Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey SHORELINE Py - Field No. 117 Office No. T-11035			
LOCALITY			
State ALASKA			
General locality Cordova Bay			
Locality Keete Inlet and Head of Klakas Inlet			
19.54 - 1955			
CHIEF OF PARTY F. R. Gossett, Chief of Field Party J. C. Partington, Chief of Field Party E. H. Kirsch, Baltimore District Officer LIBRARY & ARCHIVES			
DATE			

B-1870-1 (1)

DESCRIPTIVE REPORT - DATA RECORD

T- 11035

Project No. (II):

Quadrangle Name (IV):

Field Office (II): C&CS Ship HODGSON

Chief of Party: C&GS Ship PATTON

F. R. Gossett, J. Bowie and J. C. Partington

Photogrammetric Office (III):

Officer-in-Charge: E. H. Kirsch

Instructions dated (II) (III):

Field: 3/17/53, 1/8/54, 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 I 9 1956 Date reported to Nautical Chart Branch (IV):

Date received in Washington Office (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): UP, 1918

Lat.: 55° 94 11.325" (350.2m)

Long.: 132° 29' 29.386" (521.5m)

Adjusted Mitadiosiadx

Plane Coordinates (IV):

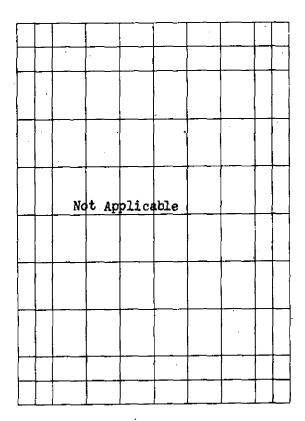
State: Alaska

8 Zone:

X=

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

When entering names of personnel on this record give the surname and initials, not initials only,



Areas contoured by various personnel (Show name within area)
(11) (111)

DESCRIPTIVE REPORT - DATA RECORD

D. L. Campbell, A. C. Haglund Field inspection by (II): R. C. Munson, J. J. Dermody

1953 field season Date: 1954 field season

1955 field season

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.

N. C. Russell, F. J. Tucker

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

1/20/54 Date:

Control checked by (iii): R. Glaser

Date: 2/2/54

Radial Plot on Scarnes capta H. R. Rudolph EKANACENDENGUACIEN (III): E. L. Williams Date:

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

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

Date:

Photogrammetric Office Review by (III): R. Glaser

Date:

2/10/56

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

Date:

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III):

C&GS Nine-lens and single lens camera "O"

PHOTOGRAPHS	(III)
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Number	Date -	Time	Scale	Stage of Tide
45385 and 45386 54-0-277	6/4/54	1100	1:20,000	1.6' below MLLW
thru 279	7/6/54	1106	1:10,000	1.1' above MLLW

Tide (III)
From predicted tables

Reference Station:

Sitka

Subordinate Station: Subordinate Station: Hassiah Inlet

Washington Office Review by (IV): Dock. BRANT

7.7 9.9 1.3 10.3 12.9

|Ratio of | Mean | Spring

Range

Range

1970

Final Drafting by (IV):

Date:

Ranges

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 0.8

Shoreline (More than 200 meters to opposite shore) (III): 7.6Shoreline (Less than 200 meters to opposite shore) (III): 0.9

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 1
Number of BMs searched for (II):

Recovered: 1

Identified: 1

Identified:

Number of Recoverable Photo Stations established (III):

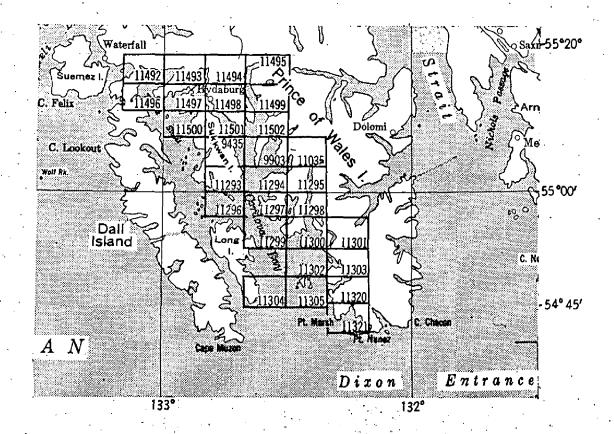
Addition of Mecoverable Frioto Stations established (iii).

