Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)
Field No. 6117 Office No. T-11295
LOCALITY
State · Alaska
General locality Cordova Bay
Locality Keete Inlet and Klakas Inlet
•
1953 — 19.515
CHIEF OF PARTY
F. R. Gossett, Chief of Field Party J. C. Partington, Chief of Field Farty
E. H. Kirsch, Baltimore District Office
LIBRARY & ARCHIVES
DATF

B-1870-1 (1)

DESCRIPTIVE REPORT - DATA RECORD

T -11295

Project No. (II):

*6*117

Quadrangle Name (iV):

Field Office (II): USC&GS Ship HODGSON USG&GS Ship PATTOn

Photogrammetric Office (III): Baltimore, Maryland

Chief of Party: F. R. Gossett, J. Bowie

J. C. Partington

Officer-in-Charge:

E. H. Kirsch

Instructions dated (II) (III):

Field: 3/17/53, 11/8/54, 1/7/55. Office: 12/7/53, 10/11/54, 1/24/56 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

MAR 1 9 1956

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):

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): MED, 1918

Lat.: 55° 02' 44.533" (1377.1 m)

Long.: 132° 29' 56.881" (1010.0 m)

Adjusted **ENGINEER**

Plane Coordinates (IV):

State: Alaska

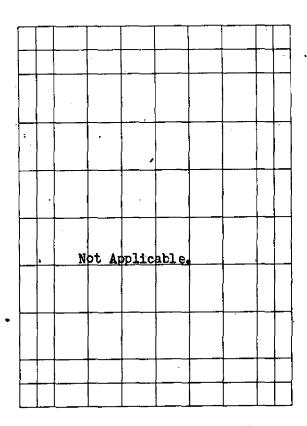
Zone: 8

Y=

X ==

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,

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): D. L. Campbell, A. C. Haglund

R. C. Munson, J. J. Dermody

W. C. Russell, F. J. Tucker

Date: 1953 Field season

1954 " "

1955 n n

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): 1953 (Keete Inlet) 1954 (Klakas Inlet)

Date of photography, field inspection in 1954 and 1955.

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

Date: 1/8/54

Projection and Grids checked by (IV): H. D. 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 Piot of Schoenschalk H. R. Rudolph ICKNOWNERSCHARK by (III): E. L. Williams Date: 2/19/54

2/25/55

Planimetry.

Stereoscopic Instrument compilation (III):

Date:

Contours

Date:

Manuscript delineated by (III):

R. M. Whitson

Date: 3/6/54

/2/59

Photogrammetric Office Review by (III): R. Glaser

Date: 3

3/2/55

2/10/56

Elevations on Manuscript

checked by (II) (III):

Date:

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

Camera (kind or source) (III):

PHOTOGRAPHS (III	}
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Number	Date	Time 🔪	Scale	Stage of Tide
41055 thru 41059	7/8/53	1709	1:10,000	5.1 above MLLW 1.8: " " 1.1 above MLLW
45377 and 45378	6/4/54	1045	1:20,000	
54-0-280 thru 282	7/16/54	1106	1:10,000	

Tide (III) From predicted tables

Reference Station:

Sitka

Hassiah Inlet Subordinate Station:

Subordinate Station:

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

Range Range

Ratio of Mean | Spring

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Date:

Identified:

Date:

Proof Edit by (IV):

Date:

Ranges

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

Shoreline (More than 200 meters to opposite shore) (III): 20.9 Shoreline (Less than 200 meters to opposite shore) (III): 0.8

Control Leveling - Miles (II):

Identified: 1 Recovered: Number of Triangulation Stations searched for (II): 1 1

Recovered:

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III):

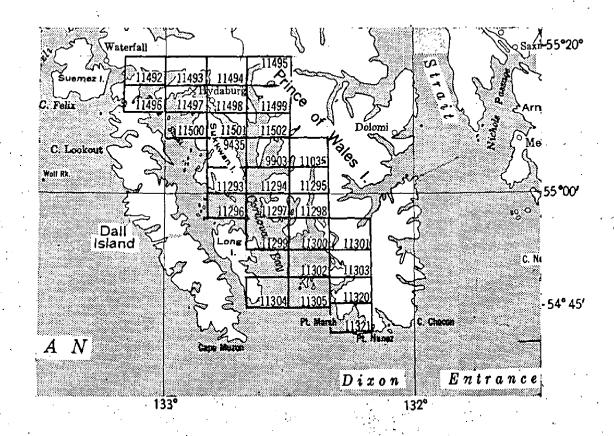
Number of Temporary Photo Hydro Stations established (III): 29

Remarks:

COMM- DC- 57842

-5-

Cordova Bay & Vicinity of S.E. Alaska



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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

2. AREAL FIRED INSPECTION

Hay on the southwest side of Prince of doles Island, and in three areas on the east side of Prince of ales Island in accordance with instructions for Project CS-357. Shoreline inspection for this senson was confined mainly to the area covered by this senson's hydrographic surveys. In the areas north of Shipwreck Ceint, on the west side of Vordova Bay, and on the east side of Prince of males Island only very small amounts of shoreline inspection were done.

The Cordove Ray area is a large deep watered area with many inlats, orms, and highly that out up the land areas. In the southern part, the Barrier Islands extend for out into the bay. The terrain in the Barrier Islands is very broken with numerous small islands and offshore rocks covering the area. A few small tidal takes are found on several of the islands. Most of the islands are 100 to 200 foot in height. The land area in the rest of Cordova Day is mostly rugged wooded mountains out by deep valleys, bays and inlats.

The areas on the east side of Frince of Hules Island in which the instructions required central station identification were in or near long deep bays. Those inlets have numerous small bays and arms that are in general very deep. The land areas are nearly all very mountainous with dense timber except near the summits of the highest peaks. The higher mountains inshere are very stock and rugged, and are usually have near the summits.

There are very few cultural features in the areas covered by field inspection. In the Cordova Bay area there were only three cultural features. A small trapper's cabin was found at the old Klinkwan village site. The landmark and remains of the village have been destroyed and should be deleted from the chart. An old cannery site on the north shore of Hunter Bay is visible but no structures remain. At the northern end of the area opposite Sukkwan Strait there is an abandoned mine. This was charted as Copper City, but there are no buildings still standing.

Only control station identification was done on the east side of Frince of Wales island. No detailed inspection of cultural features was made in this area.

The single lens photographs obtained from the Geological Survey were very poor which made field inspection difficult. These prints were very hazy and had very little centrast.

The nine lens photos were clear and had very good contrast except in areas where the suns reflection blurred them. Usually a better print could be found in these areas, but on several photographs along the west side of Cordova Bay some difficulties were encountered.

Densities and tones were not inspected on the land areas. In water areas shouls and kelp areas were easily visible on the nine lens photographs.

3. HORIZONTAL CONTROL

(a) No supplemental triangulation control was established in connection with the field inspection. Since photo compilation had not been made for the area, graphic control sheets were surveyed to control the hydrography. These

shoots should be very helpful in making the compilation. The shoot sections of shoreline in the vicinity of many of the stations will probably be helpful to the compiler.

Three new main scheme triangulation stations were established during the survey. These are PLACK 2, 1953; EGG 2, 1953; and DEWEY 2, 1953.

