Form 504
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>TOPOGRAPHIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>Office No.</td>
</tr>
<tr>
<td></td>
<td>T-9136</td>
</tr>
</tbody>
</table>

LOCALITY

<table>
<thead>
<tr>
<th>State</th>
<th>ALASKA</th>
</tr>
</thead>
<tbody>
<tr>
<td>General locality</td>
<td>PRINCE WILLIAM SOUND</td>
</tr>
<tr>
<td>Locality</td>
<td>COCHRANE BAY</td>
</tr>
</tbody>
</table>

19.47 - 60

CHIEF OF PARTY

Glendon E. Booth, Field
Robert A. Paton, Baltimore Photo Office
Louis J. Reed, Washington Office

LIBRARY & ARCHIVES

DATE

USCG-76-DC 5087
DATA RECORD

T-9135, 9136, 9137

152

Project No. (II): Ph-3940 Quadrangle Name (IV):

T-9135 = BLACKSTONE BAY
T-9136 = COCHHAINE BAY
T-9137 = GULROSS ISLAND

Field Office (II): DERICKSON
Chief of Party: Glendon E. Boothe

Photogrammetric Office (III): B'more Photo Office

Washington Office, Louis J. Reed, Chief

Officer-In-Charge: Hubert A. Paton

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: 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 (2) refer to mean high water
Elevations shown as (5) 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

Planetary 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 by (III): Frank J. Tarcza Date: 7 Jun 50

Robert L. Sugden Aug 57
Garnett S. Amburn Feb 60

M-Stereoscopic Instrument: Louis Levin and Date: 21 Sep 50

Contours Clarence E. Mischen

Compilation Manuscript checked by (III): 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 checked by (II) (III): Louis J. Reed Date: 30 Jan 51
PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>19693-95</td>
<td>27 Jun 47</td>
<td>11:33</td>
<td>20,000</td>
<td>5 ft above MLLW</td>
</tr>
<tr>
<td>19713-16</td>
<td>h</td>
<td>11:52</td>
<td></td>
<td>h</td>
</tr>
<tr>
<td>19715-19</td>
<td>h</td>
<td>11:55</td>
<td></td>
<td>h</td>
</tr>
<tr>
<td>23401-03</td>
<td>2 Sep 48</td>
<td>13:04</td>
<td></td>
<td>h</td>
</tr>
<tr>
<td>23404-45</td>
<td>h</td>
<td>13:41</td>
<td></td>
<td>h</td>
</tr>
<tr>
<td>23447-58</td>
<td>h</td>
<td>13:47</td>
<td></td>
<td>h</td>
</tr>
<tr>
<td>23584-91</td>
<td>3 Sep 48</td>
<td>10:18</td>
<td></td>
<td>h</td>
</tr>
<tr>
<td>23594-603</td>
<td>h</td>
<td>10:35</td>
<td></td>
<td>h</td>
</tr>
</tbody>
</table>

Tide (III)

Reference Station: Cordova
Subordinate Station: Culross Bay - Wells Passage
Subordinate Station: Atlantic Marine Center

Review by (IV): Charles H. Bishop
Date: 7-27-70

Diurnal

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>9.7</td>
<td>12.1</td>
</tr>
</tbody>
</table>

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

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 33 sq mi T-9137 19 sq mi
Shoreline = 3 miles 28 miles 38 miles
<table>
<thead>
<tr>
<th>COMPILATION RECORD</th>
<th>COMPLETION DATE</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contours and shoreline</td>
<td>1951</td>
<td>Superseded</td>
</tr>
<tr>
<td>Shoreline revised from 1958</td>
<td></td>
<td></td>
</tr>
<tr>
<td>photographs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Final review</td>
<td>1970</td>
<td></td>
</tr>
</tbody>
</table>
SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-9136

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. In 1957 a preliminary radial plot was run at 1:20,000 scale for the purpose of completing the area south of the contouring limit (60° 40.5'). Nine-lens photographs with mostly office-identified control were used for the 1957 plot. In 1960 another radial plot was run at 1:20,000 scale, using nine-lens photographs with field-identified control, to verify the previous plot. Photographs used in the radial plots were taken in 1948.

