

11099

Diag. Cht. No. 8202-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline Photogrammetric

Field No. Ph-88 Office No. T-11099

LOCALITY

State Alaska

General locality Taku Inlet

Locality Sunny Cove and Turner Creek

1948-52

CHIEF OF PARTY

R. A. Gilmore, Chief of Field Party

J. C. Sammons, B'more Photo. Office

LIBRARY & ARCHIVES

DATE September, 1957

11099

DATA RECORD

T - 11099

Project No. (II): Ph-88

Quadrangle Name (IV):

Field Office (II): Ship LESTER JONES

Chief of Party: R. A. Gilmore

Photogrammetric Office (III): Baltimore, Maryland

Officer-in-Charge: J. C. Sammons

Instructions dated (II) (III): 20 March 1952
24 Dec. 1952
19 May 1953

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): 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): NA 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): PIPE 1937

Lat.: 58° 17' 32.849" (1016.3m) Long.: 134° 01' 13.070" (212.9m)

Adjusted

~~UNADJUSTED~~

Plane Coordinates (IV):

State: ALASKA (UTM) Zone: No. 8

Y=

X=

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

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

Inapplicable

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

DATA RECORD

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

Date: 21 May 1952
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):

Photos 12 July 1952

Plane table - 12 June 1952 & 9 July 1952
(see paragraph 33)

Projection and Grids ruled by (IV): J. Allen

Date: 26 Jan. 1953

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

Date: 27 Jan. 1953

Control plotted by (III): J. Steinberg

Date: 30 Mar. 1953

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

Date: 8 April 1953

Radial Plot ~~by (III): L. A. Senasack~~ L. A. Senasack

Date: 1 May 1953

Control extension by (III):

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): J. Y. Council

Date: 2 June 1953

Photogrammetric Office Review by (III): H. R. Rudolph

Date: 12 June 1953

Elevations on Manuscript Not applicable
checked by (II) (III):

Date:

Camera (kind or source) (III): U. S. Navy Focal length 153.42 mm

Number	Date	Time	Scale	Stage of Tide
SEA-116-120	13 Aug. 1948	unknown	1:10,000*	unknown
" 114-203	"	"	"	"
" 114-204	"	"	"	"
" 114-205	"	"	"	"
" 81-060	"	"	"	"
" 81-061	"	"	"	"

*Field photographs - approximately 1:20,000

Tide (III)
From predicted Tide Tables

Reference Station: JUNEAU
Subordinate Station: TAKU PT. TAKU INLET
Subordinate Station:

Diurnal		
Ratio of Ranges	Mean Range	Spring Range
1.0	14.0	16.6
15.7	14.1	16.7

Time 10:15

Washington Office Review by (IV): *Lena T. Stevenson*

Date: 13 Sept 1954

Final Drafting by (IV): John H. Frazier

Date: 14 AUGUST 1956

Drafting Verified for reproduction by (IV): *Wm O. Halluin*

Date: 10-29-56

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): $1\frac{1}{2}$ sq. mi.

Shoreline (More than 200 meters to opposite shore) (III): 7 miles

Shoreline (Less than 200 meters to opposite shore) (III): $2\frac{1}{2}$ miles

Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II): 7

Recovered: 7

Identified: 7

Number of BMs searched for (II): See field report

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): None*

Number of Temporary Photo Hydro Stations established (III):

