**Form 504**

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>TOPOGRAPHIC</th>
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<tbody>
<tr>
<td>Field No.</td>
<td>Office No. T-9137</td>
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**LOCALITY**

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<tr>
<td>General locality</td>
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<tr>
<td>Locality</td>
<td>CULROSS ISLAND</td>
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**CHIEF OF PARTY**

Glendon E. Boothe, Field
Hubert A. Paton, Baltimore Photo Office
Louis J. Reed, Washington Office

**LIBRARY & ARCHIVES**

**DATE**
DATA RECORD

T-9135, 9136, 9137

Project No. (II): Ph-39(48)  Quadrange Name (IV): T-9135 = BLACKSTONE BAY
T-9136 = COCHANE BAY
T-9137 = CULROSS ISLAND

Field Office (II): DERICKSON  Chief of Party: Glendon E. Boothe
Photogrammetric Office (III): B'more Photo Office  Officer-in-Charge: Hubert A. Paton
Washington Office, Louis J. Reed, Chief Stereoscopic Mapping Section

Instructions dated (II) (III):

(II) Field dated 28 Jun 49

Method of Compilation (III): Reading Plotter

Manuscript Scale (III): 1:20,000  Stereoscopic Plotting Instrument Scale (III): 1:20,000

Scale Factor (III): 1:1

Date received in Washington Office (IV): JAN 23 1951  Date reported to Nautical Chart Branch (IV): 2-3-51

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

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): NA 1927  Vertical Datum (III):

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (8) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III):

Lat.: Long.: Adjusted

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): Glendon E. Boothe Date: 1949

Planetable contouring by (II): none Date:

Completion Surveys by (II): none Date:

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

Shoreline is dated 1949 since it was field inspected in 1949.

Projection and Grids ruled by (IV): Ruling Machine Date: 18 Aug 50
Projection and Grids checked by (IV): Theodore L. Janson Date: 18 Aug 50
Control plotted by (III): Orvis N. Dalbey Date: 14 Nov 50

Control checked by (III): John B. McDonald Date: 15 Nov 50

Radial Plot of (III): XX

Stereoscopic Instrument (III): Frank J. Tarcza Date: 7 Jun 50
Robert L. Sugden Dec 56

Delineation by Planimetry Louis Levin Date: 21 Sep 50
Contours Clarence E. Misfeldt Date:

Compilation Louis Levin and Date: 30 Jan 51
John B. McDonald

Photogrammetric Office Review by (III) Louis J. Reed Date: 30 Jan 51

Elevations on Manuscript Louis J. Reed Date: 30 Jan 51
checked by (II) (III):
Camera (kind or source) (III): USG S 9-Lens Camera "B", F = 8.25

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Reference Station: Cordova
Subordinate Station: Culross Bay - Wells Passage

Atlantic Marine Center

Review by (IV): Charles H. Bishop

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Date: 8-03-70

Land Area (Sq. Statute Miles) (III): See Remarks below
Shoreline (More than 200 meters to opposite shore) (III): See Remarks below
Shoreline (Less than 200 meters to opposite shore) (III): none
Control Leveling - Miles (II): none
Number of Triangulation Stations searched for (II): recovered: identified: 9
Number of BMs searched for (II): none
Number of Recoverable Photo Stations established (III): none
Number of Temporary Photo Hydro Stations established (III): none

Remarks:

Land Area = T-9135 5 sq mi, T-9136 31 sq mi, T-9137 19 sq mi
Shoreline = 3 miles, 28 miles, 38 miles
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<tr>
<th>Compilation Record</th>
<th>Completion Date</th>
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<tr>
<td>Contours and shoreline 1951</td>
<td>1951</td>
<td>Superseded</td>
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<tr>
<td>Shoreline completed</td>
<td>1957</td>
<td></td>
</tr>
<tr>
<td>Final review</td>
<td>1970</td>
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SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-9137

At the time of final review, which is several years after compilation, many of the records concerning this map have been lost or misplaced and were not available for the final reviewer's use. The Compilation Record and Form 164 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.

