

11479

Diag. Cht. No. 8860-2.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. Ph-92 Office No. T-11479

LOCALITY

Territory Alaska

~~State~~

General locality Alaska Peninsula

Locality Morzhovoi Bay

1945

CHIEF OF PARTY

Norman E. Sylar, Chief of Party

Fred Natella, Portland Photogrammetric

Office

LIBRARY & ARCHIVES

DATE

11479

DATA RECORD

2.

-11479

Project No. (II): **Ph-92**

Quadrangle Name (IV):

Field Office (II): **Thorborough Air Force Base
Cold Bay, Alaska**Chief of Party: **Norman E. Sylar**Photogrammetric Office (III): **Portland, Oregon**Officer-in-Charge: **Fred Natella**Instructions dated (II) (III): **Project G-1119, dated 4/14/52
Ph-92 (G-1119), dated 5/2/52 (Supp.)
Ph-92 dated 8/16/54)
Ph-40 dated 11/29/54) Office**Copy filed in Division of
Photogrammetry (IV)Method of Compilation (III): **Graphic**Manuscript Scale (III): **1:20,000**

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): **None**

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): **N.A. 1927**Vertical Datum (III): **X**

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): **LITTLE, 1952**Lat.: **55° 04' 07.631" (236.0m)**Long.: **163° 15' 43.284" (768.1m)**Adjusted **X**
Unadjusted

Plane Coordinates (IV):

State:

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

4.

Field Inspection by (II): **C. H. Bishop & H. R. Moore**

Date: **May - Sept. 1952**

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): **located in field during May - Sept. 1952 on 1942 and 1943 photographs. Transferred to 1952 photography and detailed.**

Projection and Grids ruled by (IV):

Date:

Projection and Grids checked by (IV):

Date:

Control plotted by (III): **J. E. Deal**

Date: **10/21/54**

Control checked by (III): **J. L. Harris**

Date: **10/27/54**

Radial Plot or Stereoscopic **J. L. Harris and J. E. Deal**
Control extension by (III):

Date: **11/22/54**

Planimetry
Stereoscopic Instrument compilation (III):

Date:

Contours

Date:

Manuscript delineated by (III): **C. C. Wiebe**

Date: **1/14/55**

Photogrammetric Office Review by (III): **J. L. Harris**

Date: **1/19/55**

Elevations on Manuscript **J. E. Deal**
checked by (II) (III):

Date: **2/10/55**

Camera (kind or source) (III): **U.S.C. & G.S. - 9-lens - focal length 8.25 inches**

5.

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
37485 thru 37487	6/11/52	15:46	1:20,000	* 0.3 ft. below M.L.L.W. ** 4.7 ft. above M.L.L.W.
37495 thru 37499	6/11/52	16:03	1:20,000	* at M.L.L.W. ** 4.9 ft. above M.L.L.W.
38434 thru 38435	7/23/52	16:15	1:20,000	** 3.0 ft. above M.L.L.W.
38591 thru 38593	6/13/52	13:10	1:20,000	* 4.9 ft. above M.L.L.W. ** 2.2 ft. above M.L.L.W.

Above tides are computed on 150° West meridian time.
It is assumed photograph time is the same

Tide (III)

* Dutch Harbor, Alaska
Reference Station: ** Kodiak, Alaska
Subordinate Station: * St. Catherine's Cove, Bechevin Bay
Subordinate Station: ** Korzhovoi Bay

Signal		
Ratio of Ranges	Mean Range	Signal Range
1.4	3.1	5.1
0.7	4.7	6.8

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Date: June 1960

Date: Oct. 54 - Febr. 55

Date: June 1960

Date: Oct. 1960

Land Area (Sq. Statute Miles) (III): **9**

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

53 statute miles

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

2 statute miles

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Recovered:

Identified:

Number of BMs searched for (II):

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): **1**

Number of Temporary Photo Hydro Stations established (III): **2**

Remarks:

SUMMARY
TO ACCOMPANY
SHORELINE MANUSCRIPTS
T-11478 thru T-11481

Subject manuscripts, four (4) shoreline surveys, represent the southern portion of project PH-92, which covers the west coast and offshore islands of the Alaska Peninsula in the State of Alaska between the lines of $54^{\circ} 52' 30''$ and 55° . T-11478 thru T-11481 extend from the northwest part of Unimak Island eastward to Morzhovoi Bay.

The project was assigned to and completed by the Portland Photogrammetric Office from instructions of April 1952 and supplements. Subject manuscripts were compiled between October 1954 and November 1957 from photography of June-August 1952 and field inspection during seasons of 1952 to 1957. Advance shoreline and control was made available in support of hydrographic surveys.

Cronar film positives at the compilation scale of 1:20,000 and the Descriptive Reports will be registered and filed in the Bureau Archives.

