# Descriptive Report

**Type of Survey**: Shoreline (Photogrammetric)

**Field No.**: Ph-117  **Office No.**: T-11500

## Locality

**State**: ALASKA

**General Locality**: Tlevak Strait

**Locality**: Nichols Islands to South Pass

**1954-1956**

**Chief of Party**

J. T. Jarman, Chief of Field Party  
W. F. Deane, Baltimore District Officer

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**Library & Archives**

**Date**
DESCRIPTIVE REPORT - DATA RECORD

T-11500

Project No. (II): Pb-117

Quadrange Name (IV):

Field Office (II): Ship PATTON

Chief of Party: J. T. Jarman (1956)

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: William F. Deane


7 Jan. 1955

9 Dec. 1955

1 Nov. 1957

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (II): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV): MHW

Geographic Datum (III): N. A. 1927

Vertical Datum (III): MHW

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): CURVE, 1925

Lat.: 55° 10' 20.187"(624.3m)

Long.: 132° 52' 29.335(519.2m)

Adjusted

Unadjusted

Plane Coordinates (IV):

State: Alaska-U.T.Mzone: 8

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.
Areas contoured by various personnel
(Show name within area)
(II) (III)
DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): J. J. Dermody, R. C. Munson
Q. E. Haraden, D. E. Westbrook

Date: 1954 field season
1956 " "

Planetary contouring by (II): None

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): 1954 (date of photographs)
Office interpretation - supplemented by 1956 field inspection in South Pass area only.

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

Date: 10/25/54

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

Date: 10/26/54

Control plotted by (III): B. Wilson
J. Steinberg

Date: 12/1/54
12/13/54

Control checked by (III): H. R. Rudolph

Date: 12/14/54

Radial Plot OR Stereoscopic

Date: 3/18/55

Geodetic stereoscopic

Planimetry

Stereoscopic Instrument compilation (III):
Contours

Manuscript delineated by (III): R. M. Whitson

Date: 6/14/57

Photogrammetric Office Review by (III): R. Glaser

Date: 6/20/57

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

Date: 
Camera (kind or source) (III): USC&GS single-lens "D" camera and nine-lens camera.

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>
</tr>
</thead>
<tbody>
<tr>
<td>54-0-36 thru 39</td>
<td>6/4/54</td>
<td>1041</td>
<td>1:10,000</td>
<td>1.8′ below MLLW</td>
</tr>
<tr>
<td>45417 - 45418</td>
<td>&quot;</td>
<td>1133</td>
<td>1:20,000</td>
<td>&quot;</td>
</tr>
</tbody>
</table>

Tide (III)

From Predicted Tables

| Reference Station: | Sitka | Subordinate Station: | South Pass, Sukkwan Strait |

Washington Office Review by (IV): D. M. BIZANT

Final Drafting by (IV):

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 (II):
Number of Temporary Photo Hydro Stations established (III):

Remarks:

* All forms transmitted to W.O. 1 April 1959 - package No. 74
Summary to Accompany
Descriptive Report
All T-Numbers
PH-117

September 1970

This project is comprised of twenty-nine shoreline surveys compiled at 1:10,000 scale. It covers an area in the vicinity of Cordova Bay in southeast Alaska. The purpose for the compilation of these shoreline surveys was to provide a base for hydrographic survey operations and to update marine charts of the area.

The shoreline area was covered with single-lens and nine-lens photography. Field inspection prior to compilation consisted only of recovery and identification of control. Control was extended by radial plot method in the Baltimore District Office prior to graphic compilation. The shoreline was delineated from office interpretation of the photographs.

Copies of the manuscripts and the ratio photographs were sent to the hydrographic parties (ships HODGSON and PATTON) for hydro support use. Hydro signals were identified and described. Corrections and additions to the shoreline and offshore details were made from field annotated photographs. This has been treated as field inspection throughout this project, but actually it is field edit.

The application of field inspection and photogrammetric office review was done in the Baltimore District Office.

Map Accuracy

The extension of control (radial plots) for the subject maps was considered to be sub-standard in accuracy (refer to radial plot reports). However, the maps were used to provide shoreline and control for hydrographic surveys and were found by the hydrographer to be generally satisfactory for this purpose. A new project is planned for this area.

