Form 504

U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric) Field No. 6117 Office No. T-11495
LOCALITY
StateAlaska
General locality Hetta Inlet
Locality Dell Island to Portage Bay
1954-1955
CHIEF OF PARTY J. C. Partington, Chief of Field Party E. H. Kirsch, Baltimore District Officer
LIBRARY & ARCHIVES
DATE

сомм- вс 61300

DESCRIPTIVE REPORT - DATA RECORD

T - 11495

Project No. (II): 6117

Quadrangle Name (IV):

Field Office (II): USC&GS Ship PATTON

Office:

Chief of Party:

J. C. Partington

Photogrammetric Office (III): Baltimore, Maryland

Officer-in-Charge: E. H. Kirsch

Instructions dated (II) (III):

Field:

Copy filed in Division of

Photogrammetry (IV)

Method of Compilation (III):

Graphic

Manuscript Scale (III):

1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III):

1,000

Date received in Washington Office (IV): 3-28-56 Date reported to Nautical Chart Branch (IV): 4-2-56

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

Mean sea level except as follows: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III): SIMON, 1955

Lat.: 55° 12 ° 01.717" (53.1 m)

Long.: 132° 37' 11.719" (207.3m)

XBOKEONBA

Unadjusted

Plane Coordinates (IV):

State: Alaska

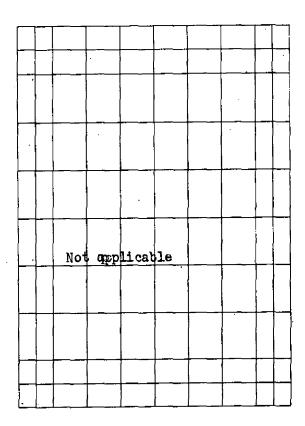
Zone:

Y=

X=

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

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



Areas contoured by various personnel
(Show name within area)
(II) (III)

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): W. C. Russell

F. J. Tucker

Date: 1955 field season

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): 1954, date of photography field inspection

Projection and Grids ruled by (IV):

A. Riley

Date: 10/22/54

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

Date: 10/26/54

Control plotted by (III):

None

Date:

Control checked by (III):

Date:

E. L. Williams

3/8/55 Date:

Planimetry

Stereoscopic Instrument compilation (III):

Contours

Date:

Date:

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

3/31/55 Date:

Photogrammetric Office Review by (III): R. Glaser

Date:

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

Date:

COMM-DC- 57842

DESCRIPTIVE REPORT - DATA RECORD

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

PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide
45413	6/4/54	1128	1:20,000	0.8' below MLLW
54-0-191 & 192	' n'	1602	1:10,000	11.0' above MLLW
54-0-214 thru 217	11	1620	11 .	11.21 " "

From predicted tables

Diurnal

Ratio of Range Range Range 7 • 7 9 • 9 1 • 3 10 • 3 12 • 9

Reference Station: Sitka

Subordinate Station: Copper Harbor, Hetta Inlet

Subordinate Station:

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

Date: JONE 1970

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Date:

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 3

Shoreline (More than 200 meters to opposite shore) (III): 15.5

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): none

Recovered: Recovered: Identified:

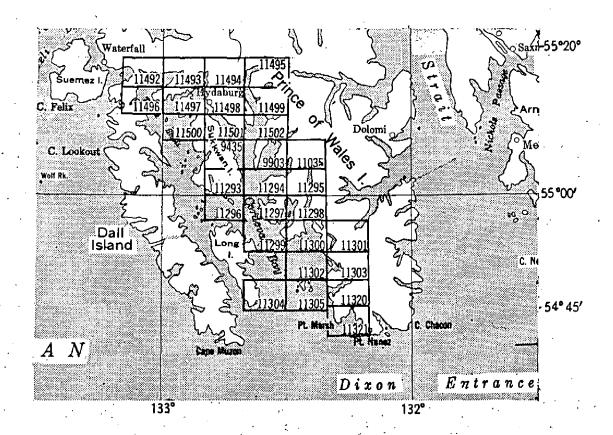
Number of BMs searched for (II): None
Number of Recoverable Photo Stations established (III): 1

Number of Temporary Photo Hydro Stations established (III): 68

Identified:

Remarks:

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



	- 11304	13 P. S.	1.2	*	12	
OFFICIAL MILEAGE FOR COST ACCOUNTS	11305		37	*	37	
AREA SQ. LIN.MI.	11.320		24		24	
SHEET NO. MILES SHORELINE	11,321		20		20	
9435 13 13 13	(/ 1] 492)	1	:24		24	
9903 21 21 21 21	11493		12"		12	
, 11035	11.494		2		2	
11293 20 20	11495		16 ·		16	
11294 15 15 M	11496		.17 .	•	17	
- 11295 13. 表 [[本] [[本] [[本] [[本] [[本] [[本] [[本] [[: 11497		26		. 56	
11296	11498	` <i>,</i> *	8		S	
21 21 21	11499		11	•	11	
11298	1. 11.500		2? .		27	
11.399	11501		17		17	
- 11 300 - 1 11 1 31 1 1 1 1 1 31 1 1 1 1 1 1 1	11502	7	15 "		15	
11301 7 7 M. (2) 7 1 3	$(x_1, \dots, x_n) \in \mathcal{F}_n$. •
, 11302 - 18,5 - 18,5 - 18 - 15,5		DOMESTICS.	ະດວິ	6.7.5	503	
11303		POTALS	503		503	
			<i>.</i> .			

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 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 FA-1355 (covered by mamuscripts T-11498, T-11499, and T- 11502) is in Hetta Inlet and extends northerly from junction with boat sheet FA-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, PIE 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 Mifficulty was experienced in interpreting features.

3. HURIZONTAL 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≠	Hox	Lax*
Pod*	Ioe	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 4 075
FOG 1908,1954	T-9435	54-0-7 3
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 -0-1 86
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. 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:

M	аp	T-	9	90	3

Map T-9435

Station	Photo No.	Station	Photo No.
Abe *1	54-0-182	Ace	54-0-74
Add	183	Cut	42
Bib \	182	Dip	74
Big	. 183	Ego	42
Car	183	Gã1	42
Cod	183	How .	42
Don	183	Ι ν Υ	42
Ear	183	Jib	42
Era #1	184	Key	75
Fox .	183	Kim	42
Gin	183	Low	42
	overed) 182	Mag	42
Pie	41002	Max	74
Ply *1	54-0-181	Ned	73
Roy	182	Nut	42
Sal *	182	Oak	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
	so by trian-	Wig	73
gulation.	<u> </u>	Yak	42
	/	Zig	74

Map T-11035

Man T-11293

Station	Photo No.	map 1-11235
70401011	11000 1700	Station Photo No.
Ida	54-0- 280	
Nig	280	Lag 54-0-72
Out	279	Pot 1954(Recovered) 72
Pet	279	Quo 72
Quo (Marked)	2 7 9	Rag 72
Rev .	279	Sem 72
Sis	279	Toy 72
Tan	279	
Use	279	

Map T-11495

Map T-11495 (Cont.)

