

11298

11298

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	Shoreline (Photogrammetric)
Field No. <sup>PH</sup> 6117	Office No. T-11298
LOCALITY	
State	ALASKA
General locality	Cordova Bay
Locality	Kassa Inlet and Klakas Inlet
1953 - 1954	
CHIEF OF PARTY	
J. Bowie, Chief of Field Party	
E. H. Kirsch, Baltimore District Officer	
LIBRARY & ARCHIVES	
DATE	

COMM-DC 61300

DATA RECORD

T -11298

Project No. (II): <sup>PH</sup> 6117      Quadrangle Name (IV):

Field Office (II): USCGS Ship HODGSON

Chief of Party: J. Bowie

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: E. H. Kirsch

Instructions dated (II) (III):

Field: 17 Mar. 1953  
8 Jan. 1954

Office: 7 Dec. 1953  
11 Oct. 1954

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) 3-27-56      Date reported to Nautical Chart Branch (IV): 3-24-56

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): KLINK, 1909

Lat.: 54° 52' 53.895" (1666.6m)

Long.: 132° 22' 34.196" (609.7m)

Adjusted  
~~Unadjusted~~

Plane Coordinates (IV):

State: Alaska

Zone: 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.



DATA RECORD

Field Inspection by (II): R. C. Munson, J. J. Dermody

Date: 1954 Field season

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): 1953 date of photography and Office interpretation.

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

Date: 1/8/54

Projection and Grids checked by (IV): H. B. Wolfe

Date: 1/8/54

Control plotted by (III): J. C. Cregan

Date: 1/20/54

Control checked by (III): R. Glaser

Date: 2/2/54

Radial Plot or Stereoscopic

Date: 2/19/54

~~Control extension~~ by (III): H. R. Rudolph

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): J. C. Cregan

Date: 3/6/54

Photogrammetric Office Review by (III): R. Glaser

Date: 3/13/54  
3/2/55

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

Date:

Camera (kind or source) (III): USC&GS nine-lens and single lens

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
41038 thru 41042	7/8/53	1656	1:10,000	4.8' above MLLW
41060 thru 41062	"	1709	"	5.1' " "
45497 & 45498 54-0-283 thru 285	7/6/54	unknown	1:20,000	unknown
	"	1106	1:10,000	1.1' above MLLW

Tide (III)

Reference Station: Sitka  
 Subordinate Station: Kassa Inlet  
 Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	7.7	9.9
1.3	9.8	12.4

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

Date: SEPT. 1970

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

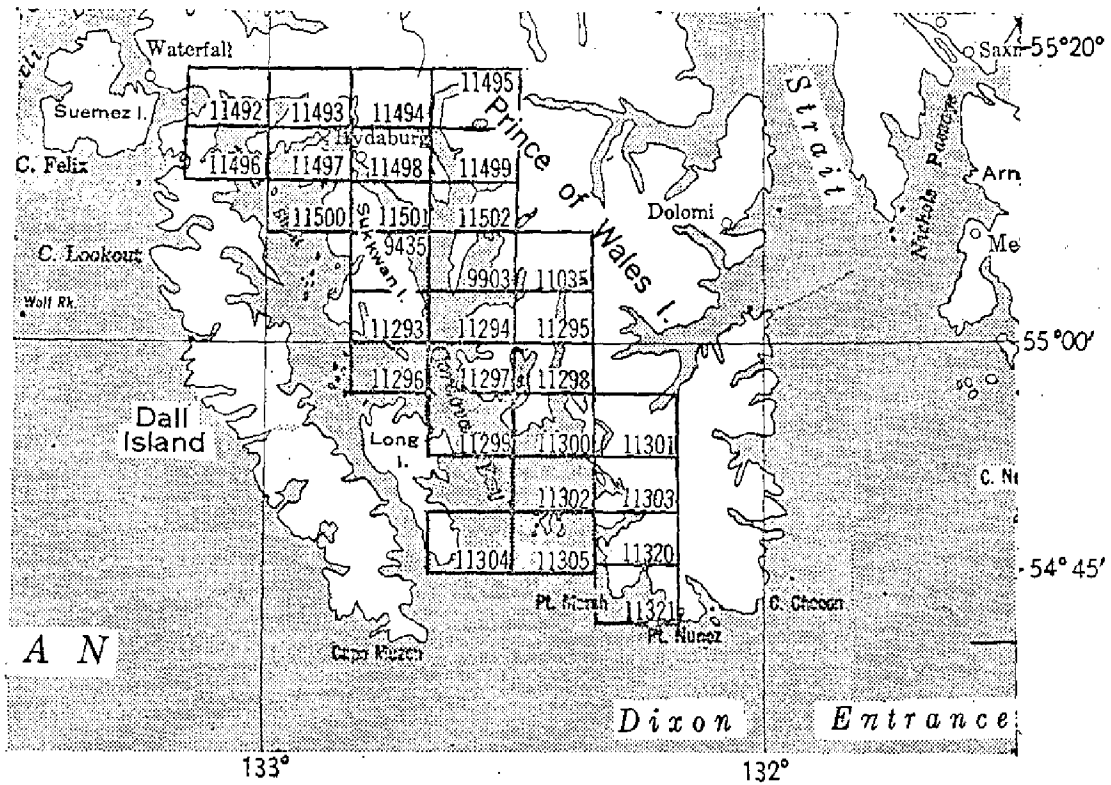
Date:

Land Area (Sq. Statute Miles) (III): 6.2  
 Shoreline (More than 200 meters to opposite shore) (III): 31  
 Shoreline (Less than 200 meters to opposite shore) (III): 0  
 Control Leveling - Miles (II):  
 Number of Triangulation Stations searched for (II): none Recovered:  
 Number of BMs searched for (II): Recovered:  
 Number of Recoverable Photo Stations established (III): 4 Identified:  
 Number of Temporary Photo Hydro Stations established (III): 38 Identified:

Remarks:

# SHORELINE MAPPING PROJECT PH-117

## Cordova Bay & Vicinity of S.E. Alaska



OFFICIAL MILEAGE FOR COST ACCOUNTS			
SHEET NO.	AREA SQ. MILES	LIN. MI. SHORELINE	
9435	13	13	11304 12
9903	21	21	11305 37
11035	9	9	11320 24
11293	20	20	11321 20
11294	15	15	11492 24
11295	13	13	11493 12
11296	14	14	11494 2
11297	21	21	11495 16
11298	23	23	11496 17
11299	16	16	11497 26
11300	31	31	11498 8
11301	7	7	11499 11
11302	18	18	11500 27
11303	24	14	11501 17
			11502 15
		TOTALS	503 503

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

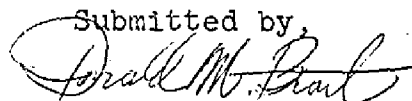
Differences in some rock elevations were found during final review between a number of the photogrammetric surveys and the contemporary hydrographic surveys. It was decided in conference with the Hydrographic Review Branch that since the rock elevations were from predicted tides they would be removed 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

HUNTER BAY, RUTH BAY, KLAKAS INLET, KASSA INLET THRU HASSIAH INLET AND VICINITY OF JACKSON ISLAND.