Number of Temporary Photo Hydro Stations established (III):

17

Remarks:

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



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SHEET NO. MILES SHORELINE	20
9435	11.492
9903 21 21	11493 12
11035 9 9	2 2
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11294 15 15 15	17 17
11295 13 13 14 15 15	11497 26 26
11296 14 14	्रो <i>ो</i> 11498 - । । । । । । । । । । । । । । । । । ।
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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

Control station identification was made in the main project area of Cordova Bay on the southwest side of Prince of dales Island, and in three areas on the east side of Prince of dales Island in accordance with instructions for Project CS-357. Shoreline inspection for this season was confined mainly to the area covered by this season's hydrographic surveys. In the areas north of Shipwreck Point, on the west side of Cordova bay, and on the east side of Prince of dales Island only very small amounts of shoreline inspection were deno.

The Cordova Bay area is a large deep watered area with many injets, arms, and hights that cut 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 offshere rocks covering the area. A few small tidal lakes are found on several of the islands. Most of the islands are 100 to 200 feet in height. The land area in the rest of Cordova Bay is mostly rugged wooded mountains cut by deep valleys, bays and inlets.

The areas on the east side of Prince of Beles Island in which the instructions required control station identification were in or near long deap bays. These 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 steep and rugged, and are usually bare near the summits.

There are very few cultural features in the areas covered by field inspection. In the Cordeva 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 Bunter 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 $^4\mathrm{sland}$. No detailed inspection of cultural features was made in this area.

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

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 shoals 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 short 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 BLACK 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 Coast and Goodetic Survey.
- (d) No field inspection was done this someon 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 can be considered of very little value for field inspection in this area; the second
- (e) In the Cordova Bay area the triengulation stations that were omitted in the photo identification were emitted in accordance with Paragraph 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 SPIRE, 1909	BAD, 1909
OUR, 1909	LIME, 1905-18
CAN, 1909	HUB, 1907
TOP. 1909	

Stations NEW, 1908 and GREEH, 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 h 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 Priangulation 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	11015	Positive	Triangulation
	ATA, 1918	1,1003	11	*1
,	Ахө	l10991	11	Topo - 1953
	BAN. 1925	140944	*1	Trinngulation
	MARRIER, 1908	1,0992	Ħ	11

		QUALITY OF	,
MOTTATE	PHOTO NO.	IDENTIFICATION	HOMMARKS
RLACK 2, 1953	7,0991	Posit ivo	Triongulation
BOAT, 1909-25	ho985	11	11
CEDAR 2, 1908	1,101,8	it	•
CLNO, 1909	41015		
сымг, 1907	, 14058	į.	11
GCN, 1925	7:0567	li. 	 H
COFFER 2. 1908	h_1oh_0	et .	11
CREEK, 1909	40993	11	
Day	10991		Topo - 1953
DEWEY 2, 1953	h0986		Triangulation
EGG 2, 1953	40986		11
FAR. 1909	/ ₁ 0991	;; #	**
FLAT 2, 1908	41002	" "	11
FOG, 1908	11005	. "	11
GRASS, 1908-1/L	41002	"	19
GREEN, 1907	Li0977	;; tl	 H
HAS, 1918	71007	 H	
HEM. 1907	10977	;; †1	
Hip	41011	it	Topo - 1953
HUNTER, 1909	h1035		Triangulation
JACK, 1907	40978	Doubtful	m 1053
Jar	40992	Positive	Topo - 1953
KEET, 1918	41045	" 1	Trinngulation
KLINKWAN, 1909	41035	 t	
LEDGE 2, 1908	Lo998	ti .	"
LITTLE, 1909	41033	. #1	11
MAB, 1918	J ₁ 1005	11	11
MARBLE 2, 1925	40983		11
K:D, 1918	1,10l;5	** **	11
MEX, 1909	110990	" "	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
NEW, 1908	1,1000	 H	!!
NICE, 1907	40977	11	" "
NING, 1925	40943		11
NUT, 1918	f1005	Doubtful	rr Pf
PET, 1909	41015	Positive	
Ram	41036	" It	Topo - 1953
RHEA, 1909	41034	" #	Triangulation
ROUGH 2, 1908	1:0982		"
Rut	41036	(1 11	Topo - 1953
SHIP 2, 1908	1,0997	11	Triangulation
SHOM, 1907	Li0978	er er	. 11
SOUTH ROCK, 1909-53	1,091,5	 H	i
TITAN, 1909	11033	11	•
Tomb	40989	ır	Topo - 1953
TRIM, 1925	1,0979	11	Triangulation
TURN, 1909	և1012	11	: 11
UP, 1918	<u> 11053</u>	ii	
Vim	40991.	et .	Topo - 1953
WEST, 1909	l,0989		Triangulation
Yom Zod	4099 1 .	PT .	Topo = 1953
Zńg	40991		^T opo - 1953
የፀደዋዋ 1049.11.	Single Lens	Danistania	Tm1
BRETT, 1908-14 ROUND, 1908-14	SEA13-091	Doubtful	Triangulation
COUNTY INVINITE	SEA26-020	Positive	1 1