(continued)
Differences Between Contemporary Hydrographic and Topographic Surveys

Field inspection was done during hydrography (refer to the field inspection report). Where the application of field inspection (additions and corrections) was not applied to the hydrographic surveys, they were called to the attention of the hydrographic verification and review activities by the following means:

1. For an unverified smooth sheet a "Notes to the Verifier" page was inserted in the Hydrographic Survey Descriptive Report.

2. For an unreviewed smooth sheet a "Notes to the Reviewer" page was inserted in the Hydrographic Survey Descriptive Report.

3. For reviewed hydrographic surveys the Chief, Hydrographic Data Branch was notified.

The remaining discrepancies were disposed of in conference with the Hydrographic Review Branch.

Rock Elevations

Differences in some rock elevations were found during final review between a number of the photogrammetric surveys and the contemporary hydrographic surveys. It was decided in conference with the Hydrographic Review Branch that since the rock elevations were from predicted tides they would be removed in most cases from the photogrammetric surveys and the elevations on the hydrographic surveys would be used because of more accurate tide data. An ozalid copy of all manuscripts showing the rock elevations computed from predicted tides will be filed along with available field inspection photographs in the Federal Records Center.

A complete Geographic Names Investigation was made and a final names sheet is a part of this report.

Field records were incomplete at the time of final review. Available field data was used at this time.

A registration manuscript copy for all surveys, except T-11301 and T-11321 which are lost, will be registered in the Bureau Archives under their respective T-numbers.

Submitted by,

Donald M. Brant
FIELD INSPECTION REPORT
FOR MAPS

###

2. AREAL FIELD INSPECTION:

This report covers the shoreline of the northern part of Sukkwan Strait and all of South Pass and the adjacent area to the north.

The shoreline is generally rocky with trees overhanging the high water line almost everywhere. North of Saltery Point there are numerous small islands, shoals, and flats which are at various stages of the tide.

The only cultural features are in the village of Hydaburg. There are several native cemeteries on the small islands immediately north of Sukkwan Narrows.

Photo coverage is adequate for the entire area. The photographs are somewhat "fuzzy" causing most of the boulder detail to appear as smooth, sand beaches. Shadow in some cases obscures the high water line. The approximate shoreline on the preliminary manuscripts was checked on the ground, and except as noted, is adequate for charting purposes.

3. HORIZONTAL CONTROL:

(a) The following supplemental stations were established in 1956 to control the photographs in the area northeast of North Pass.

<table>
<thead>
<tr>
<th>Second Order</th>
<th>Third Order (Intersection)</th>
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<tbody>
<tr>
<td>CLAM</td>
<td>CALF</td>
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<tr>
<td>MINK</td>
<td>LION</td>
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<tr>
<td>PONY</td>
<td></td>
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<tr>
<td>TOAD</td>
<td></td>
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<tr>
<td>SEAL</td>
<td></td>
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<tr>
<td>LOON</td>
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</tbody>
</table>

All of the above stations, with the exception of Station LOON, were identified on the photographs.

In addition to the above triangulation stations, the following hydrographic signals, located by graphic control, were identified on the photographs and can be used for control if desired.

<table>
<thead>
<tr>
<th>ASK</th>
<th>OAB</th>
<th>LEO</th>
<th>SON</th>
<th>FAT</th>
<th>IVY</th>
<th>LOG</th>
<th>TEE</th>
<th>FUN</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEG</td>
<td>NOR</td>
<td>TIN</td>
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</tr>
</tbody>
</table>
3. **HORIZONTAL CONTROL (Contin.):**

(b) All horizontal control is computed on the NA 1927 Datum and no datum adjustments are necessary.

(c) All control was established by the U. S. Coast and Geodetic Survey.

(d) All control called for in the Instructions was established and identified as far as the field work was carried.

A new second order triangulation scheme was carried from Hydaburg to North Pass. An attempt was made to identify all these stations, but lack of ground detail made some stations impossible to identify.

It is considered that a sufficient number of stations was identified to control the radial plot adequately.

(e) A thorough search was made for all stations in the project area.

4. **VERTICAL CONTROL:**

   Inapplicable.

5. **CONTOURS AND DRAINAGE:**

   Inapplicable.

6. **WOODLAND COVER:**

   The entire area is covered with a dense growth of coniferous trees extending down to and overhanging the high water line in most places.

