20. Water features ✓ 21. Natural ground cover ✓ 22. Planetable contours none 23. Stereoscopic Instrument contours none 24. Contours in general none 25. Spot elevations none 26. Other physical features none

CULTURAL FEATURES

27. Roads none 28. Buildings none 29. Railroads none 30. Other cultural features none

BOUNDARIES

31. Boundary lines none 32. Public land lines none

MISCELLANEOUS

33. Geographic names ✓ 34. Junctions ✓ 35. Legibility of the manuscript ✓ 36. Discrepancy overlay none 37. Descriptive Report ✓ 38. Field inspection photographs ✓ 39. Forms ✓

40. _____
Reviewer

R. Glavin
Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler

Supervisor

43. Remarks:

M-2623-12

PROJECT Ph-87

NOTES TO REVIEWER

The notes to the hydrographic party in the original compilation reports for Ph-87 in 1952 contained a request for verification of the office classification of the foreshore areas as delineated. In compliance with this request, additional notes were made on the field photographs in 1953.

Although this 1953 field inspection showed conscientious coverage of the shoreline, it is believed that the character of the foreshore area which was described was that immediately at HWL. For example, Photo. SEA 103-038 shows many light-toned areas offshore from the HWL which appear to bare at low water. Very few of these light-toned areas have been classified. Some of these areas are probably rock ledge and some are sand, but most of them required field classification.

Photo SEA 15-028 is an example of well classified foreshore areas which this office could not use because the foreshore zone was too narrow to delineate. This same condition exists in other places in this project as well.

The description of the area in the 1953 field report says, "The passage is flanked on both sides by heavily wooded, steep hills that rise to general elevation of 300-500 feet." This is the only information available concerning bluffs. The heavy woods prevented satisfactory stereoscopic inspection of bluffs and therefore none were delineated.

REVISION REPORT
T-11101
Project Ph-87

Revisions were made in accordance with para. 2 and 4 of Project Instructions dated 28 October 1953.

Refer to item 49 of the Compilation Report and para. 2 of the 1953 Field Inspection Report, which is a part of the Descriptive Report for T-11100.

The shoreline changes, shown in red on the manuscript, were taken from Graphic Control Sheets PA-C-53 and PA-D-53, with the exception of the area of Little Naukati Bay south to control station BUCK, 1953. This area was delineated from 1953 nine-lens photographs on Survey T-11100 and transferred to this manuscript in red.

The foreshore changes were obtained from 1953 field inspection and inked in red on the manuscript.

Three new control stations were added to this survey.

BUCK, 1953
DEER, 1953
ALDER, 1952

Respectfully submitted
25 January 1954

Frank J. Tarcza
Super. Carto. (Photo)

Approved and Forwarded

E. H. Kirsch,
Comdr. USC&GS
Officer in Charge

Review Report
Shoreline Map T-11101
13 April 1954

62. Comparison with Registered Surveys.-No previous survey covers this part of Tuxekan Passage.

63. Comparison with Maps of Other Agencies.-

USGS Quad. Craig (D-4) 1:63,360 1951

The quadrangle was compiled by multiplex from 1948 photographs probably without benefit of field inspection. Difference in scale prevents more than a general agreement in shoreline, ledge, rocks, and low water line. But field inspection for Ph-87 gave little ledge or low water, and no bluff information so that T-11101 is not definitive in this matter. The hydrographic surveys will give additional information.

64. Comparison with Contemporary Hydrographic Surveys.-

H-8037 (PA-1253) 1:10,000

H-8038 (PA-1353) 1:10,000

These surveys were not available for use during review.

65. Comparison with Nautical Charts.-

8171 1:40,000 ed. June 1947, rev. August 1952

The scale of the chart affords a basis to judge only general agreement of shoreline form. The chart is incomplete in this area and is superseded, except for contours, by T-11101 for charting purposes.

66. Accuracy.-T-11101 complies with project instructions and meets the National Standards of Map Accuracy.

Reviewed by:

Lena T. Stevens
Lena T. Stevens

APPROVED BY:

L. C. Landy
Chief, Review Branch
Div. of Photogrammetry

W. B. K. Pitts
Chief, Nautical Chart Branch
Division of Charts

L. L. Dawson
Chief, Div. of Photogrammetry

J. Bowie
Chief, Div. of Coastal Surveys

24 Sept 59

NAUTICAL CHARTS BRANCH

SURVEY NO. T-11101

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.