Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. Ph-117 Office No. T-11496

LOCALITY

State Alaska

General locality Tlevak Strait

Locality Farallon Bay to Shelikof Island

CHIEF OF PARTY

F. X. Popper, Chief of Field Party
William F. Deane, Baltimore District Office

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DESCRIPTIVE REPORT - DATA RECORD

T -11496

Project No. (II): Ph-117

Quadrangle Name (IV):

Field Office (II): USC&GS Ship PATTON

Chief of Party:

F. X. Popper

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge:

E. H. Kirsch

W. F. Deane

Instructions dated (II) (III): 11 October 1954

7 January 1955

9 December 1955 1 November 1957

11 June 1958

Copy filed in Division of: Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III):

1.000

Date received in Washington Office (IV): $2 4 0 C^{7}$

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

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 (5) refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III): GUIDE, 1907

Lat.: 55° 12' 59.934" (1853.5 m) Long.: 133° 04' 13.675" (241.8 m)

Adjusted DEPENDENCE OF THE PROPERTY OF

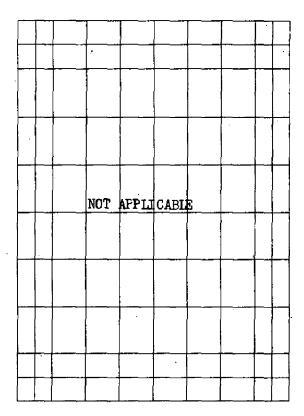
Plane Coordinates (IV):

State: Alaska - UTM Zone:

Y=

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)
(11) (111)

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): K. W. Jeffers

1958 Date:

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): 1954, date of photography. Field inspection, 1958, on 1955 photography.

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

10/25/54 Date:

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

10/26/54 Date:

Control plotted by (III): B. Wilson

12/1/54 Date:

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

12/14/54 Date:

Radial Plot on Statement Country

3/14/55 Date:

INDEXOCATAMENT (III): . E. L. Williams

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

J. B. Phillips Manuscript delineated by (III):

J. Honick

9/9/58 Date:

R. Glaser Photogrammetric Office Review by (III):

Date:

9/19/58

Elevations on Manuscript

checked by (II) (III):

Date:

Number

54-0-32 thru 35

55-W-9098 thru 9100

45418

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

4.6 above MLLW

DESCRIPTIVE REPORT - DATA RECORD

1149

Camera (kind or source) (III): Nine-lens, single lens, "O" and "W"

Date

8/6/55

PHOTOGRAPHS (III)	
Time	Scale	Stage of Tide
1133 1040	1:20,000 1:10,000	0.3 below MLLW

Tide (III)
From Predicted Tide Tables

Reference Station: Subordinate Station:

Sitka, Alaska

Subordinate Station: No Subordinate Station:

North Bay

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

Date: JUNE 1970

Ratio of Mean | Spring Ranges | Range | Range

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Date:

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III):

Number of BMs searched for (II):

Shoreline (More than 200 meters to opposite shore) (III): 25 mi.

Shoreline (Less than 200 meters to opposite shore) (III): 2.4 mi.

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 13

Recovered: 11

Recovered:

Identified: 4

Identified:

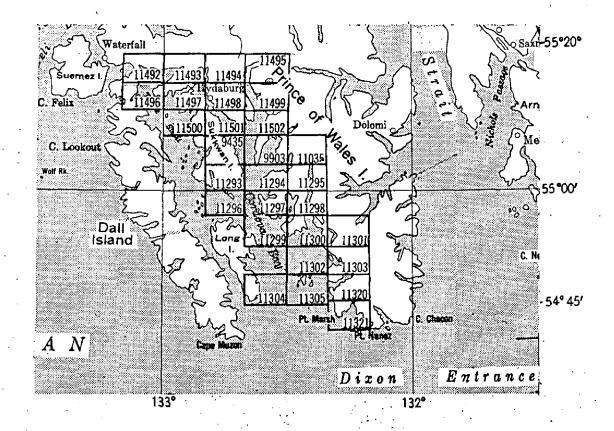
Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks: 8 new triangulations established in 1958 - 5 identified.