7. **SHORELINE AND ALONGSHORE FEATURES:**

(a) Shoreline inspection was completed in the area north of latitude 55° 09' and east of longitude 132° 55'. All shoreline was inspected from a launch or skiff running close inshore. The highwater line is indicated on various places on the photographs. Some areas are in shadow and the highwater line is not visible on the photographs. Some of these areas are not defined in detail on the photographs, however, by comparison with the preliminary manuscript, few errors in the interpretation were found and for charting purposes, the highwater line is entirely adequate as shown.

(b) The low-water line is sketched on the photographs at various places. In areas where extensive flats exist, the low-water line is defined by the hydrography.
7. SHORELINE AND ALONGSHORE FEATURES (CONTIN.):

(c) The foreshore is characterized by boulders extending from a few feet to several hundred feet in height. In some cases grassy islets and spits which cover only in extreme storms were misinterpreted as sand bars which cover at highwater. These have been clarified on the photographs. It is noted that almost the entire shoreline is labeled as sand and gravel on the preliminary manuscripts. It should be mentioned here that there are very few sand beaches in the project area. Most all of the foreshore is boulders, except as noted. The different types of foreshore are indicated on the photographs.

(d) There are no high bluffs or cliffs along the shoreline. Bed-rock is exposed up to the storm waterline above which there is top soil and vegetation.

(e) The only waterfront structures are at Hydaburg and are evident on the pictures. Ellis Airlines maintains a small float on the north side of the cannery pier. There is a small pier in the basin at the northern edge of the village and a float secured to a dolphin just offshore from this pier. The objects on the highwater line at the head of this basin are floats which are used alongside the cannery pier during the fishing season and stored on the beach at other times.

(f) There are no submarine cables in the area.

8. OFFSHORE FEATURES:

There are some piles off the cannery at Hydaburg which are indicated on the photographs. The only other offshore features are rocks and shoals. All rocks visible at the time of inspection were noted on the photographs. Heights of rocks were estimated above the water surface at the time of inspection and the time and date is noted.

The area north of Hydaburg Harbor was not covered as thoroughly as should be because of lack of time. Some rocks were probably missed because it was impossible to complete all the inspection at low tide. A hydrographic survey would be required to locate all the rocks in this area. Kelp areas are outlined approximately.

9. LANDMARKS AND AIDS:

Two new landmarks for nautical charts were located by planetable and were identified on the photographs. One of these, Hydaburg Presbyterian Church Spire, was later intersected with a theodolite. Of the five fixed aids to navigation in the area, three of them, Sukkwan Narrows Light, Goat Island Light, and Turn Rock Daybeacon, were used as sub-points for triangulation station identification. The Hydaburg Daybeacon is identified direct. The small uncharted and privately maintained daybeacon on the north side of the bar west of Hydaburg is not indicated on the photographs. It is located by planetable on topographic sheet PATT-56-B.

All floating aids were located by planetable and none are identified on the photographs.
10. **BOUNDARIES, MONUMENTS, AND LINES:**

Inapplicable.

11. **OTHER CONTROL:**

In addition to the hydrographic stations listed in Paragraph 3, the following recoverable topographic stations were located for hydrographic signals, but are not identified on the photographs: SKY, JIM, NAT, and FEP.

12. **OTHER INTERIOR FEATURES:**

There is a bridge over the creek at Hydaburg. There are no landing strips or other interior features.

13. **GEOGRAPHIC NAMES:**

Geographic names will be covered in a special report, to be submitted.

14. **SPECIAL REPORTS AND SUPPLEMENTAL DATA:**

Data forwarded separately from this report are:

- Field and Office Photographs
- Control Station Identification Cards
- Descriptions of Recoverable Topographic Stations
- Complete triangulation data will be forwarded to the Washington Office in the near future.

15. **COMMENTS:**

All hydrographic signals were located graphically by planetable on Sheets PATI-56-A, B, and C. Sheets A and C are at a scale of 1:10,000 and cover the northern part of Sukkwan Strait and South Pass respectively. Sheet B is at a scale of 1:5,000 and covers Hydaburg Harbor.

Short sections of shoreline were rodded in at various places and are so indicated on the topographic sheets. All rock detail visible at low water was either cut in or located by sextant fixes. Rocks are shown with their heights above mean lower low water.