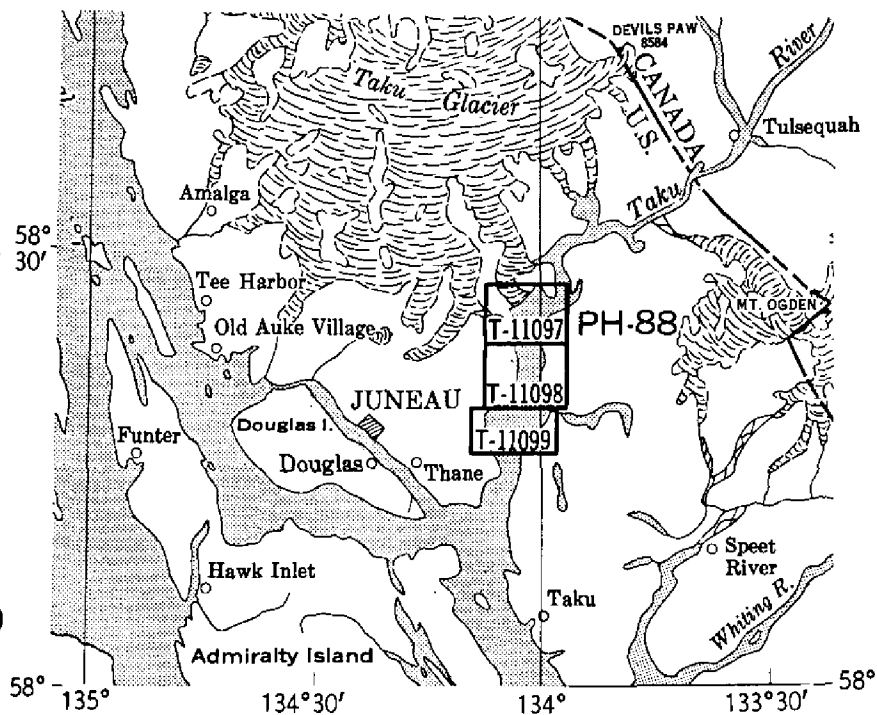
Remarks:

*Old station COVE 1937 was recovered, not identified.

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 No.	Sq. Miles Area	Lin. Miles Shoreline
T-11097.....	18.....	18.....
T-11098.....	14.....	14.....
T-11099.....	14.....	14.....
TOTALS	46	46

Summary to Accompany T-11099

Field instructions for this shoreline project (Ph-88) were issued to Ross A. Gilmore in command of U.S.C. & G.S. 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.

MAP T-11092 PROJECT NO. Ph-88 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR λ -COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
			°	'	FORWARD	(BACK)		FORWARD	(BACK)	
CASE, 1893 1929	G-484 491	N.A. 1927	58	18	50.201			1553.2	(303.2)	
			134	06	08.184			133.3	(843.7)	
Sub Pt. CASE 1893 1929		"	58	18				1586.0	(270.4)	
			134	06				118.7	(858.3)	
TURNER, 1929	G-484 491	"	58	18	31.605			977.9	(878.5)	
			133	59	12.631			205.7	(771.4)	
PIPE, 1937	G-7609 III 868	"	58	17	32.849			1016.3	(840.1)	
			134	01	13.070			212.9	(764.6)	
RUT, 1937	"	"	58	17	12.233			378.5	(1477.9)	
			134	02	31.142			507.5	(470.2)	
Sub Pt. "A" RUT 1937	"	"	58	17				439.1	(1417.3)	
			134	02				341.2	(636.5)	
LAG, 1893 1929	G-484 491	"	58	17	13.481			417.1	(1439.3)	
			134	08	37.068			604.0	(373.6)	
Sub Pt. LAG 1893 1929	"	"	58	17				361.4	(1495.0)	
			134	08				605.0	(372.6)	
KEEP, 1893 1929	G-484 491	"	58	16	58.833			1820.3	(36.1)	
			134	04	17.159			279.6	(698.1)	
Sub Pt. KEEP 1893 1929	"	"	58	16				1799.6	(56.8)	
			134	04				342.6	(635.1)	
JAW, 1893 1929	G-484 491	"	58	16	44.532			1377.8	(478.6)	
			134	04	45.349			739.1	(238.8)	
Sub Pt. JAW 1893 1929	"	"	58	16				1345.4	(511.0)	
			134	04				729.3	(248.6)	

