# DESCRIPITIVE REPORT

**Type of Survey**: Photogrammetric Shoreline  
**Field No.**: Ph-37  
**Office No.**: T-11102  

## LOCALITY
**State**: Alaska  
**General locality**: Tuxekan Passage  
**Locality**: Staney Island

---

**CHIEF OF PARTY**  
R.A. Gilmore, Chief of Field Party  
J.C. Sammons, Baltimore Photo. Office

## LIBRARY & ARCHIVES
**DATE**: July 21, 1959
DATA RECORD

Project No. (II): Ph-87

Project No. (II): Ph-87

Quadrangle Name (IV):

Field Office (II): Seattle, Washington

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

MAR 13 1952

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

Mean sea level except as follows:
Elevations shown as (2) refers to mean high water
Elevations shown as (6) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): LESTER, 1952

Lat.: 55° 49' 18.983" (587.1m.)
Long.: 133° 12' 55.890" (973.1m.)

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.

Form T: Page 2
Areas contoured by various personnel
(Show name within area)
(II) (III)

Not applicable
DATA RECORD

Field Inspection by (II): Ross A. Gilmore

WM. O. Barlow

Date: 8 August 1952

Completion Surveys by (II):

Date:

Planetary contouring by (II):

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): Jack Allen

Date: 1/9/53

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

Date: 1/15/53

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

Date: 1/30/53

Control checked by (III): A. Queen

Date: 2/3/53

Radial Plot or Stereoscopic Control extension by (III):

H. R. Rudolph

Date: 2/11/53

Stereoscopic Instrument compilation (III):

Planimetry

Date:

Contours

Date:

Manuscript delineated by (III): Ruth M. Whitson

Date: 3/9/53

revised 26 Jan. 1954

Photogrammetric Office Review by (III): R. Glaser

Date: 3/11/53

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

Date:
PHOTOGRAPHS (III)

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<td>1:10,000</td>
<td>Not available</td>
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</table>

Tide (III)

From Predicted Tables

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

Washington Office Review by (IV): 

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 20 Mi.
Shoreline (More than 200 meters to opposite shore) (III): 8 Mi.
Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 4
Number of BMs searched for (II): None
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): 6

Remarks:

* Stations
  Established 1952: 13
  Identified: 10
SHORELINE MAPPING PROJECT PH-87
Tuxekan Passage & Sumner Strait, ALASKA

OFFICIAL MILEAGE FOR COST ACCOUNTS

<table>
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<tr>
<th>SHEET NO.</th>
<th>AREA SQ. MILES</th>
<th>LIN. MILES</th>
<th>SHORELINE</th>
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<td>T-11102</td>
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<td>T-11103</td>
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<td><strong>TOTALS</strong></td>
<td><strong>201</strong></td>
<td><strong>201</strong></td>
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</table>
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 south-west 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 included establishment of control; delineation of shoreline, rocks, and shoals on 1:20,000 photographs; and descriptive notes for along-shore features. In 1953 additional inspection was accomplished. This information was added to the previously delineated manuscript.

T-11102 includes that part of Tuxekan Passage included between 55° 47½' and 55° 51', the Stoney Island, Stoney Creek area.
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR Y-COORDINATE</th>
<th>LONGITUDE OR X-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>KRAUSE, 1952</td>
<td>Field Comp. Unadj.</td>
<td>1927</td>
<td>55 50</td>
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1 FT. = 304.8006 METER

COMPUTED BY: J. C. Cregan
DATE: 26 January 1953
CHECKED BY: E. L. Williams
DATE: 29 January 1953
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<td>133</td>
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<td>(165.0)</td>
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1 FT. = 0.3048008 METER

COMPUTED BY: J. C. Cregan  DATE: 26 January 1953  CHECKED BY: E. L. Williams  DATE: 29 January 1953
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.

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 navy photographs furnished for this project were not very satisfactory as regards definition of detail. This may be partly due to the ratio of enlargement. Where there was no definite field data indicating rock ledge alongshore, it was difficult to distinguish this feature from sand, boulders and gravel.

Field information at 1:20,000 scale was transferred to office photographs at 1:10,000 scale by use of the projector in preparation for delineation. Field information was also transferred from office photograph to office photograph stereoscopically to avoid use of tilted or distorted photographs.

Due to inadequate photo coverage, the character of the alongshore features to the north and to the south of control station CLIP, 1952 cannot be determined, and is incomplete.

The shoreline of Karheen Passage in the SW corner of this survey was not delineated because of weakness in the radial plot. Refer to paragraph 23 of the Photogrammetric Plot Report.

32. CONTROL

The density and placement of horizontal control was adequate but identification was doubtful at some stations. Refer to Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours:
Inapplicable

Drainage:
No comment.
35. SHORELINE AND ALONGSHORE DETAIL

The shoreline inspection was adequate.

Delineation of low water, shallow areas, shoal and reef lines, ledge features and rocks awash, is based on data furnished by the field party supplemented by office interpretation.

36. OFFSHORE DETAILS

Six (6) sextant fixes were plotted on rocks awash, shoal areas and ledges in the area of Stanley Island. They agreed closely with the positions of the features on the low water photographs.

Numerous reef and ledge areas were delineated from office interpretation.

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

Six (6) photo-hydro stations were located.

A list of the photo-hydro stations has been prepared and are included in paragraph 49.

39. JUNCTIONS

Junctions to the north with Surveys No. T-11100 and T-11101, and to the south with Survey No. T-11103 are in agreement.

There are no contemporary Surveys to the east and west.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. through 45

Inapplicable.
46. **COMPARISON WITH EXISTING MAPS**

None were available at the compilation office.

