U. S. COAST AND GEODENTIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Photogrammetric Shoreline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>Office No. T-9126</td>
</tr>
</tbody>
</table>

LOCALITY

- State: Alaska
- General Locality: Prince William Sound
- Locality: Foul Bay

1954:

CHIEF OF PARTY
Office: L. W. Swanson

LIBRARY & ARCHIVES
DATE
DATA RECORD

T-9126

Project No. (II): 6152 Quadrangle Name (IV):

Field Office (II): Chief of Party:


Instructions dated (II) (III): 31 December 1954 Copy filed in Division of
11 February 1955 Supp. 1 Photogrammetry (IV)
14 March 1956 Supp. 2

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): 9-11-55 Date reported to Nautical Chart Branch (IV): 9-28-56

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

Publication Scale (IV):

Geographic Datum (III): N.A. 1927 Publication date (IV):

Vertical Datum (III): M.H.W.
Mean sea level except as follows:
Elevations shown as [25] refer to mean high water
Elevations shown as [25] refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III):

Lat.: Long.: Adjusted
Unadjusted

Plane Coordinates (IV): State:

Y= Zone:

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):                      Date:

Planetable contouring by (II):                None                      Date:

Completion Surveys by (II):                   None                      Date:

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

Office inspection of photographs taken 26 July 1954

Projection and Grids ruled by (IV): A. Riley Date: 12-17-54
Projection and Grids checked by (IV): H. D. Wolfe Date: 1-7-55
Control plotted by (III):                     B. Hale       Date: 6-26-56
Control checked by (III):                     G. Amburn      Date: 6-28-56

Radial Plot of Stereoscopic
J. Battley - R. Sugden                      Date: 7-3-56

Planimetry

Stereoscopic Instrument compilation (III):

Contours

Manuscript delineated by (III): G. Amburn      Date: 7-9-56

Photogrammetric Office Review by (III):

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

Form T-Page 3
PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide (MLLW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2376-7</td>
<td>26 July 1954</td>
<td>1234</td>
<td>1:30,000</td>
<td>6.6</td>
</tr>
</tbody>
</table>

Tide (III)

Reference Station: Cordova, Alaska
Subordinate Station: Culross Bay

Atlantic Marine Center

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

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):
Number of BMs searched for (II):
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III):

Remarks:

Form T-Page 4
<table>
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<tr>
<th>Compilation Record</th>
<th>Completion Date</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>INCOMPLETE manuscript for hydro support</td>
<td>July 1956</td>
<td></td>
</tr>
<tr>
<td>Final Review</td>
<td>August 1970</td>
<td></td>
</tr>
</tbody>
</table>
SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-9126

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

This shoreline manuscript is one of 43 sheets that comprise Project PH-152, which is located in the western part of Prince William Sound. T-9126 is southeast of the east end of Port Nellie Juan.

Compilation was by radial plot at 1:10,000 scale, using ratio photographs from 1954 single-lens photography. There was no field inspection and no data available stating that field edit had been performed. Classification of the manuscript is "Incomplete."

Hydro-support data was furnished to the hydrographer in 1961.

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

The compilation manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 4 minutes 37.5 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-9126

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 1:10,000. These surveys fall in the area of Fort Nellie Juan of Prince William Sound and include McClure Bay and a portion of Cochran Bay.

22. METHOD:

Vinylite 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.

Positotype prints of Coast and Geodetic Survey single-lens photographs taken in 1954 were used throughout the plot. Vinylite 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 (Geodetic Division records were corrected). All discrepancies in the plot were eventually resolved.

23. ALLOTTMENT 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-lens photography which existed
for this area. Obliques not closely held were the result of local
causes. (See attached list of control) Also other control which
held was available for all such areas.

24. **SUPPLEMENTAL 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-0122 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 P. Battley, Jr.
Cartographer

Approved:

Everett H. Ramsey

Everett H. Ramsey
Chief, Graphic Compilation Unit
T-9219

Main, 1942
1.5 SR
This : at the position for a very important office
identification. A way feature which fills the station
description plots at the published position.

mites, 1942
Held (Office identified only)

T-9221

Silt, 1943
Held
Hall, 1917 Sub. Pt.
0.3 mm E
Nagat, 1943
0.5 mm N (2 radials only)
Fort, 1917
Held
Ross, 1917 Sub. Pt.
Held
Clive, 1948
1.0 mm NE

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

T-9222

Yield, 1943 Sub. Pt.
Held
Judy, 1943 Sub. Pt.
Held
Lina, 1943
Held*
Xylan, 1943 Sub. Pt.
0.3 mm NE
Penny, 1943
0.4 mm NE**
Junk, 1943
Held
Garin, 1943 Sub. Pt.
Held
Fini, 1927
Held
Held
Liar, 1943 Sub. Pt.
0.3 mm E (2 radials only)
Mace, 1943 Sub. Pt.
Held (2 radials only)
Macle, 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-9223

