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<th>Office No.</th>
<th>Type of Survey</th>
<th>LOCALITY</th>
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<td>T - 9132</td>
<td>TOPOGRAPHIC</td>
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**State**: ALASKA  
**General locality**: PRINCE WILLIAM SOUND  
**Locality**: PASSAGE CANAL

**1948 - 51**

**CHIEF OF PARTY**  
Glendon E. Boothe - Field  
Hubert A. Paton - Baltimore Photo Office  
Louis J. Reed - Washington Office

**LIBRARY & ARCHIVES**

**DATE**
**DESCRIPTIVE REPORT - DATA RECORD**

**T-9132**

**PROJECT NO. (III):**

PH-152

**FIELD OFFICE (III):**

Ship DERICKSON

**CHIEF OF PARTY**

Glendon E. Boothe

**PHOTOGRAMMETRIC OFFICE (III):**

Baltimore Photo Office
Washington Office

**OFFICER-IN-CHARGE**

Hubert A. Paton
Louis J. Reed

**INSTRUCTIONS DATED (III) (III):**

II Field, dated 28 June 1949

**METHOD OF COMPILATION (III):**

Reading Plotter

**MANUSCRIPT SCALE (III):**

1:20,000

**STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):**

1:20,000

**DATE RECEIVED IN WASHINGTON OFFICE (IV):**

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

**APPLIED TO CHART NO.**

**DATE:**

**DATE REGISTERED (IV):**

**GEOGRAPHIC DATUM (III):**

NA 1927

**REFERENCE STATION (III):**

LIMB 1948

**LAT.:**

60° 48' 25.919"

**LONG.:**

148° 29' 32.047"

**ADJUSTED**

□ UNADJUSTED

**PLANE COORDINATES (IV):**

Y =

X =

**STATE**

**ZONE**

**ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (I) 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.**
## Descriptive Report - Data Record

### T-9132

**Field Inspection by (I):**

Glendon E. Boothe  
Date: 1949

**Mean High Water Location (III):**

1949  
Compiled from aerial photographs taken in 1947 and 1948

**Projection and Grids Ruled by (IV):**

T. L. Janson  
Date: 8-15-50

**Projection and Grids Checked by (IV):**

Date:

**Control Plotted by (III):**

Date:

**Control Checked by (III):**

Date:

**Radial Plot or Stereoscopic Control Extension by (III):**

F. J. Tarcza  
Date: 6-7-50

**Stereoscopic Instrument Compilation (III):**

- **Planimetry:**
  - L. Levin and C. Misfeldt  
  - Date: 1950
- **Contours:**
  - L. Levin and C. Misfeldt  
  - Date: 1950

**Manuscript Delineated by (III):**

J. B. McDonald  
Date: 1950

**Scribing by (III):**

Date:

**Photogrammetric Office Review by (III):**

L. J. Reed  
Date: 1951

**Remarks:**
**DESCRIPTIVE REPORT - DATA RECORD**

**T-9132**

**CAMERA (KIND OR SOURCE) (III):**

**PHOTOGRAPHS (III)**

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<thead>
<tr>
<th>NUMBER</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tr>
<td>19718</td>
<td>27 June 1947</td>
<td>11:54</td>
<td>1:20,000</td>
<td>6 ft. above MLLW</td>
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<tr>
<td>23444, 23445, 23448</td>
<td>2 Sept. 1948</td>
<td>13:42</td>
<td>1:20,000</td>
<td>11 ft. above MLLW</td>
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<tr>
<td>23584 thru 23589</td>
<td>3 Sept. 1948</td>
<td>10:20</td>
<td>1:20,000</td>
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**TIDE (III) (PREDICTED)**

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<th>Whittier, Passage Canal</th>
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<td>Ratio of Ranges</td>
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<tr>
<td>Mean Range</td>
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**REVIEW PERFORMED BY (IV):**
Charles H. Bishop

**DATE:** 6-17-70

**REMARKS:**
Linear Miles of shoreline: 48
Land area: 50
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<tr>
<th>Compilation Record</th>
<th>Completion Date</th>
<th>Remarks</th>
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<tr>
<td>Contours and shoreline</td>
<td>1950</td>
<td></td>
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<tr>
<td>Final review</td>
<td>June 1970</td>
<td></td>
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SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-9132

At the time of final review, which is twenty years after compilation, many of the records concerning this map and some of the photographs from which it was compiled were not available for the final reviewer's use. Data Record Forms 181a, 181b, and 181c, the Compilation Record, and Form 154 Control Record were prepared by the final reviewer. Notes concerning the absence of reports are inserted where the reports should be in this Descriptive Report.

