

9124

Original

9124

FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE

Field No. Office No. T-9124

LOCALITY

State ALASKA

General locality PRINCE WILLIAM SOUND

Locality DERICKSON BAY

1954

CHIEF OF PARTY

Office: L. W. Swanson

LIBRARY & ARCHIVES

DATE

USCOMM-DC 37022-P66

DATA RECORD

T - 9124

Project No. (II): 6152

Quadrangle Name (IV):

Field Office (II):

Chief of Party:

Photogrammetric Office (III): Washington, D.C.

Officer-in-Charge: L.W. Swanson

Instructions dated (II) (III): 31 Dec. 1954
11 Feb. 1955, Supp. 1
14 Mar. 1956, Supp. 2

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): 1.0

Date received in Washington Office (IV): 9-18-56

Date reported to Nautical Chart Branch (IV): 9-28-56

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):

Lat.:

Long.:

Adjusted
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.

DATA RECORD

Field Inspection by (II):

Date:

Planetable contouring by (II): None

Date:

Completion Surveys by (II): None

Date:

Mean High Water Location (III) (State date and method of location):

Office identification of photographs taken 26 July 1954

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

Date: 12/20/54

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

Date: 1/7/55

Control plotted by (III): G. Amburn

Date: 4/7/56

Control checked by (III): B. Hale

Date: 4/8/56

Radial Plot or Stereoscopic J. Battley - R. Sugden
Control extension by (III):

Date: 7/3/56

Stereoscopic Instrument compilation (III):
Planimetry
Contours

Date:

Date:

Manuscript delineated by (III): D. Carrier

Date: 7/20/56

Photogrammetric Office Review by (III): E. H. Ramey

Date: 8/29/56

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

Date:

Camera (kind or source) (III): C&GS "W"

Number	Date	Time	Scale	Stage of Tide
2485-7	7-26-54	1444	1:30,000	4.3
2506-7	"	1403	"	"

Tide (III)

Diurnal

Reference Station: Cordova, Alaska

Subordinate Station: Culross Bay

Subordinate Station:

Atlantic Marine Center

~~Washington Office~~ Review by (IV): C. H. Bishop

Ratio of Ranges	Mean Range	Spring Range
	10.0	12.4
1.0	10.0	12.4

Date: 10-6-70

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

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

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

7 mi.

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

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):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

