

T-12462

ORIGINAL

T-12462

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Shoreline

Type of Survey

Job No. Ph-6909 Map No. T-12462

Classification No. Final Edition No.1.....

Field Edited Map

LOCALITY

State Alaska

General Locality Summer Strait

Locality Mitchell Point

19 69 TO 1975

REGISTRY IN ARCHIVES

DATE

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

T-12462

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "E" & "K"		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				ZONE Pacific	<input checked="" type="checkbox"/> STANDARD
				MERIDIAN 120th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
69E(C) 1017 & 1018	8/5/69	13:11	1:30,000	4.5 ft. above MLLW	
69E(C) 1026 & 1027	8/5/69	13:28	1:30,000	4.6 ft. above MLLW	
69K(I) 3737-3739	7/18/69	10:20	1:20,000	0.5 ft. below MLLW	

REMARKS

Subord. Sta: Level Islands, Sumner Strait, AK-Mean Range 12.6 Ft

2. SOURCE OF MEAN HIGH-WATER LINE:

From the above list of photographs augmented by field notes.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

From the above list of photographs augmented by field notes.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH No survey	EAST T-12463	SOUTH No survey	WEST T-13342
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REMARKS

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

T-12462

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Moses	Jun 1969
2. HORIZONTAL CONTROL	RECOVERED BY: None	
	ESTABLISHED BY: None	
	PRE-MARKED OR IDENTIFIED BY: None	
3. VERTICAL CONTROL	RECOVERED BY: NA	
	ESTABLISHED BY: NA	
	PRE-MARKED OR IDENTIFIED BY: NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY: None	
	LOCATED (Field Methods) BY: None	
	IDENTIFIED BY: None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY: None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY: NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER

STATION NAME

PHOTO NUMBER

STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER

OBJECT NAME

PHOTO NUMBER

OBJECT NAME

5. GEOGRAPHIC NAMES:

☐ REPORT☒ NONE

6. BOUNDARY AND LIMITS:

☐ REPORT☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

None

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-12462
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	G. Saladin	Jul/Aug '71
2. HORIZONTAL CONTROL	RECOVERED BY none ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY None	
3. VERTICAL CONTROL	RECOVERED BY NA ESTABLISHED BY NA PRE-MARKED OR IDENTIFIED BY NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None LOCATED (Field Methods) BY None IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input checked="" type="checkbox"/> SPECIFIC NAMES ONLY BY G. Saladin <input type="checkbox"/> NO INVESTIGATION	Jul/Aug 1971
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY G. Miller & H. Herz	Jul/Aug '71
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED None		2. VERTICAL CONTROL IDENTIFIED NA	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

69E(C) 1026, 1027 and 69K(I) 3736, 3738

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

_____ 1 field edit report

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-12462
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	M. Fleming	Sep 1975
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	NA NA NA
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None None None
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	D. Tennesen Sep 1975
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

69K(I) 3739

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

1-Field Edit Report

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONT-12462
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	Feb 1971	Class III manuscript	3/30/71	2/24/71
Partial field edit applied	Jul 1974	Class III manuscript		8/8/74
Remainder of field edit applied	Nov 1975	Class I manuscript	3/16/76	
Final Review	Sept 1979	Final	4-4-80	