- (b) All control is on N. A. 1927 datum and no datum adjustment are necessary.
- (c) All control was established by the Const and Geodetic Survey.
- (d) No field inspection was deno this season in the vicinity of bukkwan Strait and South Pass. This section was deferred in expectation of recolving nine-lens photographs. Then near the close of the season, work on Project CS-357 was suspended to undertake the special wire drag survey at Hollis Anchorage. A better field inspection can be made when the remaining area is covered by nine-lens photographs. The single-lens photographs provided by the Geological Survey and the considered of very little value for field inspection in this area.
- (e) In the Cordova Bay area the triangulation stations that were omitted in the photo identification were emitted in accordance with Faragraph 12 of Instructions dated 17 March 1953. For stations emitted in Subkwan Strait and South Pass see Paragraph 3(d) of this report.

The stations on the east side of Prince of Wales Island that were omitted were in accordance with Paragraph 13 of Instructions dated 17 March 1953.

The following stations were reported as lost:

NEW, 1908	FRONT, 1909
GREEN, 1907	DOPE, 1909
N. W. CHURCH SFIRE, 1909	BAD, 1909
OUR, 1909	LIME, 1905-18
CAN, 1909	HUB, 1907
TOP. 1909	, ,

Stations NEW, 1908 and GREEN, 1907 were the only two stations of the list that were photo identified. At NEW, 1908 the station mark was not found but the old blaze in tree and the rock pinnacle the station was on was found. The pinnacle is only about 4 feet in diameter which made positive identification possible. At GREEN, 1907 the old R. M. drill hole was found and identified. The station mark was not found.

For further information under this heading see Triangulation Reports, Ship HODGSON, 1953.

(f) The following horizontal control stations were identified:

STATION	PHOTO NO.	QUALITY OF IDENTIFICATION	REMARKS
WEST OF PRINCE OF WALES	NINE LENS		
ANCHOR, 1909	1,1015	Positive	Triangulation
ATA, 1918	41003	n	, H
Axe	Li0991	11	Topo - 1953
PAN, 1925	1405141	11	Triengulation
BARRIER, 1908	110395	11	""

SO YELLAND

		QUALITY OF	
AU LEVER	ruoto no.	IDEUTIFICATION	HEMARKS
1960k 2. 1953	$h_{0,k}$	Posiblyo	Tringgalation
PCAT. 1909-25	h00315)† †
CEDAR 2. 1908) i olin	11	
C160, 1909	Jan 15	n 	1) **
dlumr, 1907	pab.	ţt 	**
con, 1925	$J_1(O)BJ_1$	11	1) 1)
COPPER 2. 1908	/110/18	11	
CREMK, 1909	50993	ft 	!)
Day .	∳α∩ ∂ 1	11	Торо - 1953
DEAVEY 2, 1953	Po509	11	Tringgulation
BGG 2, 1953 .	J ₁ 0986	н ,	"
FAR, 1909	³ ₁0≎9 1	!	" ,
FLAT 2, 1908	h1.002	##	11
FOG, 1908	41.005	11	. "
GRASS, 1908-14	J-1002	11	• • 11
GREEN, 1907	40977	H	* **
MAS, 1918	1,1004	11	- 11
HEN, 1907	1,0977	11	n
MAp	41011	11	Topo - 1953
иинты к, 1909	h1035	li .	Tringgulation
JACK. 1907	40978	$\mathtt{p_{oubtful}}$	11 0
Jar	40992	Positi ve	Topo - 1953
KHET, 1918	41045	11	Triangulation
KLINKWAN, 1909	41.035	11	11
LSDGE 2. 1908	1,0998	11	n
LUTUE, 1909	41033	11	14
MAB, 1918	/11005	n	19
MARBLE 2, 1925	lin983	11	19
MBD, 1918	li10li5	11	##
MEX, 1909	110990	n	et,
NE <i>n</i> , 1908	11000	11	# 1
NICE, 1907	110977	11	n †
NING, 1925	1,091,3	n	# ×
NUT, 1918	li1002	Doubtful	0 (
PET, 1909	41015	Positive	ti 🕙
Ram	41036	4 (0210144	Торо 🚅 1953
RHEA, 1909	1,1034	11	Triangulation
ROUGH 2, 1908	40982	11	# .
Rut	h1036	11	Topo - 1953
SULP 2, 1908	10997	**	Triangulation
800a. 1907	l10978	11	- i rangulacion
SOUTH ROCK, 1909-53	40945	**	n ;
TITAN, 1909	41033	11	H
Tomb	40989	Ħ	Topo - 1953
TRIM, 1925	10979	tt	Triangulation
TURN, 1909	1015	ff	n i
UP, 1918	41053	#	#
Vim	410991	u ·	Topo - 1953
WEST, 1909	40989	. #	
Yem	1,0991 ·	et	Triangulation
Zag	1,0991 1,0991	17	Topo - 1953
	Single bens		Topo - 1953
BRETT, 1908-1/4	SEA13-091	Doubtful	Tutomanilabtas
ROUND, 1908-1/1	SEA26-020		Triangulation
1.00mm = 1.700 = 1.11	OB450-050	Positive	~ i

		QUALUTY OF	•
STATION	PHOTO NO.	IDERTIFICATION	REJARKS
EAST OF CRINCE OF	Single bons		
MAGES ISLAND		•	
BAKE, 1994	SEAS9-NIS	Postbive	Trinngulabion
RaT, long	4EA28-119	11	**
Ben, 1994	X15,026	11	! !
BU@GK. 1912	8EAL03-006	11	!
очо 1 92/ ₁	SEA22-025	n	II 1
DRICK, 1912	5EA22-00h	11	11
END, 1912	SEA22-009	н	"
нацарау, 1912	SEA103-006	**	# 1
HEAD, 1922	\$EA22-005	**	•
INGRAHAM, 1912-21	SEA103-004	**	U ,
KEN, 1921	\$EA22-005	11	, , , , , , , , , , , , , , , , , , ,
หมดห. 1924	seazo-obja	17	H ;
MOIRA ROCK, 1912	SEA22-135	u	*
NEST, 1912	SEA22-13/4	n	<i>n</i>
OUT. 1911	X15-026	23	ll .
PIT, 1924	X15,030	rt	Ħ
SCOTT, 1912	SEÁ15-065	**	11 1
scrub, 192h	SEA29-0/2	19	n
SUN, 1912	SEA103-005	ti .	11
TAG. 1924	SEA103-022	!!	11
	· · · · · · · · · · · · · · · · · · ·		44 }

Of the stations listed doubtful identification was made on stations: JACK, 1907; MUT, 1907; and BRETT, $1908-1l_1$. These stations are not required by the instructions since other stations in the immediate vicinity were used to meet the spacing requirements.

SEA22-025

Station JACK, 1907 was marked doubtful because the glare of the sunlight on the photographs made positive identification difficult except to large objects.

Station NUT, 1907 was marked doubtful since overhanging trees and shadows eliminated all object that would have made good subpoints. The subpoint used was a bend in the high water mark that did not show clearly on the photograph.

Station BEETT, 1907 was identified on a single lens photograph furnished by the Geological Survey which was very dull and hazy. It was marked doubtful since the subpoints did not show clear of sharp on the photograph.