		:			·	
Sta	tion	Photo No.	-		Station	Photo No.
				-	DUAUTOIL	111000 1109.
Alr	١	54-0-216			_ •	
					Pin	54-0-217
Art		216		• 1	Pup	. 215
Amp		216	••		Rag	217
Bum	l	216			Rat	216
Bus		216				
Bu t		216			Rig	215
Cab					Rio	217
		215	•		Sal	215
Cat		216			Sol	228
Cop		. 216			Sop	216
Dog		216		•	Poh	
Dot		215			Tex	215
					Tub	216
Duo		216			Val	217
Eat		228			Vet	215
Ego		216				
Emo		216		•	Wag	215
					War	217
Era		216			Was	216
Fez	•	216			Yam	216
Fin		228				216
Fry		216			Yes	
Gad					Zoo	216
		217				
Gin		216				
Gum		216				
Hoe		216			Man.	m 1100E
Hop		217			мар	T-11295 -
2000						-
Livada		. 01.0				
Hut		216)		Station	Photo No.
Ice		216	١		Station	Photo No.
Ice Irk		216	١			
Ice Irk		216 216	١	•	Add	54-0-282
Ice Irk Ivy		216 216 217	,	•	Add Art	54-0-282 282
Ice Irk Ivy Jar		216 216 217 217			Add Art Bag	54-0-282 282 282
Ice Irk Ivy Jar Job		216 216 217 217 215		•	Add Art Bag	54-0-282 282 282
Ice Irk Ivy Jar Job Jut		216 216 217 217 215 216		•	Add Art Bag Bob	54-0-282 282 282 282
Ice Irk Ivy Jar Job		216 216 217 217 215 216		•	Add Art Bag Bob Cab	54-0-282 282 282 282 282 282
Ice Irk Ivy Jar Job Jut Ked		216 216 217 217 215 216 217		•	Add Art Bag Bob Cab Cob1954 (R	54-0-282 282 282 282 282 282 282
Ice Irk Ivy Jar Job Jut Ked Kin		216 216 217 217 215 216 217 215		•	Add Art Bag Bob Cab Cobl954 (R	54-0-282 282 282 282 282 282 282 282
Ice Irk Ivy Jar Job Jut Ked Kin Lad		216 216 217 217 215 216 217 215 214		•	Add Art Bag Bob Cab Cobl954 (R Cry Day	54-0-282 282 282 282 282 202 260.) 282 282 282
Ice Irk Ivy Jar Job Jut Ked Kin Lad		216 216 217 217 215 216 217 215 214 217		•	Add Art Bag Bob Cab Cobl954 (R Cry Day Dig1954 (R	54-0-282 282 282 282 282 202 260.) 282 282 282
Ice Irk Ivy Jar Job Jut Ked Kin Lad Leo Lug		216 216 217 217 215 216 217 215 214 217 217		•	Add Art Bag Bob Cab Cobl954 (R Cry Day Dig1954 (R	54-0-282 282 282 282 282 282 282 282 282 282
Ice Irk Ivy Jar Job Jut Ked Kin Lad Leo Lug Low		216 216 217 217 215 216 217 215 214 217		•	Add Art Bag Bob Cab Cobl954 (R Cry Day Dig1954 (R Dip	54-0-282 282 282 282 282 282 282 282 282 282
Ice Irk Ivy Jar Job Jut Ked Kin Lad Leo Lug Low		216 217 217 217 215 216 217 215 214 217 217		•	Add Art Bag Bob Cab Cobl954 (R Cry Day Dig1954 (R Dip Ear	54-0-282 282 282 282 282 282 282 282 282 282
Ice Irk Ivy Jar Job Jut Ked Kin Lad Leo Lug Low Mag		216 216 217 217 215 216 217 215 214 217 217 216 215			Add Art Bag Bob Cab Cobl954 (R Cry Day Dig1954 (R Dip Ear Egg	54-0-282 282 282 282 282 282 282 282 282 282
Ice Irk Ivy Jar Job Jut Ked Kin Lad Leo Lug Low Mag Man		216 216 217 217 215 216 217 215 214 217 217 216 215 215		•	Add Art Bag Bob Cab Cobl954 (R Cry Day Dig1954 (R Dip Ear Egg Fix	54-0-282 282 282 282 282 282 282 282 282 282
Ice Irk Ivy Jar Job Ked Kin Lad Leo Lug Mag Man Mop		216 217 217 215 216 217 215 214 217 217 216 215 217		•	Add Art Bag Bob Cab Cobl954 (R Cry Day Dig1954 (R Dip Ear Egg	54-0-282 282 282 282 282 282 282 282 282 282
Ice Irk Ivy Jar Job Ked Kin Leo Lug Low Man Mop Mug		216 217 217 215 216 217 215 214 217 217 216 215 217 217			Add Art Bag Bob Cab Cobl954 (R Cry Day Dig1954 (R Dip Ear Egg Fix Gal (Marke	54-0-282 282 282 282 282 282 282 282 282 282
Ice Irk Ivy Jar Job Ked Kin Lad Leo Lug Mag Man Mop		216 217 217 215 216 217 215 214 217 217 216 215 217		•	Add Art Bag Bob Cab Cobl954 (R Cry Day Digl954 (R Dip Ear Egg Fix Gal (Marke	54-0-282 282 282 282 282 282 282 282 282 282