COMM- DC- 57842

SHORELINE MAPPING PROJECT PH - 117 Cordova Bay & Vicinity of S.E. Alaska



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	11304
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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 ninelens 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 T-11492, T-11493, T-11496

2. AREAL FIELD INSPECTION

This report overs the shoreline from Meares Island on the northwest side of Tlevak Narrows to just south of Farallon Bay in Tlevak Strait, including Soda Bay. The inspection was made from a skiff, with landings being made at frequent intervals.

The shoreline is generally rocky with trees overhanging the high water line in many areas. The region is cluttered with small islands, reefs, and foul areas.

Cultural features are virtually absent; there being only a few trappers' shacks and a logger's camp present in the entire region.

Photo coverage is fair with the exception of the Lively Islands and Guide Is. These islands are visible only on the fringe of a few photographs, and are quite blurred. Shadows obscure the high water line and recoverable horizontal control points in some cases.

3. HORIZONTAL CONTROL

(a) The following stations were established in 1958 to control the photographs in Soda Bay

Second Order		\mathbf{r}_{h}	ird Order	(Intersection)
ABLE ECC.		•	Block I	sland Light
FIRST*	•		Lively	Island Light
INTER				•
LIKOF*			•	
NA TAL	•			,
PHOTO*				
ROUND*			1	
SODA:		•		
SHELI				
· SUNNY*			`	
TROUT* WALES*			•	
*Stations identified on the p	hotographs.			

3. HORIZONTAL CONTROL (Contin.)

To control the photographs in the vicinity of Halibut

Nose, Station STEEP, 1958 was established and identified on the photographs.

Triangulation

The triangulation data for this station is included with the report. This station will be incorporated in the triangulation scheme through North Pass at a later date.

- (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/or identified on the photographs.
- (e) All Coast and Geodetic Survey stations in the area were thoroughly searched for. The following stations were reported as searched for, not found, and presumed lost:

BIG 1907
-DARK 1907
-GUND 1907
-ISLE 1907
-NORTH BASE (North Bay) 1907
-OUT 1907
-SOUTH BASE (North Bay) 1907
-TURN 1907

4. VERTICAL CONTROL

In applicable

CONTOURS AND DRAINAGE

Inapplicable

6. WOODLAND COVER

The area is covered with a dense growth of trees composed mainly of spruce, cedar and hemlock. The tree line and high water line
coincided or are very close in many places.

7. SHORELINE AND ALONGSHORE FEATURES

(a) The mean high water line is indicated at various places on the photographs. In general it appears as the seaward side of a distinct white line on the photographs. This white area is caused by grass covered rock or the jumble of driftwood lining the beach. In some areas the high water line is obscured by shadows or overhanging trees; however, a comparison with the manuscripts indicated that the office interpretation was correct for charting purposes.

In the region of Tlevak Narrows where extensive areas bare at low water, a visual inspection on the ground was made and the high water line sketched on the photographs.

- (b) The low water line is dotted on the photographs at various places. This line will be better defined after the hydrographic survey has been completed.
- (c) The foreshore is characterized by boulders in the greater part of the area. Bedrock is exposed in many places, and some stone and gravel beaches are present. There are no beaches composed of sand and gravel such as shown on the manuscripts. The foreshore is labeled at various locations on the photographs.
- (d) There are no high bluffs or cliffs along the shore line. The southern shore of Shelikof Island has a few low cliffs (10 to 20 feet) and rock ledges that rise from the water's edge.
- (e) There are no docks, wharves, piers, or landings in the area.
 - (f) There are no submarine cables in the area.

8. OFFSHORE FEATURES:

The only offshore features are rocks, reefs, shoals, and kelp beds. Heights of rocks and reefs above the water surface were estimated and noted on the photos along with the time (120th meridian) and date. Hand lead soundings were made and depth noted on some shoals and foul areas that were covered by water at the time of inspection. Kelp beds visible on the photos were noted as such, and the kelp symbol was used in other areas.

