# 11097

Diag. Cht. No. 8202-3.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

# DESCRIPTIVE REPORT

LIBRARY & ARCHIVES

ATE May 23, 1958

B-1870-1 (I)

#### DATA RECORD

T -11097

Project No. (II): Ph-88

Quadrangle Name (IV);

Field Office (II): SHIP LESTER JONES

Chief of Party: Ross A. Gilmore

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: Jack C. Sammons

Instructions dated (II) (III): 20 Mar. 1952 (CS-344)

Copy filed in Division of Photogrammetry (IV)

24 Dec. 1952

19 May 1953

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): inapplicable

Scale Factor (III): 1.000

Date received in Washington Office (IV):6-15-53

Date reported to Nautical Chart Branch (IV): 6-23-53

Applied to Chart No.

Date:

Date registered (IV): 20 June 1957

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

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): TAKU, 1929

Lat.: 58° 24° 15.644 (484.0m)

Long.: 134° 00' 35.532 (577.lm)

Adjusted CHARACTERESE

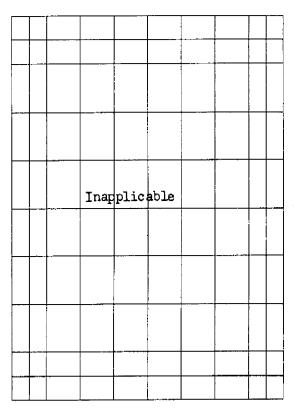
Plane Coordinates (IV):

State: Alaska (UTM) Zone: No. 8

Χ÷

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)

#### DATA RECORD

Field Inspection by (II): R. A. Gilmore

Date: 21 May to
12 July 1952

Planetable contouring by (II): None Date:

Completion Surveys by (II): None Date:

Mean High Water Location (III) (State date and method of location): 12 June 1952. Planetable - see par. No. 33 13 August 1953, Photographs.

Stereoscopic Instrument compilation (III):

Inapplicable

Projection and Grids ruled by (IV): J. Allen Date: 23 Jan. 1953

Projection and Grids checked by (IV): H. D. Wolfe Date: 27 Jan. 1953

Control plotted by (III): J. Steinberg Date: 26 March 1953

Control checked by (III): L. A. Senasack Date: 13 April 1953

Radial Plot or Stereoscopic Date: 1 May 1953

Control extension by (III): L. A. Senasack

Planimetry Date:

Contours Date:

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Manuscript delineated by (III): J. C. Richter Date: 1 June 1953

Photogrammetric Office Review by (III): H. R. Rudolph Date: 11 June 1953

Elevations on Manuscript Date:

checked by (II) (III): not applicable.

Form T-Page 3 M-2618-12(4)

153.42 mm Camera (kind or source) (III): U.S.N.

		PHOTOGRAPHS (III)		
Number Acc 22	48 Date	Time	Scale	Stage of Tide
SEA-116-123	13 Aug. 1948	unknown	1:10,000*	unknown
124	11	11	11	tt.
125	н	. 11	11	и -
SEA-116-132	ft	Ħ	11	***
133	tt	11	11	11
134	11	tt	Ħ	<b>!</b> ?

\*Field Photo's approximate 1:20,000

Tide (III)

Reference Station:

JUNEAU

Subordinate Station: Subordinate Station:

TAKU POINT, TAKU INLET

Date: 8/2/56

Date:

Date: 10-26-56

5

Range Range

14.0 16.6

Date: 3 Sept. 1954

Ratio of Mean | SAMA

Ranges

Washington Office Review by (IV): Leve J. Ste.

Final Drafting by (IV): John H. Frazier

Drafting verified for reproduction by (IV): W. Bellin

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 13 mile

Shoreline (More than 200 meters to opposite shore) (III): 17.0 m Shoreline (Less than 200 meters to opposite shore) (III): 2.0 m

Control Leveling - Miles (II): none

Number of Triangulation Stations searched for (II): 10 Number of BMs searched for (II): See Field report

Number of Recoverable Photo Stations established (III): 3₺ Number of Temporary Photo Hydro Stations established (III):

5 Recovered: Identified: Recovered: Identified:

#### Remarks:

\* In addition 3 old Topo stations were recovered and identified.