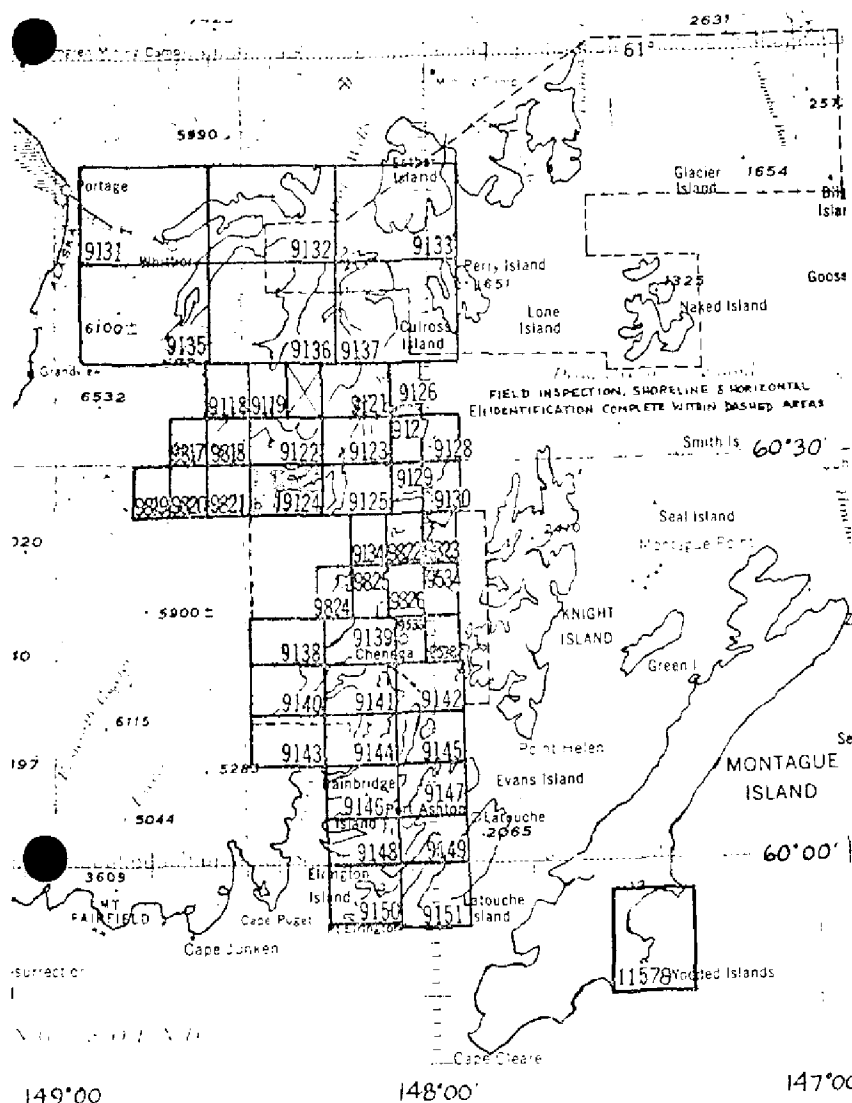
T-9124

COMPILATION RECORD	COMPLETION DATE	REMARKS
Shoreline for hydrography; INCOMPLETE	July 1956	
Final Review	Oct. 1970	

PH - 152

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Prince William Sound, Alaska



OFFICIAL MILEAGE FOR COST ACCOUNT	AREA
LINE MI.	AREA
SHEET NO.	SHORELINE
	MILE
9118	3
9119	9
9121	11
9122	23
9123	17
9124	7
9125	15
9126	5
9127	6
9128	5
9129	7
9130	14
9131	12
9132	48
9133	36
9134	5
9135	24
9136	26
9137	68
9138	10
9139	13
9140	12
9141	24
9142	10
9143	9
9144	26
9145	19
9146	18
9147	24
9148	25
9149	19
9150	24
9151	15
9534	6
9536	6
9538	4
9817	9
9818	11
9819	3
9820	7
9821	2
9822	9
9823	7
9824	9
9825	11
9826	10
11578	19

TOTALS

702

726

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-9124

Records for this map were not complete at the time of Final Review, which is several years after compilation. The Compilation Record and notes concerning absence of reports were inserted by the final reviewer.

This shoreline manuscript, scale 1:10,000, is one of 43 maps that comprise Project PH-152, which is in the western part of Prince William Sound. T-9124 includes Derickson Bay and Deep Water Bay in the Port Nellie Juan area.

Compilation was by radial plot at 1:10,000 scale, using ratio prints of 1954 single-lens photography and both field and office identified control. There was no field inspection and no record of field edit.

Final review was done at the Atlantic Marine Center in October, 1970.

The compilation manuscript was a vinylite sheet 3 minutes and 45 seconds in latitude by 11 minutes and 15 seconds in longitude.

A cronaflex copy of the final reviewed manuscript and a negative have been forwarded for record and registry.

FIELD INSPECTION REPORT

MAP T-9124

PROJECT PH-152

There was no field inspection prior to compilation of this map and no Field Inspection Report is bound with this Descriptive Report.

PHOTOGRAMMETRIC PLOT REPORT
Prince William Sound, Alaska
Project 6152
Surveys T-9119, T-9121 through T-9126
July 1956

21. AREA COVERED:

This report discusses the radial plot for shoreline surveys T-9119, T-9121 to T-9126, inclusive, at a scale of 1:10000. These surveys fall in the area of Fort Nellie Juan of Prince William Sound and include McClure Bay and a portion of Cochrane Bay.

22. METHOD:

Vinylite manuscripts with polyconic projection and UTM grid lines were used as base sheets for the plot. The grid lines were used in joining the base sheets.

Positype prints of Coast and Geodetic Survey single-lens photographs taken in 1954 were used throughout the plot. Vinylite hand templets were constructed using a master templet to correct for paper distortion.

The plot was begun in T-9122 where field identified control was adequate for fixing individual templets. The plot was extended to include all surveys except T-9119 where no field-identified control was available. The area of T-9119 was not included in the plot until after final adjustment was made in the area of field-identified control.

Difficulties experienced in extending the plot resulted from errors in control identification--field and office, and in templet construction using badly distorted photographs. One triangulation station (Tiger 1943) initially could not be held because of a published error in the direction of a reference mark (Geodesy Division records were corrected). All discrepancies in the plot were eventually resolved.

23. ADEQUACY OF CONTROL:

The area of T-9119 was controlled principally from office-identified triangulation stations. The plot was fairly rigid in this area and field identification of control should effect little shift in position.

- 2 -

Control was adequate to obtain as rigid a plot as could be expected with the spacing of single-lens photography which existed for this area. Stations not closely held were the result of logical causes. (See attached list of control) Also other control which held was available for all such areas.