CORDOVA BAY - S. E. ALASKA

1954 FIELD SEASON

PH-117 CS-357

2. AREAL FIELD INSPECTION

The area covered in this report is located on the southwest side of Prince of Wales Island from Hunter Bay thru Hassiah Inlet on the east side of Cordova Bay and the vicinity of Jackson Island on the west side of Cordova Bay.

There are no salient cultural features. The only natural feature is the land area is densely covered with coniferous trees.

This field inspection is believed to be standard.

The area from Hunter Bay through Hassiah Inlet is covered adequately with nine-lens (scale 1/10,000) photographs. The good quality of the photos enabled an adequate field inspection in all of this area with the exception of the west shore of Klakas Inlet which is covered with heavy shadows. The quality of the Navy SEA Prints (scale ratio 1/10,000) covering the vicinity of Jackson Island is very poor. This poor quality made it difficult for field inspection and for recovery of office photo prints used to locate the photo-hydro signals.

Densities and tones were not inspected on the land area. In the water area, shoals and kelp area are easily discernable.

3, 4, 5. Inapplicable

6. WOODLAND COVER

All land area not covered by storm high water is densely wooded with coniferous trees with the exception of the small logged-off areas and the few bare mountain peaks.

7. SHORELINE AND ALONGSHORE FEATURES

(a) The shoreline was inspected from the beach at the photo-hydro signal locations. All other areas were inspected from a boat. The mean high water line is delineated on the field photos. In the areas where the gradient of the beach is steep, the MHWL corresponds closely with the treeline. Elsewhere it is distinguished on the photos by a black band (water action on the rock and dried kelp) along the beach.



(b) The low water line is dotted on the field photographs as it was observed at times of low tide. The low water line corresponds to the off-shore edge of the light color tone along the water line on the photos.

(c) The foreshore is rock and boulders with a few areas of sand and gravel at the stream mouths and at the head of the small bights.

(d) The only prominent structures along the shoreline are the fish traps moorings. These moorings are located as follows:

- 1. East end of Hunter Bay
- 2. Destroyed cannery site in Hunter Bay
- 3. Clam Cove in Kassa Inlet

8. OFFSHORE FEATURES

All apparent offshore features were visited and where it was possible a landing was made. All of the rocks and shoals are defined on the field photos and the heights and depths, times and dates pertaining to each feature are noted. All heights are estimated and all depths are measured.

All of the rocks noted during field inspection and hydrography are visible on the photos although some of them were not located on the preliminary manuscript. These rocks and their heights are shown on the field photos.

9. LANDMARKS AND AIDS

There are two fixed aids to navigation: (1) the Beacon on the rock in the middle of Hunter Bay. (2) Mellen Rock Light.

10. Inapplicable

11. OTHER CONTROL

The following is the list of photo-hydro signals and the method used for their location. The information necessary for the location of the signals is on the back of the field photos as listed. All recoverable marked photo-topo signals are denoted by the year (1954) after their name.

12. Inapplicable

13. Geographic Names

Geographic names will be covered in each corresponding Hydrographic Survey Descriptive Report.

14. Special Reports and Supplemental Data

Forwarded to the Director:

11 June 1954 via Railway Express  
Office Photos  
Field Photos

14 June 1954 via Registered Mail  
Blackline Manuscripts  
Field Inspection Reports (TAH BAY, HESSA INLET)

3 September 1954 via Railway Express  
Office Photos  
Field Photos

3 September 1954 via Registered Air Mail  
Blackline Manuscripts  
Film Positive

18 October 1954 via Railway Express  
Office Photos  
Field Photos

19 October 1954 via Registered Mail  
Blackline Manuscripts  
Blueline Impressions

Tide Records (Registered Mail)  
28 May 1954 (HUNTER BAY)  
14 June 1954 (MAX COVE)  
30 July 1954 (KASSA INLET)  
3 Sept. 1954 (MABEL BAY, KASSA INLET, HUNTER BAY)

To be forwarded at later date:  
Hydrographic Survey Sheets HO-1354 thru HO-1754  
Hydrographic Survey Descriptive Reports for same  
Sounding Records & Fathograms

15. Remarks on Preliminary Shoreline Manuscript

The preliminary manuscripts were found to be very good. The following are the discrepancies found:

(a) The shoreline is too high in some areas.

(b) Some of the small offshore rocks which appeared on the photos were not located on the manuscripts.

HASSIAH INLET TO TRIANG. STA. HAS, 1918

HYDRO SIGNALS	MANU-SCRIPT	PHOTO NO.	METHOD OF LOCATION
Abs	T-11294	41006	Angle and dist. from off. p.p.
All	"	41006	Angle and dist. from off. p.p.
Bar	"	41006	Angle and dist. from off. p.p.
Box	"	41006	Angle and dist. from off. p.p.
Cal	"	41006	Angle and dist. from off. p.p.
Dim	"	41000	Angle and dist. from off. p.p.
Fig	"	41006	Angle and dist. from off. p.p.
Fry, 1954	"	41006	Angle and dist. from off. p.p.
Hid	"	41006	Direct transfer
Ivy	"	41004	Radial plot
Key	"	41004	Angle and dist. from off. p.p.
Liz	"	41006	Angle and dist. from off. p.p.
Man	"4	41006	Angle and dist. from off. p.p.
Nor	"	41006	Angle and dist. from off. p.p.
Pet	"	41006	Angle and dist. from off. p.p.
Rim	"	41006	Angle and dist. from off. p.p.
Say	"	41006	Angle and dist. from off. p.p.