Ice Irk Ivy Jar Job Jut Ked Kin Lad Low Man Mon Mug Ned		216 217 217 217 215 216 217 215 214 217 217 216 217 217 216 217		•	Add Art Bag Bob Cab Cobl954 (R Cry Day Dig1954 (R Dip Ear Egg Fix Gal (Market Her Jay	54-0-282 282 282 282 282 282 282 282 282 282
Ice Irk Ivy Jar Job Jut Ked Kin Leo Low Man Mon Mug Ned Nip		216 217 217 215 216 217 215 214 217 217 216 217 217 216 217 216 215 217			Add Art Bag Bob Cab Cobl954 (R Cry Day Digl954 (R Dip Ear Egg Fix Gal (Marke Her Jay Kim	54-0-282 282 282 282 282 282 282 282 282 282
Ice Irk Ivy Jar Job Jut Ked Kin Lad Leo Low Man Mon Mug Nip Nov		216 217 217 215 216 217 215 214 217 217 216 215 217 216 215 216 215			Add Art Bag Bob Cab Cobl954 (R Cry Day Dig1954 (R Dip Ear Egg Fix Gal (Marke Her Jay Kim Leo	54-0-282 282 282 282 282 282 282 282 282 282
Ice Irk Jar Job Jut Ked Kin Leo Low Man Mop Mugd Nip Nov Nut	(Marked)	216 217 217 215 216 217 215 214 217 216 215 217 216 215 217 216 217 216 217			Add Art Bag Bob Cab Cobl954 (R Cry Day Digl954 (R Dip Ear Egg Fix Gal (Marke Her Jay Kim	54-0-282 282 282 282 282 282 282 282 282 282
Ice Irk Jar Job Jut Ked Kin Leo Low Man Mop Mugd Nip Nov Nut Oak	(Marked)	216 217 217 215 216 217 215 214 217 216 215 217 216 215 217 216 217 217 216 217 217			Add Art Bag Bob Cab Cobl954 (R Cry Day Dig1954 (R Dip Ear EEG Fix Gal (Marke Her Jay Kim Leo Mop	54-0-282 282 282 282 282 282 282 282 282 282
Ice Irk Jar Job Jut Ked Kin Leo Low Man Mop Nip Nov Nut Odd	(Marked)	216 217 217 215 216 217 215 214 217 216 215 217 216 215 217 216 217 216 217			Add Art Bag Bob Cab Cobl954 (R Cry Day Dig1954 (R Dip Ear Egg Fix Gal (Marke Her Jay Kim Leo Mop Sam 1954 (54-0-282 282 282 282 282 282 282 282
Ice Irk Jar Job Jut Ked Kin Leo Low Man Mop Nip Nov Nut Odd	(Marked)	216 217 217 215 216 217 215 214 217 216 215 217 216 215 217 216 217 216 217 216 217 216 215			Add Art Bag Bob Cab Cobl954 (R Cry Day Dig1954 (R Dip Ear Egg Fix Gal (Marke Her Jay Kim Leo Mop Sam 1954 (Marked	54-0-282 282 282 282 282 282 282 282 282 282
Ice Irk Ivy Jar Job Jut Ked Kin Lad Low Man Mop Nov Nut Odd Ohm	(Marked)	216 217 217 217 215 216 217 215 214 217 216 215 217 216 217 216 217 216 217 216 217 216 217			Add Art Bag Bob Cab Cob1954 (R Cry Day Dig1954 (R Dip Ear Egg Fix Gal (Marke Her Jay Kim Leo Mop Sam 1954 (Warked Val	54-0-282 282 282 282 282 282 282 282 282 282
Ice Irk Ivy Jar Jut Ked Kin Lad Lag Low Man Mop Nip Now Odd Oil	(Marked)	216 217 217 215 216 217 215 214 217 216 215 217 216 217 216 217 216 217 216 217 216 217 217			Add Art Bag Bob Cab Cobl954 (R Cry Day Digl954 (R Dip Ear Egg Fix Gal (Marke Her Jay Kim Leo Mop Sam 1954 (Warked Val Wag	54-0-282 282 282 282 282 282 282 282 282 282
Ice Irk Ivy Jar Job Jut Ked Kin Lad Low Man Mop Nov Nut Odd Ohm	(Marked)	216 217 217 217 215 216 217 215 214 217 216 215 217 216 217 216 217 216 217 216 217 216 217			Add Art Bag Bob Cab Cob1954 (R Cry Day Dig1954 (R Dip Ear Egg Fix Gal (Marke Her Jay Kim Leo Mop Sam 1954 (Warked Val	54-0-282 282 282 282 282 282 282 282 282 282
Ice Irk Ivy Jar Jut Ked Kin Lad Lag Low Man Mop Nip Now Odd Oil	(Marked)	216 217 217 215 216 217 215 214 217 216 215 217 216 217 216 217 216 217 216 217 216 217 217			Add Art Bag Bob Cab Cobl954 (R Cry Day Digl954 (R Dip Ear Egg Fix Gal (Marke Her Jay Kim Leo Mop Sam 1954 (Warked Val Wag	54-0-282 282 282 282 282 282 282 282 282 282