4. VERTICAL CONTROL

TIP. 1924

Not applicable.

5. CONTOURS AND DRAINAGE

Not applicable.

Woodland cover

All land areas not covered by storm high waters were densely wooded with coniferous trees and underbrush except on very high mountains. A few offshore rocks to the south and west of the Barrier Islands were bare. A number of areas on the east side of Prince of Gales and a few areas in the Cordova Bay area had been longed out. These areas were easily seen on the nine lens photographs.

7. SHORELIES AND ALONGSHOLE PRATURES

(a) Shoreline was inspected from a boat running as close inshore as was safe. The mean bigh water line shows clearly on the nine tens photos where shadows or overlanging trees do not obscure it. In most areas not opened to the seas the mean high water line is at the tree line. In some aroun where the land protrudes up steeply from the shoreline the trees overhang it as much as h to 5 meters. In other areas, those open to the seas, it is usually visible on the photographs but may be as for as 50 meters from the tree line.

The mean high water line is indicated at random interval on photographs or whose it is not clear.

- (b) The low water line is not indicated on the photographs, although, a number of areas were marked foul when it was considered too shoul to inventigate with a motor whale boat. In some cases where a number of submerged rocks were grouped together the area would be marked foul out to the kelp line.
- (c) The foreshere in the vicinity of the Barrier Islands was mostly very rocky with humberous rock ledges and reefs that cover at high water. There are also many small bights with boulder, rock or gravel beaches in this area. Just north of the Barrier Islands there are many bights and small tays which have some sand beaches formed by streams that run into them.
- (d) There were a few bluffs and cliffs seen over the area. Mone of these were marked on the photographs. However, most of them are readily identifiable on the photographs due to the lack of vegetation. They should be obvious in a stereoscopic model.
- (e) In the project area where shoreline inspection was done no shoreline structures were noted other than the permanent fish trap at the mouth of Hessa Inlet. This structure was used by small fishing craft as a mooring. It was permanently secured to the beach, and had not been used as a trap for many years. It is indicated on the photograph.

8. OFFSHORE FRATURES

In the hydrographic survey area covered by field inspection important offshore features and possible dangers to navigation were indicated on the photographs. Many of the offshore rocks were located by hydrographic and/or topographic means.

In two places in the area inspected this season there were rocks that were indicated that did not show clearly on the photographs.

The first is a sunken rock in Euroka Channel about 1.1 mile HE of Far Point. In the vicinity of this rock there is a kelp area about 30 moters in diameter that appears to show on the photo. A hydrographic fix was taken on the rock and a check on its location can be obtained from the hydrographic sheet.

The second rock not clearly visible on the photographs was a rock awash about 200 meters SSE of triangulation station BIRD, 1909-53. This rock was not located by the hydrographic party, but it was noted on the photograph. It may how a little clearer on the office print. However, if a positive location cannot be made using the office prints, further hydrographic investigation is necessary.

Since the field inspection was done in conjunction with the hydrogenehic nurvey, seem of the effshore features were emitted from the photographs if proviously located by other methods. Although, an abtenda was made to field luminated all offshore features whether they led been previously located or not.

Heights of rock were estimated in all cases. All rocks were visited, but in most cases a landing was not made. When the field inspection was made a penetl notation of the time, date, and estimated heights was made on the photographs. At the close of the day beights of rocks awash were reduced to MLIM and all notes were inked.

9. LANDMARKS AND ALDS

- (a) The only lendmark noted was an abandoned light on Turn Point. It is station Ram identified on photograph Number 11036. Since it is a recoverable topographic station no photo location is needed.
- (b) No interior landmarks will be listed since no interior inspection was done.
 - (c) Inapplicable.
 - (d) The following fixed aids to navigation are indicated on the photographs:

AID	PHOTO NOS.	HYDROGRAPHIC	NAME REHARI	ίS
TELEVAK STRAIT LIGHT	1,0978			
MEULEN ROOK LIGHT	L1003			
MOUND POINT LIGHT	SEA29-OLIL			
CENTER ISLAND DAYBEACON	40991	Zng	Topo signal	Ļ
GUIDE ROCKS DAYBEACON	L1033	Cab	it. ii	
TURN ISLAND DAYBEACON	h1012	THRN, 1909-53	Triang.Stat!	on
HUNTER BAY DAYBEACON	li1036	,	_	
EUREKA CHANNEL DAYBEACON	եւ0992	Jár	Topo signal	l

The four aids listed above that were not located should be located by photogrammetric methods. No identification cards were made for these. All four were pricked direct.

The other aids listed have been located but were identified to be used in the control of the radial plot. Guide Rocks Daybeacon was identified but no card was submitted since it is not needed for central of the plot.

- (e) Inapplicable.
- 10. BOUNDRIES, MONUMENT, AND LINES

Inapplicable.

11. OTHER CONTROL

Anumber of topographic stations were identified on the photographs that were not listed as recoverable topographic stations. When these were identified no pricking cards were submitted.

The specified spacing for recoverable topographic stations was complied with in the area covered by the hydrographic survey. Listing covered under

side handing 3(f).

OTHER INTERIOR FEATURES 12.

Covered under side heading 2.

GEOGRAPHIC NAMES 13.

Geographic names will be covered in a separate report.

Only charted names were used in connection with records and reports.

STECLAL REPORTS AND SUPPLEMENTAL DATA 1h.

Supplemental data includes other phases of field work - triangulation data. topographic data, hydrographic data and coast pilot notes.

Photogrammetric data forwarded separately:

Field photographs

Control Station Identification Cords

Data to be forwarded:

Descriptive Reports for Hydrographic Sheets:

HO-1153

HO-1353

HO-1253

110-2153

Triangulation Report - Cordova Bay - 1953 Descriptions of Triangulation Stations Descriptions of Recoverable Topographic Stations Recovery Notes, Triangulation Stations Report on Landmarks and Fixed Aids Beographic Names Report & L Heck & 5 Coast Pilot Notes >

Respectfully submitted

Donald L. Campbell.

Ens., USC&GS

Approved and forwarded:

F. R. Gossett. CDR. USC&GS

Comdg., Ship HODGSON

KEETE INLET AND APPROACHES, CORDOVA BAY

S. E. ALASKA

AUG. - SEPT. 1954

PH-117

2. Areal Field Inspection

The area covered in this report is known as Keete Inlet, located on the west side of Prince of Wales Island, and east of Lime Foint. For purposes of this report, the approaches to Keete Inlet include the area east of a line drawn from triangulation station MAS, 1918 to the islet NW of Keete Entrance plus Keete Island.

There are no cultural features in the area. The only natural feature is that the land is densely wooded, except in the few areas noted on the field photographs as being grass covered.

This field inspection is standard.

The area was covered by standard nine-lens photographs (1/10,000) which gave adequate coverage except in the areas obscured by trees on all photos.

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

3, 4, 5 - Inapplicable

6. Woodland Cover

All land areas not covered by storm high water is densely wooded with coniferous trees, with the further exception of a few bare mountain tops.

7. Shoreline and Alongshore Features

(a) The shoreline was inspected from the beach at photo-hydro signal locations and from the boat in all other areas.

The mean high water line is at the bottom of the black band (one or two meters in width) which runs along the shore below the tree line.