Lace, 1917
Held
Unit, 1943 Sub. Pt.
Held
### E-3022 (continued)

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<thead>
<tr>
<th></th>
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<tr>
<td>Held</td>
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<table>
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<tbody>
<tr>
<td>Neck</td>
<td>Held</td>
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</table>

- 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

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### T-9126

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### H. of Area to be Named

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<tbody>
<tr>
<td>Held</td>
<td>Held (office identification)</td>
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<table>
<thead>
<tr>
<th>Sub. Pt.</th>
<th>Sub. Pt. (1 radial only)</th>
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<tbody>
<tr>
<td>Held</td>
<td>Held (1 radial only)</td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Held</td>
<td>Held (2 radials)</td>
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<table>
<thead>
<tr>
<th>Sub. Pt.</th>
<th>Sub. Pt. (1.0 mm E)</th>
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<tbody>
<tr>
<td>Held</td>
<td>Held (3 points pricked on field photograph)</td>
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<table>
<thead>
<tr>
<th>Sub. Pt.</th>
<th>Sub. Pt. (A)</th>
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<thead>
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<th>Sub. Pt.</th>
<th>Sub. Pt. (B)</th>
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</table>
PHOTOGRAMMETRIC PLOT CONTROL SKETCH

Field identified stations held
\[\triangle\] Field identified stations not held
\[\circ\] Office identified stations held
\[\triangletriangle\] Office identified stations not held
\[\square\] Topographic stations located by radial plot

NOTE: All stations not dated are 1948
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR ( \phi )-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</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>
</tr>
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<tbody>
<tr>
<td>End, 1913</td>
<td>VI 39</td>
<td>NA 1927</td>
<td>60 35 47.496</td>
<td>1857.07</td>
<td>1470.0 (387.07)</td>
<td>913.2</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>148 04 50.431</td>
<td>913.2</td>
<td>767.6 (145.6)</td>
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<tr>
<td>First, 1912</td>
<td>VI 92</td>
<td></td>
<td>60 34 15.489</td>
<td>1857.07</td>
<td>479.4 (1377.67)</td>
<td>913.9</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>148 02 52.867</td>
<td>913.9</td>
<td>805.3 (108.6)</td>
<td>805.3</td>
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<tr>
<td>First Sub. Station</td>
<td>GS 1 Card</td>
<td></td>
<td>60 34</td>
<td>1857.07</td>
<td>417.1 (1409.97)</td>
<td>913.9</td>
</tr>
<tr>
<td>Port Nellie Juan Lt. 1948</td>
<td>VI 40 Card</td>
<td></td>
<td>60 35 53.918</td>
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<td>1668.82 (188.25)</td>
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<tr>
<td></td>
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<td>148 06 00.094</td>
<td>913.2</td>
<td>1.4 (911.8)</td>
<td>1.4</td>
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<td>Sub. Station Juan, 1917</td>
<td>GS 1 Card</td>
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<td>1535.0 (322.1)</td>
<td>913.2</td>
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<td></td>
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<td>148 06</td>
<td>913.2</td>
<td>413.4 (499.8)</td>
<td>413.4</td>
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<tr>
<td>Juan, 1917</td>
<td>VI 35</td>
<td></td>
<td>60 35 49.604</td>
<td>1857.1</td>
<td>1535.3 (321.8)</td>
<td>913.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>148 06 27.092</td>
<td>913.2</td>
<td>412.3 (500.9)</td>
<td>412.3</td>
</tr>
</tbody>
</table>

1 ft. = 0.3048006 meter

COMPUTED BY: B. Hale DATE: 22 May 1956
CHECKED BY: E. H. Ramey DATE: 22 May 1956
31. **Delineation:**

Shoreline and foreshore features were delineated from office stereoscopic interpretation without benefit of field inspection.

Features shown were first drawn on a piece of vinylite superimposed on the photograph with the most nearly true scale. Graphic methods were then used to compile and delineate the MHWL and to adjust the planimetry to manuscript scale by holding the compilation points of near-sea-level elevation.

32. **Control:**

See Photogrammetric Plot Report which is filed as part of Descriptive Report for T-9121 for discussion of control.

33. **Supplemental Data:** None

34. **Contours and Drainage:** Not applicable.

35. **Shoreline and Alongshore Details:**

See delineation, Sub-Heading 31.

36. **Offshore Details:**

Compiled by stereoscopic examination and are subject to revision by field inspection.