Station	Fhoto No.
Alp	54-0-76
Воъ	76
Cow	· 76
Day	· 76
Eat	7 6
Fig *	77
Fly	76
Gag	76
Hat	76
Hex *	. 76
Irk	76
Ice ∓	76
Top	76
Ked	76
Key	187
Lay	7 6
Lug	187
Mal	76
Моө	186
Nat	7 6 -
Nip	186
0a <u>k</u>	1 86
01a ,)	7 6
Pad /	186
Rev	186
Sol /	186
Tub	1 86
Use	186
Wed	/ 186
Wag &	76
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	54-0-227 227 227 78 79 228 228 227 227 227 227 228 227
	··
7 1 E	261

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

* Located also by triangulation.

Map T-11501

Station	Photo No.
Hod	54-0-76
Jap	76
Ken	60
Mid .	59
Nod	60
Ora	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 Foint. No specific reason was given for this name.

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 2\frac{1}{2}
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:

Itcm

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.

- 14. منطقه Respectfully submitted,

Main C. Russell

William C. Russell, CDR., USC&GS

Approved and forwarded:

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

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

21. AREA COVERED

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

22. METHOD - RADIAL PLOT

Map Manuscripts:

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

All control was plotted using the meter bar and beam compass.

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

Photographs:

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

Templets:

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

Closure and adjustment to control:

All control was transferred graphically to the 1:20,000 scale base sheets, the plot was begun at the southwestern end of the two flights where a fix could be obtained on 45392. The northern flight was extended northeastward to control station TIP, 1924. The southern flight was extended eastward holding control stations FLOAT, 1908-14, and ROUND, 1908. At the eastern end of the flight in surveys T-11499 and T-11502 the plot was adjusted to pass points established in a previous plot. The previous plot was a long bridge between control stations in Cordova Bay and identified control in Clarence Strait on the east side of Prince of Wales Island. At the northern end of Hetta Inlet in T-11495 there was very little side lap between the two flights. It was not possible to hold Sub Pt. TIP, 1924, and the pass points from the previous plot on the southern flight and at the same time get good intersections in this area. After considerable adjustment of templets it was decided to hold slightly off TIP, 1924, in order to get a more rigid plot in the northern tip of HETTA INLET.

Transfer of points:

All pass points which were common on both the nine lens and single lens, 1:10,000 scale, photographs were transferred to 1:10,000 scale base sheets, using small transparent templets. A templet was made for each pass point drawing radial lines to four grid intersections on the 1:20,000 scale base sheet. The position of the point was established on the 1:10,000 scale base sheet by holding the same grid intersection and pricking the position of the point through to the base sheet. In survey T-11496, in the area where there was no coverage with single lens photographs, the positions were transferred in similar manner to the map manuscripts. These points are to be used for delineation of shoreline, using the 1:20,000 scale nine lens photographs in the vertical projector.

23. ADEQUACY OF CONTROL

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

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

24. SUPPLEMENTAL DATA

No supplemental data was used in this radial plot.

25. PHOTOGRAPHY

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

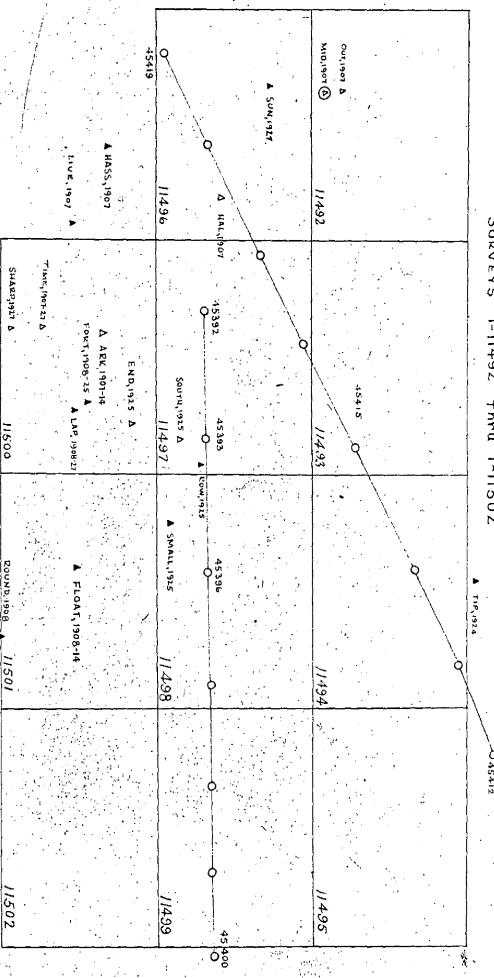
Respectfully submitted 23 March 1955

Frank J. Carcza *O* Supervisory Cartographer i

do.