KLAKAS INLET

HYDRO SIGNAL	MANUSCRIPT	PHOTO NO.	METHOD OF LOCATION
Air	T-11300	41036	Angle and dist. from off. p.p.
Alp	T-11300	41036	Angle and dist. from off. p.p.
Ape	T-11295	41059	Field radial plot
Awe	T-11300	41036	Angle and dist. from off. p.p.
Eag (Upper Klakas)	T-11300	41037	Range and angle to off. p.p.
Eag (Lower Klakas)	T-11300	41036	Angle and dist. from off. p.p.
Bus, 1954 (marked)	T-11300	41036	Angle and dist. from off. p.p.
But	T-11295	41059	Field radial plot
Con, 1954 (marked)	T-11300	41037	Angle and dist. from off. p.p.
Cop	T-11300	41036	Angle and dist. from off. p.p.
Dan	T-11300	41036	Angle and dist. from off. p.p.
Did	T-11300	41036	Angle and dist. from off. p.p.
Eat	T-11298	41040	Office p.p.
Eva	T-11300	41037	Office p.p.
Fag	T-11298	41040	Angle and dist. from off. p.p.
Few	T-11300	41036	Angle and dist. from off. p.p.
Fcx	T-11298	41037	Field radial plot
Gun	T-11300	41036	Angle and dist. from off. p.p.
How	T-11298	41040	Angle and dist. from off. p.p.
Ice	T-11300	41036	Angle and dist. from off. p.p.
Ink, 1954 (marked)	T-11298	41040	Angle and dist. from off. p.p.
Jug	T-11298	41040	Angle and dist. from off. p.p.
Ked	T-11300	41036	Angle and dist. from off. p.p.
Keg	T-11298	41040	Field radial plot
Kin	T-11300	41036	Office p.p.
Let	T-11298	41037	Angle and dist. from off. p.p.
Nob	T-11298	41037	Office p.p.
Not	T-11300	41036	Angle and dist. from off. p.p.
Num	T-11300	41036	Angle and dist. from off. p.p.
Ott	T-11298	41037	Range and <sup>08818</sup> dist. to office p.p.
Pat	T-11298	41037	Angle and dist. from off. p.p.
Red	T-11300	41036	Office p.p.
Sam, 1954 (marked)	T-11295	41059	Angle and dist. from off. p.p.
Sis	T-11300	41036	Angle and dist. from off. p.p.
Tax	T-11300	41036	Angle and dist. from off. p.p.
Up	T-11298	41037	Field radial plot
Vat	T-11300	41036	Angle and dist. from off. p.p.
Via	T-11300	41036	Office p.p.
Vim	T-11298	41037	Office p.p.
Way	T-11300	41036	Pricked direct, field radial plot
Yer	T-11300	41036	Angle and dist. from off. p.p.
Zag, 1953	T-11300	41036	Office p.p.
Zoo	T-11298	41037	Field radial plot

Shoreline Photo No.

41035  
41036  
41037  
41038  
41039

Manuscript

T-11295  
T-11298  
T-11300

JACKSON ISLAND TO TRIANG. STA. GRASS

HYDRO SIGNAL	MANU- SCRIPT	PHOTO NO.	METHOD OF LOCATION
Bob	T-11296	40927	Angle and dist. from off. p.p.
Cow	T-11293	117-139	Angle and dist. from off. p.p.
Day	T-11293	117-141	Angle and dist. from off. p.p.
Eve	T-11293	117-141	Direct transfer
Fid	T-11293	41003	Angle and dist. from off. p.p.
Gal	T-11293	117-140	Angle and dist. from off. p.p.
His	T-11296	40927	Angle and dist. from off. p.p.
Joe	T-11293	117-141	Direct transfer
Log	T-11293	41003	Angle and dist. from off. p.p.
Ram	T-11296	40927	Angle and dist. from off. p.p.
Rip	T-11296	117-109	Angle and dist. from off. p.p.
Sun	T-11293	117-140	Off. p.p.
Tick, 1954	T-11293	117-140	Angle and dist. from off. p.p.
Vet	T-11293	117-140	Angle and dist. from off. p.p.

MABEL BAY

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HYDRO SIGNALS	MANU-SCRIPT	PHOTO NO.	
Ago	T-11297	40999	Angle and dist. from off. p.p.
Ant	"	40999	Off. p.p.
Bad	"	41000	Angle and dist. from off. p.p.
Bat	"	40999	Angle and dist. from off. p.p.
Can	"	40999	Angle and dist. from off. p.p.
Did	"	40999	Angle and dist. from off. p.p.
Doc	"	40999	Off. p.p.
Eol	"	40999	Angle and dist. from off. p.p.
Era	"	41000	Angle and dist. from off. p.p.
Eys	"	40999	Angle and dist. from off. p.p.
Fee	"	40999	Angle and dist. from off. p.p.
Get	"	40999	Angle and dist. from off. p.p.
Kid	"	40999	Angle and dist. from field sub. pt.
Lap	"	40999	Off. p.p.
Lie	"	40999	Angle and dist. from off. p.p.
Odd	"	40999	Angle and dist. from off. p.p.
Out	"	40999	Angle and dist. from off. p.p.
Pit	"	40999	Off. p.p.
Run	"	40999	Angle and dist. from off. p.p.
Sis	"	40999	Angle and dist. from off. p.p.
Sit	"	40999	Angle and dist. from off. p.p.
Tag	"	41000	Angle and dist. from off. p.p.
Tim	"	40999	Off. p.p.
Wet	"	40999	Angle and dist. from off. p.p.
Vim	"	40999	Angle and dist. from off. p.p.

SHIP ISLAND PASSAGE TO MABEL BAY

HYDRO SIGNAL	MANU- SCRIPT	PHOTO NO.	METHOD OF LOCATION
Act	T-11297	40999	Angle and dist. from off. p.p.
Caf	"	40999	Angle and dist. from off. p.p.
Cat	"	40999	Off. p.p.
Eva	"	40999	Angle and dist. from off. p.p.
Far	"	40999	Angle and dist. from off. p.p.
Gip	"	40999	Field radial plot
Gun	"	41000	Angle and dist. from field sub. pt.
Hat	"	40999	Angle and dist. from off. p.p.
Imp	"	40999	Angle and dist. from off. p.p.
Jet	"	40999	Angle and dist. from off. p.p.
Job	"	40999	Angle and dist. from off. p.p.
Kit	"	40999	Field radial plot
Log	"	40999	Angle and dist. from off. p.p.
Mit	"	40999	Angle and dist. from off. p.p.
Mop	" <sub>1</sub>	41000	Angle and dist. from off. p.p.
Nut	"	40999	Angle and dist. from off. p.p.
Pal	"	41000	Angle and dist. from off. p.p.
Pan	"	40999	Angle and dist. from off. p.p.
Quo	"	41000	Angle and dist. from off. p.p.
Rom	"	40999	Off. p.p.
Rod	"	40999	Off. p.p.
Rik	"	40999	Angle and dist. from off. p.p.
Sin	"	40999	Field radial plot
Try	"	40999	Angle and dist. from off. p.p.
Veg	"	40999	Angle and dist. from off. p.p.