9. LANDMARKS AND AIDS:

There are no landmarks in the area. Three fixed aids to navigation in the area are: Meares Island Light, Block Island Light, and Lively Islands Light. Meares Island Light will be located by planetable. The other two were located by intersection using a theodolite.

The only floating aid to navigation is the red buoy on the northwest side of Tlevak Narrows. It will be located by plane table.

None of these aids were pricked on the photographs.

10. BOUNDARIES, MONUMENTS, AND LINES:

Inapplicable.

11. OTHER CONTROL:

No other control was established at this time. A planetable graphic control sheet will be made of the area north of Tlevak Narrows prior to the hydrographic survey.

12. OTHER INTERIOR FEATURES:

None.

13. GEOGRAPHIC NAMES:

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

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA:

Data forwarded separately from this report are:

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA (Contin.):

Field and Office Photographs.

Control Station Identification Cards.

Descriptions of Recoverable Triangulation Stations.

Complete triangulation data for stations established.

15. LIST OF CONTROL STATIONS IDENTIFIED:

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

Station	Manuscri.pt	Photo No.
CEDAR, 1907	T-111492	55W9090
EAST, 1907	T-11496	55 ™ 9098
FIRST, 1958	` T-1 1496	55W9711
KNOB, 1907	T-11496	551900
LIKOF, 1 907	T-13496	55119712
MID, 1907	T-11492	55W9713
Moss, 1907	T-11492	55M9090
PHOTO, 1958	T-11493	55W9710
ROUND, 1958	T-11493	55W9710
SAW, 1907	T-11492	55119090
SODA, 1958	T-11496	55N9 7 11
STEEP, 1958	T-11496	54-0-35
SUNNY, 1958	T-11493	55W9710
TROUT, 1958	T-111193	55W9710
WALES, 1958	T-11496	55W9711

Respectfully submitted,

K. W. Jeffers
ENS C&GS

Ship PATTON

Approved & Forwarded:

Francis X. Popper Francis X. Popper ICDR C&GS Cmdg., Ship PATTON



PHOTOGRAMMETRIC PLOT REPORT PROJECT PH-117 SURVEYS T-11492 thru T-11502

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.

Templets:

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 Hetta 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 make be in error by 0.5mm or more in this plot. When transferred to 1:10,000 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 con 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, Alleother 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

Frank J. Warcza *U* Supervisory Cartographer _y Control

stations

Control

Stations

loffice identified

Nine-lens office

photographs

24

PHOTOGRAMMETRIC PLOT REPORT PROJECT PH- 117 SUVREYS T-11492, T-11493, T-11494 T-11496, T-11497, T-11498 T-11500, T-11501, T-11502

21. AREA COVERED

This radial plot report covers: (1) The entire area of Surveys Nos. T-11493, T-11497, T-11500 and T-11501; (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 south west corner of Survey. No. T-11502.

Another radial plot report for Hetta Inler 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 Mercater, 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 1:27,500 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 templets 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, 1908-14 northwest along SukkwanStrait 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, 1908-14 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 northwestward 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 photographs54-0-48 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 occured 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 ROW, 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 manuscripts 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 dependance 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