On sheet C, all shoreline shown as dotted on the preliminary manuscripts was rodded in. The shoreline on both 10,000 scale sheets is in generally good agreement with the manuscripts.

Some discrepancies between the manuscript and topographic sheet B are apparent by inspection. The shoreline of the small islands north of Saltery Point is not in agreement with the manuscripts. The shoreline in this area was rodded in and is shown on the topographic sheet.

It is also apparent that the shoreline as per boat sheet PA-05156 should be shifted to the north slightly to agree with the graphic control. The shoreline for this boat sheet was blown up, using a Saltzman Projector, from 1:10,000 to 1:5,000. It is possible that some of the discrepancy was introduced in the process of enlarging the manuscripts to 1:5,000 scale.
15. COMMENTS (Contin.):

In compiling the final manuscripts, reference should be made to the graphic control sheets.

Because of the overhang of the trees and the lack of detail on the ground, it would have been difficult to locate, with certainty, sufficient signals to control the hydrography. The area surveyed was particularly well suited for graphic control in that there was ample triangulation on both sides of Sukkwan Strait and South Pass. For these reasons, photo-hydro control was not used and it is felt that control by planetable was justified.

16. LIST OF CONTROL STATIONS IDENTIFIED:

A complete list of horizontal control stations and the photographs on which they were identified follows:

<table>
<thead>
<tr>
<th>STATION</th>
<th>MANUSCRIPT</th>
<th>PHOTO NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 1925</td>
<td>T-11500</td>
<td>540-47</td>
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<tr>
<td>ARK 1907,14</td>
<td>T-11500</td>
<td>540-38</td>
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<td>BEACH 1925</td>
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<td>540-57</td>
</tr>
<tr>
<td>FLUFF 1908</td>
<td>T-11501</td>
<td>540-58</td>
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<tr>
<td>BOAR 1956</td>
<td>T-11497</td>
<td>540-55</td>
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<td>CALF 1956</td>
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<td>CLAM 1956</td>
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<td>COLT 1956</td>
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<td>CRAB 1956</td>
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<td>CRIB 1956</td>
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<td>CROW 1956</td>
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<td>DEER 1956</td>
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<td>OAR 1908,27</td>
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16. LIST OF CONTROL STATIONS IDENTIFIED (Contin.):

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<th>PHOTO NO.</th>
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<td>WASH 1908,27</td>
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<td>WOLF 1956</td>
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TOPOGRAPHIC STATIONS IDENTIFIED

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<td>TIN</td>
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</tbody>
</table>

Respectfully submitted,

Gerard E. Haraden
LT C&GS

Approved and Forwarded:

J.T. Jerman
CDR USC&GS
Cmdg., Ship PATTON
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<th>Longitude</th>
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<td>596</td>
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</table>
21. AREA COVERED

This radial plot covers the area of shoreline surveys T-11492 thru T-11502 in the vicinity of Sukkwan Strait and Hetta Inlet on Prince of Wales Island, Alaska. This radial plot at 1:20,000 scale was used to establish pass points to control a radial plot with single lens photographs at a scale of 1:10,000.

22. METHOD - RADIAL PLOT

Map Manuscripts:
Vinylite sheets with polyconic projections in black at a scale of 1:10,000, and Universal Transverse Mercator Alaska, Zone 8, grids in red, were furnished by the Washington Office. Base sheets were prepared in this office, at a scale of 1:20,000.

All control was plotted using the meter bar and beam compass.
A sketch showing photograph centers, distribution of control, and layout of surveys is attached to this report.

Photographs:
Fifteen (15) unmounted nine lens photographs at a scale 1:20,000 were used in this radial plot, with the following numbers: 45392, 45393, 45396 thru 45400, and 45412 thru 45419.

Temples:
Vinylite templets were made for all photographs using a master templet to make adjustments for paper and film distortion and chamber displacement.