HYDRO SIGNAL	MANU- SCRIPT	PHOTO NO.	METHOD OF LOCATION
Fin	T-11297	41009	Angle and dist. from off. p.p.
Pig	T-11298	41009	Angle and dist. from field sub pt.
Fun	T-11297	41009	Angle and dist. from off. p.p.
Que	T-11298	41042	do
Rat	T-11298	41009	do
Roo	T-11298	41042 <sup>1</sup>	Direct transfer
Rot	T-11297	41009	Angle and dist. from off. p.p.
Ros	T-11297	41009	do
Sam	T-11299	41009	Off. p.p.
Sow, 1954 (marked)	T-11298	41042	Off. p.p.
Sus	T-11297	41009	Angle and dist. from off. p.p.
Tad	T-11299	41009	do
Tim	T-11299	40996	do
Tin	T-11297	41009	do
Tom	T-11298	41042	Off. p.p.
Unc	T-11298	41042	Angle and dist. from off. p.p.
Up	T-11297	41009	Off. p.p.
Vix	T-11297	41009	Angle and dist. from off. p.p.
Why	T-11297	41009	do
Wil	T-11297	41009	do
Yak	T-11299	41009	do
You	T-11299	41009	do
Zek	T-11297	41009	do
Zip	T-11299	40996	do
Zoo	T-11299	41009	do

## Shoreline

Photo No.

41042 &amp; 41010

40996

40997

41043

41007



## KASSA INLET &amp; SHIP ISLAND PASSAGE TO TRIANG. STA. LEDGE

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HYDRO SIGNAL	MANU- SCRIPT	PHOTO NO.	METHOD OF LOCATION
Ant	T-11295	41042	Angle and dist. from off. p.p.
Art	T-11298	41042	do
Axe	T-11299	40996	do
Bat	T-11297	41009	do
Big	T-11299	40996	Angle and dist. from field sub pt.
Bob	T-11297	41042	Angle and dist. from off. p.p.
Box, 1953	T-11299	40996	do
Boy	T-11297	41009	do
Bug, 1954 (marked)	T-11299	41009	do
Buz	T-11297	41009	do
Cat	T-11299	41009	do
Car	T-11297	41009	do
Cy	T-11298	41042	do
Dan	T-11299	41009	do
Dad	T-11299	40996	do
Dog	T-11299	41009	do
Don	T-11297	41042	do
Dud	T-11299	40996	do
Ed	T-11297	41042	do
Elm	T-11297	41009	do
Erg	T-11299	40996	do
Fat	T-11297	41042	do
Fir	T-11295	41042	Direct transfer
Fog	T-11299	41009	Angle and dist. from off. p.p.
Fox	T-11299	40996	do
Gum	T-11299	40996	do
Gus	T-11300	41009	do
Han	T-11298	41042	do
Hep	T-11297	41042	do
Hik	T-11300	41009	Angle and dist. from direct transfer sub. pt.
Hill	T-11298	41042	Direct transfer
Ill	T-11298	41009	Angle and dist. from off. p.p.
Jab	T-11297	41009	do
Jag	T-11298	41009	Angle and dist. from direct transfer sub pt.
Job	T-11299	41009	Angle and dist. from off. p.p.
Jon	T-11298	41042	do
Ken	T-11298	41042	do
Kid	T-11297	41009	do
Lab	T-11299	41009	do
Lad	T-11299	40996	do
Lat	T-11299	40996	do
Lip	T-11299	40996	Field radial plot
Lil	T-11297	41009	Angle and dist. from off. p.p.
Liz	T-11297	40996	Direct transfer
Loy	T-11298	41042	Off. p.p.
Mad	T-11298	41009	Off. p.p.
Mag	T-11299	40996	Angle and dist. from off. p.p.
Mik	T-11297	41009	do
Nam	T-11297	41009	do
Nip	T-11298	41009	do
Nod	T-11295	41042	Off. p.p.
Oak	T-11297	41009	Angle and dist. from off. p.p.
Ole	T-11297	41009	do
Ox, 1954 (marked)	T-11298	41009	Angle and dist. from field sub pt.

MAX COVE

HYDRO SIGNAL	MANU- SCRIPT	PHOTO NO.	METHOD OF LOCATION
Bgt (Bat)	T-11300	41063	Angle and dist. from off. p.p.
Big	T-11300	41063	Angle and dist. from field radial plotted p.p.
Eob	T-11298	41063	Angle and dist. from off. p.p.
Cap	T-11300	41063	Office p.p.
Cow	T-11300	41063	Angle and dist. from off. p.p.
Dog	T-11300	41063	Angle and dist. from off. p.p.
End	T-11300	41063	Angle and dist. from off. p.p.
Gal	T-11300	41063	Angle and dist. from off. p.p.
Hit	T-11300	41063	Angle and dist. from field radial plotted p.p.
Joe	T-11300	41063	Angle and dist. from field radial plotted p.p.
Loy	T-11300	41063	Angle and dist. from field radial plotted p.p.
No. 1, 1954 (marked)	T-11298	41037	Angle and dist. from field radial plotted p.p.
Nut	T-11300	41063	Field radial plot
Ray	T-11300	41063	Angle and dist. from off. p.p.
Ree	T-11300	41063	Off. p.p.
Rut	T-11298	41037	Angle and dist. from off. p.p.
Tom	T-11300	41063	Angle and dist. from field radial plotted p.p.
Wil	T-11300	41063	Field radial plot

Shoreline

Photo No.	Manuscript
41037	T-11298
41062	T-11300

RUTH BAY

HYDRO SIGNAL	MANU- SCRIPT	PHOTO NO.	METHOD OF LOCATION
Axe	T-11300	41012	Angle and dist. from off. p.p.
Ban	"	"	Office. p.p.
Day	"	"	Office p.p.
Doc	"	"	Angle and dist. from off. p.p.
Est	"	"	Angle and dist. from off. p.p.
Fat	"	"	Angle and dist. from off. p.p.
Fed	"	"	Angle and dist. from off. p.p.
Gal	"	"	Field radial plot
Gut	"	"	Field radial plot
Lot	"	"	Angle and dist. from off. p.p.
Ned	"	"	Angle and dist. from off. p.p.
Sag	"	"	Angle and dist. from off. p.p.
Six	"	"	Angle and dist. from off. p.p.
Sum	"	"	Field radial plot
Uno	"	"	Field radial plot
Zig	"	"	Angle and dist. from off. p.p.