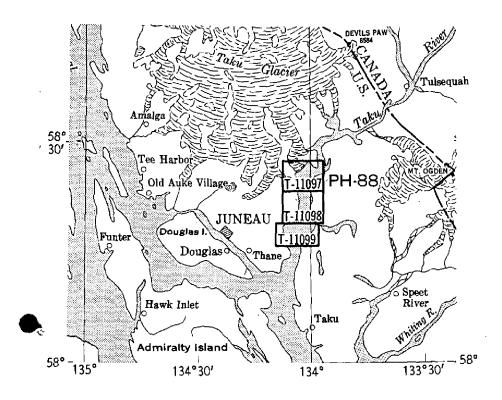
Form T-Page 4

M-2618-12(4)

# SHORELINE MAPPING PROJECT PH-88

ALASKA, Taku Inlet

Compiled at 1:10,000 scale from U.S. Navy aerial photographs taken July 1948



# OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet	Sq. Miles	Lin. Miles
No.	Area	Shoreline
T-11097	18	18
T-11098	14	14
T-11099	14	14
TOTAL	S 46	46

### Summary to Accompany T-11097

Field instructions for shoreline project (Ph-88) were issued to Ross A. Gilmore, in command of USC&GS Ship LESTER JONES, for project CS-346 for the purpose of securing new basic hydrographic surveys of that portion of Taku Inlet greatly changed since 1937 because of the advance of Taku Glacier.

This was a combined operations project. Photographs were used for shoreline inspection and for recovery of control, supplemented by planetable surveys.

Mediogrammetry Photogrammetry

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MAP T. 11097		PROJECT NO. FR-00	Z SC	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				)		۳۲.
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITU	IDE OR y- UDE OR x	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE  1	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION		N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
JOYCE, 1937	G-7609 III 867	N.A. 1927	58	26	05.052			156.3	(1700.2)	
Sub Pt. JOYCE, 1937		=	133	26				155.9	(1700.6)	
MARY. 1937	G-7609 III 867	¥	233	25	07.842			242.6	(1613.8)	not held
1929	6-484	=	1 2 .	77. 8	15.644			0.484	(1372.4)	
Sub Pt. TAKU, 1929		=	88 2	3 75 8	375.57			1,82.0	(1374.4)	
OOZE, 1937	69-111 111 867	=	134	277	13.731			124.2	(1431.6)	
Sub Ft. 00ZE, 1937		<b>#</b>	134	21 <u>4</u>				9.799	(1188.9)	
1893 C	G-484 492	=	58	8 8	38.541	A white 'X' or smx 6ft booted scan still le a land mark here (H-8032)		1192.5	(6,61,0)	not held
Pt. 1893 "A" 1929		=	134	F7 8				1209.h	( 647.1)	ł I
Ft. 1893 "B" 1929		=	58 134	23				1177.4 870.9	( 679.1)	1105
										7
FT = 3048006 METER										M - 2388-12

MAP T- 11097		PROJE	PROJECT NO. Ph-88	SCALE OF MAP 1:10,000	000	SCAL	SCALE FACTOR	R
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	1927 - DATUM DISTANCE D OR PROJECTION LINE IN METERS ARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
			TOPO STATIONS	NS RECOVERED 1952				
ROT, 1937 C	Form No.	N.A. 1927	58 26			1675	(181)	
		- 1	134 00			611	(362)	
		:		A memorial monument		1309	(5/17)	
DYE, 1937	=	<b>=</b>	133 59	Plane Toble position		949	(25)	not hest
			58 24	A memorial monument		130	(1726)	
STOW, 1937 '	=	=	134 00	ft high		804	(171)	not held
	,		58 23	Planetable position		05	(1851)	
NEWT, 1952	=	=	134 02			963	(21)	not held
			58 23	Plane Lable position		580	(1276)	
BILL, 1952	#	=	134 00			769	(281)	not held
			58 25	Plane Table 00527100		597	(1259)	
DILL, 1952	=	=	134 03			806	(168)	
Sub. Pt. A NEWT, 1952		=	Plot graphically	X				
Sub. Pt. B NEWT, 1952		=	Flot graphically	Å.				
Sub. Pt. STOW, 1937		=	Flot graphically	A				1109
								7
1 FT. = 3048006 METER COMPITED BY. J. C. Gregan	Cregan		nare 18 March 1953	rustren ov J. Steinberg	einberg		23 March 1953	ch 1953 -9-

#### COMPILATION REPORT T-11097

#### FIELD REPORT:

The field report is part of the Descriptive Report for T-11098.