II. LANDMARKS AND AIDS TO NAVIGATION None

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

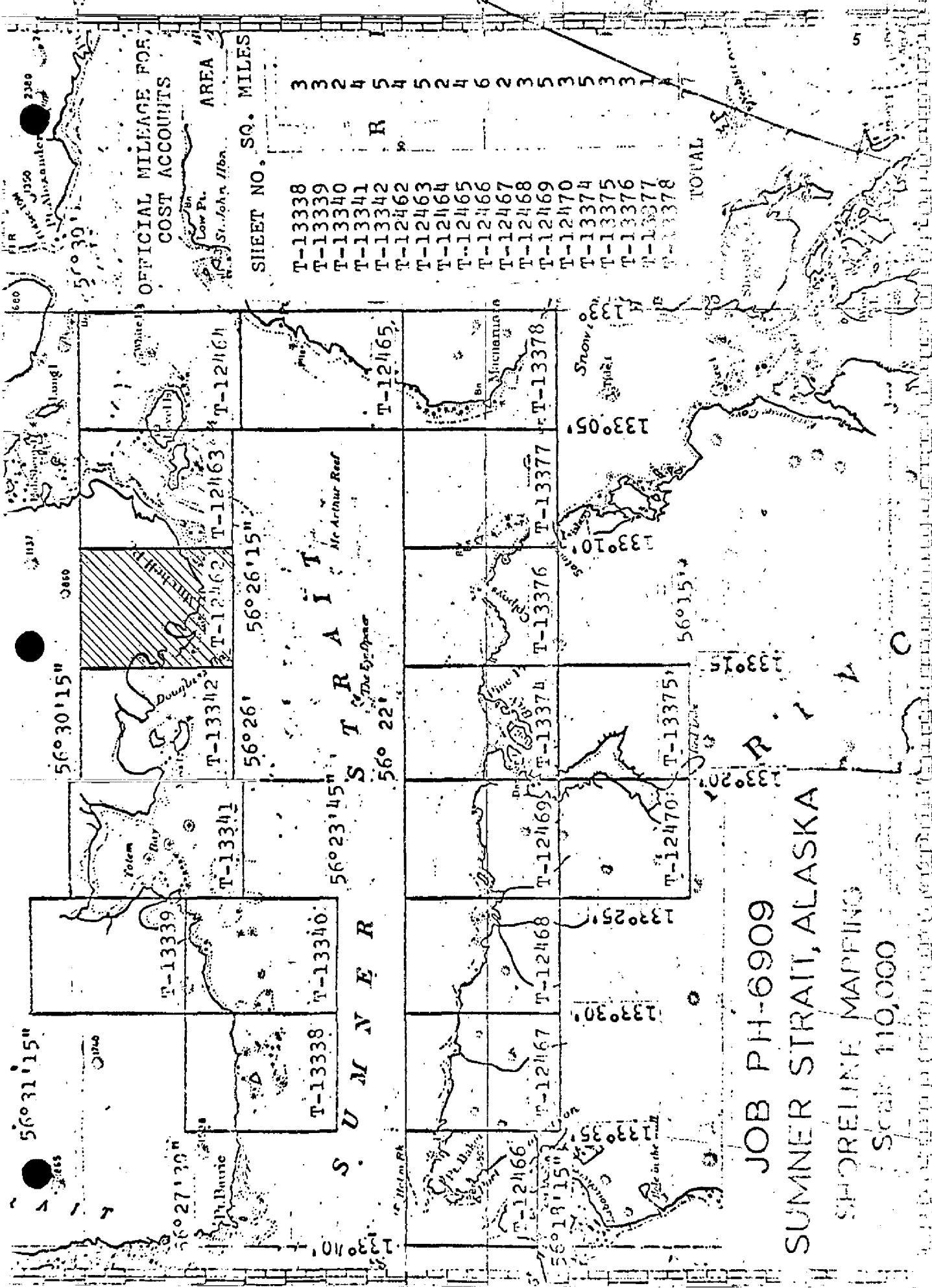
III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
 2. ☐ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
 3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
 ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	



OFFICIAL MILEAGE FOR
 COST ACCOUNTS

AREA
 Low Pt.
 St. John / Bn

SHEET NO. SQ. MILES

T-13338	3
T-13339	3
T-13340	2
T-13341	4
T-13342	5
T-12462	4
T-12463	5
T-12464	2
T-12465	4
T-12466	6
T-12467	2
T-12468	3
T-12469	5
T-12470	3
T-13374	5
T-13375	3
T-13376	3
T-13377	3
T-13378	1

TOTAL

S U M M E R

S T R A I T

SUMMARY TO ACCOMPANY T-12462 THRU T-12470.
T-13338 Thru T-13342 and T-13374 Thru T-13378.

This summary covers Project PH-6909 consisting of nineteen standard shoreline maps covering the area of Sumner Strait. The purpose of this job was to provide support for hydrographic operations conducted in the area during the 1971 and 1972 field seasons. Each map is 1:10,000 scale.

Photography of the area was flown during the summer of 1969. Flights of 1:60,000 and 1:30,000 scale color photography were flown for use in aerotriangulation and stereo instrument compilation. Tandem flights of 1:20,000 scale color and black and white infrared were used to supplement the instrument compilation photography.

There was no field inspection. Prior to compilation field work consisted of the recovery and identification of horizontal control for bridging which was conducted at the Rockville Office in April, 1970, by analytic methods.

All maps were compiled at the Atlantic Marine Center with the Wild B-8 stereoplotter. Shingle Island on T-13341 and Vichnefski Rock and White Rock on T-12464 were compiled graphically using control established in the bridge supplemented by control established in B-8 stereo models.

Field Edit was done for all maps in summer of 1971. Much of that data for the seven easternmost maps, T-12462 - T-12465 and T-13376 T-13378 was lost.

These maps were re-edited in the summer of 1975. Edit was applied to all maps at the Atlantic Marine Center.

Final review was performed at the Atlantic Marine Center. All pertinent data was forwarded to ^{the} Rockville, Maryland, office for reproduction and final registration.

FIELD INSPECTION

TP-12462

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.

-2-

25. Photography

Photography was adequate as to coverage, overlap and definition.

Submitted by,


Robert B. Kelly

Approved and forwarded,



Henry P. Eichert
Chief, Aerotriangulation
Section

8

Aerotriangulation Report
PH-6909
Sumner Strait, Alaska

April 29, 1970

21. Area Covered

This report covers T sheets 12462 through 12470, T sheets 13338 through 13342 and T sheets 13374 through 13378 of Sumner Strait, Alaska, at 1:10,000 scale.

22. Method

Three strips of 1:60,000 scale color photography were bridged by analytical methods to provide horizontal control, compilation and ratio points for 1:30,000 scale photography. The attached sketch of the strips bridged shows the placement of triangulation used in the strip adjustment. A list of closures to control is part of this report. Positions of all compilation points (i.e. 900 points) and control stations have been plotted on the manuscripts by the Coradi, on the Alaska Zone 1 plane coordinate system.