Shoreline  
 Photo No. 41012  
 Manuscript T-11300

## HUNTER BAY

HYDRO SIGNAL	MANUSCRIPT	PHOTO NO.	METHOD OF LOCATION
All	T-11301	41065	Angle and dist. from off. p.p.
Ape	T-11300	41035	Office p.p.
Bea	T-11302	41035	Office p.p.
Bug	T-11300	41035	Angle and dist. from off. p.p.
Can	T-11303	41065	Angle and dist. from off. p.p.
Cow	T-11300	41035	Angle and dist. from off. p.p.
Cut	T-11301	41065	Angle and dist. from off. p.p.
Dog	T-11300	41035	Angle and dist. from field radial plotted p.p.
Dol	T-11303	41035	Field radial plot
Eak	T-11300	41035	Angle and dist. from off. p.p.
Elk	T-11300	41035	Range and dist. from off. p.p.
Fox	T-11300	41035	Angle and dist. from off. p.p.
Gus	T-11300	41035	Angle and dist. from off. p.p.
Hit	T-11301	41065	Angle and dist. from off. p.p.
Ill	T-11301	41065	Angle and dist. from off. p.p.
Jap	T-11301	41065	Office p.p.
Leg	T-11303	41035	Field radial plot
Log	T-11302	41035	Angle and dist. from off. p.p.
Mat	T-11300	41035	Angle and dist. from off. p.p.
Nan	T-11301	41065	Office p.p.
New	T-11302	41035	Range and dist. from off. p.p.
Nut	T-11300	41035	Angle and dist. from off. p.p.
Old	T-11301	41065	Angle and dist. from off. p.p.
Ox	T-11300	41035	Office p.p.
Pet	T-11303	41035	Angle and dist. from off. p.p.
Pig	T-11300	41035	Office p.p.
Rat	T-11300	41035	Range and dist. from off. p.p.
Sam	T-11301	41065	Angle and dist. from off. p.p.
Sky	T-11303	41065	Field radial plot
Sow	T-11300	41035	Field radial plot
Sup	T-11303	41035	Office p.p.
Tex	T-11301	41065	Angle and dist. from off. p.p.
Tim	T-11300	41035	Angle and dist. from off. p.p.
Tom	T-11300	41035	Angle and dist. from off. p.p.
Vix	T-11300	41035	Angle and dist. from off. p.p.
Yel	T-11303	41035	Angle and dist. from off. p.p.
ZIP	T-11300	41035	Angle and dist. from off. p.p.
Zoo	T-11300	41035	Angle and dist. from off. p.p.

## Shoreline

Photo No.	Manuscript
41035	T-11300
41065	T-11301
	T-11302
	T-11303

PHOTOGRAMMETRIC PLOT REPORT

PROJECT NO. Ph-117

Surveys Nos. T-9435, T-9903, T-11035 & T-11293 thru T-11298

21. AREA COVERED

This radial plot report covers the entire area of Surveys Nos. T-9435, T-9903, T-11293, T-11294, T-11295, T-11297 and T-11298, that portion of Survey No. T-11296 that lies north of Tlevak Strait, the southwestern corner of T-11035. These are all shoreline surveys located along Cordova Bay, the north side of Tlevak Strait, Hetta Inlet and Nutkwa Inlet and extends northward from Kassa Inlet to the entrance to Sukkawn Inlet. That part of Klakas Inlet covered by photography was also included.

22. METHOD - RADIAL PLOT

Map Manuscripts:

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

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

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

Photographs:

Unmounted photographs taken 8 July 1953, with the U.S.C. & G. S. nine-lens camera, focal length 8 1/2 inches, at a scale of 1:10,000 and unmounted single lens photographs, taken during 1948 at a scale of 1:10,000 and ratioed to a scale of 1:10,000 were used in this plot.

Thirty-seven nine-lens and fifteen single lens photographs were used in this plot. They are numbered as follows:

Nine-lens photographs

- 40954 thru 40958
- 40977 thru 40979
- 40998 thru 41007
- 41009
- 41038 thru 41040
- 41042 thru 41051
- 41053
- 41055 and 41056
- 41058 thru 41062

Single lens photographs

- SEA 26-018 thru SEA 26-022
- SEA 117-108 thru SEA 117-111
- SEA 117-139 thru SEA 117-144

Standard symbols were used on the photographs.

~~25~~

22. METHOD - RADIAL PLOT (cont'd)

Templets:

Vynylite templets were made for all photographs. The master templet was used to make adjustments for film and paper distortion and chamber displacements on the nine-lens photographs. No adjustments for film or paper distortion could be made on the templets for the single lens photographs because there were no fiducial marks.

Closure and Adjustment of Control:

Vynylite base sheets were prepared in this office. Since junctions of grid lines between several of the manuscripts could not be made, the base sheets were prepared by transferring several projection intersections, including all manuscript corners, along the neat limits of the manuscripts to the base sheet. The projection intersections for Surveys T-11299, T-11300 and T-11301 as established by the first radial plot for this project were used as a base to continue northward to the limits of the project.

All control was transferred to the base sheets at the same time that the projection intersections were being transferred.

All pass points and photograph centers established, on Surveys Nos. T-11299, 11300 and 11301, by the first plot were transferred to the base sheets for this plot.

The radial plot, actually a continuation of the first plot, was then constructed on the base sheets.

The templets for those photographs which are within the limits of surveys Nos. T-11299, T-11300 and T-11301 were relaid. Templets for 40998 to 41001 were laid next and it was found that control station NEW R.M. 1, 1908 could not be held with the other control. Templets for 41003 to 41009 were laid and control stations NEW R.M. 1, 1908 and NUT, 1918 could not be held. Templets for photographs 41044 to 41048 were then laid and again control station NUT, 1918 could not be held, however, a tie-in was made with station CEDAR 2, 1908. Templets for 41049 to 41056 were laid. Control station GULL, 1918 which had been identified in this office could not be held, however, a tie-in was made with station COPPER 2, 1908. All other templets for photographs on the east side of Cordova Bay were then adjusted in place. That part of the plot east of Cordova Bay was then complete except for the flight of single lens photographs numbered 26-018 to 26-022 which were then laid with the result that control stations FOG, 1908 and FLAT 2, 1908 could not be held.