A Compilation Report covering three T-sheets is included as part of this Descriptive Report. It is not dated, nor does the title indicate which maps it covers. The contents indicate that it is for T-9131, T-9132, and T-9133. Items 31 and 35 of this report indicate that there was field inspection. Field photographs indicate that it was done in 1949 by the ship DERICKSON.

Compilation was by Reading Plotter, Model A, using 1:20,000 scale, 9-lens photography taken in 1947 and 1948. All features were delineated simultaneously, using field inspection as a guide during this delineation.

There was no data available stating that Field Edit had been performed, or when it was performed.

Final review was done at the Atlantic Marine Center during June 1970.

The compilation manuscript was a vinylite sheet 7½ minutes in latitude by 20 minutes in longitude.

A cronaflex copy of the final reviewed manuscript and a negative have been forwarded for record and registry.
Field inspection was accomplished in 1949 in conjunction with hydrographic operation in the area. The report on this field inspection was meager and can be found in the 1949 season’s report of the USC & GS Ship DERICKSON, Project CS-277, Prince William Sound, Alaska, Glendon E. Boothe, Chief of Party, Commanding, a copy of which report relative to field inspection follows:

4. Field Inspection of Air Photographs:

Unfortunately air photographs of the area of the working grounds were not available. Under date of 9 Aug 49 instructions were received to make a field inspection of air photographs covering Passage Canal, Wells Passage, Pigot Bay, and heads of Blackstone Bay, Cochrane Bay, Fort Wells, and Cyross Passage. All triangulation stations in the area were recovered, and where possible the station was located on the air photographs. All of the shoreline was inspected from small boats cruising along close to the beach, landings were made as necessary for inspection purposes, the high water line was determined and off-lying rocks were inspected and notes made on the photographs. The usual standard practices for this type of work were used. A new oil dock at Whittier was located by measurement on the ground and placed on the air photograph.
RADIAL PLOT REPORT

21 - 30

See combined descriptive report for map manuscripts T-9131, T-9132, and T-9133, page 8, which report applies here since the same plot covered all six quadrangles.
RADIAL PLOT REPORT

MAP T-9132

PROJECT PH-152

A Radial Plot Report is mentioned in Item 32 of the Compilation Report for T-9131, 9132, and 9133. This plot report was not available at the time of final review and is not bound with this Descriptive Report.

The following sketch (original bound with T-9135) is for the 1950 plot.

July 15, 1970
LAYOUT SKETCH
PROJECT PH-39 (48)
SURVEYS T-9131, T-9132, T-9133,
T-9135, T-9136, & T-9137
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<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>ALSO 1948</td>
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<td>NA 1927</td>
<td>60 46</td>
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<td>AUNT 1947</td>
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<td>60 51</td>
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<td>BOB (U.S.E.) 1947</td>
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<td>BUNT 1948</td>
<td>&quot;</td>
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<td>60 49</td>
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<td>BUR 1913</td>
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<td>148 20</td>
<td>24.673</td>
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<td>CAB 1914</td>
<td>&quot;</td>
<td>&quot;</td>
<td>60 47</td>
<td>34.052</td>
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<td>COCH 1914</td>
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<td>DAB 1913</td>
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<td>DARN 1948</td>
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<td>148 31</td>
<td>38.46</td>
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COMPUTED BY: CHB  DATE: 6-5-70
CHECKED BY: LFB  DATE: 6-5-70
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<th>LONGITUDE (DD.MM)</th>
<th>DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 P = 3048000 METER)</th>
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CHECKED BY: LFB DATE: 6-5-70
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<td>60 50 16.73</td>
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<td>PIGOT 1914</td>
<td>&quot; 6 &quot;</td>
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<td>60 48 05.003</td>
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<td>SHARP REFERENCE MARK</td>
<td>Vol. VI, P. 57</td>
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<td>SY (U.S.E.)</td>
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### DESCRIPTIVE REPORT CONTROL RECORD

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<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>LATITUDE (N, S)</th>
<th>LONGITUDE (E, W)</th>
<th>DISTANCE FROM GRID OR PROJECTION LINE (Ft)</th>
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<tr>
<td>XEBEC 1948</td>
<td>Vol. VI, P. 25, NA 1927</td>
<td>N 60' 46&quot; 49.817'</td>
<td>W 118' 29&quot; 37.532'</td>
<td>1541.9'</td>
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<tr>
<td>XENO 1948</td>
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<td>N 60' 47&quot; 04.150'</td>
<td>W 118' 31&quot; 08.135'</td>
<td>128.5'</td>
</tr>
<tr>
<td>XRAY 1947</td>
<td>&quot; 52 &quot;</td>
<td>N 60' 50&quot; 55.046'</td>
<td>W 118' 23&quot; 46.252'</td>
<td>698.5'</td>
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<tr>
<td>YACHT 1948</td>
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</tbody>
</table>