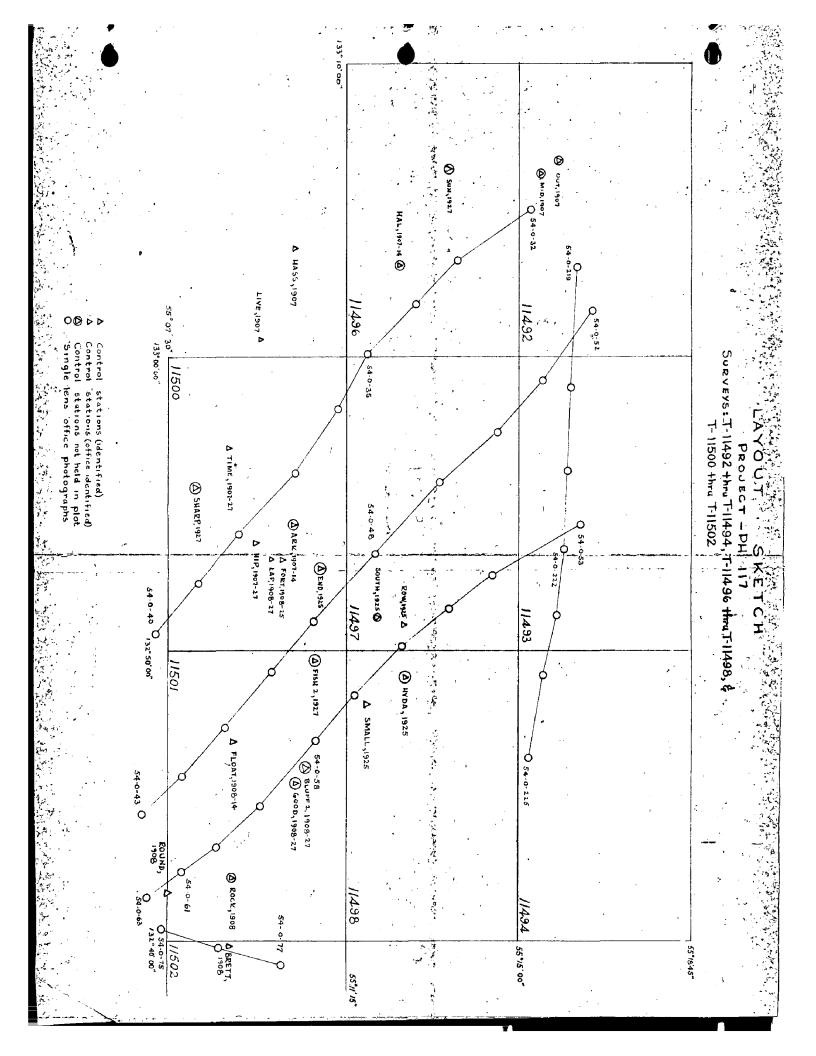
The photography was inadequate in that too many of the photographs had less than 50% overlap in line of flight,. In some areas definition

was poor; quite possibly because of the enlargement process.

Respectfully submitted 14 March, 1955

E.L. Williams

Carto. Photo. Aid



DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

PROJECT NO. Ph-117....

MAP T-11,196....

CONTROL RECORD

COAST AND GEODETIC SURVEY

SCALE OF MAP.1.110,000...

SCALE FACTOR

DISTANCE FROM GRID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS COMM- DC- 5784 (BACK) B FORWARD 6/23/58 (240.7) 35.9) 7.9) (0,111 484.3) 39.7) 210.7) (1058.6)(821.1) (888.2) (1476.5)(21.5)(1156.2)360.1) 548.6) 210.0) 223.3) 924.2) 910.2) (894.8) (1271.5)56.1) 234.9) (812.6)(BACK) N.A. 1927 - DATUM DATE... FORWARD 379.0 820.4 399.3 1.6 9.648 1020.8 584.0 825.2 931.3 945.3 1042.9 165,3 700.3 1645.5 836.8 171.9 1371.2 1644.8 1847.6 1744.5 1024.3 1034.4 1004.2 511.L CORRECTION CHECKED BY. R. Glaser DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS (BACK) FORWARD LONGITUDE OR X-COORDINATE LATITUDE OR y-COORDINATE 12.256 59.746 53.188 56.412 28.946 57.752 30,115 09.356 44.341 56.828 16.706 00.088 33.722 39,626 18.884 10 June 1958 8 14 8 8 28 72 귀 77 1,4 7 8 5 ટુ 7 02 13 70 큐 디 77 디 ಠ 133 133 汉 133 133 汉 133 ጷ 133 2 133 ኢ 133 껐 133 汉 끘 133 윘 55 133 윘 ሊ 133 DATE.... DATUM N. A. 1927 = = = £ = = = = Ŧ * = SOURCE OF INFORMATION (INDEX) I FT. = .3048006 METER F. J. Tarcsa Field Comp. = = = = = = z ABLE ECCENTRIC, 1958 STATION LI VELY ISLAND LIGHT, 1958 COMPUTED BY:.. STEEP, 1958 WALES, 1958 WALES, 1958 STEEP, 1958 LIKOF, 1958 NATAL, 1958 FIRST, 1958 FIRST, 1958 Sub. Pt. SODA, 1958 SODA, 1958 Sub. Pt. Sub. Pt. Sub. Pt.