Templets for photographs 40977 to 40979 and 40954 to 40956 were used. All control was held on these templets except SHOE, 1907-25. Then the templets for the remaining nine-lens and single lens photographs were laid and readjusted several times until the best possible result was obtained.

22. METHOD - RADIAL PLOT (cont'd)

Transfer of Points:

The positions of all photograph centers and pass points were transferred to the manuscripts by superimposing the manuscripts on the templets and matching common projection intersections and control points.

23. ADEQUACY OF CONTROL

The positions of photograph centers and pass points in Survey T-11193 may be weak due to extension of the plot beyond control and due to the poor quality of single lens photography.

In surveys T-11295 and T-11298, the two easternmost flights had no control, requiring a long bridge between the control stations at Hunter Bay (southern edge of T-11300) and control in Keete Inlet (northwest corner of T-11295). Positions of pass points in Klakās Inlet and at the head of Kassa Inlet may be quite weak due to this long bridge of 10 nine-lens photographs between control stations.

As previously stated several control stations could not be held in the radial plot.

Sub Pt. SHOE, 1907 - 25: Radially plotted position of the sub point falls 0.9 mm southeast of its computed position. Believed to be incorrectly identified by the field party. There is another "white spot" approximately 0.9 mm northeast of the "white spot" identified as the Sub Pt.

Sub Pt. NEW R.M. 1, 1908 - The radially plotted position of the Sub Pt. falls 1.5 mm north of its computed position. This may be due to either an error in computation of the position of the Sub Pt. or in the identification. First it was necessary to compute the position of NEW R.M. 1. The only information available was a bearing and distance from R.M. 1 to NEW, 1908. This bearing was assumed to be the magnetic bearing at the time the station was established.

Sub Pt. NUT, 1918 - The radially plotted position of the Sub. Pt. falls 2.4 mm WSW of its computed position. This may be due to incorrect identification as there is another point of ledge approximately in correct location that is visible on the photographs.

GULL, 1918 - The radially plotted position of this station falls 0.6 mm southeast of its geographic position. Probably due to misidentification in the compilation office. This station was not identified in the field.

FLAT 2, 1908 - No definite intersection obtained due to inability to identify accurately on the single lens photographs. A shadow point was identified on a photograph taken during 1953.

FOG, 1908 - The same conditions apply for this station as for FLAT 2, 1908.

24. SUPPLEMENTAL DATA

No graphic control surveys were used in this plot.

25. PHOTOGRAPHY

All nine-lens photographs have large light struck areas on the western side. Many have deep shadows, trees and relief displacement obscuring the shore line.

All of the single lens photographs have very poor definition and were taken five years prior to the nine-lens photographs making it almost impossible to find the points, that are common to both types of photographs.

No tilt determinations were made.

The definition is good on the nine-lens photographs except in the deep shadow and light struck areas.

The definition is very poor on the single lens photographs.

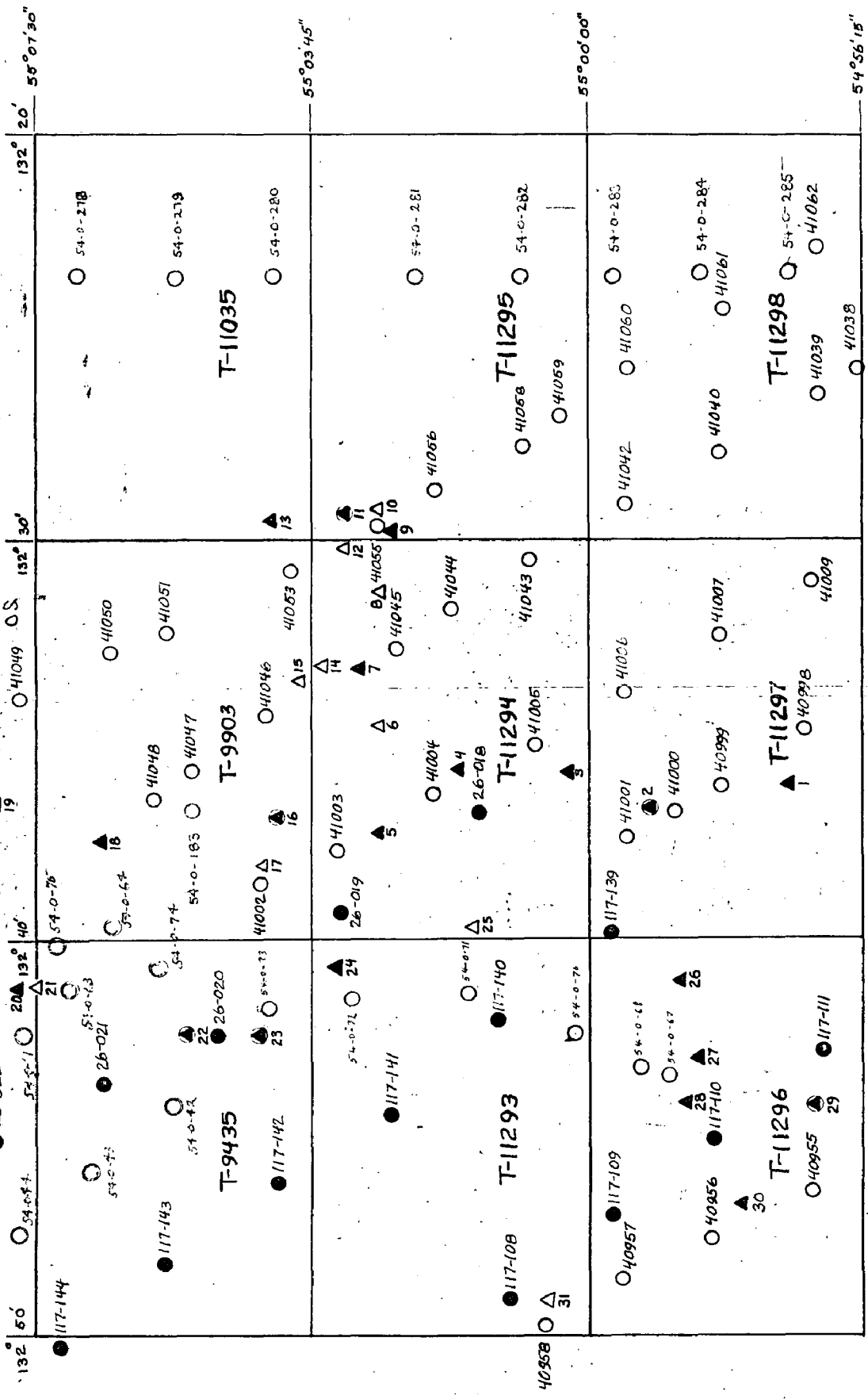
Respectfully Submitted  
19 February 1954