June 1960

FIELD INSPECTION REPORT

Map Manuscript T-11A79

Project Ph-92

Refer to "SEASONS REPORT", Project Ph-92 (G-1119), Norman E. Sylar,
Chief of Party (1952)

Photogrammetric Plot Report

Map Manuscript T-11479

Project Ph-92

Refer to the Photogrammetric Plot Report for T-11472 thru T-11477 and T-11479 which is included in the descriptive report for T-11472 thru T-11477.

MAP T. 11479

PROJECT NO. Ph-92

SCALE OF MAP 1:20,000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR χ -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS	DATUM CORRECTION	N.A. 1927 - DATUM		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
						FORWARD	(BACK)	
ISLAND, 1924	G 7987	N.A.	55 00 02.223			68.7	(1786.7)	
	V 715	1927	163 19 50.841			903.8	(162.8)	
SHORT, 1952	G 10050	"	55 06 06.198			191.7	(1663.8)	
	IV 294	"	163 17 06.242			110.7	(953.2)	
AXEL, 1952	"	"	55 04 45.253			1399.4	(456.0)	
	IV 296	"	163 18 40.416			717.1	(347.4)	
LETTLE, 1952	"	"	55 04 07.631			236.0	(1619.4)	
	IV 295	"	163 16 43.284			768.1	(296.6)	
SULA, 1941	G 7987	"	55 02 34.008			1051.7	(803.7)	
	V 718	"	163 16 50.249			892.3	(173.1)	
CABIN, 1952	G 10050	"	55 00 54.594			1688.3	(167.1)	
	IV 295	"	163 14 01.675			29.8	(1036.4)	
GRASS, 1923	G 10050	"	55 04 26.680			825.1	(1030.3)	
	IV 294	"	163 11 45.736			811.5	(253.1)	
TURN, 1923	"	"	55 06 32.599			1008.1	(847.3)	
	IV 294	"	163 04 14.820			262.7	(801.0)	
DELTA, 1923	G 7987	"	55 03 02.171			67.1	(1788.3)	
	V 728	"	162 58 45.739			812.1	(253.2)	
GREEN, 1923	G 7987	"	55 06 29.253			904.6	(950.8)	
	V 733	"	163 06 30.418			539.3	(524.5)	
SAND, 1923	"	"	55 05 02.540			78.6	(1776.9)	
	V 732	"	163 00 48.250			856.0	(208.4)	
GET, 1923	"	"	55 05 12.932			400.0	(1455.5)	
	V 732	"	163 07 36.006			639.7	(424.5)	

1 FT. = 3048006 METERS
COMPUTED BY J.L.H.

DATE 9/10/54

CHECKED BY F.N.

DATE 10/20/54

COMPILATION REPORT

Map Manuscript T-11479

Project Ph-92

Items 31 thru 34 of the descriptive report for Map Manuscripts T-11472 thru T-11477 are applicable to T-11479.

35. Shoreline and Alongshore Details:

Facts discussed relative to shoreline changes in the descriptive report for T-11472 thru T-11477 are applicable to T-11479. There were no 1954 photographs available for this area so the mean high-water line is of the date of the 1952 photographs and field inspection.

The approximate low-water lines in Bechevin Bay were delineated from photographs at about M.L.L.W. In Morzhovoi Bay at Big Lagoon the approximate low-water lines were delineated from photographs with a predicted stage of tide about 2.2 ft. above M.L.L.W.

Two stages of tide were considered when using photographs showing both Bechevin Bay and Morzhovoi Bay. From the tide computations it is evident that when there is low-water at Bechevin Bay there is high-water at Morzhovoi Bay and vice versa.

There are no alongshore structural features. Small buildings have been shown.

Items 36 and 37 of the descriptive report for Map Manuscripts T-11472 thru T-11477 are applicable.

38. Control for Future Surveys:

Form 524 is submitted for recoverable topographic station B0LB, 1952.

A list of recoverable topographic and photo-hydro stations has been prepared and is included in this report under Item 49, "Notes to the Hydrographer". Copies will be forwarded to the Ship PATHFINDER with the photographs.

39. Junctions:

Complete and satisfactory junctions have been made between T-11479 and all adjoining map manuscript.

Items 40, 41, 46, and 47 of the descriptive report for T-11472 thru T-11477 are applicable to T-11479.

Approved and forwarded :

Respectfully submitted:

Fred Natella
Comdr., USC&G Survey
Officer-in-Charge

J. Edward Deal Jr.
Cartographer
USC&GS

GEOGRAPHIC NAMES LIST

*Alaska Peninsula

*Bechevin Bay

*Bering Sea

Big Lagoon

Boiler Point

Dry Lagoon

Isanotski Islands

Little Lagoon

Middle Lagoon

*Morzhovoi Bay

* B.G.N. Decision

George M. Bee
GEOGRAPHIC NAMES SECTION
16 MARCH 1960

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49. Notes to the Hydrographer:

Photo-hydro stations located on this map manuscript are as follows:

No. 125 - Photo No. 11366 - East gable of cabin (15')
No. 126 - " " " - East gable of cabin

A recoverable topographic station is located on this map manuscript namely:

BOLD, 1952 (not marked) Photo No. 11362.
See Form 524

Computations of predicted tides for the photographs indicate that two stages of tides must be considered for photographs showing both Bechevin Bay and Morzhovoi Bay. Apparently when there is a low tide in Bechevin Bay there is a high tide in Morzhovoi Bay and vice versa. The areas that bare in Dry Lagoon and Bechevin Bay were delineated from a photograph having a predicted tide of 0.3 ft. below M.L.L.W. For predicted tides of other photographs refer to page 5 of the descriptive report for T-11479. All photographs for Morzhovoi Bay are from 2.2 ft. to 4.9 ft. above M.L.L.W. so therefore the areas that are shown on the manuscript as baring in Big Lagoon are probably slightly larger at M.L.L.W.

Remarks made in "Notes to the Hydrographer" for T-11473 are applicable.

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FIELD EDIT REPORT

T-11479

PROJECT NO. 13750

1957

(51.) METHODS OF FIELD EDITING

Field editing was done in conjunction with hydrographic field surveys numbers PF-2157 and PF-2357. Only the area covered by these surveys in Bechevin Bay and the Bering Sea was edited.

Editing was done on the shore at stations SULA and AXEL, the rest of the shoreline being edited from launches. No field edit sheet was used. All information may be seen on the hydrographic survey sheets.

(52.) ADEQUACY OF COMPILATION

The compilation is very good, and no changes or additions are necessary. For this reason, no field edit sheet is submitted.

(53.) MAP ACCURACY

No accuracy surveys were made.

(54.) RECOMMENDATIONS

None.

(55.) EXAMINATION OF PROOF COPY

The cannery at False Pass should be contacted for this step. It was not visited in 1957.

Approved:

F. B. Quinn
Captain, C&GS
Comdg. Ship PATHFINDER

K. William Jeffers
ENS, C&GS

FIELD EDIT DATA APPLICATION

Map Manuscript T-11479

Project Ph-92

None were recommended by the field edit notes.

Approved:

V. Ralph Sobieralski
LCDR C&G Survey
Officer-in-Charge

Respectfully submitted:

J. Edward Deal
Cartographer
C&GS

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REVIEW REPORT
OF
SHORELINE MANUSCRIPTS
T-11478 thru T-11481
June 1960

62. Comparison with Registered Topographic Surveys

T-4028	1:10,000	1923
T-4046	1:20,000	1923
T-4078	1:10,000	1924
T-4148	1:10,000	1925
T-8536	1:20,000	1943

Minor differences exist between these surveys. They are not in excess of normal expectations of time interval. Subject surveys are to supersede above-listed topographic surveys of identical areas for nautical charting purposes.

63. Comparison with Maps of Other Agencies

Fort Randall, Alaska	1:250,000, 1950	U.S. Geological Survey
False Pass, Alaska	1:250,000, 1950	U.S. Geological Survey

These topographic maps were compiled from plane-table surveys of 1929 and aerial photography of 1942 and 1943. Some differences exist between these surveys.

64. Comparison with Contemporary Hydrographic Surveys

H-8373	1:20,000	1957
H-8374	1:20,000	1957
H-8375	1:20,000	1957

The shoreline has not been added to H-8374. The hydrographic information shown does interfere slightly in 2 places with the corresponding shoreline as shown on the T-sheet. However, the shoreline involved is on a sandspit of shifting sand dunes, where even greater deviations may be expected. Other than this, there is good agreement between these surveys.

65. Comparison with Nautical Charts

8860	1:300,000	Revised to 10/19/59
8802	1:1,023,188	Revised to 12/21/59

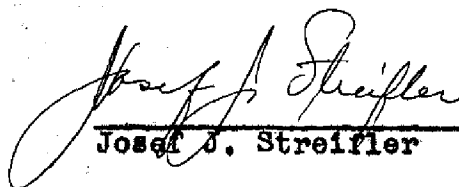
There is good agreement.


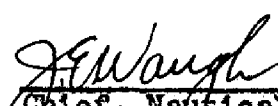
66. Adequacy of Results and Future Surveys


Of the four (4) subject surveys T-11478 and T-11479 were partially field edited by the hydrographic party in 1957, which resulted in several revisions to be applied to the effected T-sheets.

T-11478 thru T-11481 were completed according to project instructions and no deficiencies in accuracy or adequacy are indicated.

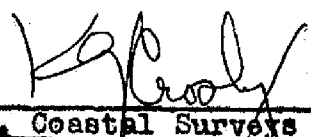
Reviewed by:


Josef J. Streifler

		Nautical Chart Division Office of Cartography
Chief, Review & Drafting Sec. Photogrammetry Division	Chief, Nautical Chart Branch Charts Division	5/18/61


Chief, Photogrammetry
Division

20 April 1961


Chief, Coastal Surveys Division
Assistant Director for Oceanography

NAUTICAL CHARTS BRANCH

SURVEY NO. T-11479

Record of Application to Charts

[illegible]

M-216B-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.