# Descriptive Report

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>SHORELINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>Office No.</td>
</tr>
</tbody>
</table>

## Locality

- **State**: ALASKA
- **General locality**: PRINCE WILLIAM SOUND
- **Locality**: BLUE FIORD

- **1954**

## Chief of Party

- **Office**: L. W. Swanson

## Library & Archives

**DATE**
DATA RECORD

T - 9125

Project No. (II): 6152

Field Office (II):

Photogrammetric Office (III): Washington, D.C.

Instructions dated (II) (III):
31 December 1954
11 February 1955 Supp. 1
14 March 1956 Supp. 2

Chief of Party: L.W. Swanson

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): 1.0

Date received in Washington Office (IV): 9-18-54

Date reported to Nautical Chart Branch (IV): 9-15-56

Applied to Chart No. Date: Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N. A. 1927

Vertical Datum (III): M.H.W.

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (2) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III):

Adjusted

Lat.: Long.: Unadjusted

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): None

Date:

Planetable contouring by (II): None

Date:

Completion Surveys by (II): None

Date:

Mean High Water Location (III) (State date and method of location):
Identified by office inspection on 26 July 1954 photographs.

Projection and Grids ruled by (IV): A. Riley

Date: 1/10/55

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

Date: 1/10/55

Control plotted by (III): B. Hale

Date: 6/26/56

Control checked by (III):

Date:

Radial Plot or Stereoscopic: J. Battley - R. Sugden

Date: 7/3/56

Control extension by (III):

Date:

Stereoscopic Instrument compilation (III):

Planimetry

Date:

Contours

Date:

Manuscript delineated by (III): R. L. Sugden

Date: 9/10/56

Photogrammetric Office Review by (III):

Date:

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

Date:
<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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</thead>
<tbody>
<tr>
<td>2440-3</td>
<td>26 July 1954</td>
<td>1417</td>
<td>1:30,000</td>
<td>4.7</td>
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<tr>
<td>2380</td>
<td>&quot;</td>
<td>1234</td>
<td>1:30,000</td>
<td>6.6</td>
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<tr>
<td>2484</td>
<td>&quot;</td>
<td>1444</td>
<td>1:30,000</td>
<td>4.3</td>
</tr>
</tbody>
</table>

**Tide (III)**

Reference Station: Cordova, Alaska
Subordinate Station: Culross Bay

Atlantic Marine Center
Washington Office Review by (IV): C. H. Bishop

Final Drafting by (IV):
Drafting verified for reproduction by (IV):
Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 15 mi.
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:
<table>
<thead>
<tr>
<th>Compilation Record</th>
<th>Completion Date</th>
<th>Remarks</th>
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</thead>
<tbody>
<tr>
<td>Shoreline for hydrography; INCOMPLETE</td>
<td>Sept. 1956</td>
<td></td>
</tr>
</tbody>
</table>
SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-9125

Records for this map were not complete at the time of Final Review, which is several years after compilation. The Compilation Record and notes concerning the absence of reports were inserted by the final reviewer.

This shoreline manuscript, scale 1:10,000, is one of 43 maps that comprise Project PH-152, which is in the western part of Prince William Sound. T-9125 includes Blue Fiord and the south end of McClure Bay.

Compilation was by radial plot at 1:10,000 scale, using ratio prints of 1954 single-lens photography and both field and office identified control. There was no field inspection and no record of field edit.

Final review was done at the Atlantic Marine Center in October 1970.

The compilation manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 11 minutes 15 seconds in longitude.

A cronaflex copy of the final reviewed manuscript and a negative have been forwarded for record and registry.
FIELD INSPECTION REPORT

MAP T-9125

PROJECT PH-152

There was no field inspection prior to compilation of this map and no Field Inspection Report is bound with this Descriptive Report.
21. AREA COVERED:

This report discusses the radial plot for shoreline surveys T-9119, T-9121 to T-9126, inclusive, at a scale of 1:10000. These surveys fall in the area of Port Meliss Juan of Prince William Sound and include McChesney Bay and a portion of Cochran Bay.

22. METHOD:

Vynilite manuscripts with polyconic projection and UTM grid lines were used as base sheets for the plot. The grid lines were used in joining the base sheets.

Positvye prints of Coast and Geodetic Survey single-lens photographs taken in 1964 were used throughout the plot. Vynilite hand templates were constructed using a master template to correct for paper distortion.