LAYOUT Project PH- 117 SKETCH

SURVEYS T-11492 +hru T-11502



Control Stations Stations (identified) photographs

-2-

PHOTOGRAMMETRIC PLOT REPORT
Project Ph-117
Surveys Nos. T-11494, T-11495,
T-11498, T-11499,
T-11502 & T-9903

21. AREA COVERED

This radial plot report covers the entire area of Surveys Nos. T-11495, T-11499, T-11502; the eastern portions of T-11494 and T-11498, and part of T-9903. These are all shoreline surveys located along Hetta Inlet, north of Cordova Bay, Prince of Wales Island, Alaska.

22. METHOD - RADIAL PLOT

Map Manuscripts:

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

The position 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.

Photographs:

Single lens photographs taken 4 June 1954, with the "O" camera at a scale of 1:27,500 and ratioed to a scale of 1:10,000 were used in this plot.

The twenty (20) single lens photographs used are numbered as follows:

54-0-75 through 79 54-0-183 54-0-185 thru 188 54-0-191 and 192 54-0-214 through 218 54-0-227 through 229

Templets:

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

Closure and Adjustment of control:

Vinylite base sheets were prepared in this office. All control was transferred to the base sheets from the manuscripts.

Pass points already established on manuscripts T-9435 and T-9903 from previous plots were also transferred to the base sheets. Additional pass points, established in a 1:20,000 scale plot with nine-lens photographs, were transferred graphically to the 1:10,000 base sheets. This was done by means of transparent templets made for each point to be transferred. Four rays were drawn radially from the point through grid intersections on the 1:20,000 scale base sheets. The templet was oriented over the corresponding grid intersection on the 1:10,000 base sheets and the point pricked through to the base sheet.

-2-

22. METHOD - RADIAL PLOT (CONT'D)

Closure and Adjustment of Control: (cont'd)

For additional information about this supplementary control see the photogrammetric plot report for the 1:20,000 radial plot of Surveys T-11492 thru T-11502. The report for that plot is made a part of Descriptive Report for Surveys T-11492 thru T-11494, T-11496 thru T-11498 and T-11500 thru T-11502.

The plot was laid starting with the templets for photograph 54-0-183, and proceeding northward to photograph 54-0-188. Then the templets for photographs 54-0-75 through 54-0-79 were laid. It was found that the templet for photograph 54-0-184, could not be held in this plot because of excessive tilt. With this templet left out it was possible to lay these two flights in a tight plot holding the control; the pass points established in previous plots; and the supplementary control established in the 1:20,000 plot. Then flights 54-0-227 through 229 and 54-0-214 through 54-0-218, which depended almost wholly for control on the supplementary points established in the 1:20,000 plot were adjusted. Lastly, the templets for photographs 54-0-191 and 192 were fitted into the plot.

The following conditions greatly affected this plots (1)
Between photographs 54-0-77 and 78 there was a definite break in the plot
because of insufficient overlap along the flight line. (2) A break, also,
occurred on the east side where photographs 189 and 190 were left out of
the plot, because no shore line was on these photographs which showed a
mountainous and show-covered area. These were omitted because in tilted
photographs any points of extreme elevation hinder the development of a
plot rather than aid it. (4) Photographs 193, 219, 230, 231 and 232
were not used in the plot because little or no shoreline appeared on them
and they also would not materially strengthen the plot.

hed Breaks in the flight lines and photographs omitted from the plot lead to the creation of many two-radial intersections. In most cases this could not be avoided because of poor overlap on the photographs. However, most of the photographs were fixed by supplementary control points from the 1:20,000 plot.

Transfer of Points:

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

23. ADEQUACY OF CONTROL

As the plot was started it was necessary to hold to pass points established in previous plots of the area. Of the three control points in the area it was possible to hold only ERETT, 1908. CEDAR 2, 1908 was not held in any plots of the area and in this plot fell 18 meters north of the true position. COPPER 2, 1908 was very difficult to identify and was not held where identification was attempted.

23. ADEQUACY OF CONTROL (cont'd)

As the plot was extended northward the only control available was those points established in a previous plot of the area at a scale of 1:20,000.

Positions in the northern part of Hetta Inlet are probably weak and may be in error 1 mm, or more, in geographic position.

24. SUPPLEMENTAL DATA

Supplementary control extablished in a 1:20,000 scale radial plot was used as control for this radial plot. Reference should be made to the 1:20,000 scale radial plot report for surveys in this area.