FORM **164** (4-23-54)

COAST AND GEODETIC SURVEY
CONTROL RECORD DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

> FORM 164 (4-23-54)

MAP T. 11496				PROJECT NO. Ph-117	17	SCALE OF MAP 1:10,000	00000	SCALE FACTOR	JR.
STATION		SOURCE OF INFORMATION (INDEX)		LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
GONE, 1907		G-609 p. 240	N.A. 1927	55 14 133 06	1 36.948 5 04.936			1142.6 (712.9) 87.2 (972.9)	
BUM, 1907		=	=	55 14 133 05	11.809			365.2 (1490.3)	
ABLE, 1907		=	=	55 14 133 05				2.6 (1852.9)	
SUN, 1907		0-609 р. 243	=	133 05				1449.5 (406.0) 786.0 (274.5)	
REEF, 1907		G-609 p. 239		55 13				1206.2 (649.3) 1053.9 (6.6)	
NORTH BAY, BASE, 1907	NORTH	G-609 p. 239		55 13	3 18.029	Stations 2 2 2		557.5 (1298.0) 33.9 (1026.8)	
NORTH BAY, BASE, 1907	SOUTH	0-609 p. 240	=	55 13 133 06	3 05.75µ 6 20.568	(not me o		177.9 (1677.6) 363.6 (697.2)	
FAR, 1907		G-609 p. 239	E	55 13	3 00°.701 5 38°.946			21.7 (1833.8) 688.5 (372.2)	
GUIDE, 1907	1	n	E	55 1 133 0				1853.5 (2.0) 241.8 (819.0)	9 21 -
EAST, 1907		* *		55 12	12 59.968 05 49.361			1854.5 (1.0) 872.8 (188.1)	
MOON, 1907		G-609 p. 240		133 0	12 47.139 06 08.891			157.2 (903.7)	- 25-
HAL, 1907-14	큐	G-609 p. 239	=	55 1	12 32.872 02 21.191			1016.6 (838.9) 374.7 (686.3)	
COMPUTED BY: J. Steinberg	WETER Y. J. S.	teinberg		DATE 11/3/54		CHECKED BY. L. A. Senasack.	4. Senasa		DATE 8 November 1954

FORM 164 (4-23.54)

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY CONTROL RECORD

DISTANCE
FROM GAJD OR PROJECTION LINE
FROM GRID OR PROJECTION LINE
IN METERS CON- DC- 5784 (BACK) FORWARD SCALE FACTOR (4,5,5) 313.9 (15/11.6) (6-114) 5-5441 (614.6) 922.4) 670.2) 513.3 (548.8) (1575.2)(281.7)(BACK) (1021.2)N.A. 1927 - DATUM 279.8 391.3 1/10.0 447.3 778.8 0.04 933.1 FORWARD SCALE OF MAP 1:10,000 DATUM OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (BACK) S. of survey FORWARD PROJECT NO. Ph-117 45.597 09.047 02,260 30.173 22,116 25.273 LONGITUDE OR x-COORDINATE LATITUDE OR y-COORDINATE 11/3/21 9 ង 2 경 디 ឧ 03 = S 검 \mathcal{R} 133 3 133 7% 133 弘 133 \mathcal{R} 133 DATUM N.A. 1927 = = = = SOURCE OF INFORMATION (INDEX) G-609 p• 239 0-609 p. 238 Comp. COMPUTED BY J. Steinberg = = MAP T. 11496 1 FT.= .3048006 METER STATION 41-7091 , 1907-1h MAC, 1907-14 Sub. Pt. HASS, 1907 FLAT, 1907 Sub. Pt. SUN, 1927

DATE 5 November 1954

CHECKED BY. L. A. Senasack

DATE.