**Computed by:** CHB  
**Date:** 6-5-70  
**Checked by:** LFB  
**Date:** 6-5-70
31. Delineation:

Shoreline, Contours, and all cultural features were delineated simultaneously on the Reading Plotter, which "A". Inspection was used as a guide during this delineation and applied finally during manuscript compilation. Photo coverage was complete for the area mapped, the area adjacent to the coast to a depth reaching the general line of high peaks beyond which visibility from shipboard is obscured; this did allow the completion of the land area falling within the limits of any one quadrangle. Field inspection was complete as far as it went but did not include the upper reaches of Blackstone Bay, Cochrane Bay, and the shores of Culross Island except for a short distance along its north coast. More area could have been mapped using this same photography had the additional inspector been used along with control identification. Mapped areas are complete within the limits to which the mapping was extended.

32. Control:

Reference side-heading 23 of the Radial Plot Report, para 10 of this report, which deals primarily with horizontal control.

Vertical control for contouring purposes was furnished by the shoreline datum, and by elevations on triangulation stations and distant peaks obtained during triangulation.

Peak No. 66 was found to be badly out-of-position (CP) and has been omitted from the manuscript.

33. Supplemental Data:

(a) Plotting instrument rectified photos:

19713-16, 19718-19, 23443-5, 23447-50, 23454-8, 23584-91, and 23597-603.

(b) Field inspection photos:

19698, 700, 700, 701, 701, 702, 712, 713, 713, 714, 715, 716, 716.
23405, 406, 447, 447, 447, 445, 446, 446, 446, 446, 446, 446, 446, 446.
448, 448, 449, 449, 449, 449, 454, 455, 455, 455, 455, 455, 455.
583, 583, 583, 583, 583, 583, 583, 583, 583, 583.
600, 601.
(c) Graphic Control Surveys:

(1) T-3278, Perry Island and entrance to Port Wells, Prince William Sound, Alaska.
(2) T-3278a, July 1914, 1:20,000, Port Wells, Prince William Sound, Alaska, Ship TAKU, Rude comdg.
(3) T-3404, Passage Canal, Alaska.

(d) Hydrographic Surveys:

(1) H-3408, 1912 season, 1:20,000, Perry Island Passage, Prince William Sound, Alaska, Ship TAKU, Rude comdg.
(2) H-3538, 1913 season, Passage Canal, Prince William Sound, Ship TAKU, Gilbert T. Rude comdg.
(3) H-3676, 1914 season, 1:20,000, Vicinity of Perry Island, Prince William Sound, Alaska, Ship EXPLORER, R.S. Patton comdg
(4) H-3689, 1914 season, 1:20,000, South End of Port Wells and into the Entrance to Passage Canal to Point Decision, Alaska, Ship TAKU, Gilbert T. Rude comdg.
(5) H-3694, 1914 season, 1:10,000, Passage Canal, Point Decision to Billings Delta, Alaska, Rude comdg.

34. Contours and Drainage!

The quality of photography was not altogether satisfactory for contouring purposes; the detail in general was not as sharp as usual, shadows were exceptionally long because the photographs were exposed after mid-day, and above 2000 ft in elevation snow caused some difficulty. Very tall timber in limited areas made contouring a bit of a problem. Further, two separate sets of photographs taken in different years were involved requiring nearly double the number of models to complete both shoreline and contouring. However, a satisfactory compilation has been achieved with no areas of questionable contours other than snow covered areas.
35. **Shoreline and Alongshore Features:**

Field inspection of the shoreline was quite adequate except in Whittier and has been applied to the map manuscript after compilation of the plotting, instrument work sheets. The photography was taken very near the time of high tide causing very little low-water mark or actual lines to be located; no attempt has been made to extend these lines in the office.

36. **Offshore Details:**

Most offshore details were close in to shore and were covered in shoreline features in side-heading 6 above.

37. **Landmarks and Aids:**

See Nautical Chart Branch file "Chart-Letter File No 98 (1949)", letter to The Director under date 8-31-49 from Glendon E. Boothe as commander of the Ship SEACOMBER, subject: "Landmarks for Location of Floating Aids to Navigation in Orca Inlet", wherein the following information is listed:

(a) Landmarks which fall entirely within the limits of map manuscript T-9131:

1. Green Water Tower, Conical Top.
2. Sawmill, West Twin Stack.
3. Red Tank, Cylindrical, Steel.

(b) Navigation Aids falling entirely within the limits of map manuscript T-9132:

1. Point Pigot Light.
2. Decision Point Light.
3. Trinity Point Light.

No Prominent objects for landmarks were mentioned as recommended in reports of 1912-14 surveys in the area of these three quadrangles. No aids existed at that time. No additional aids or landmarks were recommended in the more recent surveys of 1947-48.