47. **COMPARISON WITH NAUTICAL CHARTS**

Comparison has been made with Chart No. 8171, scale 1:40,000, published June 1947; and corrected to August 4, 1952.

Items to be applied to nautical charts immediately:

None

Items to be carried forward:

None

Respectfully submitted
9 March 1953

[Signature]

Ruth M. Whitson
Cartographic Photo Aid

Approved and forwarded

[Signature]

Jack C. Sammons,
Officer in Charge
48. GEOGRAPHIC NAME LIST

Prince of Wales Island

Stanley Creek
Stanley Island

Tuxekan Island
Tuxekan Passage

* Name used by the Fish and Wildlife, and Forestry Services and recommended by the field party for charting.

New names from project names report

Ahtun Point
Nundeic Cove
Yahku Cove
Yugun Point
Kleiti Islands
Chusini Cove
Kladain Flats
Kussan Point
Surun Cove
Nichin Cove  Misspelled on sheet 2/30/63

Names approved 4-6-54, L. Heck
NOTES TO HYDROGRAPHER

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

The following is a list of Photo-hydro Stations:

No. 003 - Outermost of three (3) trees on projecting point.
No. 004 - Two (2) moss covered trees on grassy flat.
No. 005 - Tallest of two (2) trees on islet.
No. 006 - NW'ly tree on outer corner of semi-detached islet.
No. 007 - Easternmost tree of group (there are taller trees slightly detached from station tree).
No. 008 - Outermost tree on corner point (slightly detached from other trees).
NOTES TO REVIEWER
Project Ph-87

- Ref coordinates
PHOTOGRAMMETRIC OFFICE REVIEW
T-11602


CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy  6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)  7. Photo hydro stations  8. Bench marks

ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES
31. Boundary lines  32. Public land lines

MISCELLANEOUS

Reviewer

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:
Shoals & Ledges  T-11/10  FL photo 1915,5'  1:20,000

1. Shoal 18 ft depth @ 08:45 9-5-35 (Heli covers this)
   Approx Fix: Δ Clip 36° 45'
   Jigs 8° 4° Lester/Jigs 12° 18'
   Brown 53° 38'

2. Rh R/W (Uncov 6 ft @ 09:00 9-5-35) → (4)

3. Shoal 10 ft depth @ 09:00 9-5-35 (Heli covers this)
   Approx Fix: Δ Clip 20° 05'
   Jigs 4° 4° Lester/Jigs 06° 35'
   Brown 34° 30'

4. Rh R/W (Uncov 3 ft @ 09:10 9-5-35) → Rh HLLW
   Fix: Δ Jigs 46° 46'
   Brown 90° 10'
   Naukati 65° 20'

5. Rh R/W (reef Uncov 3 ft @ 09:30 9-5-35) → (3)
   Fix Δ Brown 122° 01
   Naukati 4° 40'
   Creek 81° 40'

6. Rock uncev 6 ft @ 09:42 9-5-35 → (6)
   Δ Brown 96° 50'
   Naukati Creek 96° 24'

(Above angles were taken during storm with poor visibility and may be slightly in error. Most shoal spots are visible on photo and fixes were taken to corroborate them. R.A.G.)
REVISION REPORT
T-11102
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 part of the Descriptive Report for Survey T-11100.

The shoreline changes, shown in red on the manuscript, were taken from Graphic Control Sheet FA-B-53.

The foreshore changes were obtained from 1953 Field Inspection and inked in red on the manuscript.

Respectfully submitted
25 January 1954

Frank J. Tarcza,
Super. Carto. (Photo)

Approved and Forwarded

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

This map manuscript was originally compiled by the aid of 1952 field inspection notes on 1948 photographs. In 1953 additional field inspection was carried out, and the map manuscript was revised to include the newer information on the photographs and on planetable survey PA-B-53.

62. Comparison with Registered Topographic Surveys

T-2692 1:20,000, 1904, with contours. Datum not recorded. Sea Otter Island, Tuxekan Passage.

Except for position the older survey is in good general agreement with T-11102 for shoreline, islets, and rocks. Because the present survey is delineated from new detailed field inspection and is supplemented by contemporary hydrographic surveys T-11102 supersedes the older survey, except for contours, for charting purposes.

63. Comparison with Maps of other Agencies:

USGS CRAIG (d-4) 1:63,360, 1951

This quadrangle was compiled by multiplex from the 1948 photographs, probably without benefit to field inspection. Differences in scale prevent more than a general agreement in shoreline detail. Hydrographic data are from C.& G.S. charts.

64. Comparison with Contemporary Hydrographic Surveys

H-8036 1:10,000, 1953 (PA-1153)
H-8037 1:10,000, 1953 (PA-1253)

These surveys are not available for comparison.

65. Comparison with Nautical Charts

8171 1:40,000 June 1947, Rev. Aug. 1952

Tuxekan Passage has not been fully charted. The present survey, together with the hydrographic surveys supersedes the charts for shoreline and offshore features in Tuxekan Passage.
66. **Accuracy**

T-11102 Conforms to project instructions and meets the National Standards of Map Accuracy.

Reviewed by:

Lena T. Stevens

Approved by:

L. A. Lande
Chief, Review Section
Division of Photogrammetry

May B. Belkett
Chief, Nautical Chart Branch
Division of Charts

Paul Swenson
Chief, Div. of Photogrammetry
15 July 54

Chief, Div. of Coastal Surveys
SURVEY NO. T-11102

Record of Application to Charts

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<tr>
<th>DATE</th>
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<tr>
<td>10-12-65</td>
<td>5171</td>
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<td>12-11-72</td>
<td>8157</td>
<td>C.J. Frider</td>
<td>Before After Verification and Review</td>
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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.