No compilation report was available when this map was reviewed.

Compilation of the contoured area was by Reading Plotter in 1950 and 1951, using 1:20,000 scale, nine-lens photographs taken in 1947 and 1948. The remaining area, south of latitude 60° 41', was compiled in 1956 or 1957 by radial plot, using single-lens photographs taken in 1954. This compilation was photographically reduced and transferred to the 1:20,000 scale map.

Topography on this map is incomplete; no contours were mapped south of latitude 60° 41' or east of Culross Island.

It is not known if hydro-support data was furnished to the hydrographic party.

There was no data concerning field edit available to the final reviewer; it is not known if field edit was performed.

Final review was done at the Atlantic Marine Center in July 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 Culross 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-9137

PROJECT ML-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
21. Area covered. This is a 1:10,000 scale plot to furnish control for the compilation of shoreline on T-9137 in the area of Culross Pass and Culross Island (southern part). The plot was extended to reach control on T-9121, T-9133 and T-9136.

22. Method. Vinylite manuscripts (1:10,000 scale) 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. After compilation, the required area of shoreline will be reduced photographically and transferred to the 1:20,000 scale manuscript for T-9137.

Positype prints of Coast and Geodetic Survey single-lens photographs taken in 1954 were used throughout the plot. Vinylite hand templets were constructed to correct for paper distortion.

Control was sufficient at the north and south ends of the plot to set individual templets. With these well controlled templets as the basis, the plot was extended over the area. The plot tied in to common control and pass points with the plot to the south. New positions were obtained for pass points in the area of triangulation station REBEL, 1948. These were changed on the manuscript.

Tilt was apparent in photograph 2515 giving some trouble with the laying of the plot. The templet was redrawn using a new center which was determined by an approximate computation. This held reasonably well.

23. Adequacy of Control. The control for the portion of the plot covering the area to be compiled on T-9137 was good. The area to the westward on T-9136 is weaker due to a scarcity of well-identified control and poor photographic coverage. Positions here will be strengthened by a subsequent plot for this area.

Stations not held closely are discussed below:
Station "Bone 1948" evidently was misidentified in the field. Another feature which corresponds to the description of the substitute station agreed closely with the plotted position.

Sub. Sta. "Lapel 1948." Three points were pricked by the field party indicating a doubtful identification. Station was missed in the plot by 0.6 mm.

Sub. Sta. "Gland 1948" was reidentified in the office and held to within 0.5 mm of the plotted position. Some tilt was evident.

Station "Catch RM2, 1912." This station was misidentified - on a similar feature which fell approximately 300 meters south. The station was reidentified on two photographs after the plot was completed and checked closely to the plotted position.

24. Supplemental Data: None.

25. Photography: The spacing and quality of the photographs was adequate for an accurate plot. Photograph "54W2515 was badly tilted which contributed to an area of weakness.

Submitted by:

Robert T. Suddah, Cartographer

Approved:

Everett H. Ramsey, Chief
Graphic Compilation Unit
December 1956
Project 27340 (6152)
Triangulation Station Radial Plot Tolerances