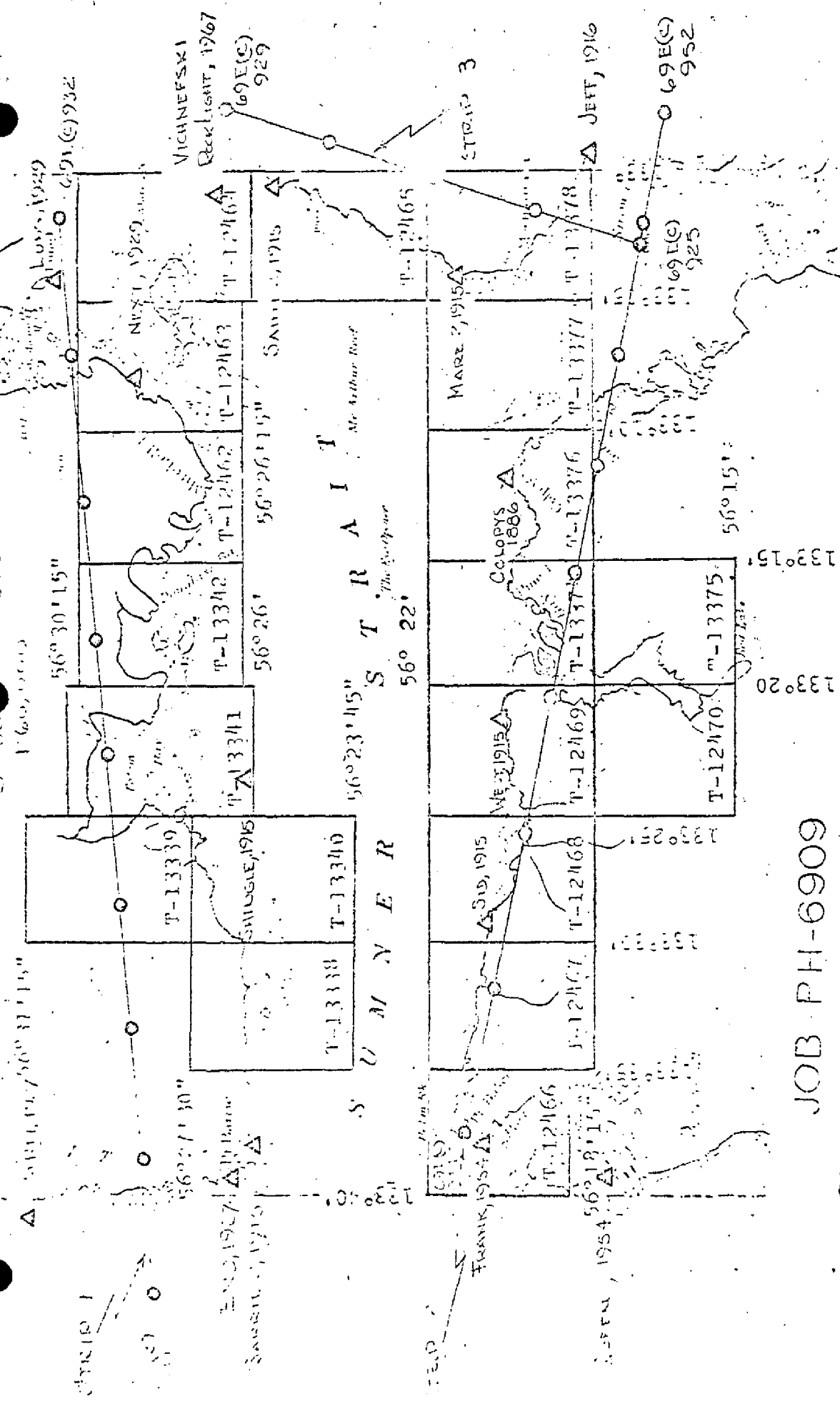
23. Adequacy of Control

The horizontal control provided was adequate except for SPIT, 1927. The strip adjustment showed an error of -15 feet in the x direction. The adjacent project Keku Strait, Alaska, PH-6206 which used SPIT, 1927, also showed an error of -15 feet in the x direction. The reason for not obtaining a better closure is not known. Six tie points were used to augment datum tie between strip 1 of Sumner Strait and strips 1 and 11 of Keku Strait. Tie points were averaged between the three strips.