24. SUPPLEMENTAL DATA:

None.

25. PHOTOGRAPHY:

Flights were spaced such that there was little overlap between them. Also, there were many photographs in water areas. However, control was plentiful enough that extension of the plot was possible even though the above deficiencies existed.

The western part of T-9122 was not covered by photographs and approximately two miles of shoreline cannot be compiled until additional photography is available.

Submitted by:

Jeter P. Battley Jr.

Jeter P. Battley, Jr.
Cartographer

Approved:

Everett H. Ramey

Everett H. Ramey
Chief, Graphic Compilation Unit

PHOTOGRAPHIC PLOT REPORT
 Surveys T-9119 and T-9121 through T-9126

LIST OF CONTROL

T-9119

Vain, 1922

1.5 SE

This is the position for a very doubtful office identification. A map feature which fits the station description plots at the published position.

Units, 1942

Held (Office identified only)

T-9121

Silt, 1943

Held

Well, 1917 Sub. Pt.

0.3 mm N

Negat, 1948

0.5 mm N (2 radials only)

Port, 1917

Held

Ross, 1917 Sub. Pt.

Held

Olive, 1948

1.0 mm NE*

Wire, 1913 Sub. Pt.

Held

*Poor field identification. Area of station obscured on photograph.

T-9122

Yield, 1948 Sub. Pt.

Held

Shady, 1948 Sub. Pt.

Held

Ripe, 1948

Held*

Xylan, 1948 Sub. Pt.

0.3 mm NE

Penny, 1948

0.4 mm NE**

Junk, 1948

Held

Organ, 1948 Sub. Pt.

Held

Fini, 1917

Held

Keel, 1948 Sub. Pt.

Held

Liar, 1948 Sub. Pt.

0.3 mm E (2 radials only)

Mace, 1948 Sub. Pt.

Held (2 radials only)

Navel, 1948

Held

*Field identified point would not hold. Point on nearby reef which checked description was used and held.

**Field identified substitute station would not hold. Office identified home station was held closely as indicated.

T-9123

Land, 1917

Held

Unit, 1948 Sub. Pt.

Held

- 2 -

T-9123 (continued)

Tert, 1948	Held
McClure W. Cable, 1948	Held
Valor, 1948 Sub. Pt.	0.3 mm E
Alta, 1948 Sub. Pt.	Held

T-9124

Dill (UD), 1948 Sub. Pt.	Held
Owe, 1948 Sub. Pt.	0.3 mm E (2 radials - narrow intersection)
Neck, 1948 Sub. Pt.	1.0 mm E

(Investigation, after plot was completed, revealed a point which fits the description by the field party and would have held in the plot. Evidently, the sub station was misidentified by field.)

T-9125

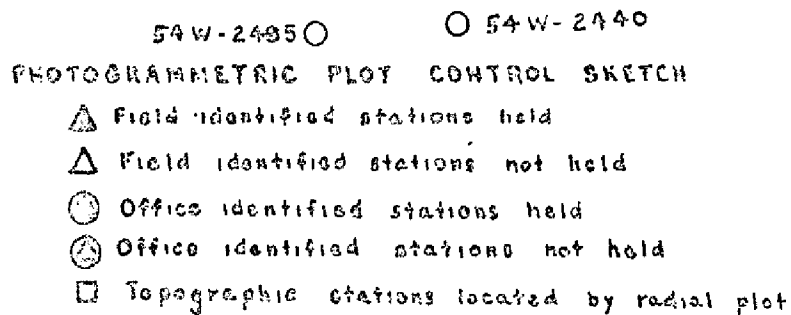
Pear, 1948 Sub. Pt.	Held
Money, 1948	Held
Adam, 1948 Sub. Pt.	Held
Zone, 1948	Held
Quad, 1948	Held (2 radials only)

T-9126

Port Nellie Juan Lt., 1948	Held
Juan, 1917, Sub. Pt.	0.3 mm E
First, 1912, Sub. Pt.	Held

N. of Area to be Mapped

Jello/, 1948	Held (office identification)
Hack, 1948	Held
Gland, 1948 Sub. Pt.	Held (1 radial only)
Said, 1948	Held (1 radial only)
quake, 1948, Sub. Pt.	Held (2 radials)
Mimic, 1948 Sub. Pt.	Held
Lapel, 1948 Sub. Pt.	1.0 mm SE (very doubtful field identification - 3 points pricked on field photograph)
Tiger, 1948 Sub. Pt. A	Held
Sub. Pt. B	Held



NOTE: All stations not dated are 1946

SCALE FACTOR.....1.0..