Topography on this map is incomplete; no contours were mapped south of latitude 60° 40.5'.

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 and 20 minutes in longitude.

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

2-20

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, Cochran 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-9136

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
21. Area Covered

This radial plot covers the southern parts of Cochrane Bay and Blackstone Bay. It is at 1:20,000 scale and completes an area on Manuscripts T-9135 and T-9136 between a 1:20,000 scale plot to the north and 1:10,000 scale plots to the south and east.

22. Method

Four vinylite manuscripts, T-9131, T-9132, T-9135 and T-9136 at 1:20,000 scale were joined together at the grid lines.

Nine-lens metal-mounted photographs were used in the plot. Mylar templates were prepared using a master template for correcting distortion errors.

The plot was begun in the northern part. Here adequate control was available in the previous plot and there was no problem in junctioning. The plot was extended southward holding to additional control stations. A satisfactory junction was achieved with plots to the south and east.

Six additional control stations were identified on the nine-lens photographs to extend the plot and strengthen positions. (See radial plot sketch which shows discrepancies with horizontal control positions).

Positions established by this plot are circled in red on the manuscripts whereas positions on the prior plot are in blue.

23. Adequacy of Control

As stated in paragraph 22 above positions to the north were well controlled. Four well described stations in the south part of Blackstone Bay were office identified. The two stations added in south Cochrane Bay (Huck 1948 & Jello 1948) were used in the plot to the south. Control was adequate and good junction was effected.

24. Supplemental Data - None

25. Photography

A flight of photographs in each bay area was available. Though one in between would have been helpful, it was not necessary as sufficient photographs and control were used in the plot to the north to establish good junction positions. There was also sufficient
control throughout so that each flight could be laid independently. Though the overlap was small, ties were made between flights. (See sketch for arrangement of photographs).

Submitted by:

Robert L. Sugden

Approved:

Everett H. Ramsey
Chief, Graphic Compilation Unit
Photogrammetric Plot Sketch
Prince William Sound
Project 27340
Aug 1957

- Field identified control held
- Office identified control held
- Office identified control not held
PHOTOGRAHMETRIC PLOT REPORT

PRINCE WILLIAM SOUND, ALASKA

PROJECT PH-152

FEBRUARY 1960

A preliminary plot of this area, using mostly office-identified control, was done in August 1957. The purpose of this radial plot was to verify previous plot with additional field-identified control accomplished in May and June 1959 by H. J. Seaborg.

21. AREA COVERED:

This radial plot covers the southern part of Cochrane Bay and Blackstone Bay. It is at 1:20,000 scale and completes an area on Manuscripts T-9135 and T-9136.

22. METHOD:

Four vinylite manuscripts, T-9131, T-9132, T-9135, and T-9136, were joined together at the grid lines. Nine-lens, metal-mounted photographs were used in the plot. Mylar templet numbers were prepared, except Nos. 23b02, 23b16, and 23b50 through 23b52. These templets were from the 1957 plot with the additional control added. The plot was begun at approximate latitude 60°49' and extended south to complete T-9135 and T-9136.

23. ADEQUACY OF CONTROL:

The additional control was very adequate. All stations held, except XENO 1948. It was within 0.4 mm.

24. SUPPLEMENTAL DATA:

None.
25. **PHOTOGRAPHY**:

The spacing and quality of the photographs were adequate for an accurate plot. A photogrammetric plot sketch is submitted with this report.

Note: See radial plot reports dated December 1956 and August 1957.