- (b) There pertinent, the water line at MLIW was sketched on the field photos.
- (c) The foreshore is rocky with boulders, with a few areas of sand and gravel at stream mouths, and at the head of small bights.
- (d) The wreck shown on the photos at the head of the inlet is now completely broken up.

8. Offshore Fantures

All apparent offshore features were visited. The heights and depths, times and dates pertaining to each feature were noted on the field photos. All heights were estimated, all depths were measured.

There were no rocks which did not show on the photos, altho some had not been put on the MS. These were noted on the field photos.

9, 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 photos as listed.

SIGNAL	METHOD OF LOCATION	FHOTO NO.
Ark	Angle and distance from off. pp	1,1055
Col	Angle and distance from field pp	li1.05 3
Con	Angle and distance from off. pp	ե1045
Еуө	Off. pp	41045
Gar	An le and distance from field pp	Ji1053
Gut	Angle and distance from off. pp	41004
Ham	Angle and distance from off. pp	4,1.0h5
Н і .	Angle and distance from off. pp	41053
Hj d	Off. pp	L1045
Ile	Angle and distance from off. pp	41045
Imp	Angle and distance from pff. pp	4,1,0/.15
rog	Anglo and distance from field pp	41053
Mas	Angle and distance from off. pp	li10li5
Мо	"ngle and distance from off. pp	Ja10Ja5
Pol Pol	Off. pp	l1100/4
Pot	Angle and distance from off. pp	l;1045
Pry	Field redial plot	4105 3
Rok	Angle and distance from off. pp	l,1045
Hip	Angle and distance from off. pp	41.053
Rit	Off. pp	41053
Rođ	Augle and distance from field pp	41045
Sis	Angle and distance from off. pp	41004
Sop	ingle and distance from off. pp	frooft
Sus	Off. pp	41045
Tab	Angle and distance from off. pp	41053
Toe	Angle and distance from off. pp	41004
Ump	Angle and distance from field pp	41053
Val	Angle and distance from off. pp	41045
Ver	Angle and distance from off. pp	41045

12. Inapplicable

13. Geographic Names

A special report will be forwarded at the end of the field season. Keete Inlet, and Keete Island are the only charted names.

14. Special Reports & Supplemental Data

To be forwarded at later date:

Hydrographic Survey Shoot HO-1854 Hydrographic Descriptive Report for same. Tide Data Sounding Records and fathograms.

Forwarded with this report:

Office Photos
Field Photos
Advance Prints, Shoreline MSS T-11294, T-11295, T-11035
Blueline MSS of same number.

15. Notes to Compiler on Advance Shoreline (MSS) T-11294, T-11295, T-11035

The mean HWL shown on the MSS is believed to be slightly too far inshore. It is distinguished on the photos by the black band mentioned in Section 7 above.

The rock north of triangulation station END should be, if possible, shown on the final MS:

The reef on which signal PRY is located should be redrawn using sketched outline on the field photo as a guide.

Respectfully submitted,

John J. Demody

Ens., USC&GS

Approved:

John Bowie, CDR, USC&GS
Comdg., Ship HODGSON

REETE INLET AND APPROACHES (FROM TRIANG. STA. HAS TO SIGNAL IDE)

HYDRO	MANUA	PHOTO	
SIGNAL	SCRIPT	.iO •	METHOD OF LOCATION
Arlt "	T-11035	1,1055	Angle and dist. from off. p.p.
Col	T-11035	41053	Angle and dist. from Ciold p.p.
Con	T-11295	la1045	Angle and dist. from off. p.p.
Eyo	T-11295	4.1045	Off. p.p.
Gar	T-11035	41053	Angle and dist. from field p.p.
Gut	T-1129h	11100/1	Angla and dist. from off. p.p.
Ham	T-11294	1,1045	Angle and dist. from off. p.p.
111	T-11035	L1053	Auglo and dist. from off. p.p.
Hid	T-1129h	4.to45	off. p.p.
Ile .	9797 T-11294	1,3,01,5	Augle and dist. from off. p.p.
Imp	T-11295	41045	Angle and dist. from off. p.p.
Log	T-11035	41053	Angle and dist. from field p.p.
Mas	T-11294	h10h5	Angle and dist. from off. p.p.
Ma	T-11294	1,1045	Angle and dist. from off. p.p.
Po1	T-11294	41004	Off. b.b.
Pot	T-1129l ₄	41045	Angle and dist. from off. p.p.
Pry	T-11035	41053	Radial plot
Rok	1 1/2 T-11294	41045	Angle and dist. from off. p.p.
Rip	T-11035	41053	Angle and dist. from off. p.p.
Rit	T-11295	h1053	Off. p.p.
Rod	T-1129 <u>l</u> 4	41045	Angle and dist. from field p.p.
Sis	T-11294	41004	Angle and dist. from off. p.p.
Sop	T-11.294	tt 100ft	Angle and dist. from off. p.p.
Sus	T-1.1295	Ji1045	Off. p.p.
Lap	T-11035	41053	Angle and dist. from off. p.p.
Too	T-11294	41004	Angle and dist. from off. p.p.
Ump	T-11035	41053	Angle and dist. from field p.p.
Val	T-11295	1,10/15	Angle and dist. from off. p.p.
Ver	T-11294	41045	Angle and dist. from off. p.p.

1) 100

FIELD INSPECTION REPORT

FOR

NUTRWA INLET. CORDOVA BAY

S. E. ALASKA

PH-117

2. Areal Field Inspection

The area covered in this report is known as Nutkwa Inlet, located on the west side of Prince of Jales Island, and directly east and north of Lime Point. For purposes of this report, the junction with Keete Inlet and its approaches is a line drawn from triangulation station HAS, 1918 to triangulation station LIT, 1918, thence to the islet NV of Keete Entrance.

There are no cultural features in the area. The only natural feature is that the land area is densely wooded.

This field inspection is standard.

The area was covered by standard nine-lens photographs (1/10,000) which gave adequate coverage except in the area obscured by trees in all photos.

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

3, 4, 5. Inapplicable

6. Woodland Cover

All land area not covered by high water is densely wooded with coniferous trees, with the further exception of a few bars mountain tops.

7. Shoroline and Alongshore Features

(a) The shoreline was inspected from the beach at photo-hydro signal locations and from the boat in all other areas.

The mean high water line is at the bottom of the black band (one or two meters in width) which runs along the shore below the tree line.

- (b) Where pertinent, the water line at MLLW was sketched on the field photos.
- (c) The foreshore is rocky with boulders, with a few areas of sand and gravel at stream mouths, and at the head of small bights.

8. Offehore Features

All apparent offshore features were visited. The heights and depths, times and dates pertaining to each feature were noted on the field photos. All heights were estimated, all depths were measured.