0.06.00.5 0.00	GOOTTA OL	33375 8 £ 354564
	IDESTIFICATION	REMARKS
Single bons		'
SEA29-012		Triongulation
~6V3S-115	•	•••
X15,026		II.
SEA103-006	11	f#
_	11	er
•	31	71
SEA22-009	**	**
SEA103-006	11	. "
SEA22-005	11	tt
SEA103-004	11	•
SEA22-005	11	**
SEA29-OLL	91	11
SEA22-135	11	"
SEA22-134	**	н
X15-026	11	17
X15,030		"
SEA15-065		11
SEA29-042		"
SEA103-0.05	11	**
SEA103-022		11
SEA22-025	11	ff
	X15,026 SEA103-006 SEA22-025 SEA22-009 SEA103-006 SEA22-005 SEA22-005 SEA22-005 SEA22-134 X15-026 X15,030 SEA15-065 SEA29-042 SEA103-005 SEA103-022	PHOTO NO. IDERTIFICATION Single Lens

OHALLEY OF

Of the stations listed doubtful identification was made on stations: JACK, 1907; NUT, 1907; and BRETT, $1908-1h_1$. These stations are not required by the instructions since other stations in the immediate vicinity were used to meet the spacing requirements.

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 bond in the high water mark that did not show clearly on the photograph.

Station BRETT, 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 or sharp on the photograph.

占。 VERTICAL CONTROL

Not applicable.

5. CONTOURS AND DRAINAGE

Not applicable.

NOODLAND COVER

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

7. SHORELIUS AND ALONGOHORE PRATURES

(a) Shoreline was inspected from a best running on close inshere as was safe. The mean high water line shows clearly on the aims tone photos where shadows or everhanging trees do not obscure it. In most areas not ejened to the seas the mean high water line is at the tree line. In some aroun where the land protecutes up steeply from the shoreline the trees everhang it as much as it is maters. In other arous, those open to the seas, it is usually claible on the electorraphs but may be as far as 50 meters from the tree line.

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

- (b) The less water line is not indicated on the photographs, although, a number of areas were marked foul when it was considered too sheal to investigate with a mater whale beat. In some cases where a number of submerged reaks were grouped together the area would be marked foul out to the kelp line.
- (c) The foreshore in the vicinity of the Barrier Islands was mostly very rocky with numberous 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 bays which have some sand beaches formed by streams that run into thom.
- (d) There were a few bluffs and cliffs seen over the area. None 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 FEATURES

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 NE of Far Point. In the vicinity of this rock there is a kelp area about 30 motors in diameter that appears to show on the photo. A hydrographic fix was taken on the rock and a shock 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 annot be made using the office prints, further hydrographic investigation is necessary.

Since the field inspection was done in conjunction with the hydrographic survey, seme of the offshore features were emitted from the photographs if previously located by other methods. Although, an attempt was made to field inspect all offshore features whether they had 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. Then the field inspection was made a pencil notation of the time, date, and estimated heights was made on the photographs. At the close of the day heights of rocks awash were reduced to MLIW and all notes were inked.