Closure and adjustment to control:
All control was transferred graphically to the 1:20,000 scale base sheets, the plot was begun at the southwestern end of the two flights where a fix could be obtained on 45392. The northern flight was extended northeastward to control station TIP, 1924. The southern flight was extended eastward holding control stations FLOAT, 1908-14, and ROUND, 1908. At the eastern end of the flight in surveys T-11499 and T-11502 the plot was adjusted to pass points established in a previous plot. The previous plot was a long bridge between control stations in Cordova Bay and identified control in Clarence Strait on the east side of Prince of Wales Island. At the northern end of Hetta Inlet in T-11495 there was very little side lap between the two flights. It was not possible to hold Sub Pt. TIP, 1924, and the pass points from the previous plot on the southern flight and at the same time get good intersections in this area. After considerable adjustment of templets it was decided to hold slightly off TIP, 1924, in order to get a more rigid plot in the northern tip of HETTA INLET.
Transfer of points:
All pass points which were common on both the nine lens and single lens, 1:10,000 scale, photographs were transferred to 1:10,000 scale base sheets, using small transparent templets. A templet was made for each pass point drawing radial lines to four grid intersections on the 1:20,000 scale base sheet. The position of the point was established on the 1:10,000 scale base sheet by holding the same grid intersection and pricking the position of the point through to the base sheet. In survey T-11496, in the area where there was no coverage with single lens photographs, the positions were transferred in similar manner to the map manuscripts. These points are to be used for delineation of shoreline, using the 1:20,000 scale nine lens photographs in the vertical projector.

23. ADEQUACY OF CONTROL

Except in the southern and southwestern side of the plot, control was inadequate for an accurate radial plot. There was no control in the northern part of Metta Inlet in surveys T-11495 and T-11499. The purpose of this plot was to establish control points to be used in a radial plot at a scale of 1:10,000 with single lens photographs. The positions of pass points in this survey are known to be quite weak because of the long bridge between control stations and because control station TIP, 1924, was not held exactly. The identification of Sub Pt. TIP, 1924, is doubtful because of shadows and trees and may be up to 0.5mm in error. It is believed, the positions of these pass points may be in error by 0.5mm or more in this plot. When transferred to 1:20,000 scale base sheets this error would be doubled. This means that the positions of Pass points on the map manuscripts may possibly be in error by 1.0mm or more. The results obtained are not considered to be satisfactory due to the lack of control, however they are the best that can be obtained at the present time. Several tilted photographs in the uncontrolled area added to the difficulty of getting a satisfactory plot. (See paragraph 25)

An attempt was made to identify MID, 1907, in the office to strengthen the plot, but it could not be held. The radially plotted position fell 30 meters southeast of the true position. All other identified control stations, including those identified in the office, were held satisfactorily in the radial plot.

24. SUPPLEMENTAL DATA

No supplemental data was used in this radial plot.

25. PHOTOGRAPHY

Photographic coverage and overlap is adequate and definition is good. The side lap in T-11495 is quite small, and to the eastward there is none. The following photographs were tilted, but no tilt determination was made: 45396, 45400, 45414 and 45416.

Respectfully submitted
23 March 1955

[Signature]
Frank J. Gara
Supervisory Cartographer
21. AREA COVERED

This radial plot report covers: (1) The entire area of Surveys Nos. T-11492, T-11493, T-11494, T-11496, T-11497, T-11498, T-11500, T-11501, and T-11502; (2) The portions of Surveys Nos. T-11492 and T-11496 which are covered by photography; (3) The western portions of Surveys T-11494 and T-11498; (4) The southwest corner of Survey No. T-11502.

Another radial plot report for Metta Inlet deals with the portions of Surveys Nos. T-11494, T-11498, and T-11502 which are east of the limits of this plot.

This radial plot is for shoreline surveys located along Sukkwan Strait, South Pass, North Pass, Tlevak Strait, and Soda Bay, near the southern end of Prince of Wales Island, Alaska.

22. METHOD - RADIAL PLOT:

Map Manuscripts:
Vinylite sheets with polyconic projections in black and Universal Transverse Mercator, Alaska, Zone 8, grids in red, at a scale of 1:10,000 were furnished by the Washington office.

The positions of all control and substitute stations were plotted on the manuscripts using the beam compass and meter bar.

A sketch showing the layout and the distribution of control and photograph centers is attached to this report.

Photographs:
Single lens photographs taken 4 June, 1954 with the "O" camera at a scale of 1:127,500 and ratioed to a scale of 1:10,000 were used in this plot.

Thirty-nine single lens photographs were used, numbered as follows:
54-0-32 thru 40
54-0-43 thru 61
54-0-63
54-0-75 thru 77
54-0-219 thru 225

Templets:
Vinylite templets were made for all photographs. The master templet was used to make adjustments for film and paper distortion.