38. **Control for Future Surveys:**

None.

39. **Junctions:**

All junctions are in agreement.

40. **Horizontal and Vertical Accuracy:**

Standard.
41. Compilation Limits:

The entire land areas within the limits of the three quadrangles of this report have not been completely mapped during the initial phase ending January 1951. In general, only shoreline and the strip of land area immediately shoreward have been completed where field inspection has been furnished. This field inspection to date has not covered all the shoreline within the quadrangles. It is planned to complete the inspection permitting the compilation to be completed also. At that stage quadrangles T-9136 and T-9137 will be 100% compiled; T-9135 may not be complete since the western half of it reaches beyond chart requirements into a solid land-area where field inspection and control identification may not be executed.

The area covered in the first phase of compilation includes all the ground areas and shorelines to the north and east of an approximate line joining 60°45'N by 143°45'W to 60°41' by 148°06' not including Ferry Island.
46. Comparison with Existing Maps:

47. Comparison with Nautical Charts:
   a. See Supplemental Data, side-heading 33, this report.
   b. Alaska, South Coast, Prince William Sound, Western Chart 70, 8577.

48. Geographic Name List:
   See separate page following.

49. Notes for the Hydrographer:
   None.

50. Compilation Office Review:
   See T-2 form following.

Submitted by:

Orvis N. Dalley
Cartographer-Photogrammetric

Approved and Forwarded by:

Louis J. Reed
Photogrammetric Engineer, Chief, Stereoscopic Mapping Section
August 21, 1970

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-152 (Alaska)
T-9132

Billings Glacier
Blackstone Bay
Blackstone Point
Bur Point
Chugach National Forest
Cochrane Bay
Decision Point
Emerald Bay
Emerald Island
Entry Cove
Gradual Point
Hollow Right
Logging Camp Bay
Neptune Point
Passage Canal

Pigot Bay
Pirate Cove
Poe Bay
Point Cochrane
Point Pigot
Port Wells
Seth Glacier
Shotgun Cove
Slope Point
Squirrel Cove
Squirrel Point
Strong Point
Surprise Cove
Trinity Point
Ziegler Cove

Approved by:
A. Joseph Wright
Chief Geographer

Prepared by:
Frank W. Pickett
Cartographic Technician
Project Ph-152
Prince William Sound

Notes to the Hydrographer for
T-9131, T-9132, T-9135 and T-9136

Surveys T-9131, T-9132 and a portion of T-9135 and T-9136 were compiled in 1950-51 to include contours. In 1958 the compilation of shoreline was extended southward to the head of Blackstone Bay and of Cochrane Bay.

Datum for these surveys was established by photogrammetric plots based on field identified and office identified control stations. The datum is considered final.

Nine-lens photographs taken in 1947 and 1948 were used for base compilation. In addition, infra-red single lens photographs were used to supplement the nine-lens photographs. These single lens photographs were not included in the plot.

Paper prints of nine-lens photographs have been prepared with pass points for use by the hydrographic party in positioning hydrographic stations by photogrammetric methods and in completing field inspection. Prints of the infra-red photographs ratioed to the scale of the manuscripts are also available for field inspection. The field party should verify the compilation of all shoreline features if practicable.

Everett H. Ramey
Chief, Graphic Compilation Unit
FORM 1002 - PHOTOGRAMMETRIC OFFICE REVIEW

MAP T-9132

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-9132

PROJECT PH-152

No Field Edit Report for this map was available at the time of final review.
61. **GENERAL STATEMENT:**

See Summary on page 6 of this Descriptive Report.

An ozalid comparison print (pages 29 through 37), with differences noted in Items 62 through 65 is included with the original of this report. In addition to differences with other maps and charts, elevation discrepancies on T-9132 are circled on the comparison print with green pencil. In some instances a rock awash symbol has a bare rock elevation; in others, a bare rock has an elevation which should be for a rock awash. The final reviewer had no way of resolving these discrepancies.