The plot was begun in T-9122 where field identified control was adequate for fixing individual templates. The plot was extended to include all surveys except T-9119 where no field-identified control was available. The area of T-9119 was not included in the plot until after final adjustment was made in the area of field-identified control.

Difficulties experienced in extending the plot resulted from errors in control identification—field and office—and in template construction using badly distorted photographs. One triangulation station (Tiger 1943) initially could not be held because of a published error in the direction of a reference mark (Geodesy Division records were corrected). All discrepancies in the plot were eventually resolved.

23. ACCURACY OF CONTROL:

The area of T-9119 was controlled principally from office-identified triangulation stations. The plot was fairly rigid in this area and field identification of control should affect little shift in position.
Control was adequate to obtain as rigid a plot as could be expected with the spacing of single-line photography which existed for this area. Stations not closely held were the result of logical causes. (See attached list of control.) Also other control which held was available for all such areas.

24. **SUPPLEMENTARY DATA:**

None.

25. **PHOTOGRAPHY:**

Flights were spaced such that there was little overlap between them. Also, there were many photographs in water areas. However, control was plentiful enough that extension of the plot was possible even though the above deficiencies existed.

The western part of T-912 was not covered by photographs and approximately two miles of shoreline cannot be compiled until additional photography is available.

Submitted by:  

Jeter P. Battley, Jr.

Jeter F. Battley, Jr.
Cartographer

Approved:  

Everett H. Ramsey
Chief, Geodetic Compilation Unit
### T-2119

**Wain, 1942**  
1.5 E  

T-2119 is the position for a very doubtful office identification. A ray feature which fits the station description plots at the published position.

**Units, 1942**  
Held (Office identified only)

### T-2123

- **Silt, 1943**  
  Held
- **Hall, 1943 Sub. Pt.**  
  0.3 mm N
- **Negat, 1943**  
  0.5 mm N (2 radials only)
- **Port, 1947**  
  Held
- **Ross, 1947 Sub. Pt.**  
  Held
- **Clive, 1942**  
  1.0 mm NE
- **Airc, 1943 Sub. Pt.**  
  Held

*Poor field identification. Area of station obscured on photograph.*

### T-2122

- **Yield, 1943 Sub. Pt.**  
  Held
- **Cody, 1943 Sub. Pt.**  
  Held
- **Lipa, 1943**  
  Held**
- **Xylon, 1943 Sub. Pt.**  
  0.3 mm NE
- **Fancy, 1943**  
  0.4 mm NEM
- **Junk, 1943**  
  Held
- **Orgen, 1943 Sub. Pt.**  
  Held
- **Finzi, 1943**  
  Held
- **Keel, 1943 Sub. Pt.**  
  Held
- **Lis, 1943 Sub. Pt.**  
  0.3 mm E (2 radials only)
- **Hace, 1943 Sub. Pt.**  
  Held (2 radials only)
- **Navel, 1943**  
  Held

*Field identified point would not hold. Point on nearby reef which checked description was used and held.*

**Field identified substitute station would not hold. Office identified home station was held closely as indicated.*

### T-2123

- **Land, 1947**  
  Held
- **Unit, 1943 Sub. Pt.**  
  Held
T-9123 (continued)

Tert, 1942
Incuna J. Sub. Pt. 1942 Held
Valor, 1942 Sub. Pt. 0.3 mm S
Mills, 1942 Sub. Pt. Held

T-9124

Bill (III), 1942 Sub. Pt. Held
One, 1943 Sub. Pt. 0.3 mm E (2 radials – narrow intersection)
Neck, 1943 Sub. Pt. 1.0 mm E

(Investigation, after plot was completed, revealed a point which fits the description by the field party and would have held in the plot. Evidently, the sub station was misidentified by field.)