T 110929

1 FT. = 3048006 METER

COMPUTED BY: J. C. Cregan

DATE: March 17, 1953

CHECKED BY: J. Steinberg

DATE: 3/24/53

-8-

M-2388-12



MAP T-11099	PROJECT NO. Ph-88	SCALE OF MAP 1:10,000	SCALE FACTOR
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[illegible]

COMPILATION REPORT
T-11099

- 10 -

31. DELINATION

Graphic methods were employed in the delineation of this shoreline manuscript. In addition a few sections of shoreline were taken directly from a graphic control sheet. Refer to Para. 33 of the Descriptive Report for T-11098 regarding this method.

Parts of the shoreline which were not delineated on this manuscript are discussed in Para. 46, of this report.

32. CONTROL

Horizontal control was adequate. Refer to Radial Plot Report. *in Desc. Report T11098*

33. SUPPLEMENTAL DATA

Graphic control sheet LJ-C-52, scale 1:10,000 dated 9 July 1952, was used for parts of the shoreline. *Destroyed prior to review.*

Refer to Para. 33, of the Descriptive Report for T-11098 for a discussion of this method.

34. CONTOURS AND DRAINAGE

Contours: inapplicable.

Drainage: Refer to Para. 46, regarding shoreline of Carlson Creek.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate. In those places where the MHW line was not given it was determined by the stereoscope in the office.

Refer to Para. 35, of the Descriptive Report for T-11098, regarding the foreshore areas, the low water line, discussion of the bluffs and the quality of the photographs.

36. OFFSHORE DETAILS

Information was available on the graphic control sheets in addition to the field photographs.

37. LANDMARKS AND AIDS

There are no Landmarks or Aids on this manuscript. Refer to Para. 9 of the Field Report regarding buildings in this area.

37. LANDMARKS AND AIDS (cont'd)

38. CONTROL FOR FUTURE SURVEYS

Refer to Para. 46.

One recovery Form 524, is submitted (for COVE, 1927) with this report.

Refer to Para. 11, of the Field report for list of stations.

The photo-hydro stations in this area are located on the geographic control sheet. In accordance with Project Instructions they are omitted from this manuscript.

39. JUNCTION

There are no contemporary surveys to the east, and west of T-11099. A satisfactory junction has been made with T-11098 to the north. Junction to the south has been made with T-6581 (1937) at station KEEP 1893-1929. Junction with T-6580 has been made just south of CASE 1893-1929 and in the vicinity of Sunny Cove.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to Radial Plot Report

41. - 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with the following:

T-6580 (1937) and T-6581 (1937) both at scale 1:10,000. The shoreline south of stations KEEP 1893-1929 and CASE 1893-1929 was found to be satisfactorily delineated on the previous surveys and has been omitted from this manuscript. An exception to this was in the area of Sunny Cove.

46. COMPARISON WITH EXISTING MAPS

The entire shoreline of Sunny Cove and Carlson Creek was found to have changed to some extent. Also the position of the bend in shoreline at COVE, 1937 falls about 15 m. NW., of the station as plotted on T-6580. This discrepancy caused the south shoreline of Sunny Cove to be displaced the same amount SE., on the planetable sheet. The entire shoreline of Sunny Cove and Carlson Creek was redelineated on this manuscript, with the exception of the dock ruins which were not visible on the photographs.

47. COMPARISON WITH CHART

This survey has been compared with chart No. 8235, scale 1:40,000, published Aug. 18, 1952, corrected to March 16, 1953.

Items to be applied to Nautical Charts immediately:

None.

Items to be carried forward:

Shoreline not delineated on this manuscript should be carried forward from Surveys T-6580 and T-6581.