During comparison with maps and charts, the following changes were made:

<table>
<thead>
<tr>
<th>Location</th>
<th>Change</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lat 60° 46.0'</td>
<td>Rock awash visible</td>
<td>Not on</td>
</tr>
<tr>
<td>Long 118° 31.3'</td>
<td>on Photo 23585 added</td>
<td>Naut. charts</td>
</tr>
<tr>
<td>Lat 60° 48.5'</td>
<td>Rock awash visible</td>
<td>Charted</td>
</tr>
<tr>
<td>Long 118° 29.2'</td>
<td>on Photo 23585 added</td>
<td></td>
</tr>
<tr>
<td>Lat 60° 48.4'</td>
<td>Rock awash visible</td>
<td>Charted</td>
</tr>
<tr>
<td>Long 118° 28.1'</td>
<td>on Photo 23585 added</td>
<td></td>
</tr>
<tr>
<td>Lat 60° 48.3'</td>
<td>Rock awash visible</td>
<td>Charted</td>
</tr>
<tr>
<td>Long 118° 23.3'</td>
<td>on Photo 23589</td>
<td></td>
</tr>
<tr>
<td>Lat 60° 45.5'</td>
<td>Shoreline change</td>
<td>Charted</td>
</tr>
<tr>
<td>Long 118° 16.2'</td>
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<td></td>
</tr>
</tbody>
</table>

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

A comparison was made with the following registered topographic surveys:

- T-3463, scale 1:10,000, dated 1911.
- T-3464, scale 1:10,000, dated 1914.
- T-70h2, scale 1:10,000, dated 1947.
- T-7073b, scale 1:10,000, dated 1948.
The differences between the registered surveys and T-9132 are shown in blue on the comparison print.

Generally, the shoreline compares well; however, differences of 2.5 mm on the northeast side of Poe Bay, 2.5 mm between Decision Point and Strong Point, 5.5 mm just east of Station UNCLE 1948 (Latitude 60°46.2', longitude 148°26.0'), and 4 mm at the head of Entry Cove are noted. Differences are probably due to refinement of survey methods over the last 50 years.

T-9132 supersedes previous topographic surveys for chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangles Seward (D-4) and Seward (D-5), Alaska, dated 1952 and 1951 respectively. Differences between these maps and T-9132 are shown in brown on the comparison print.

A rigid shoreline comparison was not made. Generally, it compares well; but there is considerable difference in the location of shoreline at the head of Pigot Bay.

An offshore bare rock and a rock awash at latitude 60°51.5', longitude 148°17.3' are not visible on Photo 23586.

A rock awash at latitude 60°50.8', longitude 148°17.8' is not visible on Photo 23586.

A rock awash at latitude 60°48.3', longitude 148°19.8' is not visible on Photo 23589. This appears to be the same rock charted on Chart 8517.

A rock awash at latitude 60°46.7', longitude 148°23.2' is not visible on Photo 23589.

A rock awash at latitude 60°45.4', longitude 148°27.7' is not visible on Photo 23584.

Two rocks awash at latitude 60°48.5', longitude 148°33.8' are not visible on Photo 23447.

None of the above mentioned rocks appear on T-9132.
64. **COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:**

A comparison was made with verified copies of smooth sheets for Survey Nos. 6981 and 7161, both at 1:10,000 scale and both dated June-August 1948. No shoreline appears on these surveys, except a short stretch at Decision Point. A comparison was also made with a verified copy of H-7137, scale 1:10,000, dated May-June 1947. Differences between these surveys and T-9132 are shown in purple on the comparison print. The more important discrepancies are listed below.

A rock awash at latitude 60° 48.5', longitude 148° 33.3' is not visible on Photo 23447. The same rock is mentioned in Item 63.

A rock awash at latitude 60° 48.5', longitude 148° 28.7' is not visible on Photo 23585.

Two rocks awash and a submerged rock at latitude 60° 48.1', longitude 148° 21.5' is not visible on Photo 23589.

The above listed rocks are not mapped on T-9132.

65. **COMPARISON WITH NAUTICAL CHARTS:**

A comparison was made with Chart 8521, scale 1:20,000, 4th Edition, dated April 14, 1969, west of longitude 148° 27'. East of this longitude, a comparison was made with Chart 8517, 1:80,000 scale, 9th Edition, dated April 29, 1969.

Differences between these charts and T-9182 are shown in red on the comparison print.

A rock awash and reef at latitude 60° 47.2', longitude 148° 33.7' is not visible on Photo 23585.

A rock awash at latitude 60° 48.3', longitude 148° 19.8' is not visible on Photo 23589. This is approximately the same location as a rock mentioned in Item 63.

Two bare rocks at latitude 60° 50', longitude 148° 22' are not visible on Photo 23586.
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
Charles H. Bishop
Cartographer
June 17, 1970

Approved by:

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

Approved by:

Thomas
Chief, Photogrammetric Branch

Jack E. Smith
Chief, Photogrammetry Division