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<td>Scare, 1948</td>
<td>9137</td>
<td>held</td>
</tr>
<tr>
<td>Culross Is. Lt, 1947</td>
<td>9137</td>
<td>held</td>
</tr>
<tr>
<td>Usher, 1948 (Sub Pt)</td>
<td>9137</td>
<td>held</td>
</tr>
<tr>
<td>Vice, 1948 (Sub Pt)</td>
<td>9137</td>
<td>held</td>
</tr>
<tr>
<td>Ugly, 1948 (Sub Pt)</td>
<td>9137</td>
<td>held (Hole Sta. positively identified and held)</td>
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<tr>
<td>Tony, 1948 (Sub Pt)</td>
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<td>held</td>
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<td>Tiger, 1948 (Sub Pts)</td>
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<td>held</td>
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<tr>
<td>Mimic, 1948 (Sub Pt)</td>
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<tr>
<td>Lapel, 1948 (Sub Pt)</td>
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<td>0.6mm S.E.*</td>
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<tr>
<td>Quake, 1948 (Sub Pt)</td>
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<tr>
<td>Catch RM 2, 1912</td>
<td>9137</td>
<td>approx. 30 mm.S.*</td>
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<td>Still, 1917 (Sub Pt)</td>
<td>9137</td>
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<td>Said, 1948</td>
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<tr>
<td>Amber, 1948 (Sub Pt)</td>
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<td>held (Sub Pt. 0.5mm.)</td>
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<td>Beaux, 1948</td>
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<td>0.3 mm (3 rays, 2 held)</td>
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<td>Gob, 1948</td>
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<td>Gland, 1948 (Sub Pt)</td>
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<td>Bone, 1948</td>
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<td>Hack, 1948</td>
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<td>Wire, 1913 (Sub Pt)</td>
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<td>Culross, 1914</td>
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* Discussed under sub-heading 23.
Photogrammetric Plot Sketch
Prince William Sound
Project 27340
Dec. 1956

△ Control held in the radial plot (Field)
△ Control not held (Field)
○ Control held (Office)
○ Control not held (Office)
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COMPUTED BY C.H.B.  DATE 7-30-70  CHECKED BY L.F.B.  DATE 7-30-70
### DESCRIPTIVE REPORT CONTROL RECORD

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<td>SOLAR</td>
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**COMPUTED BY**

C.H.B

**DATE**

7-30-70

**CHECKED BY**

L.F.B.

**DATE**

7-30-70
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<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
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COMPUTED BY: C.H.B. DATE: 7-30-70
CHECKED BY: L.F.B. DATE: 7-30-70
COMPILATION REPORT

MAPS T-9135, T-9136, AND T-9137

PROJECT PH-152

There was no compilation report for these maps available at the time of final review.
August 21, 1970

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-152 (Alaska)

T-9137

Chugach National Forest

Culross Island

Culross Passage

Goose Bay

Hidden Bay

Perry Passage

Culross Bay

Approved by:

A. Joseph Wright

Chief Geographer

Prepared by:

Frank W. Pickett

Cartographic Technician
49. **NOTES FOR THE HYDROGRAPHER:**

There were no Notes for the Hydrographer available at the time of final review.
PHOTOGRAMMETRIC OFFICE REVIEW

T-9135, 9136, 9137.

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)
7. Photo hydro stations
8. Bench marks
9. Plotting of sextant fixes
10. Photogrammetric plot report
11. Detail points

ALONGSHORE AREAS (Nautical Chart Data)

12. Shoreline
13. Low-water line
14. Rocks, shoals, etc.
15. Bridges
16. Aids to navigation
17. Landmarks
18. Other alongshore physical features
19. Other alongshore cultural features

PHYSICAL FEATURES

20. Water features
21. Natural ground cover
22. Planetary contours
23. Stereoscopic Instrument contours
24. Contours in general
25. Spot elevations
26. Other physical features

CULTURAL FEATURES

27. Roads
28. Buildings
29. Railroads
30. Other cultural features

BOUNDARIES

31. Boundary lines
32. Public land lines

MISCELLANEOUS

33. Geographic names
34. Junctions
35. Legibility of the manuscript
36. Discrepancy overlay
37. Descriptive report
38. Field inspection photographs
39. Forms

40. Reviewer

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

N 2623-12
FIELD EDIT REPORT

MAP T-9137

PROJECT PH-152

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

See Summary on page 6 of this Descriptive Report.

An ozalid comparison print (pages 25 through 32), with differences noted in Items 63 through 65, is bound with the original of this report.

COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with Survey No. 3278, scale 1:20,000, dated 1912, and No. 3426, scale 1:20,000, dated 1913. Differences between these maps and T-9137 are shown with blue pencil on the comparison print.

Large discrepancies in shoreline placement were noted in the vicinity of Hidden Bay, just south of station CATCH 1912, and at the south end of Culross Island.

COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangles SEWARD (C-3) and (C-4), ALASKA, both 1:63,360 scale, and both dated 1952. Differences between these maps and T-9137 are shown on the discrepancy print with brown pencil.

In view of the fact that the U.S.G.S. maps were enlarged more than three times for comparison, the maps compared well. However, a rock shown on the SEWARD (C-4) sheet at latitude 60° 38.15', longitude 148° 08.6' is not visible on the photographs and is not believed to exist. Chart 8517 shows a depth of 58 fathoms at this location.
REVIEW REPORT T-9137

TOPOGRAPHIC

AUGUST 3, 1970

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

An ozalid comparison print (pages 25 through 32), with differences noted in Items 63 through 65, is bound with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with Survey No. 3278, scale 1:20,000, dated 1912, and No. 3426, scale 1:20,000, dated 1913. Differences between these maps and T-9137 are shown with blue pencil on the comparison print.

Large discrepancies in shoreline placement were noted in the vicinity of Hidden Bay, just south of station CATCH 1912, and at the south end of Culross Island.

T-9137 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 (C-3) and (C-4), ALASKA, both 1:63,360 scale, and both dated 1952. Differences between these maps and T-9137 are shown on the discrepancy print with brown pencil.

In view of the fact that the U.S.G.S. maps were enlarged more than three times for comparison, the maps compared well. However, a rock shown on the SEWARD (C-4) sheet at latitude 60°38.15', longitude 148°08.6' is not visible on the photographs and is not believed to exist. Chart 8517 shows a depth of 50 fathoms at this location.
64. **COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:**

A comparison was made with a verified copy of H-8608, scale 1:10,000, dated June 1961. Differences between this survey and T-9137 are shown on the comparison print with a purple pencil. Culross Bay and part of Culross Passage were covered by this survey. Also with H-8607.

Shoreline discrepancies of as much as 2 mm were noted.

65. **COMPARISON WITH NAUTICAL CHARTS:**

A comparison was made with Chart 8517, scale 1:80,000, 9th edition, dated April 28, 1969. Differences between this chart and T-9137 are shown in red on the comparison print.

In most areas shoreline and alongshore features compare well, but there are large discrepancies in shoreline around Hidden Bay. Also there are shoreline discrepancies on the east side of Culross Island in the vicinity of latitude 60° 40'.

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 3, 1970

Approved by:

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

Approved by:

Charles Thomas
Chief, Photogrammetric Branch

Jack E. Stahl
Chief, Photogrammetry Division
COMPARISON PRINT

Red = Chart 8517
Brown = U.S.G.S. SEWARD (O-3)
Blue = T-3278 and T-3426
COMPARISON PRINT

Brown = U.S.G.S. SEWARD (C-4)
Purple = H-8608

PEAK NO 22, 1914
VABM 1647

REBEL 1948
CLEV 9

SOLAR, 1993
VABM 148

54. W
24.75
0.25
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
11000
12000
13000
14000
15000

Sheep

23597

TIGER 1948

54. W 2476

60° 42'
COMPARISON PRINT

Red = Chart 8517
Brown = U.S.G.S. SEWARD (C-4)
Blue = T-3426

34W 2451
COMPARISON PRINT

Red = Chart 8517
Brown= U.S.G.S. SEWARD (C-3)
Blue = T-3426

CATCH 1912, EI 29'
CATCH RM E. 1912

Foul 10
Shallow
Low
STILL 1917

60° 42'
41'

60° 40'

30° A
COMPARISON PRINT

Red = Chart 8517
Brown = U.S.G.S. SEWARD (0-4)
Blue = T-3426
Purple = H-8607