Closure and adjustment of control:
Vinylite base sheets were prepared in this office. All control was transferred to the base sheets from the manuscripts.
Supplementary pass points established in a 1:20,000 scale radial plot of the area was transferred graphically to the 1:10,000 scale base sheets. This was done by means of transparent templet made for each point to be transferred. Four rays were drawn radially from the point through the grid intersections on the 1:20,000 base sheets. Then the templet was oriented over the corresponding grid intersections on the 1:10,000 base sheets and the point pricked through to the base sheet.

For additional information about this supplementary control see the photogrammetric plot report for the 1:20,000 radial plot of the area with 9-lens photographs.

The plot was laid in three parts. The first part extended from ROUND, 1908-11, northwest along Sukwans Strait to ROW, 1925. This includes all of Survey T-11501 and parts of T-11498 and T-11502 in this area, in addition to control identified in the field; some stations were identified in this office by referring to the descriptions.

This portion of the plot started with photographs 54-0-43 and 54-0-62 holding to ROUND, 1908-11 and pass points established in a radial plot for Surveys T-9435, to the south. The flight of photographs Nos. 54-0-43 through 54-0-48 was laid first because it was a continuous flight. Photographs 54-0-63, 61, and 60 were then laid. There was less than 50% overlap between photographs 58 and 59, and 59 and 60. Therefore, this flight was not continuous and could be laid holding only to the few common points established by the other flight. Both of these flights, however were tied in to ROW, 1925. After these flights were laid photographs 54-0-75 through 77 were laid holding to BRETT, 1908-14. This was done at that time to establish sufficient points to compile Survey No T-11501 in its entirety.

The second part of this radial plot consisted only of laying photographs 54-0-37 through 54-0-40 which are on Survey T-11500. These were laid holding to points established by the photographs 54-0-47 and 48 in the first part of the plot and to control stations which were identified in the office.

The third part of the plot was an extension of the three flights of single lens photographs northward into the area where the only control was that established in the 1:20,000 scale radial plot. It was extremely difficult to get a tight plot chiefly because of insufficient overlap between photographs in line of flight. Specifically, breaks occur in all three flights at the following places:

Between photographs 54-0-48 and 49;

" " 54-0-58 and 59;

" " 54-0-59 and 60; and in the flight from 54-0-32 through 40 all of the centers are in water areas except photographs 34, 39, and 40.

A tight plot in this area was finally achieved after considerable adjustment between the three flights. In this area, substitute station SUN, 1927 was held. Of the supplementary control points transferred from the 1:20,000 radial plot about two-thirds of them were held within 0.5 mm. This can be attributed to three causes: (1) The points selected
on the 1:20,000 photographs are not exactly the same as those on the 1:10,000 photographs, (2) In transferring the points from a 1:20,000 scale to a 1:10,000 scale discrepancies occurred. (3) The points are the product of two different plots using different photographs and base sheets.

Finally after the three flights were laid; the flight numbered 54-0-219 through 225 was laid. No great difficulty was encountered here, although again a break occurred in the flight line where photograph 54-0-221 and 222 did not have 50% overlap along the flight line.

The positions of all the pass points and photograph centers in the area north of RON, 1925 and FORT, 1908-25 are weak. It is difficult to estimate how far off the points may be on Survey T-11493 and the areas immediately adjacent. It is felt, however, that they are not in error by more than 1.5mm.

Transfer of points:
The positions of all photograph centers and pass points were transferred to the manuscript by superimposing the manuscripts on the plot and matching common grid intersections. All the supplementary control points were treated as pass points; i.e. where the positions of the points established in the 1:20,000 scale plot were not held, the positions established in this 1:10,000 scale plot were shown on the manuscript.

23. ADEQUACY OF CONTROL

With the points established in the 1:20,000 plot, the control should have been adequate, however, because of the inadequate 1:10,000 photography too much dependence had to be placed on the control from the 1:20,000 plot. If more of the established control had been identified in the field along the 54-0-32 through 40 flight then that flight could have been strengthened and the plot extended to the east to hold the supplemental 1:20,000 control points.

All of the control identified in the field was held except Sub Pt. "B" ROUND, 1908-14. The radially plotted position of Sub Pt. "B" is 0.7mm N of the plotted position. Sub Pt. "A" was held.