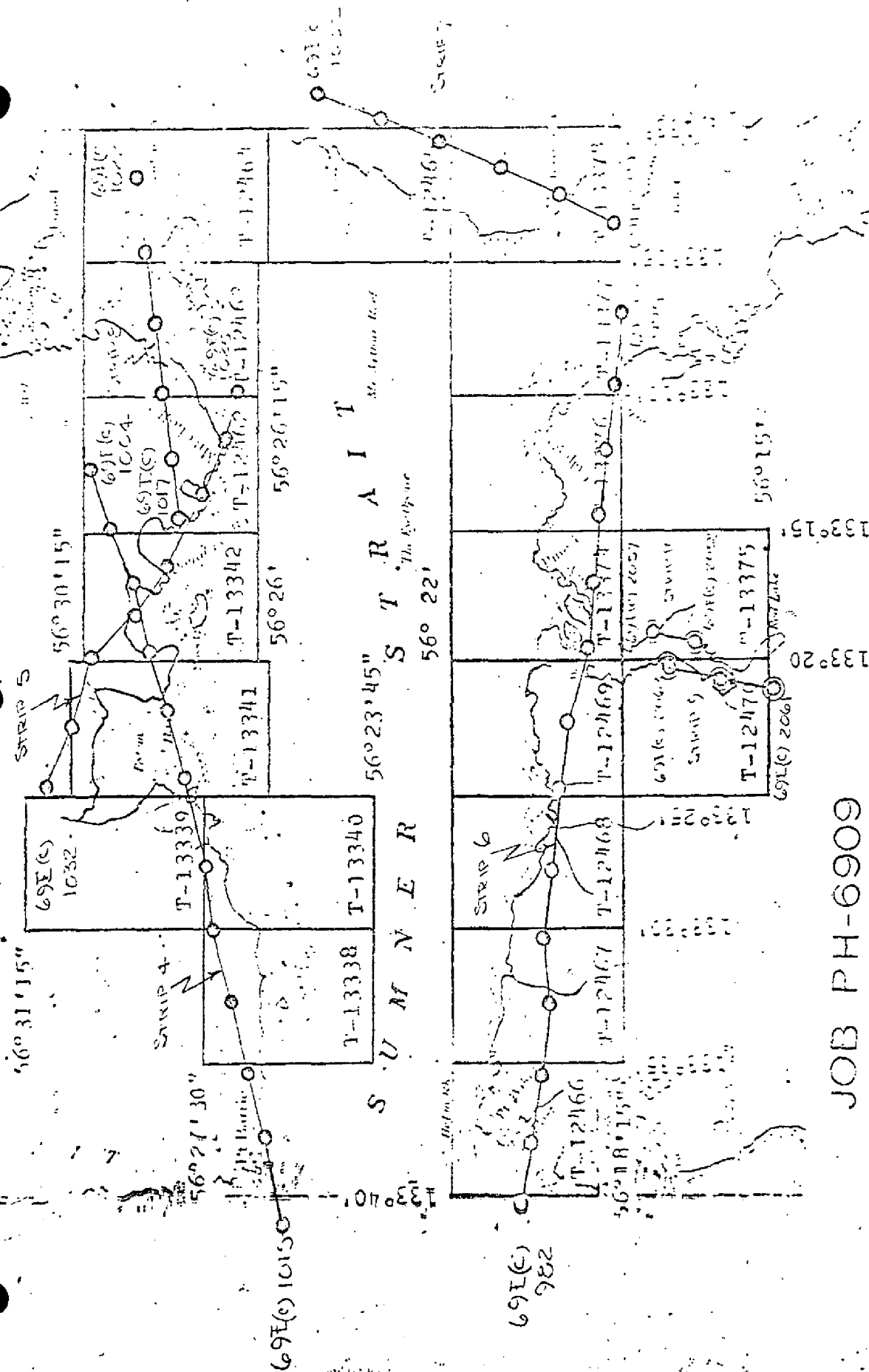
All other control held well within the accuracy required by National Standards of Map Accuracy at 1:10,000 scale.

24. Supplemental Data

U. S. Geological Survey quadrangles were used to provide elevations for vertical adjustment of the bridges.



JOB PH-6909
SUMMER STRAIT, ALASKA
CHORELINE MAPPING
Scale 1:10,000



JOB PH-6909

SUMNER STRAIT, ALASKA

ONLINE JOURNAL

0000011

LEGEND

- Δ CONTROL USED IN ADJUSTMENT
 () CLOSURES OF BRIDGE TO CONTROL SHOWN
 IN PARENTHESES
 Δ CONTROL USED AS CHECK.

STRIP 1

- Δ LUNG, 1929 $(-0.9, +1.1)$ Fx
 Δ NEST, 1929 $(+1.0, -1.9)$
 Δ SWINGE, 1915 $(0.0, +1.0)$
 Δ BARRIE 2, 1915 $(+0.9, -3.3)$
 Δ END, 1927 $(+0.3, -0.4)$

STRIP 2

- Δ FRANK, 1934 $(0.0, -0.5)$
 Δ QUEEN, 1934 $(-0.5, +1.0)$
 Δ SID, 1915 $(+0.1, +0.5)$
 Δ WEST, 1915 $(-0.5, +0.5)$
 Δ COLBOYE, 1886 $(+0.2, -1.4)$
 Δ JEFF, 1916 $(-0.5, +0.4)$

STRIP 3

- Δ JEFF, 1916 $(0.0, +0.3)$
 Δ MARZ 2, 1915 $(-0.7, -0.3)$
 Δ SAUT 2, 1915 $(+2.1, +0.4)$
 Δ VANDERKIL ROCK LT, 1967 $(-1.6, -0.6)$

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETTIC DATUM		COORDINATES IN FEET		GEOGRAPHIC POSITION		ORIGINATING ACTIVITY	
T-12462	PH-6909	NA 1927		STATE _____ ZONE _____		ϕ LATITUDE λ LONGITUDE		Division, Norfolk, Va.	
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	X=		ϕ 56 26 39.927	REMARKS		FORWARD BACK	
MITCHELL 2, 1915			Y=		λ 133 12 34.694	1235.0		620.9	
			X=		ϕ	594.4		433.5	
			Y=		λ				
			X=		ϕ				
			Y=		λ				
			X=		ϕ				
			Y=		λ				
			X=		ϕ				
			Y=		λ				
			X=		ϕ				
			Y=		λ				
			X=		ϕ				
			Y=		λ				
			X=		ϕ				
			Y=		λ				
			X=		ϕ				
			Y=		λ				
			X=		ϕ				
			Y=		λ				
COMPUTED BY	A. C. Rauck, Jr.	DATE	COMPUTATION CHECKED BY		C. E. Blood		DATE		10/5/70
LISTED BY		DATE	LISTING CHECKED BY				DATE		
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY				DATE		

COMPILATION REPORT

T-12462

SHORELINE

31. DELINEATION:

The Wild B-8 stereoplotter was used. Photographs taken with 4.5 feet of water above the mean lower low water were set.

Infrared and tandem color photography of 18 July 1969, taken at -0.5 ft. was used to graphically delineate the mean lower low water line and other alongshore and offshore features.

32. CONTROL:

See Photogrammetric Plot Report, dated April 29, 1970.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable.

Drainage was delineated from office interpretation.

35. SHORELINE AND ALONGSHORE DETAILS:

The MHW Line was delineated with the B-8 stereo plotter using 1:30,000 scale photography taken at 4.5 ft. above MLLW. The foreshore and MLLW line were delineated from infrared photographs, supplemented by color photographs. Both sets of photographs were taken simultaneously, 0.5 ft. below MLLW.

36. OFFSHORE DETAILS:

Photographs were of sufficient scale and quality to enable the complete delineation of all offshore features within the map area.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

A satisfactory junction was made with T-13342 to the west and T-12463 to the east. There are no contemporary surveys to the north nor to the south.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

45. COMPARISON WITH PREVIOUS BUREAU SURVEYS:

A comparison was made with register no. 1749, scale 1:80,000, dated 1886, verified March 10, 1887, and 5017, scale 1:20,000 dated July-Sept. 1929.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with USGS Quadrangle PETERSBURG (B-4), scale 1:63,360, dated 1949 with minor revisions in 1964.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with chart 8201, scale 1:217,828, 15th edition, dated November 15, 1969 and chart no. 8160, scale 1:80,000, dated July 1970.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

C. E. Blood

C. E. Blood
Cartographic Tech.
February 18, 1971

Approved:

Albert C. Rauck, Jr.

Albert C. Rauck, Jr.
Chief, Coastal Mapping Section

October 26, 1970

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6909 (Alaska)

T-12462

- ✓ Kupreanof Island
- ✓ Mitchell Point
- ✓ Sumner Strait

Approved by:

A. Joseph Wraight

A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett

Frank W. Pickett
Cartographic Technician

NOAA FORM 75-74 (7-75)		U.S. DEPARTMENT OF COMMERCE NOAA NATIONAL OCEAN SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW			
TP - 12462			
1. PROJECTION AND GRIDS RJP	2. TITLE RJP	3. MANUSCRIPT NUMBERS RJP	4. MANUSCRIPT SIZE RJP
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY RJP	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA		7. PHOTO HYDRO STATIONS NA
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES FG	10. PHOTOGRAMMETRIC PLOT REPORT RJP	11. DETAIL POINTS RJP
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE RJP	13. LOW-WATER LINE RJP	14. ROCKS, SHOALS, ETC. RJP	15. BRIDGES RJP
16. AIDS TO NAVIGATION FG	17. LANDMARKS FG	18. OTHER ALONGSHORE PHYSICAL FEATURES RJP	19. OTHER ALONGSHORE CULTURAL FEATURES RJP
PHYSICAL FEATURES			
20. WATER FEATURES RJP		21. NATURAL GROUND COVER NA	22. PLANETABLE CONTOURS NA
23. STEREOSCOPIC INSTRUMENT CONTOURS NA	24. CONTOURS IN GENERAL NA	25. SPOT ELEVATIONS NA	26. OTHER PHYSICAL FEATURES RJP
CULTURAL FEATURES			
27. ROADS RJP	28. BUILDINGS RJP	29. RAILROADS RJP	30. OTHER CULTURAL FEATURES RJP
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES RJP		34. JUNCTIONS RJP	35. LEGIBILITY OF THE MANUSCRIPT RJP
36. DISCREPANCY OVERLAY RJP	37. DESCRIPTIVE REPORT RJP	38. FIELD INSPECTION PHOTOGRAPHS NA	39. FORMS RJP
40. REVIEWER <i>Albert C. Rauck Jr.</i> R. J. Pate 2/22/71		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck Jr.</i> A. C. Rauck jr.	
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 <i>I. Perkins</i> 7/10/71 Reviewer: F. R. Gustafson 7/74 <i>Albert C. Rauck Jr. FOR</i>		SUPERVISOR <i>Albert C. Rauck Jr.</i> Albert C. Rauck, Jr.	
43. REMARKS Field Edit applied from: REFER to Forms 76-36C, Items 3, 7 and 8			

FIELD EDIT REPORT

SUMNER STRAIT

SOUTHEAST ALASKA

OPR-448

APRIL-SEPTEMBER 1971

INTRODUCTION

Field edit reports are attached for the following maps:

T-12462	✓ Mitchell Point
T-12463	Little Level Island
T-12464	Big Level Island
T-12465	Point St. John
T-12466	Port Protection
T-12467	Flicker Creek
T-12468	Buster Bay
T-12469	Mud Creek
T-12470	Red Bay (West)
T-13338	Yellow Island
T-13339	Little Totem Bay
T-13340	Totem Bay
T-13341	Shingle Island
T-13342	Moss Island
T-13374	Bell Island
T-13375	Red Bay (East)
T-13376	Point Colpoys
T-13377	Rockery Islands
T-13378	Macnamara Point

Field photographs and copies of the field edit ozalids were taken into the field. The mean high water line was verified by visual inspection of the shoreline and ozalids in the field. Isolated rocks, high points of ledges, ledge limits and some shoreline were located by three-point sextant fixes with check angles. Fixes were plotted on boatsheets:

DA-10-3-71	DA-10-7-71
DA-10-4-71	DA-10-8-71
DA-10-5-71	DA-10-9-71
DA-10-6-71	DA-5-1-71

Comparisons were made between boatsheets and ozalids.

Notes have been made on the appropriate photographs and have been cross referenced on the Field Edit Ozalids by photograph number. All times are based on 105°W meridian. Individual reports by manuscript are attached. Either processed or field photographs were used for notes as indicated in the individual reports.

ADEQUACY OF COMPILATION

The photographic coverage of the area was excellent. Compilation was excellent with the few exceptions as noted on individual sheets. Unfortunately, photographic and manuscript coverage was not available for Kak Sheets Bay north of the Level Islands. Shoreline on the northern section of boatsheet DA-10-9-71 (H9221) will have to be edited when manuscripts are available.

TIDE NOTES

The following tide stations were used for hydrography in the Sumner Strait area:

Pt. Baker
Red Bay

Totem Bay
Level Island

AIDS TO NAVIGATION

Non-floating Aids to Navigation within the area were located and are covered in a report titled "Non-floating and Floating Aids to Navigation OPR-448 - Sumner Strait, Southeast Alaska 1971." A copy of the above report is included in the appendix.

Respectfully submitted,

Howard W. Herz
Howard W. Herz
LTJG. NOAA

Approved,

Gelald C. Saladin
CDR. NOAA
Commanding Officer
NOAA Ship DAVIDSON

FIELD EDIT REPORT

MAP T-12462

SUMNER STRAIT - MITCHELL POINT

SOUTHEAST ALASKA

JULY-AUGUST 1971

The field edit of map T-12462 was done by LTJG. Gregory L. Miller and LTJG. Howard W. Herz on July 18, August 5 and August 30, 1971. Inspection was made with a small boat and on foot.

METHOD

Field photographs and a copy of the field ozalid were taken into the field. The MHWL was visually inspected with special attention given to areas in question on the ozalid. Changes to the MHWL and ledge limits have been delineated on the processed photographs. High points of rocks and ledges have been noted on the ozalid and photographs. All times given are 105°W meridian. All changes delineated on the photographs have been cross referenced on the ozalid. Notes were made on the following processed photographs: 69E1027, 69E1026, 69K3736R and 69K3738R. See boatsheet DA-10-7-71 for further delineation of foul areas.

ADEQUACY OF COMPILATION

The compilation of this map was good. The MHWL is accurate in both configuration and location with exceptions as noted. Ledge limits and foul areas were in agreement except as noted. No fixed aids to navigation were located on this sheet. The field edit of this map is complete.

RECOMMENDATIONS

It is recommended that the map be revised in accordance with the notes on the Field Edit Ozalid and photographs and the map be accepted as an advance manuscript.

Respectfully submitted,

Gregory L. Miller
Gregory L. Miller
LTJG. NOAA

Howard W. Herz
Howard W. Herz
LTJG. NOAA

SPECIAL REPORT
ON
GEOGRAPHIC NAMES
OPR-448
SOUTHEAST ALASKA
SOUTH Keku STRAIT - SUMNER STRAIT

NOAA SHIP DAVIDSON
CDR GERALD C. SALADIN
CHIEF OF PARTY
1971

The enclosed USGS Petersburg (B-4), (B-5), (B-6), (C-4) and (C-6) Alaska quadrangle sheets were used for geographic names identification along with the enclosed charts 8174 and 8201.

On August 29, 1971 Mr. Clarence Louis and Mr. Harry Coulter, both of Wrangell, Alaska, were interviewed. Mr. Louis has been a resident of Wrangell for 77 years and has fished extensively throughout the Sumner Strait area. Mr. Harry Coulter has been a resident of Wrangell since 1900. He has fished and done extensive navigating aboard tugs and steamboats in the Sumner Strait area.

On August 30, 1971 Mr. Laurel Allen Woolery (Buckshot), owner of the B.S. Trading Post, Port Protection, Alaska, was interviewed. Mr. Woolery has resided at Port Protection for more than thirty years.

All of the above individuals were shown the USGS quadrangles and the NOS charts. Verified names have been underlined in red on the charts and quadrangles. New or questionable names have been noted and the following remarks apply:

(Note: "GSPP-567" refers to "Dictionary of Alaska Place Names, by Donald J. Orth, Geological Survey Professional Paper 567. Excerpts from the above are included in the appendix of this report.)

NOTE A: WOODEN WHEEL COVE (Port Protection: Lat. $56^{\circ}18'35''N$; Long. $133^{\circ}36'25''W$.) Named after a Wrangell resident who's fishing boat broke down in the cove. He fabricated a wheel out of wood and managed to get into Wrangell. He is since known by his friends as "Wooden Wheel" Johnson. (Clarence Louis-Wrangell)

NOTE B: JACKSON ISLAND (Port Protection: Lat. $56^{\circ}19'32''N$; Long. $133^{\circ}36'45''W$.) Named after Percy Jackson who had a boat shop on the island. (Laurel "Buckshot" Woolery-Port Protection)

NOTE C: EAST ROCK (Sumner Strait: Lat. $56^{\circ}21'30''N$; Long. $133^{\circ}36'00''W$.) Locally known as EAST ROCK (Woolery-Port Protection). Shown on USGS quadrangle Petersburg (B-5) as "TWIN I". Shown in GSPP-567 as EAST ROCK. EAST ROCK is correct as shown on NOS chart 8174.

NOTE D: MERRIFIELD BAY (Sumner Strait: Lat. $56^{\circ}21'05''N$; Long. $133^{\circ}35'15''W$) Previously called "HOFSTEAD BIGHT" after Richard Hofstead who had a small store and herring traps there (Louis and Coulter-Wrangell). Known today as MERRIFIELD BAY by the local fisherman. The present name of MERRIFIELD BAY should be retained.

NOTE E: FLICKER CREEK (Sumner Strait: Lat. $56^{\circ}20'00''N$; Long. $133^{\circ}33'00''W$.) Un-named on largest scale chart of the area (NOS 8201). Named "FLICKER CREEK" on USGS quadrangle Petersburg (B-5) and in GSPP-567. Correctly shown on Incomplete Manuscript T-12467 as FLICKER CREEK. Locally called "HUMPY CREEK" by some of the fisherman (Woolery-Port Protection). The present name of FLICKER CREEK should be retained.

NOTE F: SHINE CREEK (Sumner Strait: Lat. $56^{\circ}19'35''N$; Long. $133^{\circ}26'30''W$.) So named in GSPP-567 and on USGS quadrangle Petersburg (B-5). Correctly shown on Incomplete Manuscript T-12468. Probably named after a Mr. "Shine" Owens who logged around Buster Bay about 1940 (Woolery-Port Protection).

NOTE G: BUSTER BAY & BUSTER CREEK (Sumner Strait: Lat. $56^{\circ}20'N$; Long. $133^{\circ}26'W$.) Correctly named on Incomplete Manuscript T-12468. Probably named after Mr. "Buster" Neil Grant who used to anchor a pile driver there (Louis-Wrangell).

NOTE H: BIG CREEK (Sumner Strait, Red Bay: Lat. $56^{\circ}15'38''N$; Long. $133^{\circ}20'20''W$.) Named on USGS quadrangle Petersburg (B-5) and GSPP-567 and Incomplete Manuscript T-12470. Name should be retained on stream as shown on T-12470. Chart 8168 shows "BIG CREEK" located between Red Lake and Red Bay. For corrections see RED BAY CREEK note below.

LITTLE CREEK (Sumner Strait, Red Bay: Lat. $56^{\circ}16'22''N$; Long. $133^{\circ}20'50''W$.) Correct as shown on USGS quadrangle Petersburg (B-5) and noted in GSPP-567 and Incomplete Manuscript T-12470. Chart 8168 shows "LITTLE CREEK" incorrectly. The chart should be revised according to the manuscripts.

RED BAY CREEK (Sumner Strait, Red Bay: Lat. $56^{\circ}15'45''N$; Long. $133^{\circ}19'45''W$.) Local name given to the creek that joins Red Lake and Red Bay (Woolery, Louis & Coulter - Port Protection and Wrangell). As many local fisherman use this name, it is suggested that it be used on chart 8168 and T-13375.

NOTE I: DOUGLAS(S) BAY (Sumner Strait: Lat. $56^{\circ}28'N$;
Long. $133^{\circ}17'W$.) Correct as named. USGS
quadrangle Petersburg (B-4) gives a spelling
of DOUGLAS. NOS chart 8160 gives a spelling
of DOUGLASS. GPSS-567 notes both spellings.
For the correct spelling consult USC&GS chart
706.