9. LANDMARKS AND ALDS

- (a) The only landmark 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) Inapolicable.
 - (d) The Collowing fixed aids to navigation are indicated on the photographs:

PHOTO NOS.	HYDROGRAPHIC	NAME REI	JARKS
1,0978			
41003			
SEA29-0144			
40991	Zng	Topo sig	gnal
41033	Cab	n i	•
41012	TURN, 1909-53	Triang.St	tation
l ₄ 1036			
140992	Jar	lopo sia	;nal
	1,0978 1,1003 SEA29-014 1,0991 1,1033 1,1012 1,1036	10978 41003 SEA29-044 40991 Zng 41033 Cab 41012 TURN, 1909-53 141036	li0978 li1003 SEA29-Old li0991 li1033 Cab li1012 li1036 TURN, 1909-53 Triang.St

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 control of the plot.

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

Inapplicable.

11. OTHER CONTROL

A number 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 heading 3(f).

12. OTHER INTERIOR FEATURES

Covered under side heading 2.

13. GEOGRAPHIC NAMES

Geographic names will be covered in a separate report.

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

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

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

Photogrammotric data forwarded separately:

Field photographs

Control Station Identification Cords

Data to be forwarded:

Descriptive Reports for Hydrographic Sheets:

110-1153

HO-1353

HO-1253

HO-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 Geographic Names Report TL Heek 25

Coast Pilot Notes अ

Respectfully submitted

Donald L. Campbell.

Ens., USCAGS

Approved_and forwarded:

F. R. Gossett,

CDR. USCAGS

Comdg., Ship HODGSON

FOR

KEETE INLET AND APPROACHES, CORDOVA BAY

S. E. ALASKA

AUG. - SEPT. 1954

PH-117

2. Aronl 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 Point. 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 islat 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) Where 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	риото но.
Ark	Angle and distance from off. pp	41055
Col	Angle and distance from field pp	41.053
Con	Angle and distance from off. pp	41045
Eye	Off. pp	41045
Gar	An le and distance from field pp	41053
Gut	Angle and distance from off. pp	110011
Ham	Angle and distance from off. pp	1,101,5
H1	Angle and distance from off. pp	կ1053
Hid	Off. pp	41045
Ile	Angle and distance from off. pp	41045
Imp	Angle and distance from pff. pp	h1.0h5
$_{\rm Log}$	Anglo and distance from field pp	h1053
Маа	Angle and distance from off. pp	h10h5 ;
Ма	angle and distance from off. pp	liitoli5
Po1	Off. pp	41004
Pot	Angle and distance from off. pp	41045
Pry	Field radial plot	h1053
Rok	Angle and distance from off. pp	կ10կ5
Rip	Angle and distance from off. pp	41053
Rit	Off. pp	Ja 053
Rod	Angle and distance from field pp	41045
Sis	Angle and distance from off. pp	41004
Sop	angle and distance from off. pp	li100ft
Sus	Off. pp	41045
Tab	Angle and distance from off. pp	41053
Too	Angle and distance from off. pp	ftrooft
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 fathegrams.

Forwarded with this report:

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

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

The mean WWL 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_{\bullet}

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. Dermody Ens., USC&GS

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

REETH THERE AND APPROACHES (PROM TRIANG, STA. MAS TO STOMAL TER)

нурго	MARU.	HUTO		:
SIGNAL	SCRIPT	.iO •	METHOD OF LOCATION	•
Ark	T-11035	h1055	Angle and disk. from off. p.p.	
Col	T-11035	h1053	Angle and dist. from field p.p.	į
Con	¹ -11295	43.045	Augho and dint. from off. p.p.	,
Eyo	T+11295	L1.0L5	0ff. p.p.	•
Gar	T-11035	կ1.053	Angle and dist. from field p.p.	
Gut	T-1129կ	կանի	Angle and dist. from off. p.p.	:
Hem	T-11294	41.045	Angle and dist. from off. p.p.	•
111	T-11035	月1053	Angle and dist. from off. p.p.	
Hid	$T-1.129l_1$	41045	fr. p.p.	
Ile	97 7 T-11294	1,101,5	Angle and dist. from off. p.p.	
1mp	T-11295	410/15	Angle and dist. from off. p.p.	
\mathbf{L}^{og}	T-11035	h1053	Angle and dist. from field p.p.	
Maa	T-1129/ ₁	եւ10կ5	Angle and dist. from off. p.p.	
Mo	T-1.1294	1,101,5	Angle and dist. from off. p.p.	
Pel	T-11294	$h100f^{\dagger}$	Off. p.p.	•
Pot	T=1129l ₄	h10h5	Angle and dist. from off. p.p.	
Pry	T-11035	41053	Radial plot	
Rek	/ 11294	ել10կ5	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/ ₄	41045	Angle and dist. from field p.p.	
Sis	T-11294	41004	Angle and dist. from off. p.p.	
Sop	T-11.294	11001	Angle and dist. from off. p.p.	
Sus	T-11295	41045	Off. p.p.	
Tab	T-11035	41053	Angle and dist. from off. p.p.	
Too	T-1129/4	41004	Angle and dist. from off. p.p.	
Ump	T-11035	41053	Angle and dist. from field p.p.	
Val	T-11295	41045	Angle and dist. from off. p.p.	
Ver	T-11294	41045	Angle and dist. from off. p.p.	