1 FT. = .3048006 METER	COMPUTED BY: B. Hale	DATE: 6 April 1956	CHECKED BY: D. Carrier	DATE: 7 April 1956	COMM-DC-57843
					11 33

Compilation Report T-9124

31. Delineation.-- The shoreline was delineated by stereoscopic interpretation of office photographs. The features shown were first drawn on a piece of vinylite superimposed on the photograph with the most nearly true scale. Graphic methods were then used to compile and delineate the MHWL and to adjust the planimetry to manuscript scale by holding the compilation points of near-sea-level elevation. Along some areas of the shoreline the projector was used to bring the work sheets to the manuscript scale.

32. Control.-- Control was adequate for compilation purpose. For a discussion of control see photogrammetric plot report which is filed as part of the Descriptive Report for T-9122.

33. and 34 - Inapplicable.

35. Shoreline and alongshore details.-- There was no field inspection to aid in the interpretation of the shoreline features. The areas of low water were generally outlined with the shallow water symbol. Tidal data was applied to interpret the MHW line and to estimate the datum for rocks, reefs, etc.

36. Offshore Details.-- Inapplicable

37. Landmarks and Aids.-- None

38. Control for Future Surveys.-- None

39. Junction.-- This manuscript junctions on the north with T-9122 and on the east with T-9125. On the south and west there are no contemporary surveys.

40. Horizontal and Vertical Accuracy.-- See No. 32 above.

46. Comparison with existing maps.--
Seward (B-4) Alaska, USGS, 1:63,360, 1952
No striking discrepancies.

47. Comparison with Nautical Charts.--
8517 Prince Wm. Sound, (western part) 1:80,000, 1917, Rev. 1950
8551 Prince Wm. Sound, 1:200,000, 1952, Rev. 1952.
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY - NONE
ITEMS TO BE CARRIED FORWARD: Shoreline features are subject to correction by field inspection.

Submitted by:

Everett H. Ramey
Everett H. Ramey, Chief
Graphic Unit

August 28, 1970

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-152 (Alaska)

T-9124

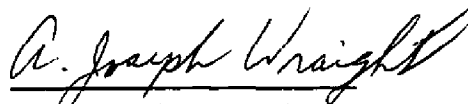
Chugach National Forest

Deep Water Bay

Derickson Bay

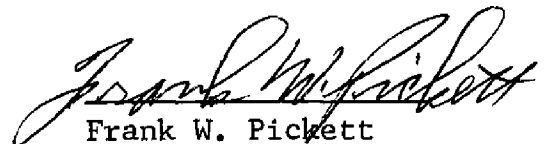
Nellie Juan Glacier

Approved by:



A. Joseph Wraight
Chief Geographer

Prepared by:



Frank W. Pickett
Cartographic Technician

T-9124

49. Notes for the Hydrographer.- The field inspection of shoreline and alongshore features should be accomplished if practicable.

FORM 1002(T-2) PHOTOGRAMMETRIC OFFICE REVIEW

MAP T-9124

PROJECT PH-152

No Form 1002(T-2) was available at the time of final review and none is bound with this Descriptive Report.

FIELD EDIT REPORT

MAP T-9124

PROJECT PH-152

No record of field edit was available at the time of final review; therefore, no Field Edit Report is bound with this Descriptive Report.

REVIEW REPORT T-9124

SHORELINE

OCTOBER 6, 1970

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

No ozalid comparison print was made for this map; no significant differences with other surveys were found.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

No registered topographic surveys were available at the time of final review; no comparison was made.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with U.S.G.S. Quadrangle SEWARD (B-4), ALASKA, scale 1:63,360, dated 1951. Some change in the shoreline where Nellie Juan Glacier meets Derickson Bay was noticed. No other differences were evident.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with Survey H-8594, scale 1:10,000, dated 1961. Apparently T-9124 was the base map for shoreline in the area compared. No discrepancies were noted.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 8517, scale 1:80,000, 9th edition, dated April 28, 1969. No significant differences were noted.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with Job Instructions, Bureau requirements, and the National Standards for Map Accuracy. No accuracy tests were run in the field.

Reviewed by:

Charles H. Bishop

Charles H. Bishop
Cartographer
October 6, 1970

Approved:

Allen L. Powell

Allen L. Powell, RADM, USESSA
Director, Atlantic Marine Center

Approved:

Charles Thamm

Chief, Photogrammetric Branch *db*

Jack E. Luth

Chief, Division of Photogrammetry

NAUTICAL CHARTS BRANCH

SURVEY NO. 9124

Record of Application to Charts

[illegible]

M-2168-1

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.