There were no rooks which did not show on the photos, altho some had not

NUTERA (FROM SIGNAL GUM TO SIGNAL FLEE, 1954)

HYDRO	MANU-	PHOTO	
SIGNAL	scritt	NO.	METHOD OF LOCATION
ALA	Topos	$h\overline{1}\overline{0}\overline{9}\overline{0}$	Angla and dlab. Crom off. p.p.
Bog	T_{-9003}	h1.050	Angle and dlat. Crom off. p.p.
四点,1954	T=0903	ելումին	Auglo and dlate from off. p.p.
Bob	T=9903	7/10/16	Angle and dlab. from off. p.p.
Bun	T-1129կ	J ₁ 1003	"nglo and dish. from off. p.p.
Und	T-9903	h1.050	Angle and dist. from off. p.p.
Uoti	T-9903	Ji1050	Angle and dist. from off. p.p.
Cow	T-11294	J ₄ 1003	Angle and dist. from Cield p.p.
Dam	T-9903	41.003	Angle and dist. from field p.p.
Dug	T-9903	li1050	Angle and dist. from off. p.p.
Ery	T_0903	41050	Angle and dist. from off. p.p.
Feg	T- 903	41003	Angle and dist. from off. p.p.
Fiz	T-9903	41050	Redial plot
Flue, 1954	T-9903	li1003	Angle and dist. from off. p.p.
Gum	T-9903	l:1045	Direct transfer
Gun	T-9903	J1050	Angle and dist. from off. p.p.
Uld	T-9903	41050	Angle and dist. from off. p.p.
Jot	T-9903	41050	Radial plot
Ken	T-9903	41046	Augle and dist. from off. p.p.
Mal	T-1.1294	Li 1003	Off. p.p.
Nob	T-9903	111045	Angle and dist. from off. p.p.
Oat	T-9903	41003	Angle and dist. from off. p.p.
Owe	T-9903	41046	Angle and dist. from field p.p.
Poar, 1954/1	T-9903	L1050	Angle and dist. from off. p.p.
Raz	T-9903	41050	Angle and dist. from off. p.p.
Sap	T-9903	և1003	Angle and dist. from off. p.p.
Sop	T-9903	կ1046	Radial plot
Stu	T-9903	41050	Radial plot
Tik	T_9903	41003	Angle and dist. from off. p.p.
Tip	T-9903	41050	Angle and dist. from off. p.p.
Tom	T- 9903	ļ110 <u>46</u>	Angle and dist. from off. p.p.
Tre	T-9903	41.046	Direct transfer
Try,1954	T-9903	41046	Angle and dist. from off. p.p.
Uno	T-9903	41050	Angle and dist. from field p.p.
Vex	T-9903	41050	Angle and dist. from off. p.p.
Wak	T-9903	41046	Angle and dist. from off. p.p.
Wik	T-9903	41050	Angle and dist. from off. p.p.
Yea	T-9903	41050	Angle and dist. from off. p.p.

.been put on the MS. These were noted on the field photos.

9, 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 photos as listed.

HYDRO SIGNALS	METHOD OF LOCATION	PHOTO NO.
Ald	Augle and distance from off. pp	11050
Beg	Angle and distance from off. pp	Į 1.05 0
Blg 1954	Angle and distance from off. pp	1/10/16
Bob	Angle and distance from off. pp	կ ւ օկ 6
Bus	Angle and distance from off. pp	14.003
Cad	Angle and distance from off. pp	11050
Cot	Angle and distance from off. pp	h1050
Cow	Angle and distance from field pp	h1003
Dam	angle and distance from field pp	41003
Dug	Angle and distance from off. pp	Ja1050
Egy	Angle and distance from off. pp	41050
Eng	Angle and distance from off. pp	l ₁ 1003
Fiz	Field radial plot	<u>µ1050</u>
Flue, 1954	Angle and distance from off. pp	կ1003
Gram	Direct transfer	[41.045
Gun	Angle and distance from off. pp	h109 8
llid	Angle and distance from off. pp	 41050
Jot	Field radial plot	li1050
Ken	Angle and distance from off. pp	41.046
Mo1	Office pp.	hi 003
Nob	Angle and distance from off. pp	41045
Oat	Angle and distance from off. pp	41003
Owe	Angle and distance from field pp	կ1046
Pear, 1954	Angle and distance from off. pp	41.050
Rag	Angle and distance from off. pp	կ1050
Sap	Angle and distance from off. pp	կ1003
Sop	Field radial plot	կ1.046
Stu	Field radial plot	ļa 050
Tik	Angle and distance from off. pp	, /11.003
Tip	Angle and distance from off. pp	41050
Tom	Angle and distance from off. pp	41.046
Tre	Direct transfer	1,1,01,6
Try, 1954	Angle and distance from off. pp	41046
Uno	Angle and distance from field pp	41050
Vex	Angle and distance from off. pp	41050
Viale	Angle and distance from off. pp	4,104,6
Wik	Angle and distance from off. pp	կ1050 ։
Yea	angle and distance from off. pp	41.050

12. Inapplicable

13. Geographic Names

A special report will be forwarded at the end of the field season. Nutkwa Inlet, Nutkwa Lagoon, and Lime Point are the only charted names.

14. Special Reports and Supplemental Data

To be forwarded at a later date:

Hydrographic Survey Sheets HO-1854 and HO-1954 Hydrographic descriptive reports of same. Tide Data Sounding Records and Fathograms

Forwarded with this report:

Office Photos Field Photos Advance Prints, Shoreline MSS of area. Blueline MSS of area

15. Notes to Compiler

The mean LWL shown on the MSS is believed to be alightly too far inshore in places. It is distinguished on the photos by the black band mentioned in Section 7 above.

The rocks and other offshore features have been appropriately noted on the field photos.

Respectfully submitted,

John Dermody

Ens., USC&QS/

Approved:

John Bowie, CDR, USCAGS Comdg., Ship HODGSON

2. AREAL FIELD INSPECTION:

The area inspected for boat sheet PA-1155 (covered by manuscripts T-11295 and T-11035) is in the upper half of Klakas Inlet on the east side of Cordova Bay (USC&GS Chart No. 8147). The shoreline inspection was started from the northern limits of the 1954 work to the north end of Klakas Inlet.

The area inspected for boat sheet PA- 1255 (covered by manuscripts T-9903, T- 9435, T- 11501, and T- 11502) is in Hetta Inlet and the southern end of Sukkwan Strait. The field inspection started from the northern limits of the 1954 work and continued north to a line running easterly from Eek Point, and into Sukkwan Strait to a north-south line at longitude 132 degrees, 44 minutes.

The area inspected for boat sheet PA-1355 (covered by mamuscripts T-11498, T-11499, and T- 11502) is in Hetta Inlet and extends northerly from junction with boat sheet PA-1255 to latitude 55 degrees, 14 minutes.

The area inspected for boat sheet PA-1455 (covered by manuscripts T-11494, T-11495, and T-11499) is in Hetta Inlet north of junction with boat sheet PA-1355 to the head of Portage Bay.

The field inspection was accomplished at various times throughout the current season, during the periods when hydrographic signals were built and located in advance of the hydrographic surveys.. The entire shoreline was inspected from the water, close inshore.

Field inspection consisted of (1) recovery and identification on areal photographs of existing triangulation stations, and identification of newly established triangulation stations; (2) identification of hydrographic control signals; (3) shoreline and offshore rock inspection.

The photographic coverage consists of single lens photographs at a scale of 1:10,000 and nine lens photographs at a scale of 1:10,000 and 1:20,000. The single lens photographs were used throughout with the exception of the identification of two hydro signals, FIE and YET, which could only be identified on one nine lens 1:10,000 photograph numbered 41002 (manuscript T-9903).