) N.

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 Sukkvan 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 FA-1455 (covered by manuscripts T-11494, T- 11495, and T-11499) is in Hetta Inlet north of junction with boat sheet FA-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 overhanging trees along the shoreline, some flifficulty was experienced in interpreting features.

3. HORIZONTAL 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*
Eve*	Era#	Hex	Lax
Pod*	Ice	Ga.s*	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, Oat 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	5 4 0-75
FOG 1908,1954	T-9435	54-0-73
LIME 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 overheap 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 unsually 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. LANDMARKS AND AIDS:

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

10. BOUNDARIES, MONUMENTS, AND LINES:

Not investigated.

11. OTHER CONTROL:

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:

Mar	T-	9903

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	Ga1	42
Cod	183	How	42
Don	183	Ivy	42
Ear	183	JiĎ	42
Era *1	184	Key	· 75
Fox	183	Kim	42
Gin	183	Low	42
Oat 1954(Reco	overed) 182	Mag	42
Pie	41002	Max	74
Ply #1	54 -0- 181	Ned	73
Roy	182	Nut	42
Sal *	1 82	Oak	72
Try *	182	Oil .	42
Van *	182	Pal	42
War ≠	182	Rat	42
Yet ≠	41002	Sip	42
		Tan	42
* Located ala	so by sextant	Val	73
್ಷಕ್ಕ		Vet	42
I Located ala	so by trian-	Wig	73
gulation。		Yak	42 '
	/	Zig	74

Map T-11035

Map T-11293

Station	Photo No.	Map X-11200		
		Station	Photo No.	
Ida	54-0-280			
Nig	280	Leg	54-0-7 2	
Out .	279	Pot 1954(Recov	ered) 72	
Pet -	279	Quo	72	
Quo (Marked)	279 .	Rag	72	
Rev	279	Sam	72	
Sis	279	Toy	72	
Tan	279			
Use	279			

Map T-11495

Map T-11495 (Cont.)

		map 1	-TT432 (COUC.)		
Ste	ation	Photo No.		Station	Photo No.
Alg	5	54-0-216	·	Pin	54-0-217
Art		216	1		
Amp		216		Pup	215
Bun	,	216	•	Rag	217
Bus				Rat	216
		216		Rig	215
But		216	,	Rio	217
Cab		215		Sal	215
Cat		216		Sol	228
Cop	,	216		Sop	216
Dog	:	216		Sop Mars	
Dot		215		Tax	215
Duo		216	F	Tub	216
Eat				Val	217
		228	•	Vet	215
Ego		216		Wag	. 215
Pro		216	,	War	217
Era		216		Was	216
Fez		216	•	Yem	216
Fin	•	228			
Fry		216	•	Yes	216
Gad		217		2oo ¯	216
Gin					
		216			
Gum		216		•	
Hoe		216		Map	T-11295
Hop		217			
Hut		216		Station	Photo No.
ïce		216)	20001011	111000 1108
Irk		216		e.e. A	E4 0 000
lvy		217		Add	54-0-282
Jar		217		Art	282
Job	•			Bag	282
		215		Воъ	282
Jut	-	216	•	Cab	282
Ked		217		Cob1954 (F	Rec.) 282
<u>Kin</u>	-	215		Cry	282
Lad		214	/	Day	282
Leo		217		Dig1954 (F	
Lug		217		Dr. Dr. L. Dr. L.	(90•) LOL
Low		216	* 2	Dip	282
Mag		A	•	Ear	282
Man				Egg	281
		217	•	Fix	282
Mop		217	•	Gal (Marke	ed) 281
Mug		216		Her	281
Ned		215	••	Jay	280
Nip		216		Kim	280
Now	(Marked)	217		Leo	280
Nut	•	217			
Oak		216		Mop	280
044		215		Sam 1954 (
Ohm				Marked	
		217	•	Val	282
011		217		Wag	282
Pet		216			282
		220		162	ZDZ
		220		Yes 2oo	282