#### PHOTOGRAMMETRIC PLOT REPORT:

The Radial Plot Report is part of the Descriptive Report for T-11098.

#### 31. DELINEATION

Graphic methods were used for delineation.

Shoreline in the vicinity of control stations was  ${}^{\mbox{\tiny J}}$  traced from Graphic Control sheets.

#### 32. CONTROL

Refer to Radial Plot Report.

#### 33. SUPPLEMENTAL DATA

Graphic control sheets No. LJ-A-52, LJ-B-52, were used for tracing shoreline and offshore detail at Taku Glacier and all control stations. For complete discussion refer to Para. No. 31, of Descriptive Report for T-11098.

#### 34. CONTOURS AND DRAINAGE

Contours: Inapplicable.
Drainage: No comment

#### 35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate. Refer to Para. 35 of the report for T-11098 regarding the foreshore areas, the low water line and discussion of bluffs and the quality of the photographs.

The shoreline at Taku Glacier and at the moraine of Norris Glacier seems to-be subject to continuous change.

The MHWL east of station MARY, 1937 was delineated without field inspection. The tides on the photographs could not be computed so the MHWL was delineated at the base of the bluff. It is possible that it extends out on the Flats beyond the bluff.

#### 36. OFFSHORE DETAILS

Information was available from the Graphic control sheets and the field photographs.

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#### 37. LANDMARKS AND AIDS

None: Refer to Para. 9, of Field Report regarding the buildings in this area.

#### 38. CONTROL FOR FUTURE SURVEYS

Forms 524 for three new Recoverable Topographic Stations and three previously established stations are submitted with this report. Refer to Para. 11 of the Field Report. Bill, 1952; Dill, 1952; Newt, 1952.

Hydrographic stations exist in this area and are located on the graphic control sheets. They were omitted from this manuscript in accordance with project instructions.

#### 39. JUNCTIONS

There are no contemporary surveys to the north, east and west. Junction to the south with T-11098 is in agreement.

#### 40. HORIZONTAL AND VERTICAL ACCURACY

Refer to Radial Plot Report.

41 through 45.

Inapplicable.

#### 46. COMPARISON WITH EXISTING MAPS

There were no existing maps in this area available at the compilation office.

#### 47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with USC&GS Chart No. 8235, scale 1:40,000 published 8/18/52, corrected to 16 March 1953, and found to be in good agreement, except for Taku Glacier which has moved southeastward.

Items to be applied to Nautical Charts Immediately:

The MHWL of Taku Glacier has moved eastward approximately 2 miles.

# 47. COMPARISON WITH NAUTICAL CHARTS (cont'd)

Items to be carried forward:

None

Respectfully submitted 2 June 1953

John C. Richter, Carto. Photo. Aid

Approved and forwarded;

Jack C. Sammons,

Capt. USC&GS Officer in Charge

Baltimore Photo. Office

#### 48. GEOGRAPHIC NAMES LIST

#### Swede Point

Taku Glacier Taku Inlet Taku Point Taku River Norris Glacier Names approved 9-3-54 Q.1.U.