Of the 17 control stations identified in this office from descriptions, 10 were held within 0.5mm and all but two were off less than 1.0mm.

24. SUPPLEMENTAL DATA

Supplementary control established in a 1:20,000 scale radial plot was used as control for this radial plot Reference should be made to the 1:20,000 scale plot report for Surveys Nos. T-11492 thru T-11502.

25. PHOTOGRAPHY

The photography was inadequate in that too many of the photographs had less than 50% overlap in line of flight. In some areas definition
was poor; quite possibly because of the enlargement process.

Respectfully submitted
14 March, 1955

E.L. Williams
Carto. Photo. Aid
SUPPLEMENTARY
Photogrammetric Plot Report
Project Ph-117

Surveys T-11493, T-11494, T-11497, T-11498, T-11500 & T-11501

During the 1956 field season the triangulation network was extended northward from Hydaburg with 30 new stations. 22 of these were identified, as well as 17 existing control stations. All new control and identified points were plotted and used to verify the radial plot.

Except at stations PASS, 1925 and END, 1925, where minor local corrections in shoreline were needed, and in the Hydaburg area, the radial plot was found to be reasonably accurate in position. In the northern part of Natzuhini Bay, where the radial plot was considered weakest, the error was only about 0.3 mm.

At Hydaburg, Survey T-11498, the entire area from POINT, 1925 to HOOK, 1956 was moved northerly about 0.6 mm. The adjustment was made using the photographs under the map manuscript. It was not considered necessary to make templates and reassemble the radial plot.

Respectfully submitted
June 1957

Elmer L. Williams
Carto. (Photo.)
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<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>LATITUDE OR y-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>
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<td>YOMAN, 1958</td>
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1 FT. = 0.3048008 METER

COMPUTED BY: B. Wilson
DATE: 5 March 1959

CHECKED BY: H. R. Rudolph
DATE: 5 March 1959
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1 ft. = 3048000 meter

COMPUTED BY: J. Steinberg  DATE: 11/3/54
CHECKED BY: L. A. Senasack  DATE: 5 November 1954
The field inspection report and the photogrammetric plot report covering the area of this survey are part of Descriptive Report T-11497.

31. **DELINEATION**

The manuscript was delineated by graphic methods.

In areas where the shoreline was obscured by shadows or relief displacement of trees, the shoreline was shown with a broken line.

The manuscript is to be considered incomplete except in the area of South Pass eastward and northward from Goat Island Light and Lone Spruce Rock.

32. **CONTROL**

The identification, density and placement of horizontal control was satisfactory.

33. **SUPPLEMENTAL DATA**

Chart 8151, the Coast Pilot and triangulation station descriptions were used for geographic names.

34. **CONTOURS AND DRAINAGE**

Contours: Not applicable.
Drainage: No comment.

35. **SHORELINE AND ALONGSHORE DETAILS**

The delineation of the shoreline is based on office interpretation of the photographs aided by the descriptions of control stations in the area. Field data verified most of the office delineation in the South Pass area and furnished foreshore classifications and rock elevations.

The low-water and foul lines were based on office interpretation of the photographs. This was supplemented in the South Pass area by field inspection.

36. **OFFSHORE DETAILS**

No comment.

37. **LANDMARKS AND AIDS**

Form 567 for two aids to navigation has been submitted to the Washington Office on 1 April 1959.
38. CONTROL FOR FUTURE SURVEYS

Three (3) Forms 524, one each for stations IVY, 1956; JIM, 1956 and PEP, 1956 were submitted with the manuscript in June 1957.

IVY, 1956 is listed as a hydrographic signal in item 3 and as a topographic station in item 16 of the Field Inspection Report for Maps T-11493-497-498, T-11500-501. (This report is filed with Descriptive Report T-11497)

Since hydrography has been completed in the area, item 49 is omitted from this report.

39. JUNCTIONS

Junction has been made and is in agreement with T-11497 to the north. The survey joins T-11501 to the east; there are no details along this line.