Station	Photo No.
Alp	54-0-76
Bob	76
Covi	76
Day	76
Eat	76
Fig *	77
Fly	7 6
Gag	76
Hat	7 6
Hex =	76
Irk	76
Ioe *	76
gop.	76
Ked	76
Key	187
Lay	76
Lug	187
Mal	. 76
уов	186
Nat	7 6
Nip	186
Oak	186
01a	7 6
Pad /	186
Rev	186
Sol /	186
Tub	186
Use	186
Wed	/ 186
Wag &	7 6
Yam *	76
Zoo	76

* Located also by triangulation.

Map T-11498

Station	Photo No.
Ado Bob Cow End Fat Gas Hex Ida Joy Set Tom Use Van	Photo No. 54-0-227 227 227 78 79 228 228 227 227 227 227 228 227
Who Yak Zig	227 227 227

Station	Photo No.
Ace Ask Arm Bag Bib Box Cab Cod Cut Day Dip (Marked) Don Dot Ebb Eva Fog Fun Gus How Jug Mar *	54-0-228 78 78 78 228 78 228 78 228 228 79 78 228 79 78 78 228 79 78 78 78 78
Yum Zoa	78 7 8

* Located also by triangulation.

Map T-11501

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

Map T-11494

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

Itom 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, CDR., USC&GS

Approved and forwarded:

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

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 - RADI AL 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



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 plet, 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 Carto. Photo. Aid

E. L. Williams

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-9503, 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 $8\frac{1}{4}$ 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 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 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.

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. SUPFLEMENTAL 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 5	CLUMF, 1907-25 NEW R.M. 1, 1908 MAB, 1918 HAS, 1918 ATA, 1918	Sub Pt. Sub Ft. Sub Ft. 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 COFFER 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 Pt. None
25 26 27 28 29	MELLOW HOCK, 1908 GHEEN 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.

132 20 56 07.30"			, v. 1, c 0, v. 1,		54,26,15"
	O 54.0-27 6	O 84-0-219	0 84.0.230	0 54-0-281 T-11295 0 54-0-283 0 41060 0 54-0-283 0 41060 0 54-0-284 0 41061 T-11298 0 54-0-285-14039 0 41062	
30'	4	, <u>1</u>	■	O 41000 O 41000 O 411000 O)
O 41049 08 132 30'	озот О	Онюгі	046 046 046	14	
61	54-0-76 O 59-0-64	041048 54-0-183 () 041047 T-9902	5	26-019 26-019 25 25 7-11294 041005 041005 041007 17-139 04000 041007	
13.6	25.02 5.05.02 5.05.02 7.002 7.002 7.002	0 C 3+0.42	23 0 65.0-13	58 0 \$\text{A}\$ \$\text{\$0 \text{ A}\$}\$ \$\$0 \te	

0 40954

LAYOUT SKETCH
PH-IIT
PH-IIT
SURVEYS NOS T-9439, T-9903, T-11293 to T-11298 inclusive
O NINE LENS PHOTOGRAPHS
SINGLE LENS PHOTOGRAPHS
CONTROL STATIONS (identified)
CONTROL STATIONS (identified)
CONTROL STATIONS (identified)

FÖRM **164** (4-23-54)

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY CONTROL RECORD

SCALE OF MAP 1:10,000 SCALE FACTOR MAP T. 11035 PROJECT NO. 6117

	SOURCE OF INFORMATION (INDEX)	DATUM	LATÍTUDE C LONGITUDE	LATITUDE OR U-COORDINATE LONGITUDE OR x-COORDINATE 0	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS #P FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTRANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	'- DATUM NCE ROJECTION LINE TERS (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
	163	N. A.	托	725. LL 40	 		350.2	(1505.2)	
UP, 1918	p. 466	1927	132				521.5	(543.3)	
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1 FT.= 3048006 METER COMPUTED BY. F. J. T.	Tarcza	P Q	DATE 18 DE	18 December 1953	снескер вт. А. Queen	due en	a	ATE 22 De	coms.pc.57843 DATE 22 December 1953

COMPILATION REPORT T-11035 Project 6117

Field Inspection Report:

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

Photogrammetric Plot Report:

In addition to the attached report, refer to Photogrammetric Plot Report for Surveys T-9903, T-11035, T-11294, T-11295, T-11297 and T-11298, dated 19 February 1954, which is part of the Descriptive Report for Survey T-9903.