T-9125

Fear, 1943 Sub. Pt. Held
Nosey, 1948 Held
Adam, 1943 Sub. Pt. Held
Zone, 1943 Held
Judd, 1948 Held (2 radials only)

T-9126

Port Hellia Jua Lts., 1943 Held
Juan, 1917, Sub. Pt. 0.3 mm E
First, 1912, Sub. Pt. Held

No. of Area to be Shown

Jelly, 1943 Held (office identification)
Huck, 1943 Held
Gland, 1943 Sub. Pt. Held (1 radial only)
Said, 1943 Held (1 radial only)
Quake, 1943, Sub. Pt. Held (2 radials)
Minnie, 1943 Sub. Pt.
Lapel, 1943 Sub. Pt. 1.0 mm SS (very doubtful field identification – 3 points pricked on field photograph)

Tiger, 1943 Sub. Pt. A Held
Sub. Pt. B Held
PHOTOGRAMMETRIC PLOT CONTROL SKETCH

△ Field identified stations held
△ Field identified stations not held
○ Office identified stations held
○ Office identified stations not held
□ Topographic stations located by aerial plot

NOTE: All stations not dated are 1943
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR $\phi$-COORDINATE</th>
<th>LONGITUDE OR $\lambda$-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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<tbody>
<tr>
<td>Money, 1948</td>
<td>VI 36</td>
<td>NA 1927</td>
<td>60 29 24.370</td>
<td>148 16 02.251</td>
<td>1857.05</td>
<td>754.30</td>
<td>(1102.75)</td>
<td></td>
</tr>
<tr>
<td>Zone, 1948</td>
<td>VI 40</td>
<td>n</td>
<td>60 26 41.266</td>
<td>148 15 18.095</td>
<td>1857.04</td>
<td>1276.5</td>
<td>(580.56)</td>
<td></td>
</tr>
<tr>
<td>Adam, 1948</td>
<td>VI 40</td>
<td>n</td>
<td>60 27 46.278</td>
<td>148 15 33.581</td>
<td>1857.04</td>
<td>1432.4</td>
<td>(444.64)</td>
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<tr>
<td>Quad, 1948</td>
<td>VI 40</td>
<td>n</td>
<td>60 28 13.698</td>
<td>148 13 57.750</td>
<td>1857.04</td>
<td>424.00</td>
<td>(1433.04)</td>
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<tr>
<td>Pear, 1948</td>
<td>VI 40</td>
<td>n</td>
<td>60 29 27.538</td>
<td>148 14 39.889</td>
<td>1857.05</td>
<td>852.03</td>
<td>(1005.02)</td>
<td></td>
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<tr>
<td>Sub Station</td>
<td>GS 1 Card</td>
<td>n</td>
<td>60 29</td>
<td>148 14</td>
<td>1857.0</td>
<td>835.8</td>
<td>(1021.2)</td>
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<tr>
<td>Sub. Station</td>
<td>Card</td>
<td>n</td>
<td>60 27</td>
<td>148 15</td>
<td>1857.0</td>
<td>1440.7</td>
<td>(416.3)</td>
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<tr>
<td>Sub. Station</td>
<td>Card</td>
<td>n</td>
<td>60 28</td>
<td>148 13</td>
<td>1857.0</td>
<td>429.4</td>
<td>(1427.6)</td>
<td></td>
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<tr>
<td>Peak 109, 1948</td>
<td>VI 83</td>
<td>n</td>
<td>60 27 04.74</td>
<td>148 17 38.92</td>
<td>1857.0</td>
<td>146.7</td>
<td>(1710.34)</td>
<td></td>
</tr>
</tbody>
</table>

1 FT. = 304.8000 METER

COMPUTED BY: B. Hale  DATE: 6 April 1956  CHECKED BY: D. Carrier  DATE: 7 April 1956
31. Delineation - The manuscript was compiled by graphic methods using the projector to bring the compilation work sheets to the manuscript scale. Shoreline was delineated by office interpretation of the photographs without the benefit of field inspection.

The photography covering the west shore of Blue Fiord was poor in places with the shoreline obscured by shadows; hence the approximate MHWL symbol was used.

32. Control - Control was adequate for compilation purposes. For discussion of control see photogrammetric plot report filed with Descriptive Report T-9121.

32. and 34 - Applicable.

35. Shoreline and alongshore features - There was no shoreline inspection to aid in interpreting MHWL, MLWL or other alongshore features. The larger foreshore flats were included within shallow areas.

The MHWL and datum of rocks, reefs etc. were interpreted by utilizing the tide information and applying it to the photographs.

36. Offshore details - Inapplicable.

37. Landmarks and aids - None

38. Control for future surveys - None

39. Junctions - Junctions have been made with manuscripts T-9123 to North and T-9124 to West. There are no surveys to the South and East.

40. Horizontal and Vertical Accuracy - See 32 above. There are no areas considered subnormal. Vertical accuracy inapplicable

41. through 45. Inapplicable.