Submitted by:

Garnett S. Amburn
<table>
<thead>
<tr>
<th>Station</th>
<th>Year</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALSO</td>
<td>1948</td>
<td>held</td>
</tr>
<tr>
<td>AMBER</td>
<td>Sub. Pt. 1959</td>
<td>held</td>
</tr>
<tr>
<td>AREA</td>
<td>Sub. Pt. 1959</td>
<td>held</td>
</tr>
<tr>
<td>BUNT</td>
<td>Sub. Pt. 1959</td>
<td>held</td>
</tr>
<tr>
<td>DECISION POINT LIGHT</td>
<td>1948</td>
<td>held</td>
</tr>
<tr>
<td>ENVY</td>
<td>1948</td>
<td>held</td>
</tr>
<tr>
<td>GAIN</td>
<td>Sub. Pt. 1959</td>
<td>held</td>
</tr>
<tr>
<td>HORSE</td>
<td>Sub. Pt. 1959</td>
<td>held</td>
</tr>
<tr>
<td>INNER</td>
<td>Sub. Pt. 1959</td>
<td>held</td>
</tr>
<tr>
<td>JELLO</td>
<td>Sub. Pt. 1959</td>
<td>held</td>
</tr>
<tr>
<td>KAPOK</td>
<td>1948</td>
<td>held</td>
</tr>
<tr>
<td>NIGHT</td>
<td>Sub. Pt. 1959</td>
<td>held</td>
</tr>
<tr>
<td>UNCLE</td>
<td>Sub. Pt. 1959</td>
<td>held</td>
</tr>
<tr>
<td>WEIT</td>
<td>Sub. Pt. 1959</td>
<td>held</td>
</tr>
<tr>
<td>XEREC</td>
<td>Sub. Pt. 1959</td>
<td>held</td>
</tr>
<tr>
<td>XENO</td>
<td>1948</td>
<td>0.4 mm north</td>
</tr>
<tr>
<td>YACHT</td>
<td>Sub. Pt. 1959</td>
<td>held</td>
</tr>
<tr>
<td>YAW</td>
<td>Sub. Pt. 1959</td>
<td>held</td>
</tr>
<tr>
<td>ZIRCON</td>
<td>Sub. Pt. 1959</td>
<td>held</td>
</tr>
<tr>
<td>STATION</td>
<td>1948</td>
<td>SOURCE OF INFORMATION (INDEX)</td>
</tr>
<tr>
<td>-------------</td>
<td>------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>IDEA</td>
<td></td>
<td>Vol. VI, P. 31</td>
</tr>
<tr>
<td>IVORY</td>
<td></td>
<td>&quot;</td>
</tr>
<tr>
<td>JELLO</td>
<td></td>
<td>&quot;</td>
</tr>
<tr>
<td>KRAUT</td>
<td></td>
<td>&quot;</td>
</tr>
<tr>
<td>IANKY</td>
<td></td>
<td>&quot;</td>
</tr>
<tr>
<td>MATCH</td>
<td></td>
<td>&quot;</td>
</tr>
<tr>
<td>NIGHT</td>
<td></td>
<td>&quot;</td>
</tr>
<tr>
<td>PEAK NO. 57</td>
<td>1947</td>
<td>&quot;</td>
</tr>
<tr>
<td>PEAK NO. 59</td>
<td>1947</td>
<td>&quot;</td>
</tr>
<tr>
<td>PEAK NO. 71</td>
<td>1948</td>
<td>&quot;</td>
</tr>
<tr>
<td>PEAK NO. 75</td>
<td>1948</td>
<td>&quot;</td>
</tr>
<tr>
<td>PEAK NO. 76</td>
<td>1948</td>
<td>&quot;</td>
</tr>
<tr>
<td>STATION</td>
<td>SOURCE OF INFORMATION (INDEX)</td>
<td>LATITUDE</td>
</tr>
<tr>
<td>---------------</td>
<td>------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>PEAK NO. 77</td>
<td>Vol. VI, P. 79</td>
<td>60° 44' 43.11''</td>
</tr>
<tr>
<td>PEAK NO. 78</td>
<td>&quot;</td>
<td>60° 38' 03.67''</td>
</tr>
<tr>
<td>PEAK NO. 89</td>
<td>&quot;</td>
<td>60° 38' 36.52''</td>
</tr>
<tr>
<td>PEAK NO. 93</td>
<td>&quot;</td>
<td>60° 40' 19.30''</td>
</tr>
<tr>
<td>PEAK NO. 94</td>
<td>&quot;</td>
<td>60° 40' 24.28''</td>
</tr>
<tr>
<td>PEAK NO. 95</td>
<td>&quot;</td>
<td>60° 43' 41.35''</td>
</tr>
<tr>
<td>PEAK NO. 96</td>
<td>&quot;</td>
<td>60° 40' 18.06''</td>
</tr>
<tr>
<td>PEAK NO. 112</td>
<td>&quot;</td>
<td>60° 40' 46.30''</td>
</tr>
<tr>
<td>PRIZE</td>
<td>&quot;</td>
<td>60° 40' 35.66''</td>
</tr>
<tr>
<td>TAWL</td>
<td>&quot;</td>
<td>60° 44' 14.807''</td>
</tr>
</tbody>
</table>