*Harry R. Rudolph*  
Harry R. Rudolph  
Carto. Aid (Photo)



LIST OF CONTROL

No.	Name of Station	Identification
1	CLUMP, 1907-25	Sub Pt.
2	NEW R.M. 1, 1908	Sub Pt.
3	MAB, 1918	Sub Pt.
4	HAS, 1918	Sub Pt.
5	ATA, 1918	Sub Pt.
6	LIT, 1918	None
7	KEET, 1918	Direct
8	END, 1918	None
9	MED, 1918	Sub Pt.
10	COS, 1918	None
11	GULL, 1918	Ident. in Office
12	TREE, 1918	None
13	UP, 1918	Direct
14	IN, 1918	None
15	BOY, 1918	None
16	NUT, 1918	Sub Pt.
17	FLAG, 1908	None
18	CEDAR 2, 1908	Sub Pt.
19	COPPER 2, 1908	Sub Pt.
20	ROUND, 1908-14	Sub Pt.
21	EASY 2, 1908	None
22	FLAT 2, 1908	Sub Pt.
23	FOG, 1908	Sub Pt.
24	GRASS, 1905-18	Sub Pt.
25	FOOD, 1918	None
25	MELLOW ROCK, 1908	None
26	GREEN R.M. 1907-18	Sub Pt.
27	JACK, 1907	Sub Pt.
28	HEN, 1907	Sub Pt.
29	SHOE, 1907-25	Sub Pt.
30	NICE, 1907	Sub Pt.
31	LUCK, 1907	None



LAYOUT SKETCH  
 PH-117  
 SURVEYS NOS T-9435, T-9903, T-11035 and  
 T-11293 to T-11298 (inclusive)  
 ○ NINE LENS PHOTOGRAPHS  
 ○ SINGLE LENS PHOTOGRAPHS  
 ▲ CONTROL STATIONS (identified)  
 △ CONTROL STATIONS (not held in plot)  
 ○ 1954 SINGLE LENS RETRIEVED PHOTOGRAPHS

-20-  
#  
-#-

SUPPLEMENTARY  
PHOTOGRAMMETRIC PLOT REPORT  
Project Ph-117  
Surveys T-11035 & T-11295

21. AREA COVERED

This radial plot report covers surveys T-11035, and T-11295. They are shoreline surveys in the area of Klakas Inlet of southeast 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 photograph centers are shown on a sketch attached to radial plot report of surveys Nos. T-9903, T-11035, T-11294, T-11295, T-11297 and T-11298 dated 19 February 1954.

Photographs:

Unmounted single lens photographs at a scale of 1:27,500 and ratioed to a scale of 1:10,000 were used in this radial plot.

Eight (8) photographs were used in the plot, numbered as follows: 54-0-278 thru 54-0-285.

Templets:

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

Closure and Adjustment to Control:

Vinylite base sheets were prepared in this office. All pass points in the area around Max Cove of Klakas Inlet established in the nine-lens, 1:10,000 scale radial plot laid in February 1954, in surveys T-11298 were transferred to the base sheets from the manuscripts.

Pass points established in the 1:20,000 scale radial plot of the area were transferred to the 1:10,000 scale base sheets by means of transparent templets made for each point common to both the 1:20,000 and 1:10,000 scale photographs. Four rays were drawn radially from the point through the grid intersections on the 1:20,000 base sheets. The templets were oriented over the corresponding grid intersections on the 1:10,000 base sheets and the points pricked through to the base sheet.

For additional information about these supplementary pass points, see the Radial Plot Report for the 1:20,000 radial plot of the area.

The radial plot was started with photograph 54-0-285 holding to points established in the 1:10,000 plot laid in February 1954. The plot was extended northward through photograph 54-0-278. One supplementary control point was held at the southern end of the plot and one at

22. METHOD - RADIAL PLOT (cont'd)

Closure and Adjustment to Control: (cont'd)

the northern end. Even though a tight plot was obtained it was impossible to hold all the other seven points established in the 1:20,000 plot. This can be attributed to the following 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, (4) the photographs were badly tilted and all except one had water centers.

Although only two of the supplementary control points established in the 1:20,000 scale radial plot were held, the placement of those two in the plot, and the fact that the other seven points were held within a mm. suggests that this radial plot, though not within the normal standard of accuracy, is not excessively in error.

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. The positions of pass points as established in this 1:10,000 scale plot were shown on the manuscript. The positions of pass points transferred from the 1:20,000 radial plot which could not be held were established in this radial plot.

23. ADEQUACY OF CONTROL

There are no control stations in the area of this radial plot.

24. SUPPLEMENTAL DATA

Pass points established in a 1:20,000 scale radial plot were used as control for this radial plot. Reference should be made to the 1:20,000 scale radial plot report for Projects Ph-117 and Ph-148.

25. PHOTOGRAPHY

With only one flight of photographs used in this radial plot, it is difficult to say how much adverse effect the photographs had on the plot. It is believed, however, that much of the difficulty encountered was due to the photographs. Definite evidence of tilt was observed on photographs No. 54-0-282 and 54-0-283. In addition, all of the photographs had water centers.

Approved and forwarded

E. H. Kirsch, Comdr. USC&GS  
Officer in Charge  
Baltimore Photo. Office

Respectfully submitted  
25 February 1955

*E. L. Williams*  
E. L. Williams  
Carto. Photo. Aid

COMPILATION REPORT

T-11298

Field Inspection Report:

Refer to Photogrammetric Field Inspection Report, SE Alaska, Cordova Bay, Surveys T-11293 thru T-11303, 1954, USC&GS Ship HODGSON, J. Bowie, commanding.