31. DELINEATION

This manuscript was delineated by graphic methods.

The west shoreline of Keete Inlet was delineated from photograph 45386, scale 1:20,000, by use of the Vertical projector.

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

34. CONTOURS AND DRAINAGE

Contours: Inapplicable.

Drainage: No comment.

35. SHORELINE AND ALONGSHORE DETAILS

There was no field inspection in the area at the time the delineation of the shoreline was done. Upon receipt of field inspection, the boat sheets and the descriptions of the photo-hydro signals, appropriate corrections were applied, particularly at places where photo-hydro signals were located.

Shadows obscured some parts of the shoreline and where no positive image was visible on any photograph, the shoreline was shown with a broken line.

The low water line was office interpreted from the photographs which were at a low stage of tide.

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

Form 524 has been submitted for station QUO, 1955.

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

39. JUNCTIONS

Junction has been made with survey T-11295 to the south. There is no junction to be made with surveys T-9903 to the west, T-11516 (Project 6148) to the north and T-11519 (Project 6148) to the east.

40. HORIZONTAL AND VERTICAL ACCURACY

See Photogrammetric Plot Report.

41 - 45. Inapplicable.

46. COMPARISON WITH EXISTING MAPS

The information shown on the USCS Craig Quadrangle, scale 1:250,000, edition of 1952, is based on C&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.

Respectfully submitted

15 February 1956

Ruth M. Whitson Carto. Photo. Aid

. Approved and Forwarded

E. H. Kirsen, Comdr. C&GS Baltimore District Officer

August 6, 1970

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-117 (Alaska)

T-11035

Keete Inlet

Klakas Inlet

Prince of Wales Island

Approved by:

A. Joseph Wraight Chief Geographer

Prepared by:

Frank W. Pickett Cartographic Technician

T-11035

49. NOTES FOR HYDROGRAPHER

Recoverable topographic station QUO, 1955 has been located on this manuscript. The following are the photo-hydro signals located on this manuscript:

Keete Inlet, Survey H-8132(1954)

ARK	HI	RIP*
COL	LOG	TAB
GAR	PRY	UMP

*RIP - Position on the blackline impression does not agree with the angle and distance recorded on field photo 41053.

Klakas Inlet, Survey PA-1155

IDA

NIG

OUT

PET

REV - 14.2 mm S of boat sheet position. May have been relocated by the hydrographic party.

SIS - 100 mm N of boat sheet position.

TAN

USE - 0.6 mm NW of boat sheet position.

50-

PHOTOGRAMMETRIC OFFICE REVIEW

T. //035

1. Projection and grids2. Title3. Manuscript numbers4. Manuscript size
CONTROL STATIONS de Chesification label
5. Horizontal control stations of third-order or higher accuracy 6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations)
9-Plotting of sextant fixes10. Photogrammetric plot report 11. Detail points
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline13. Low-water line14. Rocks, shoals, etc15- Bridges16. Aids
to navigation 17. Lendmerks 18. Other alongshore physical features 19. Other along
shore cultural features
310-3 Cumulai-192(u.b)
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
37. Descriptive Report 38. Field inspection photographs 39. Forms
40. Supervisor, Review Section of Su
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.
Compiler Supervisor
43. Remarks: M-2661-12

Review Report T-11035 Shoreline Mapping

August 1970

61. General Statement

Field inspection photograph 54-0-229 (hydro signals only) was used during final review.

62. Comparison with Registered Topographic Surveys

Comparison was made with topographic surveys 2331, dated 1897, 1:80,000 scale, and 3717, dated 1918, 1:10,000 scale. These surveys are superseded for charting by T-11035.

63. Comparison with Maps of Other Agencies

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

64. Comparison with Contemporary Hydrographic Surveys

Survey T-11035 was used as a base for new hydrography. Hydrographic surveys 8132, dated 1954 and 8229, dated 1955, 1:10,000 scale was used for comparison. The agreement is good.

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 po Chief, Photogrammetry Division