COMPUTED BY: C.H.B.  DATE: 7-14-70
CHECKED BY: L.F.B.  DATE: 7-14-70
COMPILATION REPORT
MARS 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-9136

Blackstone Bay
Chugach National Forest
Cochrane Bay
Culross Passage
Long Bay
Surprise Cove
Tebenkof Glacier

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
PHOTOGRAMMETRIC OFFICE REVIEW
T-9135, 9136, 9137.


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
33. Geographic names  34. Junctions  35. Legibility of the manuscript  36. Discrepancy overlay
37. Descriptive report  38. Field inspection photographs  39. Forms
40. 

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

M 2623-12
FIELD EDIT REPORT

MAP T-9136

PROJECT PH-152

No Field Edit Report for this map was available at the time of final review.
REVIEW REPORT T-9136

TOPOGRAPHIC

JULY 27, 1970

61. **GENERAL STATEMENT:**

See Summary on page 6 of this Descriptive Report.

An ozalid comparison print (pages 27 through 34), with differences noted in Items 63, 64, and 65, is bound with the original of this report.

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

No registered topographic surveys of the area were available for comparison.

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

A comparison was made with U.S.G.S. Quadrangle SEWARD (C-4), ALASKA, scale 1:63,360, dated 1952. Differences between this map and T-9136 are shown with brown pencil on the comparison print.

In order to compare, the U.S.G.S. map was enlarged more than three times. The general trend of the shoreline is the same, but, because of scale difference, there are position discrepancies in many places.

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

A comparison was made with a verified copy of H-8608, dated June 1961. Only part of T-9136 was covered by this survey - Long Bay and a small section of Culross Passage. Differences between T-9136 and H-8608 are shown in purple on the comparison print.

Shoreline compared well; some rocks that are not visible on the photographs were shown on H-8608.
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-9136 are shown in red on the comparison print.

The chart was enlarged four times for comparison. There are large shoreline discrepancies.

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
July 27, 1970

Approved by:

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

Approved by:

Charles H. Bishop
Chief, Photogrammetric Branch

Jack E. Smith
Chief, Photogrammetry Division
COMPARISON PRINT

Red = Chart 8517
Brown = U.S.G.S; Quad SEWARD (C-4)
COMPARISON PRINT

Red = chart 8517
Brown = U.S.G.S. Quad seward (c-4)

* = Rk not visible on photo
COMPARISON PRINT

Red = chart 8517
Brown = U.S.G.S. Quad SEWARD (C-4)

Position not in agreement with rocks visible on photos

Bk not visible on photos
COMPARISON PRINT

Red = chart 8517
Brown = U.S.G.S. Quad SEWARD (6-4)