Photogrammetric Plot Report:

1. The Photogrammetric Plot Report (1954) for surveys T-9903, T-11035, T-11294, T-11295, T-11297 and T-11298 ~~is part of the Descriptive Report for survey T-9903.~~

2. A supplementary plot report for surveys T-11035 and T-11295 ~~is part of the Descriptive Report for T-11035.~~

31. DELINEATION

This manuscript was delineated by graphic methods.

32. CONTROL

There are no control stations in the area of this survey.

33. SUPPLEMENTAL DATA

A copy of the boat sheets for surveys H-8128 (1954) and H-8129 (1954) were available for purposes of comparison.

34. CONTOURS AND DRAINAGE

Contours: Inapplicable.  
Drainage: No comments.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate. The low water line was delineated in several places by the field party.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

No Forms 524 were available for four recoverable topographic stations located on this manuscript. Compilation office data was submitted on blank forms for these stations.

Thirty-eight photo-hydro stations were located on this manuscript. They are listed in paragraph 49.

39. JUNCTIONS

Junctions have been made with surveys T-11295 to the north, T-11300 to the south and T-11297 to the west. There is no junction to be made with survey T-11525 (Project 6148) to the east.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to Photogrammetric Plot Reports.

41 - 45

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

The information shown on the USGS Dixon Entrance quadrangle, scale 1:250,000, edition of 1953, is based on USC&GS charts.

47. COMPARISON WITH NAUTICAL CHARTS

Chart 8147, scale 1:40,000 published August 1931, corrected to 5/12/52.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted  
25 April 1956

*James C. Cregan*  
James C. Cregan  
Carto. Photo. Aid

Approved and Forwarded  
*E. H. Kirsch*  
E. H. Kirsch,  
Capt. C&GS  
Baltimore District Officer

August 25, 1970

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-117 (Alaska)

T-11298

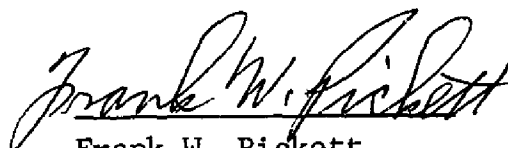
Clam Cove  
Kassa Inlet  
Kassa Island  
Klakas Inlet  
Max Cove  
Prince of Wales Island

Approved by:



A. Joseph Wraight  
Chief Geographer

Prepared by:



Frank W. Pickett  
Cartographic Technician

T-11298

49. NOTES FOR HYDROGRAPHER

The following are the recoverable topographic stations located on this manuscript:

INK, 1954  
OX, 1954

SOW, 1954  
TBM 1, 1954

The following are the photo-hydro stations located on this manuscript:

ART	HIT	LOY 54° 56.4'	QUO
		132° 22.9'	
BOB	HOW*		RAT
BUT	ILL	LOY 54° 57.6'	RAY
		132° 29.8	
CAP	JAG		ROC
CY*	JOE	MAD	RUT
EAT	JON	NIP	TOM
FAG	JUG	NOB	UNC
FOX	KEG	OTT	UP
HAN	KEN	PAT	VIM
HILL	LET	PIG*	ZOO

\*CY - No angle was given (Photograph 41042). The distance was used to swing an arc to plot the station on the island.

\*HOW - Right angle was plotted instead of left to agree with the field position.

\*PIG - Initial station should be RAT (Photograph 41009).



50-

# PHOTOGRAMMETRIC OFFICE REVIEW

T. 11298

1. Projection and grids  2. Title  3. Manuscript numbers  4. Manuscript size

## CONTROL STATIONS

4a. Classification label

5. Horizontal control stations of third-order or higher accuracy None 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)  7. Photo hydro stations  8. Bench marks   
 9. Plotting of ~~extent fixes~~ <sup>LP Dist.</sup>  10. Photogrammetric plot report  11. Detail points

## ALONGSHORE AREAS

(Nautical Chart Data)

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

## PHYSICAL FEATURES

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

## CULTURAL FEATURES

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

## BOUNDARIES

31. Boundary lines  32. Public land lines

## MISCELLANEOUS

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

40. R. Blaser Reviewer Joseph Steinberg 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.

\_\_\_\_\_  
 Compiler Supervisor

43. Remarks:

- 35 -

Review Report T-11298  
Shoreline Mapping

September 1970

61. General Statement

~~Refer to summary.~~

Differences in some rock elevations were found between survey T-11298 and surveys H-8128 and H-8129 (refer to Summary, "Rock Elevations"). These elevations were removed from T-11298. *~ page 7*

62. Comparison with Registered Topographic Surveys

Comparison was made with the following topographic surveys:

T-2331, dated 1897, 1:80,000 scale  
T-2953, dated 1909, 1:20,000 scale

These surveys are superseded for charting by T-11298.

63. Comparison with Maps of Other Agencies

Comparison was made with USGS Dixon Entrance (D-2), Alaska quadrangle, 1:63,360 scale, dated 1948. No differences of importance were found in the comparison.

64. Comparison with Contemporary Hydrographic Surveys

Photogrammetric survey T-11298 was used as a base for new hydrography. The following hydrographic surveys were used for comparison:

H-8128, dated 1954, 1:10,000 scale  
H-8129, dated 1954, 1:10,000 scale

The agreement is good, except for a rock (Awash MHW) located at approximate latitude  $54^{\circ}57.4'$  and Longitude  $132^{\circ}28.3'$  that was delineated from field inspection on photogrammetric survey T-11298. This rock is not shown on hydrographic survey 8128. No field data or photographs covering this area are available at this time. This rock could be a danger to navigation and should be investigated.

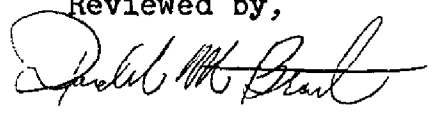
65. Comparison with Nautical Charts

Comparison was made with chart 8147, 1:40,000 scale, 5th Edition, corrected to July 3, 1967. The rock (Awash MHW, refer to paragraph 64) is not shown on chart 8147 and should be investigated.

66. Adequacy of Results and Future Surveys

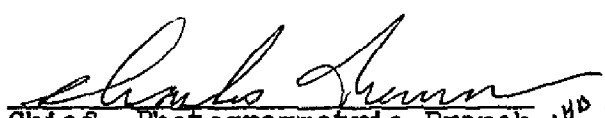
(Refer to summary, "Map Accuracy".) - page C

Reviewed by,



Donald M. Brant

Approved by,

  
Chief, Photogrammetric Branch

  
Chief, Photogrammetry Division