# PHOTOGRAMMETRIC OFFICE REVIEW

T- 11097

1. Projection and grids <u>H.R.R.</u> 2. Title <u>H.R.R.</u> 3. Manuscrip	ot numbers <u>H.RR.</u> 4. Manuscript size <u>H.RR.</u>
CONTROL STATIC	DNS
5. Horizontal control stations of third-order or higher accuracy	H.R.R. 6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations)	
9. Plotting of sextant fixes <u>Nenc.</u> 10. Photogrammetric plot re	
5. Clothing of Society Mass_12.12.120. Clothogrammetric protection	port
ALONGSHORE AF	REAS
(Nautical Chart I	Data)
12. Shoreline H.R.R. 13. Low-water line H.R.R. 14. Rocks, s	hoals, etc. <u>H.R.R.</u> 15. Bridges <u>None</u> 16. Aids
to navigation <u>Nane</u> 17. Landmarks <u>H.R.R.</u> 18. Other along	shore physical features <u>H.R.R.</u> 19. Other along-
shore cultural features <u>H.R.R.</u>	
PHYSICAL FEATU	RES
20. Water features <u>H.R.R.</u> 21. Natural ground cover <u>H.R.R.</u>	22. Planetable contours23. Stereoscopis
instrument contours 24. Contours in general	25. <del>Spot elevatio</del> ns 26. Other physical
features <u>H.R.R.</u>	
CULTURAL FEATU	RES
27. Roads <i>None</i> 28. Buildings <i>H.Q.R.</i> 29. Railroads <i>Non</i>	= 30. Other cultural features <u>H.R.R.</u>
BOUNDARIES	
31. Beandary lines 32. Public land lines	
MISCELLANEOU	s
33. Geographic names H.R.R. 34. Junctions H.R.R. 35. Leg	ibility of the manuscript <u>HAR</u> 36. Discrepancy
overlay Neue 37. Descriptive Report H.RR 38. Field insp	ection photographs H.R.R. 39. Forms H.R.R.
40. Harry R. Rudolph	Joseph Steinberg
/ Revisiver	Supervisor, Review Section or Unit
41. Remarks (see attached sheet)	V
FIELD COMPLETION ADDITIONS AND CORR	ECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion s	survey have been applied to the manuscript. The
manuscript is now complete except as noted under item 43.	
Compiler	Supervisor
	Supervisor
43. Remarks:	M-2523-12

### REVIEW REPORT T-11097 Shoreline Map 3 September 1954

### 62. Comparison with Registered Surveys:

т-6576	1:10,000	1937	Taku Inlet (west shore)
T-6577	1:10,000	1937	Taku Point, Swede Point
			(East shore of Taku Inlet)
T-6578	1:10,000	1937	Davidson Creek to Taku Point
T-7088	1:10,000	1952	Taku Inlet, Taku Glacier

T-11097 shoreline supersedes that of both T-6576 and T-6577 and of T-6578 north of parallel 58°23'. Offshore features supplement those of the older surveys.

T-7088 (planetable LJ-A-52) is contemporary with T-11097 and was used to establish in part the shoreline and offshore features on T-11097.

### 63. Comparison with Maps of Other Agencies

USGS Juneau (B-1) 1:63,360 1952 (adv. print) USGS Taku River (B-6) 1:63,360 1951

The shoreline of these maps is from 1948 photographs delineated by multiplex and Kelsh plotter methods without benefit of field inspection. The scale of the quadrangles discloses a general agreement of shoreline except in the Swede Point area where planetable work for T-11097 advances the shoreline to include the two islands on the quadrangle, and at Taku Glacier where the front has advanced to practically cover the northern outlet of Norris Glacier.

# 64. Comparison with Contemporary Hydrographic Surveys

H-8032 1:10,000 1952 (LJ-1152)

The shoreline and off shore features on this survey are from T-11097, T-11098.

#### Changes during review:

Shoreline in vicinity of station BILL, both mainland and sand bar islands which cover at HW.

Shoreline east of station MARY (see 66).

## 65. Comparison with Nautical Charts

8235 1:40,000 ed Feb. 1941, cor. Nov. 1953

The changes in the area of T-11097 have been applied to the chart.

(see headings 23 and 24 of the Radial Plot Report, 66. Accuracy bound with T-11098)

Because practically all of the shoreline was delineated by benefit of either field inspection or of planetable location, this map complies with the National Standards of Map Accuracy. Though control in the southern portion of the project area did not hold in the radial plot, the shoreline in the neighborhood of each station was located by planetable so that all the shoreline in that area may be considered accurate. The approximate shoreline east of station MARY was drawn during review by analogy with field notes at an area to the N.E.

Reviewed by:

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Photogrammetry Chief, Division of

Surveys