COMPILATION REPORT T-11496

The Field Inspection Report is a part of Descriptive Report,
T-11492*

The photogrammetric plot reports are a part of Descriptive Report, T-11193.

31. DELINEATION

This survey was compiled by graphic methods. Nine-lens photographs, scale 1:20,000, were used with a vertical projector to supplement the single lens photography and to delineate shorelines of North Bay and Farallon Bay.

32. CONTROL

The triangulation network was extended northeastward beyond Shelikof Island into Soda Bay in 1958, after original compilation was done. Identification of these new stations verified the accuracy of the radial plot.

33. SUPPLEMENTAL DATA

A copy of Hydrographic Survey PA-1458 was available for comparison with portions of this manuscript.

34. CONTOURS AND DRAINAGE

Contours: Not applicable. Drainage: No comment.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline delineation was by office interpretation of 1954 photographs and was verified and corrected where necessary by field inspection in 1958. Inspection in North Bay and Farallon Bay was on 1955 "W" camera photography which was not available for the original compilation. The inspection of shoreline, rocks, foul areas and offshore reefs was satisfactory but the foreshore delineation and classification is inadequate.

The incomplete manuscript showed office interpreted rock ledge in the foreshore but the existence or extent of the ledge was not verified or inspected on the field photographs.

In some places the foreshore was inspected as "P" which was assumed to be "pebbles". This was translated by the compiler to "gravel". Also, the classification "stones" was furnished by the field inspection and although it is irregular, it was used on the manuscript.

Low water lines were compiled from 1954 photographs by office interpretation. These photographs were at a very low stage of tide. Field inspection in a few places verified the accuracy of office interpretation.

The few foul areas shown are from field inspection.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

The one aid to navigation appearing on this survey was located by triangulation during 1958 field season.

38. CONTROL FOR FUTURE SURVEYS

None established.

39. JUNCTIONS

Junctions are in agreement with T-11492 to the north and with T-11497 to the east. There are no contemporary surveys to the west and south.

40. HORIZONTAL AND VERTICAL ACCURACY

See paragraph 32.

41 through 45:

Not applicable.

46. COMPARISON WITH EXISTING MAPS

This survey was compared with USGS Craig, Alaska quadrangle, scale 1:250,000, 1952 edition.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart 8151, 1929 edition, corrected to 6/9/52, scale 1:40,000.

Items to be applied to nautical charts immediately:

None

Items to be carried forward:

None

Respectfully submitted 11 September 1958

Frank Starga Frank J. Tarcza

Super. Carto. (Photo.)

Approved and forwarded

William J. Deane William F. Deane,

CDR C&GS

Baltimore District Officer

August 17, 1970

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-117 (Alaska)

T-11496 ·

Cayman Point

Dall Island

Farallon Bay

Guide Island

Halibut Nose

Hassler Point

Lively Islands

Natalia Island

Natalia Point

North Bay

Prince of Wales Island

Round Island

Shelikof Island

Soda Bay

Tlevak Straight

Approved by:

A. Joseph Wraight Chief Geographer

Prepared by

Frank W. Pickett Cartographic Technician

9-26-58

50-

PHOTOGRAMMETRIC OFFICE REVIEW

T. 11496

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42. Addit	ons and corrections furnished by	the field completion survey have ted under item 43. Information	been applied to the manuscript. I
	FIELD COMPLETION A	DDITIONS AND CORRECTIONS TO	O THE MANUSCRIPT
' 41. Rema	rks (see attached sheet)	igcup	
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40	Reviewer		upervisor, Review Section of Unit
overlay	37. Descriptive Report	38. Field inspection pho	tographs 39. Forms
	_		e manuscript 36. Discrepa
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31. Boun	dary lines32. Public.l	and lines	
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27, Road	3 28. Buildings	29. Railroads 30. Q	ther cultural features
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features_			
		rs in general 25. Spot	t elevations 26. Other phys
	_		
		PHYSICAL FEATURES	table contours 23. Stereosco
shore cult	ural features		
to navigat	ion17. Landmarks	18. Other alongshore phys	ical features 19. Other alon
			15. Bridges16. A
•	,	(Nautical Chart Data)	
		ALONGSHORE AREAS	
		hotogrammetric plot report	
			ations8. Bench marks
5. Horizor	ital control stations of third-ords	,	5. Recoverable horizontal stations of I
		CONTROL STATIONS	
		CONTROL STATIONS	4a. Classification label

Review Report T-11496 Shoreline Mapping

August 1970

61. General Statement

Differences in some rock elevations were found between photogrammetric survey T-11496 and hydrographic surveys 8455 and 8457 (refer to Summary, Rock Elevations). These elevations were removed from T-11496.

The following data was used during final review:

Field photographs 55-W-0-9711 thru 9713 55-W-0-9098 and 9100 54-W-0-32 and 35 Graphic Control Surveys Patt-58-B and C.

62. Comparison with Registered Topographic Surveys

Comparison was made with T-3314, 1:20,000 scale, dated 1912 and T-3376, 1:10,000 scale, dated 1912. These surveys are superseded for charting by T-11496.

63. Comparison with Maps of Other Agencies

Comparison was made with USGS Craig (A-4), Alaska, quadrangle, scale 1:63,360, 1948 edition. No significant differences were found in the comparison.

64. Comparison with Contemporary Hydrography Surveys

Survey T-11496 was used as a base for new hydrography. The contemporary hydrographic surveys 8455 (unverified) 1:10,000 scale, dated 1960, 8457 (unverified), 1:10,000 scale, dated 1958 and 8458, 1:10,000 scale, dated 1958 were used for comparison. There is no contemporary survey covering the southern portion of T-11496.

The agreement is good, except for a rock omitted on H-8458. The rock is on the edge of a reef and bares two feet at MHW (field photograph 54-0-32). The approximate location is between latitude 55°14'00"-55°14'30" and longitudes 133°05'30"-133°06'00". A "Notes to the Reviewer" page is inserted in the Descriptive Report for H-8458.

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.) _ page 6

Reviewed by,

Donald M. Brant

Approved by,

Chief, Photogrammetric Branch po Chief, Photogrammetry Division

F COMMERCE DEPARTMENT

U. S. COAST. AND. GEODETIC. SURVEY.

NONFLOATING AIDS OR/KANGOMARKS/FOR/GHARRS

STRIKE OUT ONE TO BE CHARTED WAY HELY

Baltimore, Maryland

10 Sept.

19.58

I recommend that the following objects which have MAVIAM been inspected from seaward to determine their value as landmarks be charted on (491/1441) the charts indicated.

The positions given have been checked after listing by

STATE	ALASKA			.:	POSITION		·	METHOD		DIY	
,	-		TATIT	LATITUDE.	LONG	LONGITUDE *		LOCATION		EE CH	CHARTS
CHARTING NAME	DESCRIPTION	BEGNAL	0	D. M. METERS		D. P. METERS	DATUM	SURVEY No.	COCATION	HEND OFFE	
對	LIVELY ISLAND LICHT, 1958	,	55 13		133 Ou	57.752 1020.8	N.A. 1927	T-11496 Tr1.	1958	H	619
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	NOTE: Position furnished by field party.	party.									
	Form 567, if submitted by field party,	ield part	SEM	not available at		the office.	.69.				
•											
] 						

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. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS