9119

Original

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE

Field No. ..... Office No. T-9119

LOCALITY

State Alaska

General locality Prince William Sound

Locality West Finger Inlet

19 55 - 59

CHIEF OF PARTY

Office: L. W. Swanson

LIBRARY & ARCHIVES

DATE .....

USCOMM-DC 5087

DATA RECORD

T -9119

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 December 1954
11 February 1955 Supp. 1
14 March 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): 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):

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.

M-2618-12(4)

DATA RECORD

Field Inspection by (II): None Date:

Planetable contouring by (II): None Date:

Completion Surveys by (II): None Date:

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

Identified in office on photographs taken 6 August 1954

Projection and Grids ruled by (IV): A. Riley Date: 12-17-54

Projection and Grids checked by (IV): H.D. Wolfe Date: 1-7-55

Control plotted by (III): B. Hale Date: 6-26-56

Control checked by (III): G.Amburn Date: 6-28-56

Radial Plot or Stereoscopic Control extension by (III): J. Battley - R. Sugden Date: 7-3-56

Stereoscopic Instrument compilation (III): Planimetry Date:

Contours Date:

Manuscript delineated by (III): D. Carrier Date: 7-5-56

Photogrammetric Office Review by (III): Date:

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

M-2618-12(4)

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide (MLLW)
8969	6 August 1955	1410	1:30,000	11.9
8983-4	"	1428	"	11.8
9000-01	"	1434	"	11.8
58 L 5361 thru 5364	7 Aug 1958	12:12	1:30,000	

Tide (III)

Dirnal

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

Reference Station: Cordova, Alaska
Subordinate Station: Culross Bay
Subordinate Station:

Atlantic Marine Center
~~Washington Office~~ Review by (IV): C. H. Bishop Date: 08-14-70

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): 9 miles
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:

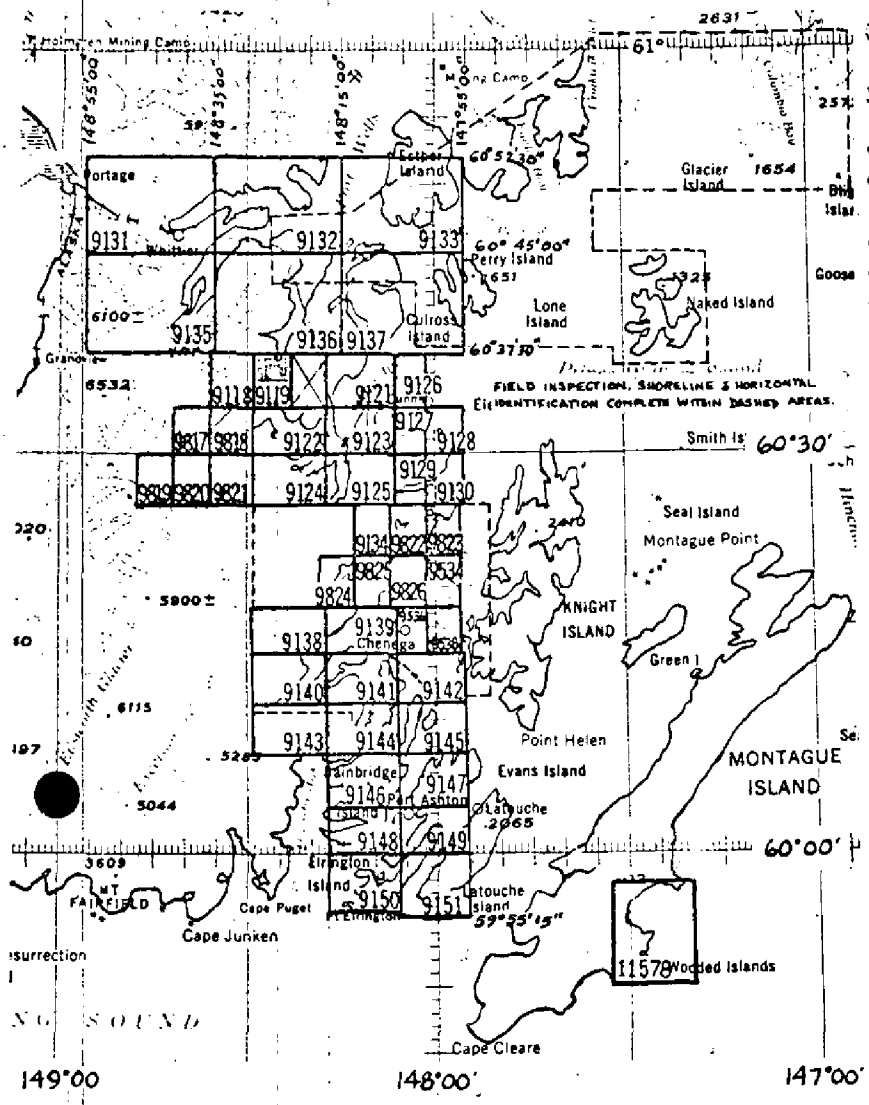
M-2618-12(4)

T - 9119

COMPILATION RECORD	COMPLETION DATE	REMARKS
Preliminary manuscript for hydro-support	July 1956	Superseded
Revised after field inspection, compilation complete; Advance	1959	
Final Review	August 1970	

SHORELINE MAPPING PROJECT PH - 152

Prince William Sound, Alaska



SHEET NO.	OFFICIAL MILEAGE FOR COST ACCOUNT. LIN.MI. SHORELINE	AREA MILES
9118	3	13
9119	9	11
9121	11	10
9122	23	7
9123	17	7
9124	7	5
9125	15	6
9126	5	3
9127	6	3
9128	5	3
9129	7	8
9130	14	6
9131	12	95
9132	48	50
9133	36	45
9134	5	11
9135	24	90
9136	26	85
9137	68	48
9138	10	7
9139	13	5
9140	12	8
9141	24	12
9142	10	3
9143	9	4
9144	26	9
9145	19	8
9146	18	8
9147	24	9
9148	25	9
9149	19	7
9150	24	8
9151	15	9
9534	6	4
9536	6	6
9538	4	1
9817	9	10
9818	11	6
9819	3	9
9820	7	5
9821	2	10
9822	9	9
9823	7	4
9824	9	10
9825	11	6
9826	10	8
11578	19	21
TOTALS	702	726

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-9119

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

This shoreline manuscript, scale 1:10,000, is one of 43 sheets that comprise Project PH-152, which is located in the western part of Prince William Sound, Alaska. T-9119 includes the northeast corner of Kings Bay, West Finger Inlet, and the south end of Cochrane Bay.

Manuscript T-9119 was originally compiled as "Preliminary," using single-lens panchromatic photographs taken in 1954. Photo-hydro support was furnished the hydrographer in 1959, a new plot was run (August 1959), field edit applied, and the classification changed to "Advance."

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

The compilation manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 5 minutes 37.5 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-9119

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 Port 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 1948) 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.

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

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

LIST OF CONTROL

T-9119

Vain, 1922		1.5 SE

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

Unite, 1942		Held (Office identified only)

T-9121

Silt, 1948		Held
Nell, 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

T-9123 (continued)

Tart, 1948	Held
McClure W. Gable, 1948	Held
Valor, 1948 Sub. Pt.	0.3 mm N
Waltz, 1948 Sub. Pt.	Held

T-9124

Dill (USE), 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)

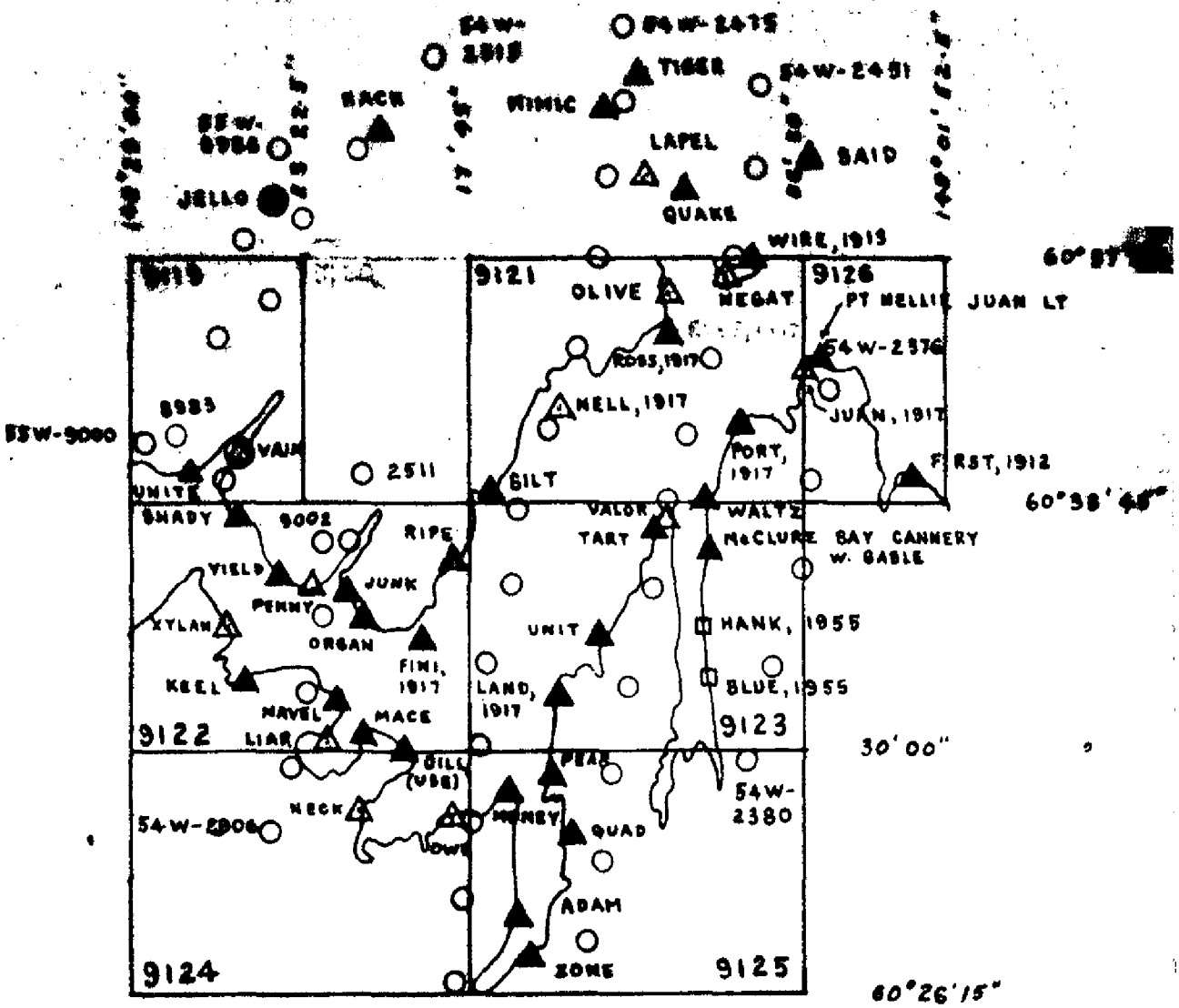
T-9126

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

PRINCE WILLIAN SOUND



54W-2465 ○ ○ 54W-2440

PHOTOGRAMMETRIC PLOT CONTROL SKETCH

▲ Field identified stations held

△ Field identified stations not held

◉ Office identified stations held

◬ Office identified stations not held

□ Topographic stations located by radial plot

NOTE: All stations not dated are 1948

ORM 164
4-23-54)

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT

COAST AND GEODETIC SURVEY
CONTROL RECORD

MAP T- 9119 PROJECT NO. PH-152 SCALE OF MAP 1:10,000 SCALE FACTOR

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 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)
* IDEA 1948	VI p 31	NA 1927	60 37 38.778		1857.1	1200.2	656.9		
			148 24 49.776		912.4	756.9	155.5		
Peak No. 91,1948	VI p 81	"	60 36 28.06		1857.1	868.5	988.6		
			148 28 00.36		912.9	5.5	907.4		
Peak No. 92,1948	VI p 81	"	60 36 02.39		1857.1	74.0	1793.1		
			148 27 14.92		913.1	227.1	686.0		
VAIN, 1948	VI p 42	"	60 34 07.030		1857.1	217.6	1639.5		
			148 26 06.724		914.0	102.4	811.6		
UNITE, 1948	VI p 37	"	60 34 15.246		1857.1	471.9	1385.2		
			148 28 13.529		914.0	206.1	707.9		
THERE (USE) 1942	VI p 347	"	60 37 11.024		1857.1	341.2	1515.9		
			148 23 30.774		912.6	468.1	444.5		
UNITE Sub Pt 1948		"	60 34		1857.1	461.6	1395.5		
			148 28		914.0	200.0	714.0		

* Not within the limits of this survey.

1 FT. = .3048006 METER

COMPUTED BY: R. Sugden / Th Kwiecki DATE 1/9/59 / 5/3/59

CHECKED BY: R. Kelly DATE 1/14/57

COMM-DC-57843

T 3

Compilation Report (Preliminary)
T-9119

This manuscript is classified as "Preliminary", as it has been prepared without prior field identification of control or field inspection. The manuscript will be completely recompiled after receipt of field identification of control and field inspection data.

31. Delineation:

Shoreline and foreshore features were delineated from stereoscopic interpretation using office photographs at 1:10,000 scale. Graphic methods were used to compile the shoreline and alongshore features on the manuscript by holding compilation points of near-sea-level elevation.

Due to the condition where shoreline was obstructed on the photographs by overhang of alongshore treas and bluff and by shadows, segments of the shoreline were shown as approximate (dashed on the manuscript).

32. Control:

See Photogrammetric Plot Report which is filed as part of Descriptive Report T-9121.

33. Supplemental Data: None

34. Contour and Drainage: Not applicable.

35. Shoreline and alongshore details:

There was no field inspection. The shoreline delineation was prepared from office photographs using stereoscopic interpretation. Approximate shallow limits were detailed where they would be critical for hydrography. No attempt was made to show the mean lower-low-water line.

36. Offshore Details: None

37. Landmarks and Aids: None

38. Control for Future Surveys: None

39. Junctions

North: T-9136; South: T-9122; East and West: No contemporary surveys.

40. Horizontal and Vertical Accuracy:

The compilation is based on sparse office-identified control and is subject to correction by field inspection.

46. Comparison with existing maps:

Seward (C-4) Scale 1:63,360, Alaska

47. Comparison with Nautical Charts:

The manuscript was compared with Nautical Chart No. 8551, scale 1:200,000, published in 1909, corrected May 1952.

Items to be applied to Nautical Charts immediately: None

Items to be carried forward: Entire map to be verified by field inspection.

Submitted by:

Everett H. Ramey for D.D.C.

Donald D. Carrier

Approved by:

Everett H. Ramey

Everett H. Ramey, Chief,
Graphic Compilation Unit

COMPILATION REPORT
T-9118 & T-9119 (Advance)
September 1959

Preliminary manuscripts based on an office-controlled plot of the Kings Bay area were completed in February 1959. Vinylite copies of these were furnished to the field party for the purpose of establishing photo-hydro control positions.

The additional field-identified control and shoreline inspection of the 1959 season were used for the re-laying of the plot and compilation of the advance manuscripts. The new plot resulted in only minor changes in positions. The preliminary manuscripts were then revised holding to the newly-established positions.

31. Delineation

The 1:10,000 scale manuscripts were compiled by graphic methods, shoreline being delineated stereoscopically from 1:10,000 single-lens photographs and 1:20,000 nine-lens photographs. Field inspection was done on infrared photographs on which detail was greatly obscured by shadow and lack of tone. Because of this the shoreline and low-water line delineated by the field party was poor and was not used for some areas. Field inspection covering these manuscripts is on photos 58-L-5361 thru 58-L-5364, nine-lens - 56140.

Manuscript T-9119 was originally compiled with single-lens panchromatic photographs of 1954 series and was revised to advance form by applying the 1959 field inspection. The limit of photo-hydro control on the west shore ended on T-9117.

32. Control

Control was adequate as regards to identification, density and placement. (See radial plot report filed as part of this Descriptive Report.) There was no datum shift on either manuscript. Manuscript T-9119 was initially compiled in conjunction with a plot to the east comprising sheets plus T-9119 and T-9121 thru T-9126.

33. Supplemental Data

None.

34. Contours and Drainage

Inapplicable.

35. Shoreline and Alongshore Features

With the additional photo coverage and field inspection, the MHWL and LWL were completed in final form. Generally, the low water line outlined on the field photos was followed. As these photos were flown at about 4 feet above MLLW tide, this line must be very approximate.

36. Offshore Details

Inapplicable.

37. Landmarks and Aids

Inapplicable.

38. Control for Future Surveys

Photo-hydro control ended with Station ABE on T-9117.

39. Junctions

Junctions were effected with adjoining manuscripts.

40. Horizontal and Vertical Control

Vertical control inapplicable. Horizontal control - see #32.

41. through 45.

Inapplicable.

46. Comparison with Existing Maps

Seward (C-4) & Seward (C-5) Alaska, Scale 1:63,360, dated 1952. No significant differences noted.

47. Comparison with Nautical Charts

US C&GS Chart #8517, Scale 1:80,000 - January 1952. No differences evident.

Items to be applied to nautical charts immediately: None.

(Con't of 47)

Items to be carried forward: None.

SUBMITTED BY:

Robert L. Sugden

Robert L. Sugden

APPROVED:

Everett H. Ramey

Everett H. Ramey
Chief, Graphic Unit
Photogrammetry Division

August 28, 1970

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-152 (Alaska)

T-9118

Chugach National Forest

Kings Bay

West Finger Inlet

Cochrane Bay

Approved by:

A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Cartographic Technician

KINGS BAY
Surveys T-9118, T-9119, T-9817 through T-9821

NOTES TO THE HYDROGRAPHER

The manuscripts of the Kings Bay area were corrected to datum as established by the plot of August 1959 and positions of all photo-hydro stations were relocated to this datum. As the final plot resulted in some shift in pass point positions, local differences occur between some of the field-established photo-hydro positions and those on the final manuscript.

Those stations with significantly different positions are:

CAB - T-9817
PAT - T-9820
LUX - T-9820

Photo-hydro Station RAT on manuscript T-9820 is listed as "Out" on the field photo.

Photo-hydro control ends on manuscripts T-9118 and T-9818.

The manuscripts which are subject to a final office review show new positions for photo-hydro stations and the shoreline as field inspected in 1959. They with accompanying vinylite impressions of preliminary manuscripts should suffice for the completion of the hydrographic surveys.

The low-water line shown on the manuscripts was identified in the field on infrared photographs which were taken at 4 feet above low water. The line is thus very approximate.

Everett H. Nancy
Chief, Graphic Unit
Photogrammetry Division

FORM 1002(T-2) PHOTOGRAMMETRIC OFFICE REVIEW

MAP T-9119

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- 9119

PROJECT PH-152

Field edit was accomplished in 1959 in advance of revision of this map. At the time of final review, no Field Edit Report was available and none is bound with this Descriptive Report.

REVIEW REPORT T-9119

SHORELINE

AUGUST 14, 1970

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

An ozalid comparison print (pages 24 through 26), with differences noted in Items 64 and 65, is included with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

No registered topographic surveys were available for comparison.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with U.S.G.S. Quadrangle SEWARD (C-4), ALASKA, scale 1:63,360, dated 1952. Because of scale difference, shoreline on the U.S.G.S. map is generalized. No other discrepancies were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with an unverified copy of H-8593, scale 1:10,000, dated 1961. Differences between this survey and T-9119 are shown with purple pencil on the comparison print.

The shape of the shoreline is generally the same, but there is some shift in position. The maximum difference is approximately 1.5 mm near the head of West Finger Inlet. Apparently the shoreline indicated on H-8593 in this area is approximate.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 8517, scale 1:80,000, 9th edition, dated April 28, 1969. Differences between this chart and T-9119 are shown in red on the comparison print.

Two bare rocks indicated on Chart 8517 in the vicinity of latitude 60°34.2', longitude 148°26.8' are not visible on the photographs of the area.

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
August 14, 1970

Approved:

Allen L. Powell

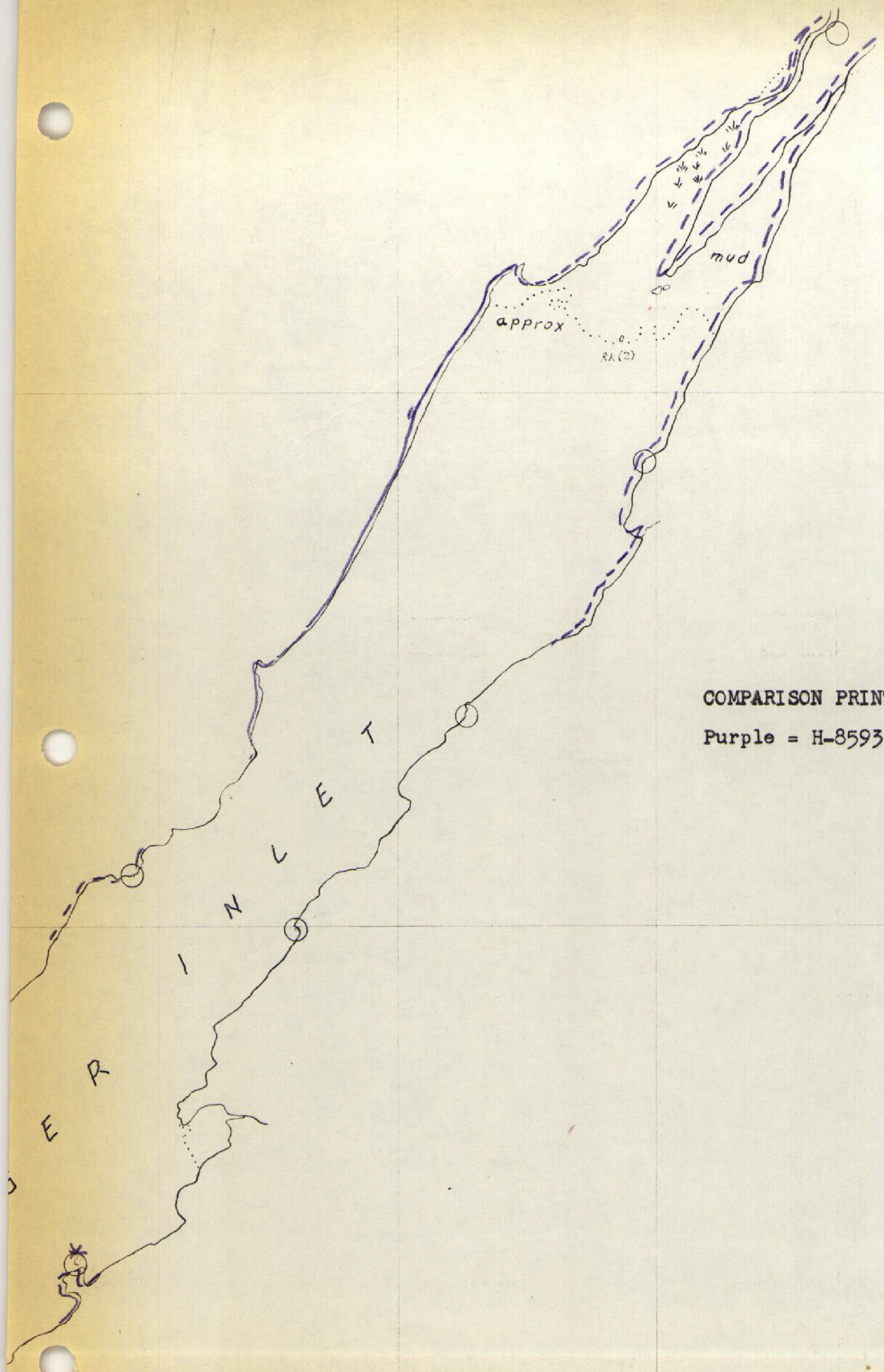
Allen L. Powell, RADM, USESSA
Director, Atlantic Marine Center

Approved:

Chief,
Photogrammetric Branch

Chief,
Photogrammetry Division

NO CONTEMORARY SURVEY



COMPARISON PRINT

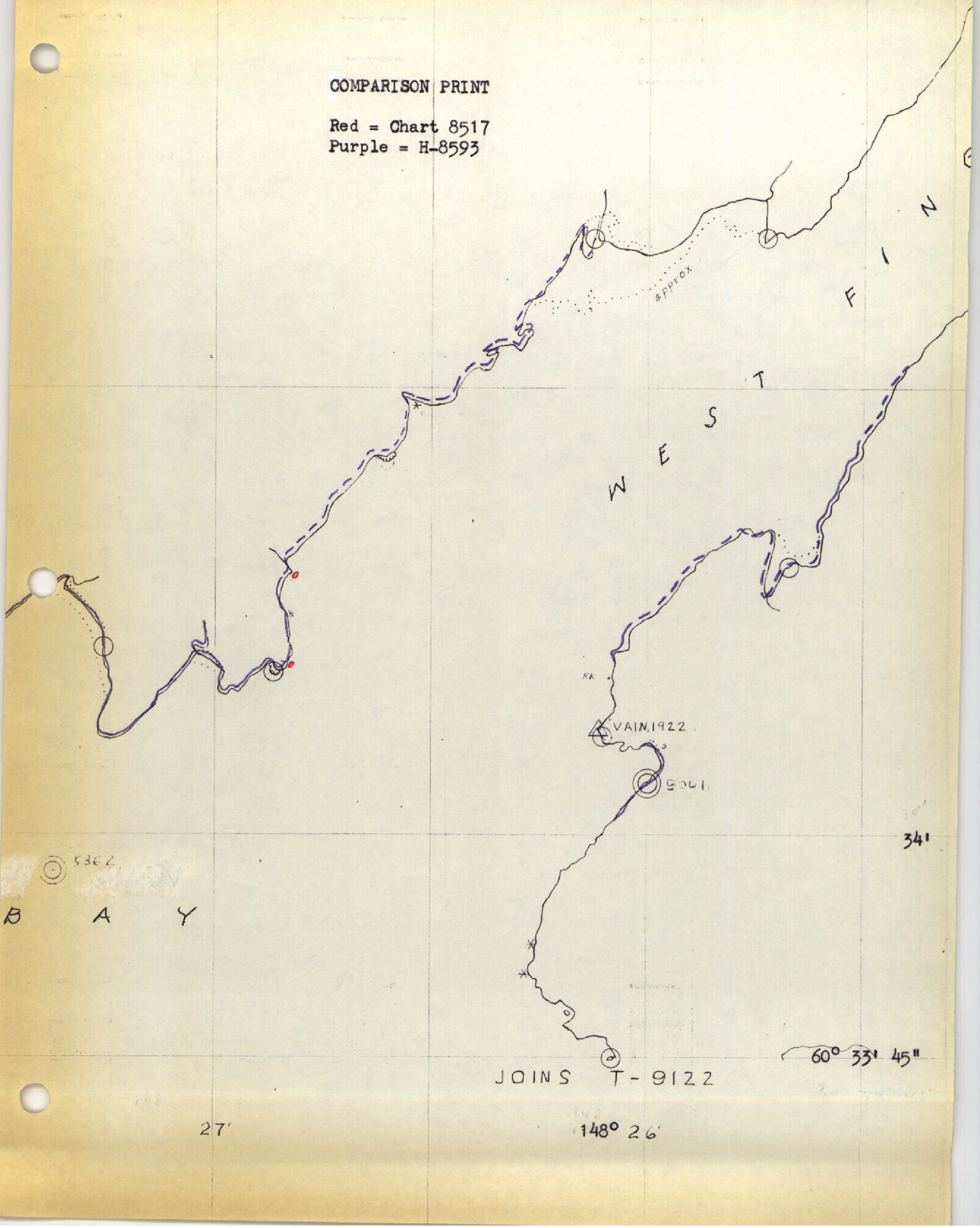
Purple = H-8593

60° 35' 00"

148° 24'

COMPARISON PRINT

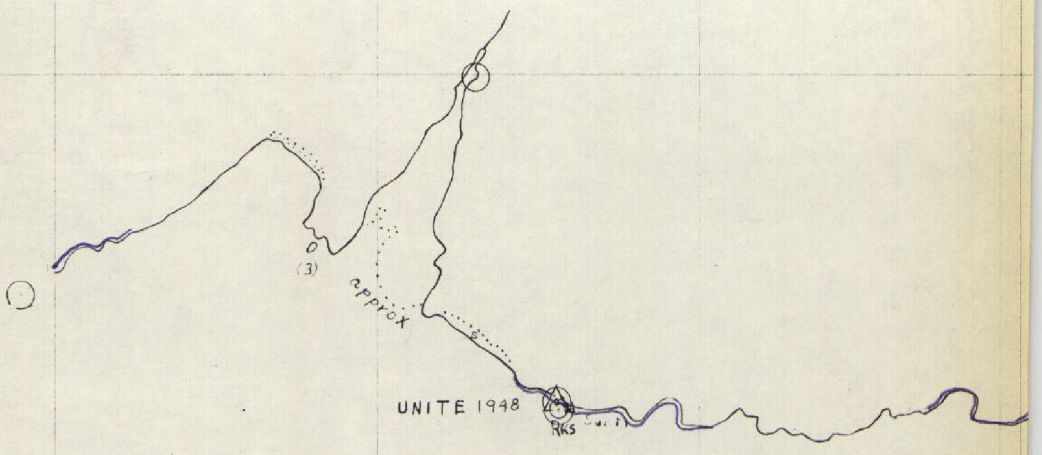
Red = Chart 8517
Purple = H-8593



3000

COMPARISON PRINT

Purple = H-8593



34'

34'

K I N G S

y=6,715,000m

60°33'45

60° 33' 45"

148° 29'00"

148° 28'

6,719,000 m

NAUTICAL CHARTS BRANCH

SURVEY NO. 9119

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
9-4-58	8517	R.E. Elkins	(Preliminary ~~Incomplete~~ manuscript) Before ~~After Verification and~~ Review
			Examined - no revisions.
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

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.