The photography was generally good, but due to shadows and overnanging trees along the shoreline, some flifficulty was experienced in interpreting features.

3. MORIZONTAL CONTROL:

(a) Horizontal control established by second order triangulation:

TALON 1955, HETTA 1955, PARKA 1955, ANTON 1955, and SIMON 1955.

Horizontal control established with third order accuracy, for location of hydrographic signals (manuscripts T-9903, T-11499, and T-11502):

Ida	Sign*	Yam	Fig
Amo	Bat*	Ado#	Dog+
Eva≠	Era=	Hex	Lax
Pod≠	Ice	Gas≠	Mar

Horizontal control established by theodolite and sextant cuts from triangulation stations and whose positions were computed, for location of hydrographic signals and the adjustment of radial plot of manuscripts (manuscripts T-9903 and-T-11294):

Bib, Cat 1954, Ply, and Abe.

All of the above hydrographic signals, except those marked with an asterisk, have been field inspected and also located on the photographs. Their photo locations were used on the boat sheets. It is recommended that the triangulation positions of the above hydro signals be used on the smooth hydrographic sheet.

- (b) All horizontal control is on the N.A. 1927 datum and no datum adjustments are necessary.
- (c) All control used in 1955 was established by the Coast and Geodetic Survey.
- (d) An attempt was made to recover and identify on photographs all previously established triangulation stations, together with identifying on photographs all newly established triangulation stations within the area field inspected.
- (e) The following triangulation stations were searched for but could not be found, and are presumably lost:

HIGH 1908-14, REEF 1908-14, NEAR 1908-14

(f) The following twelve stations were identified for photo control and entered on Control Identification Cards:

Triangulation Station	Map No.	Photo No.
COPPER 2, 1908	T-11502	54-0-184
POINT 1908	T-11502	54-0-76
BRETT 1908-14	T-11501	54-0-76
EASY 2, 1908	T-9435	54-0-75
FOG 1908,1954	T-9435	64-0-73
LDME 2, 1954	T-11294	54-0-181
GRASS 1905,1954	T-11293	54-0-72
LOG 1908-14	T-11501	54-0-60
CLOSE 1908-14	T-11501	54-0-60
TALON 1955	T-11502	54-0-76
HETTA 1955	T-11502	54-0-186
SIMON 1955	T-11499	54-0-78

4. VERTICAL CONTROL:

No vertical control was established.

5. CONTOURS AND DRAINAGE:

Not investigated.

6. WOODLAND COVER:

The area is heavily covered with spruce, hemlock, and some cedar. The only deciduous trees are small birches and alders growing sparcely in small areas which have been cut over for mining installations and are now in ruins. Along the major portion of the shoreline, the heavy growth of trees extends to the high water line, and in many cases overhang into the water. This condition made it impossible in several instances to identify triangulation stations on the photographs.

7. SHORELINE AND ALONGSHORE FEATURES:

- (a) The mean high water line was adequately compiled on the manuscripts. A few exceptions were noted on the field photos.
- (b) The low water line, where it existed, was delineated on the boat sheet. In general, it agreed with the offshore dotted line shown on the manuscripts.
- (c) The foreshore was usually steep. The delineation as shown on the manuscripts is adequate.
- (d) There were no prominent bluffs and cliffs of importance within the area inspected.
- (e) There are no shoreline structures within the area inspected. The one dock in Copper Harbor is now in ruins and does not show on the photographs outside of the high water line.

8. OFFSHORE FEATURES:

Islands, rocks, reefs, ledges, and foul areas, offshore from the high water line, was well defined on the manuscripts. All offshore information was transferred from the manuscripts to the boat sheets and investigated during the hydrographic surveys. Information from these investigations was noted on the boat sheets.

9. LANIMARKS AND AIDS:

There were no landmarks or aids within the area field inspected.

10. BOUNDARIES, MONUMENTS, AND LINES:

Not investigated,

OTHER CONTROL: 11.

Recoverable topographic stations were established in accordance with project instructions and are being submitted on Form 524. Two topographic stations were established in Klakas Inlet and two in Hetta Inlet.

The following photo-hydro stations were established:

Man	T-9	903

Map T-9435

Station	Photo No.	Station	Photo No.
Abe *1	54-0-182	Ace	5 4- 0-74
Add	183	Cut	42
Bib 1	182	Dip	74
Big	183	Ego	42
Car	183	Gal	42
Cod	183	How	. 42
Don	183	Ivy	42
Ear	183	Jib	42
Era *1	184	Key	75
Fox	183	Kim	42
Gin	183	Low	42
Oat 1954(Rec		Mag	42
Pie	41002	Max	74
Ply *1	54-0-181	Ned	73
Roy	182	Nut	42
Sal *	182	Oalr	72
Try *	182	011	42
Van ∗	182	Pal	42
War =	182	Rat	42
Yet *	41002	Sip	42
		Tan	42
* Located al	so by sextant	Val	73
cuts		Vet .	42
1 Located al	so by trian-	Wig	73
gulation.		Yak	42
	. /	Zig	74

Map T-11035

Station	Dhata Wa	Map T-11293
	Photo No.	Station Photo No.
Ida Nig Out Pet Quo (Marked) Rev Sis	54-0-260 280 279 279 279 279 279 279	Lag 54-0-72 Pot 1954(Recovered) 72 Quo 72 Rag 72 Sam 72 Toy 72
T <u>en</u> Use	279 279	

Map T-11495

Map T-11495 (Cont.)

			<u> </u>	ETADO (OOTOS
Station	Photo No.	•	Station	Photo No.
Alp	54-0-216		Då	54 A 038
Art	216		Pin	54-0-217
Amp	216		Pup	215
Bum	216	•	Rag	217
Bus	216		Rat	216
But	210		Rig	215
	216		Rio	217
Cab	215	•	Sal	215
Cat	216	• •	Sol	228
Cop	216	,	Sop	216
Dog	216		Tax	215
Dot	215		Tub	216
Duo .	216	•	Val	217
Eat	228		ACT.	
Ego	216	• .	Vet	215
Emo	216		Wag	215
Era	216		War	217
Fez		4	Was	216
Pa-	216		Yem	216
F <u>in</u>	228	*	Yes	216
Fry	216		Zoo	216
Gad	217	•		
Gi <u>n</u>	· 216	•		
Gum	216	•		
Hoe	216		Mon T	-11295
Hop	217		may I	-11230
Hut	216		94a44a	Db-4- W-
Ice	216	. 1	Station	Photo No.
Irk	216			.
Ivy	217	•	Add	54-0-282
Jar	217		Art	282
Job	215	,	Bag	282
Jut			Bob	282
Ked	216		Саъ	282
	217		Cob1954 (Re	0.) 282
Kin	215		·Cry	282
Lad	214		Day	282
Leo	217	•	Dig1954 (Re	
Lug	217		Dip	282
Low	216		Ear	282
Mag	. 215		Egg	281
Ma <u>n</u>	217	•	Fix	282
Mop	217	5*		
Mug	216	, ,	Gal (Marked	
Ned	215	i	Her	281
Nip	216		Jay	280
Now (Marked			Kim	280
Nut			Leo	280
	217		Mop	280
Oak	216		Sam 1954 (R	ec. -
Odd Obs	215	•	Marked)	282
Olum	217	*	Val	282
011	217		Wag	282
Pet ·	216		Yes	282
	•		Z00	282
<u>^</u>			200	202

Station	Photo No.
Alp	54-0-76
Bob	. 76
Cow	76
Day	76
Eat	76
Fig *	77
Fly	7 6
Gag	76
Hat	76
Hex *	7 6
Irk	7 6
Ice ÷	7 6
Job	76
Ked	76
Key	187
Lay	76
Lug	187
Mel	76
Мое	1 86
Nat	7 6
Nip	186
Oak	186
01d	7 6
Pad /	186
Rev	1 86
Sol /	186
Tub /	186
ŬS⊖	186
Wed	186
Wag #	7 6
Yam ∓	7 6
Zoo	76

* Located also by triangulation.