25. PHOTOGRAPHY

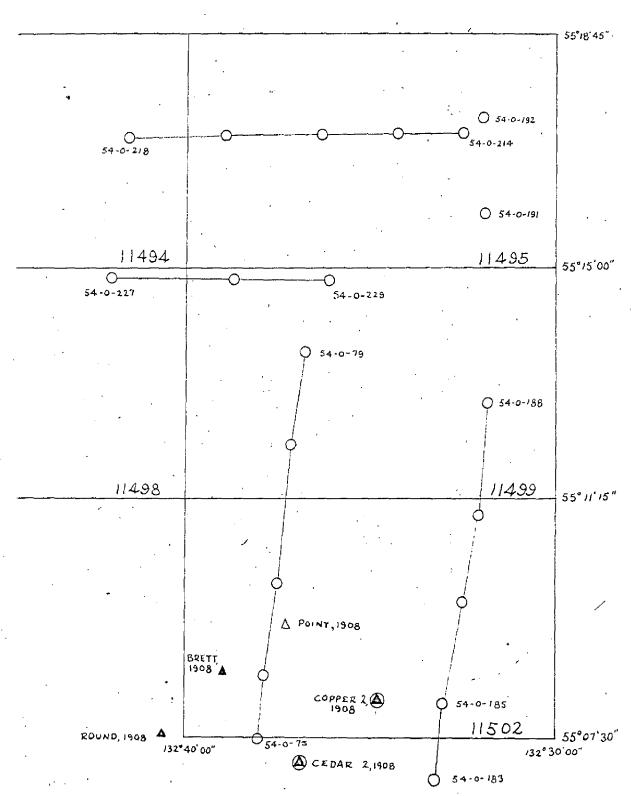
In certain areas the definition was very good, but in others, possible due to the process of enlarging the photographs, it was poor. The photograph coverage was inadequate in that breaks occurred in the flight lines because of insufficient overlap. This, was evident throughout photography in this area.

Photograph 54-0-184 was too badly tilted to be used in the radial plot.

Respectfully submitted 8 March 1955

E. L. Williams, Carto. Photo. Aid

LAY OUT SKETCH PROJECT PH - 117 SURVEYS-11494,11495, 11498,11499, \$ 11502



- O Single lens office photographs
- ▲ Control stations (identified)
- Δ Control stations (not identified)
- @ Control stations not held in plot

COMPILATION REPORT Project 6117 Survey T-11495

Field Inspection Report:

Refer to the Photogrammetric Field Inspection Report, Project 6117, Hetta Inlet and Sukkwan Strait, 1955, USC&CS Ship PATTON, J. 6. Partington commonding. (See descriptive report for survey 1-9903.)

Photogrammetric Plot Report:

1. Photogrammetric Plot Report for surveys T-11492 thru T-11502, which is a part of the Descriptive Report for survey T-11497.

2. Photogrammetric Plot Report for surveys T-11494, T-11495, T-11498, T-11499, T-11502 and T-9903, which is a part of the Descriptive Report for survey T-11502.

31. DELINEATION

This manuscript was delineated by graphic methods. In areas where the shoreline was obscured by shadows or relief displacement on the single lens photographs, nine-lens photograph 45413 (1:20,000 scale) was used in the vertical projector. Where the nine-lens photograph was also not satisfactory the shoreline was shown with a broken line.

32. CONTROL

Refer to the Photogrammetric Plot Report.

38. SUPPLEMENTAL DATA

A copy of boat sheet FA-1455 was available for purposes of comparison.

34. CONTOURS AND DRAINAGE

Contours: Not applicable. Drainage: No comment.

35. SHORELINE AND ALONGSHORE DETAILS

The delineation of the shoreline was based on office interpretation of the photographs. The stage of tide of the single lens photographs was computed to be extremely high. The low water features were delineated in the vertical projector from the nine-lens photographs which are at a low stage of tide.

Upon receipt of the boat sheet and the descriptions of the photohydro signals, the shoreline was corrected at several places. No other shoreline inspection was furnished.

36. OFFSHORE DETAILS

No rock elevations were transferred from the boat sheet. A pile SE of signal PIN shown on the boat sheet was not visible on the photographs.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

Form 524 has been submitted for station NOW, 1955.

Sixty-eight photo-hydro signals have been located on this manuscript. See paragraph 149.

39. JUNCTIONS

Junctions have been made with surveys T-11494 to the west and T-11499 to the south. There is no junction to be made with survey T-11508 (Project 6148) to the north and T-11510 (Project 6148) to the east.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Reports.

41 - 45. Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with the USOS Craig Quadrangle, scale 1:250,000, edition of 1952.

117. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 8147, scale 1:40,000, published August 1931, corrected to 10/8/54.

Items to be applied to nautical charts immediately: See Notice to Mariners No. 18, 1955, paragraph 1919.

Items to be carried forward:

 $\,$ No field information was furnished regarding the charted portage at the east end of Portage Bay.

Approved & Forwarded

E. H. Kirsch, Capt. C&GS Baltimore District Officer Respectfully submitted 17 February 1956

Ruth M. Whitson

Carto. Photo. Aid

August 17, 1970

GEOGRAPHIC NAMES FINAL NAME SHEET PH-117 (Alaska) T-11495

Beaver Creek

Dell Island

Gould Island

Gould Passage

Hetta Inlet

Portage Bay

Prince of Wales Island

Sulzer

Sulzer Passage

Approved by:

A. Voseph Wraight Chief Geographer

Prepared by

Frank W. Pickett Cartographic Technician

T-11494 and T-11495

49. NOTES FOR HYDROGRAPHER

Recoverable topographic station NOW, 1955 is located on manuscript T-11495.

The following are the photo-hydro signals located on these manuscripts:

T-11494

KEY - 0.7 mm S of boat sheet position. FEG TCY - 0.8 mm S of boat sheet position.

T-11495

ALP	FIN	LEO	RAG
ART	FRY	LUG	RAT
\mathbf{AMP}	GAD	LOW	RIG-0.8 mm SW
BUM	GIN-0.6 mm SW	MAG	RIO-0.6 mm S
BUS	GUM	MAN	SAL
BUT	HOE	MOP	SOL-0.9 mm NE
CAB	HOP	. MUG	SOP-1.0 mm SW
CAT	HUT	MNED	XAT
ЮP	ICE-1.4 mm S	NIP	TUB
DO G	IRK	nut	VAL
DOT	IVY	OAK	VET
DUO	JAR-1.9 mm W	ODD	WAG
EAT	JOB	OHM	WAR
EGO	JUT	OIL	Was
EMO	KED-1.2 mm NW	PET	YAM-D.4 mm W
ERA	KIN-1.0 mm SW	PIN	YES
FEZ	LAD-0.5 mm NW	PUP-0.8 mm N	E 200

The discrepancies at ICE, JAR, KIN and RIG appear to be caused by relief displacement not properly taken care of.

50 -

PHOTOGRAMMETRIC OFFICE REVIEW

T-11495

1. Projection and grids
CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy None 6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations)7. Photo hydro stations8_Bench marks
9. Plotting of sextent fixes10. Photogrammetric plot report11. Detail points
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline 13. Low-water line 14. Rocks, shoals, etc 15-Bridges 16. Aids
to-navigation 17. Landmarks 18. Other alongshore physical features 19. Other along
shore cultural features
PHYSICAL FEATURES
20. Water features 21. Natural ground cover 22 . Planetable contours 23. Sterooscop ic
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. Qublic land lines
MISCELLANEOUS
33. Geographic names 34. Junctions 35. Legibility of the manuscript 36. Biserepancy
o verlay 37. Descriptive Report 38. Field inspection photographs 39. Forms
40. R. Plaser Joseph Steinberg
Reviewer Supervisor, Review Section of Unit
41. Remarks (see attached sheet)
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43. Information not available.
Compiler Supervisor
42. Pamayka
43. Remarks: M-2661-12

Review Report T-11495 Shoreline Mapping

August 1970

61. General Statement

(Refer to Summary.) - page 6

62. Comparison with Registered Topographic Surveys

Comparison was made with survey 2788 (Topographic and Hydrographic), 1:20,000 scale, dated 1905. This survey is superseded for charting by T-11495.

63. Comparison with Maps of Other Agencies

Comparison was made with USGS Craig (B-2), Alaska, quadrangle, dated 1949, 1:63,360 scale. No significant discrepancies were found in the comparison.

64. Comparison with Contemporary Hydrographic Surveys

Survey T-11495 was used as a base for new hydrography. The contemporary hydrographic survey 8232 dated 1955, 1:10,000 scale was used for comparison. No significant changes were found in the comparison.

65. Comparison with Nautical Charts

Comparison was made with Chart 8147, 1:40,000 scale, 5th Edition, corrected to July 3, 1967. No differences of importance were found in the comparison.

66. Adequacy of Results and Future Surveys

(Refer to Summary, Map Accuracy.) - poge 6

Reviewed by,

Donald M. Brant

Approved by,

Chief, Photogrammetric Branch & Chief, Photogrammetry Division