There are no contemporary surveys to the west or south.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 through 45

Not needed

46. COMPARISON WITH EXISTING MAPS


47. COMPARISON WITH NAUTICAL CHARTS

Chart 8151, scale 1:40,000, published September 1929, and corrected to 6/9/52.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted

R. Glaser
Carto. (Photo.)

Approved and forwarded

William E. Randall
LORDR, C&GS
Baltimore District Officer
GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-117 (Alaska)

T-11500

Corlies Islands
Deadman Island
Fishhook Island
Fort Islet
Goat Island
Goat Mouth Inlet
Lone Spruce Rock
Nichols Islands
Passage Island
South Pass
Sukwan Island
The Sentinels
Tlevak Strait
Turn Rock
Whisker Point

Approved by:

A. J. Wright
Chief Geographer

Prepared by:

Frank W. Fickett
Cartographic Technician
T-11500

NOTES TO REVIEWER

6/16/60

The descriptive report has been written at this late date to comply with the request from W. O. to complete the file on this project. No report was written to date because the manuscript is classified "Incomplete" - the only completed part being the area of South Pass.

The manuscript and three Forms 524 were submitted to W. O. in June 1957. All remaining forms and supplemental data were submitted via truck on 2 April 1959, package no. 74, 1959. The transmitting letter is dated 4/1/59.

Although this office has on hand the latest copy of Chart 8151 corrected to 7/27/59, item 47 in the compilation report makes comparison with the older chart corrected to 6/9/52. This was done to avoid the incongruity of comparing the manuscript, compiled in 1957, with a chart corrected to 1959.

Goat Island Light was located on the manuscript from the description of station FORT, 1908-25. Turn Rock Daybeacon was located in the same position as station ARK, 1907-14 because of the small size of the rock. These locations should be verified.

The G.P. pads show the date of the establishment of stations FORT, LAP and NUT as 1908; the descriptions of these stations indicate the date as 1907.
PHOTOGRAMMETRIC OFFICE REVIEW

T. 11500


CONTROL STATIONS

ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES
31. Boundary lines  32. Public land lines  

MISCELLANEOUS

40. 
Reviewer

Supervisor, Review Section or Unit

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.

Information is not available

43. Remarks:

Compiler  Supervisor

COMM. DC 34529
61. **General Statement**

The registration manuscript copy for T-11500 was made from the negative of the "Incomplete Manuscript" (see "Notes to Reviewer"). The original manuscript is lost.

The shoreline on hydrographic survey 8325 in the vicinity of South Pass and Goat Island was taken from survey T-11500 before field inspection was applied. It is recommended that the shoreline on hydrographic survey 8325 be changed where differences occur to agree with the photogrammetric survey. A "Notes to the Verifier" page is inserted in the Descriptive Report for H-8325. Field photograph 54-0-47 shows these changes.

Differences in some rock elevations were found between photogrammetric survey T-11500 and hydrographic survey 8325 (refer to summary, Rock Elevation). These elevations were removed from T-11500.

62. **Comparison with Registered Topographic Surveys**

Comparison was made with topographic surveys 3325, 1:5,000 scale, dated 1912 and 3314, 1:20,000 scale, dated 1912. These surveys are superseded for charting by T-11500.

63. **Comparison with Maps of Other Agencies**

Comparison was made with USGS Craig (A-3), Alaska, quadrangle, scale 1:63,360, dated 1948. No differences of importance were found in the comparison.

64. **Comparison with Contemporary Hydrographic Surveys**

Survey T-11500 was used as a base for new hydrography. Hydrographic survey 8325 (unverified) 1:10,000 scale, dated 1956 was used for comparison. This survey covers only the part of T-11500 in the vicinity of South Pass. No other contemporary surveys were available at the time of review. The agreement is good, except for changes mentioned in paragraph 61.
65. **Comparison with Nautical Charts**

Comparison was made with Chart 8151, 1:40,000 scale, 9th Edition, corrected to February 26, 1968. No significant differences were found in the comparison.

66. **Adequacy of Results and Future Surveys**

(Refer to Summary, "Map Accuracy").

Reviewed by,

Donald M. Brant

Approved by,

Charles Kramer

Jack E. Tittel

Chief, Photogrammetric Branch

Chief, Photogrammetry Division
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks becharted on the charts indicated.

The positions given have been checked after listing by T. E. Simkin

<table>
<thead>
<tr>
<th>STATE</th>
<th>S. E. ALASKA</th>
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</thead>
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<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
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<td>Daybeacon</td>
<td>Turn Rock Daybeacon</td>
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<tr>
<td>Light</td>
<td>Goat Island Light</td>
</tr>
</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. 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.