Map T-11498

Station	Photo No.
Ado	54 - 0-22 7
Воъ	227
Cow	227
End	78
Fat	79
Gas	228
Hex	228
Ida	227
Joy	227
Set	227
Ten	228
ប៊ែនe	227
Van	227
Who	227
Yak	227
Zig	227

Sta	tion	Photo	No.
Ace Ask Arm Bag Bib	<u> </u>	54-0-22 7 7 7 22	28 78 78 78 78
Box Cab Cod Cut Day Dip	(Marked)	7 22 7 22	8 8
Don Dot Ebb Eva Fog Fun	(2001 2001)	· 7	9 8 8 8 9
Gus How Jug Mar Yum Zoa	¥	7: 7: 7: 7: 7:	8 8 8 8

* Located also by triangulation.

Map T-11501

Station	Photo No.
Hod Jap Ken Mid Nod Ora	54-0-76 76 60 59 60 60
R io	61

Map T-11494

Station		Photo No.
Key Peg Toy		54 - 0-228 217 228

12. OTHER INTERIOR FEATURES:

There are no buildings, docks, bridges, cables, roads or airports in this area.

13. GEOGRAPHIC NAMES:

The area field inspected is all inclusive on Chart No. 8147.

On 22 July 1955, Mr. James Edenso, whose address is Hydaburg, Alaska, was interviewed by CDR. J. C. Partington. Mr. Edenso was then employed as a watchman at Eek Inlet for the U. S. Fish and Wildlife Service. Mr. Edenso, a member of the Indian race, was born at Howkan village in Kaigani Strait, and is about 60 years old. He has fished most of his life in and around Cordova Bay. He is an intelligent man with probably a grammar school or possibly a high school education. Mr. Edenso stated that the following geographic names are in local use:

Blanket Island - The island at the southeast entrance to Suk-Kwan Strait whose northeast point is charted as Round Point. No specific reason was given for this name.

Y Bay - The small bay on the west side of Hetta Inlet and just south of the above Blanket Island.
The name Y Bay is used to denote this body of water because of a slide at the head of the bay shaped like the letter Y.

Mud Bay - On the east side of Hetta Inlet, about 22 miles north of Lime Point. The Coast Pilot mentions this name although the name is not charted. Local fishermen call this Mud Bay because of its usefulness as an anchorage.

The sites of Copper City, Coppermount, Corbin Mine, and Sulzer no longer exist. They are abondoned and in complete ruins. The aerial tramway and pipeline shown on the chart at Coppermount, together with the aerial tramway leading to Copper Mt., and the flume at Sulzer, are no longer in existance and should be removed from Chart No. 8147.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA:

Item Transmitting Letter Date

Triangulation Data, Cordova Bay, Hetta Inlet, S.E.Alaska, Project 1357 12 August 1955

Reference is made to the following applicable data:

The 1955 Hydrographic Surveys. Boat sheets of the Ship PATTON were forwarded to the Washington Office and prints are available.

Copies of the transmittal letters showing the photogrammetric records transmitted with this report, are attached.

Respectfully submitted,

william c. Russell

William C. Russell, CDR., USC&GS

Approved and forwarded:

J. C. Partington, CDR., USC&GS, Comdg., Ship PATTON

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 - PADIAL 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 $8\frac{1}{4}$ 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.

22. METHOD - RADIAL PLOT (cont'd)

Templets:

Vinylite 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:

Vinylite 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 COFFER 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.

Transfer of Foints:

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 Klakas 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 Ft. 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.

GUIL, 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 Carto. Aid (Photo)

LIST OF CONTROL

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

<i>y</i> -	4			
132 50	0,34-04-4	C41049 67011-O	30' 132' 1	20 55 07 30"
•	0. 17-144 0. 54.0.13 0. 26-02 54.0.73	C 54.0-78 C 41050	0 54-0-218	
	÷.	0 41048 O 41051 54-0-183 O 0 41047	812-0-+5 O	
	26-020 •	T-9903	T-11035	
	23 0 5 73	11002○C)3 O 54-0-290	
<u> </u>	₩Z ○ 11:0-ms	△ ∓ ⋖ □		
	141-111	Δ Λ Θ Δ 4104.55 5 6 Ο 4104.5	√1 <u>9</u>	
		##01#O #00#O	O 41066	
	0,17-109 T-11293	25 • 26-018 T-11294 41043 0	T-11295 O 54-0-282	
4058 O D	∑ C7	4 ∞	0410E9	5500,00"
	040957 • 0.45O	117-139 O 41001 O 41006	O41042 O 41060 O 54-0-183	
	054-0-17 A 26 26 O 17410 27	2001HO .6660HO	0 41040 O41061	
	30 T-11296 O40955	T-11297	T-11298 Q. 54-0-285= O 41039 O 41062	
		60011	0 41038	54°56'15"
	<i>4560</i> † O	LAYOUT SKETCH		
•		SUKVEYS NOS 1-3439, 1-3403, 1-11035 and T-11293 to T-11298 inclusive NINE LENS PHOTOGRAPHS © GINELE LENS PHOTOGRAPHS © CONTROL STATIONS (identified) © CONTROL STATIONS (identified)		

© CONTROL STATIONS (hot held in plot).
\$\int CONTROL STATIONS (not identified)\$
\$\int C\text{1854} \text{SINGLE LENS RATIOED PHOTOERAPHS}\$

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: 5h-0-278 thru 5h-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 Klakes 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 photograph: 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 Flot 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 FLOT (cont.d)

Cleanre and Adjustment to Centrel: (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 placent 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-1/8.