46. Comparison with existing maps.

Seward (B-4) Alaska, USGS, 1:63,360, 1952
T-3676 Scale 1:20,000, 1917

The two surveys (T-3676 and Seward B-4) are in general agreement with T-9125. As field inspection was lacking no detailed comparison was made.
47. **Comparison with Nautical Charts**

8551 Prince William Sound, 1:200,000 1952
8517 Prince William Sound, (Western Part) 1:80,000, 1950,
**Corr. to 52-1/7.**

Items to be applied to nautical charts immediately - none.
Items to be carried forward - None.

Submitted by:

Robert L. Sugden
Robert L. Sugden, Cartographer

Approved:

E. W. Fanning
Chief, Graphic Compilation Unit
August 28, 1970

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-152 (Alaska)

T-9125

Blue Fiord
Chugach National Forest
Division Point
McClure Bay

Approved by:

A. Joseph Wraith
Chief Geographer

Prepared by:

Frank W. Pickett
Cartographic Technician
49. Notes for the Hydrographer:

No notes for the hydrographer were with this report at the time of final review.
FORM 1002(T-2) PHOTOGRAMMETRIC OFFICE REVIEW

MAP T-9125

PROJECT PH-152

No Form 1002(T-2) was available at the time of final review and none is bound with this Descriptive Report.
FIELD EDIT REPORT

MAP T-9125

PROJECT PH-152

No record of field edit was available at the time of final review; therefore, no Field Edit Report is bound with this Descriptive Report.
REVIEW REPORT T-9125

SHORELINE

OCTOBER 8, 1970

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

An ozalid comparison print, (pages 21 through 23), showing differences with other surveys is bound with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with Survey T-3676, scale 1:20,000, dated 1917. This survey was apparently on Valdez Datum. Only the south end of McClure Bay is common to both maps and only this area was compared.

Because there was no control in the comparison area, a projection based on N.A. 1927 datum was constructed on T-3676, using the position of station C706R 1917 for the datum difference. This projection was matched to the projection on T-9125, using the vertical projector, and the T-3676 shoreline was traced on the comparison print.

In horizontal position, the comparison was poor; in form, the general shape of the shoreline compares more favorably.


T-9123 supersedes T-3676 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with U.S.G.S. Quadrangle SEWARD (B-4), ALASKA, scale 1:63,360, dated 1951. No significant difference was noted.
64. **COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:**

A comparison was made with Survey H-8595, scale 1:10,000, dated 1961. Apparently T-9125 was used as a base map for shoreline in the area compared.

A rock awash at approximate latitude 60° 29.6', longitude 148° 14.8' was not visible on the photographs and is not shown on T-9125.

65. **COMPARISON WITH NAUTICAL CHARTS:**

A comparison was made with Chart 8517, scale 1:80,000, 9th edition, dated April 28, 1969. No significant differences were noted.

66. **ADEQUACY OF RESULTS AND FUTURE SURVEYS:**

This survey complies with Job Instructions, Bureau requirements, and the National Standards for Map Accuracy. No accuracy tests were run in the field.

Reviewed by:

Charles H. Bishop
Cartographer
October 8, 1970

Approved:

Allen L. Powell, RADM, USESSA
Director, Atlantic Marine Center

Approved:

Chief, Photogrammetric Branch

Chief, Division of Photogrammetry
COMPARISON PRINT

Brown = SEWARD (B-4)
Purple = H-8595
COMPARISON PRINT

Blue = T-3676
Brown = SEWARD (B-4)
COMPARISON PRINT
Blue = T-3676
Brown = SEWARD (B-4)
Purple = H-0595
# Nautical Charts Branch

**Survey No. 9125**

## Record of Application to Charts

<table>
<thead>
<tr>
<th>Date</th>
<th>Chart</th>
<th>Cartographer</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-4-58</td>
<td>8517</td>
<td>R.E. Elkins</td>
<td>Incomplete manuscript</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Before After Verification and Review</td>
</tr>
<tr>
<td>11/1/71</td>
<td>8517</td>
<td>E Frey</td>
<td>Revised shoreline at Blue Heron &amp; McClure Bay</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Before After Verification and Review</td>
</tr>
<tr>
<td>6/17/72</td>
<td>8551</td>
<td>M.D. Lewis</td>
<td>Examined for critical corrections only — no revisions</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Before After Verification and Review</td>
</tr>
</tbody>
</table>

*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.*