Respectfully submitted
3 June 1953

Judson Y. Council
Judson Y. Council
Carto. Photo. Aid *J.Y.C.*

Approved and Forwarded:

Jack C. Sammons
Jack C. Sammons,
Capt. U.S.C. & G. S.
Officer in Charge
Balto. Photo. Office

T-11099

48. GEOGRAPHIC NAME LIST:

Annex Creek

Carlson Creek

Jaw Point

Sunny Cove

Taku Inlet

Turner Creek

Turner Lake

Names approved
9-13-54
a.j.w.

PHOTOGRAMMETRIC OFFICE REVIEW

T-11099

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

CONTROL STATIONS

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) H.R.R. 7. Photo hydro stations H.R.R. 8. ~~Bench marks~~ H.R.R. 9. Plotting of sextant fixes None 10. Photogrammetric plot report H.R.R. 11. Detail points H.R.R.

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline H.R.R. 13. Low-water line H.R.R. 14. Rocks, shoals, etc. H.R.R. 15. Bridges None 16. Aids to navigation None 17. Landmarks None 18. Other alongshore physical features H.R.R. 19. Other along-shore cultural features H.R.R.

PHYSICAL FEATURES

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

CULTURAL FEATURES

27. Roads H.R.R. 28. Buildings H.R.R. 29. Railroads None 30. Other cultural features H.R.R.

BOUNDARIES

31. ~~Boundary lines~~ H.R.R. 32. ~~Public land lines~~ H.R.R.

MISCELLANEOUS

33. Geographic names H.R.R. 34. Junctions H.R.R. 35. Legibility of the manuscript H.R.R. 36. Discrepancy overlay None 37. Descriptive Report H.R.R. 38. Field inspection photographs H.R.R. 39. Forms H.R.R. 40. Harry R. Rudolph Joseph Steinberg

Reviewer

Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler_____
Supervisor

43. Remarks:

M-2623-12

Review Report T-11099
Shoreline Map
13 September 1954

62. Comparison with Registered Surveys.-

T-6579	1:10,000	1937	Jaw Point to Davidson Creek (E. shore)
T-6580	"	"	Dack 2, 1929 to Flat Point (W. shore)
T-6581	"	"	Greely Point to Jaw Point (E & W shores)

The east shoreline of Taku Inlet was delineated on T-11099 from field inspection notes on 1948 photographs. This shoreline extends from the north limit of the map to triangulation station KEEP, 1893-1929 and supersedes that on T-6579. South of Keep no new delineation was made, therefore, the shoreline on T-6581 from KEEP to Greely Point is to be retained for charting.

On the west shore new delineation was made on T-11099 only in the vicinity of Annex Creek and of Sunny Cove. The remainder of the west shore in this map area retains T-6580 and T-6581 for charting purposes.

63. Comparison with Maps of Other Agencies.-

USGS Taku River (B-6) 1:63,360, 1951
USGS Juneau (B-1) 1:63,360, 1952 (advance proof)

The shoreline of these maps is from 1948 photographs delineated by multiplex and Kelsh plotter methods without benefit of field inspection. No notable differences are apparent between the quadrangles and T-11099.

64. Comparison with Contemporary Hydrographic Surveys.-

H-8033 1:10,000 1952 Flat Point to Jaw Point

The shoreline on H-8033 is taken from T-11098 and T-11099.

During review the shoreline was changed at Turner Creek to conform to the line drawn on field inspection photograph SEA 116-120.

65. Comparison with Nautical Charts.-

8235 1:40,000 Feb. 1951, corr. November 1953

No major differences are apparent between the chart and T-11099.

66. Accuracy.-The shoreline delineated on T-11099 is of charting accuracy.

Reviewed by:

Lena T. Stevens
Lena T. Stevens

APPROVED

L. C. Landy
Chief, Review Branch
Div. of Photogrammetry

for

Wallace A. Brinder
Chief, Nautical Chart Branch
Div. of Charts 9/17/57

Lee Swanson
Chief, Div. of Photogrammetry

W. Russell
Chief, Div. of Coastal Surveys

Aug 28, 1957

[Signature]