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 Carto. Photo. Aid

3 L. Williams

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT

COAST AND GEODETIC SURVEY CONTROL RECORD

MAF	-//-	PROJECT THE PROJEC	PROJECT NO.	SCALE OF MAP		SCALE I ACTUR	, L
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE + 1 + th	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)
GUIL, 1918	G-463 p. 466	N.A. 1927	55 03 14.617 132 29 17.934			452.0 (1403.4) 318.4 (746.8)	
			55 02 54.431			1683.2 (172.2)	
cos, 1918	=	=	132 29 17.955			318.8 (746.6)	
MED, 1918	#	=	55 02 44.533			1377.1 (478.3)	
Sub. Pt. "A" MED, 1918			70				
			132 29			1023.8 (41.6)	
Sub. Pt. "B"		!	55 02			1396.8 (458.6)	
MED, 1910			132 29			1022.3 (43.1)	
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7 FT. = .3048006 METER			75. A 10¢'l.	•	1 6		COMM- DC- 5784
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COMPILATION REPORT Project 6117 Survey T-11295

Field Inspection Report:

- 1. Photogrammetric Field Inspection Report, S. E. Alaska, Cordova Bay Prince of Wales Island, 1953, USC&GS Ship HODGSON, Franklin R. Gossett, commanding.
- 2. Photogrammetric Field Inspection Report, Ph-117, Surveys T-11294, T-11295, T-11035, 1954, USC&GS Ship HODGSON, J. Bowie, commanding.
- 3. Photogrammetric Field Inspection Report, Project 6117, Hetta Inlet and Sukkwan Strait, 1955, USC&GS Ship PATTON, J. C. Partington, commanding. (See Descriptive Report for Survey T-9903).

Photogrammetric Plot Report:

- 1. The Photogrammetric Plot Report for surveys T-9903, T-11035, T-11294, T-11295, T-11297 and T-11298, dated 19 February 1954, is part of the Descriptive Report for Survey T-9903, 10000
- 2. A supplementary report for surveys T-11035 and T-11295 has been made part of the Descriptive Report for survey T-11035.

31. DELINEATION

This manuscript was delineated by graphic methods.

32. CONTROL

Refer to the Photogrammetric Plot Reports.

33. SUPPLEMENTAL DATA

Copies of the boat sheets for the following surveys were available for comparison purposes:

H-8129 (1954) (Klakas Inlet) H-8132 (1954) (Keete Inlet) PA-1155 (Klakas Inlet)

34. CONTOURS AND DRAINAGE

Contours: Inapplicable.
Drainage: No comment.

35. SHORELINE AND ALONGSHORE DETAILS

Refer to par. 35, Descriptive Report for survey T-11035.

36. OFFSHORE DETAILS

Rock elevations were shown only when the information was made part of the photogrammetric data. No rock data was taken from the boat sheets except to correct the symbolization.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

No Form 524 was available for SAM, 1954. Compilation office data for this station was submitted on a blank form.

Form 524 has been submitted for station GAL, 1955.

Twenty-nine photo-hydro signals have been located in the area of this survey. See par. 49.

39. JUNCTIONS

Junction has been made with survey T-11035 to the north, T+11294 to the west and T-11298 to the south. There is no junction to be made with survey T-11522 (Project 6148) to the east.

40. HORIZONTAL AND VERTICAL ACCURACY

See Photogrammetric Plot Report.

45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

The information shown on the USGS Craig Quadrangle, scale 1:250,000 edition of 1952, is based on USC&GS charts.

47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 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.

Approved & Forwarded

E. H. Kirson, Capt. C&GS

Baltimore District Officer

Respectfully submitted 15 February 1956

Ruth M. Whitson Carto. Photo. Aid

49. NOTES FOR HYDROGRAPHER

Recoverable topographic stations SAM, 1954 and QUO, 1955 have been located on this manuscript. The following are the photo-hydro signals located on this manuscript.

Keete	<u>Inlet</u>	survey	H-8132(1954)
APE*		IMP	SUS
CON*		NOD	VAL
EYE		RIT	

*APE - Pricking changed (0.3 mm South) on office photo 41059 to agree with the pricking on the field photo.

*CON - Angle appears to be reversed. Should have been to right instead of left as recorded on back of photo. 41045.

Klakas Inlet survey	PA-1155
ADD DIP	MOP
ART EAR	VAL - 0.8 mm N of boat sheet position.
BAG EGG	WAG-0.8 mm S of boat sheet position.
BOB FIX	YES
CAB HER	ZOO - 1.3 mm S of boat sheet position.
COB JAY	-
CRY KIM	·
DAY LEO	

Signal DIG was located on the margin of this manuscript in the area of survey T-11298.

August 6, 1970

GEOGRAPHIC NAMES

FINAL NAME SHEET.

PH-117 (Alaska)

T-11295

Keete Inlet

Klakas Inlet

Prince of Wales Island

Approved by:

A. Joseph Wraight Chief Geographer Prepared by:

Frank W. Pickett Cartographic Technician

50-

PHOTOGRAMMETRIC OFFICE REVIEW

T. 1/295

1. Projection and grids2. Title	3. Manuscript numbers 4. Manuscript size
	CONTROL STATIONS 4a. Classification label
5. Horizontal control stations of third-order or	higher accuracy6. Recoverable horizontal stations of les
than third-order accuracy (topographic station	ns)7. Photo hydro stations8. Bench marks
9. Plotting of sextant fixes10. Phot	ogrammetric plot report 11. Detail points
	ALONGSHORE AREAS
	(Nautical Chart Data)
12. Shoreline13. Low-water line	14. Rocks, shoals, etc. 15. Bridges 16. Aid
to navigatio n17. - Landmar ks	18. Other alongshore physical features 19. Other along -
shore cultural features	
•	PHYSICAL FEATURES .
20. Water features 21. Natural grou	ind cover 22_Planetable-contours 23 . Stereoscopi
instrument contours 24. Contours	in-general25 , Spot-elevation s26. Other physica
features	
	CULTURAL FEATURES
27. Rozas 28_Buildings	29 : Railroad s 30 : Other cultural featur es
,	BOUNDARIES
31. Boundary lines 32. Public land	ilines
	MISCELLANEOUS
33. Geographic names 34. Junctions	35. Legibility of the manuscript 36. Discrepanc y
overlay 37. Descriptive Report	38. Field inspection photographs 39. Forms
40. C. Tolyon	Jeoreph Steinbria
Reviewer	Supervisor, Review Section of Unit
41. Remarks (see attached sheet)	
	·
FIELD COMPLETION ADDIT	TIONS 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 to	under item 43. Information is not available.
Compiler	Supervisor
43. Remarks:	H 0551 10

Review Report T-11295 Shoreline Mapping

September 1970

61. General Statement

Differences in some rock elevations were found between T-11295 and H-8132 (refer to Summary, Rock Elevations). These elevations were removed from T-11295. $\sim \rho_{R,gc}$ 7

Field inspection photographs 54-0-281 and 282 were used during final review.

62. Comparison with Registered Topographic Surveys

Comparison was made with the following topographic surveys:

T-2331, dated 1897, 1:80,000 scale T-3717, dated 1918, 1:10,000 scale

These surveys are superseded for charting by T-11295.

63. Comparison with Maps of Other Agencies

Comparison was made with USGS Craig (A-2), Alaska quadrangle, 1:63,360 scale, dated 1951. No significant differences were found in the comparison.

64. Comparison with Contemporary Hydrographic Surveys

Photogrammetric survey T-11295 was used as a base for new hydrography. The following contemporary hydrographic surveys were used for comparison:

H-8128, dated 1954, 1:10,000 scale H-8129, dated 1954, 1:10,000 scale H-8132, dated 1954, 1:10,000 scale H-8229, dated 1954, 1:10,000 scale

The agreement is good between the hydrographic surveys and T-11295.

-2-

65. Comparison with Nautical Charts

Comparison was made with chart 8147, 1:40,000 scale, 5th Edition, corrected to July 3, 1967. 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 & Chief, Photogrammetry Division