37. **Landmarks and Aids:** Port Nellie Juan Light falls within this map area. Form 567 is attached.

38. **Control for Future Surveys:**

None

39. **Junctions:**

North, South, East: No contemporary Surveys
West: T-9121

40. **Horizontal and Vertical Accuracy:**

No areas appear to be sub-normal in accuracy.

46. **Comparison with Existing Maps:**

Seaward (c-3) 1:63,360, Alaska 1952 USGS
Planetable sheet No. 34:26 1:20,000, Dated 1909
47. **Comparison with Nautical Charts**

The manuscript was compared with nautical chart No. 8551, scale 1:200,000, published 1909, corrected 5-31-54. This manuscript supersedes previously charted shoreline.

Items to be applied to nautical charts immediately: None

Items to be carried forward: Entire survey is subject to field completion or revision.

Submitted by:

[Signature]
Garnett S. Amburn

Approved by:

[Signature]
Everett H. Ramey
August 28, 1970

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-152 (Alaska)

T-9126

Chugach National Forest

Foul Bay

Prince William Sound

Approved by:

A. Joseph Wraits
Chief Geographer

Prepared by:

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

Shoreline and offshore features were compiled from a stereoscopic study of aerial photographs. They should be revised or completed by a field check.
FORM 1002(T-2) PHOTOGRAMMETRIC OFFICE REVIEW

MAP T-9126

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-9126

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

The positions given have been checked after listing by

<table>
<thead>
<tr>
<th>STATE</th>
<th>ALASKA</th>
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<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>PRINCE WILLIAM SOUND</td>
<td>Port Nellie Juan Light 1948</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 8-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

---

* Tabulate seconds and meters
61. **GENERAL STATEMENT:**

   See Summary on page 6 of this Descriptive Report.

   An ozalid comparison print (pages 21 through 23), with differences noted in Items 62 through 65, is included with the original of this report.

62. **COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:**

   A comparison was made with Survey T-3426, scale 1:20,000, dated 1913, and with Survey T-3676, scale 1:20,000, dated 1917. Differences between these surveys and T-9126 are shown on the comparison print with blue pencil.

   The general trend of the shoreline is about the same, but the position of the mean high water line does not compare well. Numerous rocks are shown on the registered survey that are not visible on the photographs and do not appear on T-9126.

   T-9126 supersedes previous topographic surveys for chart construction purposes.

63. **COMPARISON WITH MAPS OF OTHER AGENCIES:**

   Because of the large difference in scale, only a visual comparison was made with U.S.G.S. Quadrangle SEWARD (C-3), ALASKA, scale 1:63,360, dated 1952. No significant differences were noted and none are shown on the comparison ozalid.

64. **COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:**

   A comparison was made with an unverified copy of the smooth sheet for H-8606, which covers a small area of T-9126 in the vicinity of Port Nellie Juan Light. Differences between H-8606 and T-9126 are shown in purple on the comparison print.
65. **COMPARISON WITH NAUTICAL CHARTS:**

A visual comparison was made with Chart 8517, scale 1:80,000, 9th edition, dated April 28, 1969. Differences between this chart and T-9126 are shown in red on the comparison ozalid.

A rock awash indicated on the chart at latitude 60°36.0', longitude 148°06.1' is not visible on the photographs.

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  
August 21, 1970

Approved:

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

Approved:

Chief, Photogrammetric Branch  
Chief, Photogrammetry Division
COMPARISON PRINT

Blue = T-3676 and T-3426
Purple = H-8606
Red = Chart 8517

Rks not visible on photos
Also shown on Chart 8517
COMPARISON PRINT
Blue = T-3426

A. Recoverable horizontal control station of third-order or higher accuracy
B. Approximate mean lower low water line
The heavy shoreline defines the approximate mean high water.
Compiled by photogrammetric methods, from aerial photographs
Date of Photography July 1954
Date of Field Inspection See Review Report
Date of Compilation 1956
Date of Field Editor See Review Report
Date of Final Review Aug. 1970

SHORELINE MANUSCRIPT
T-9126
SCALE: 1:10,000
ALASKA
PRINCE WILLIAM SOUND
Foul Bay
<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>E. Elkins</td>
<td>(Incomplete manuscript) Before After Verification and Review Examined - no revisions -</td>
</tr>
<tr>
<td>11/21/71</td>
<td>8517</td>
<td>E. Frey</td>
<td>Before After Verification and Review Examined for critical corrections only - no revisions</td>
</tr>
<tr>
<td>6-20-77</td>
<td>8551</td>
<td>D.M. Perkins</td>
<td>Before After Verification and Review Examined for critical corrections 2 *added</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.