NOTE J: TOTEM POINT (Sumner Strait: Lat. $56^{\circ}27'10''N$;
Long. $133^{\circ}26'00''W$.) Shown on USGS quadrangle
Petersburg (B-5) and Incomplete Manuscript
T-13340. This name could not be verified by
those interviewed. It is recommended that the
name be retained as shown.

Names that could not be verified in interviews have not been
underlined or noted and are assumed correct. The charted names
on NOS charts 8174 and 8201 are used and accepted by the local
fisherman and mariners except as noted.

Respectfully submitted,
Howard W. Herz
Howard W. Herz
Lt(jg) NOAA

Approved,
Gerald C. Saladin
Gerald C. Saladin
CDR. NOAA
Commanding Officer
NOAA Ship DAVIDSON

LANDMARKS AND AIDS TO NAVIGATION

LANDMARKS

No landmarks exist within the area covered by OPR-448.

NON-FLOATING AIDS TO NAVIGATION

The non-floating aids to navigation listed on Form 567 are recommended as landmarks useful for navigational purposes. They should be continued on charts 8160 and 8201 using the geographic positions listed on Form 567.

FLOATING AIDS TO NAVIGATION

The following floating aids to navigation were located within the limits of OPR-448, 1971. Positions were determined by sextant fixes using second order triangulation signals. Geographic positions were computed and compared with those given in Light list Volume III Pacific Coast and Pacific Islands.

<u>#</u>		<u>C&GS</u>	<u>CG</u>
----	Five Fathom Shoal Buoy	56° 21' 56.403"N✓ 133° 13' 58.899"W✓	-----
3008	McArthur Reef Lighted Bell Buoy	56° 23' 39.21"N✓ 133° 10' 33.28"W✓	-----
3008.50	Mitchell Point Lighted Buoy 7	56° 25' 19.48"N✓ 133° 11' 11.37"W✓	56° 25.5'N✓ 133° 10.6'W✓
3010	Level Island Lighted Buoy 9	56° 27' 7.24"N✓ 133° 02' 29.89"W✓	56° 27.1'N✓ 133° 02.5'W✓

Respectfully submitted,

Howard W. Herz
Howard W. Herz
LTJG. NOAA

Approved,

Gerald C. Saladin
Gerald C. Saladin
CDR. NOAA
Commanding Officer
NOAA Ship DAVIDSON

TO BE CHARTED
TO BE REVISED
TO BE DELETED

August 26, 1971

The positions given have been checked after listing by

COR Gerald C. Saladin

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of Charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions show both the old and new positions. The data should be reported on individual survey sheets. Information under each column heading should be given.

◆ TABULATE SECONDS AND METERS

FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEYFIELD EDIT
DESCRIPTIVE REPORTSType of Survey FIELD EDIT
Field No. n/a Office No. T-13376-78 & T-12462-65

LOCALITY

State ALASKA
General locality SOUTHEAST
Locality SUMNER STRAIT19 75

CHIEF OF PARTY

CDR M. H. FLEMING, NOAA

LIBRARY & ARCHIVES

DATE _____

USCOMM-DC 97022-P66

FIELD EDIT REPORTS

T-13376 through T-13378
and
T-12462 through T-12465

SUMNER STRAIT, ALASKA

OPR-448-DA-75

NOAA SHIP DAVIDSON

CDR. M.H. FLEMING

Chief of Party

INTRODUCTION

In compliance with Change No. 2 (dated 7/2/75) to project instructions OPR-448-DA-75, field edit was completed on seven class III, partially field-edited manuscripts. They are T-13376 through T-13378 and T-12462 through T-12465. Field edit of these sheets was supposedly done in 1971, but data was lost in transmittal. In most cases the entire sheet was reedited. Due to few available photographs, the Chronopaque office photo had to be used in a few instances. Where this was required, due care was taken not to obliterate the referenced feature.

CONTROL

Position control for all these sheets was by means of the Motorola MINIRANGER III system. Three, independent, calibrated rates were obtained for each fix to assure its validity. The MINIRANGER systems used were calibrated on a known baseline on September 15, 1975. Correctors obtained during this calibration are tabulated on the appended position abstract for each sheet report. Field positions are self-checking and methods used are described in each report.

The HYDROPLOT system was used to produce detached position overlays (COMPLOT sheets) for each sheet where detached positions were taken. Analytically computed geodetic positions are accurate and may be used directly in application of this field edit. Lattices plotted on these overlays are labeled per PROVISIONAL HYDRO MANUAL specifications.

MISCELLANEOUS

76-40 forms were submitted with 1971 field edit and are not again submitted. See R292320Z SEPT 75 CPM radio message appended.

One master signal tape is included for all sheets. The printout is appended. Separate HYDROPLOT Parameter, Master, and Corrector tapes were made for each sheet where fixes were required.

Separate Field Edit Reports for each sheet follow.

SEPARATES FOLLOWING FIELD EDIT REPORTS:

Index of Field Edit Sheets
Combined Tides Requirements Form
R292320 Sept 75 CPM Radio Message

FIELD EDIT REPORT

TP-12462

MITCHELL POINT

OPR 448

SUMNER STRAIT, AK

NOAA SHIP DAVIDSON

CDR M.H. FLEMING, COMMANDING

-1975-

(51 METHODS)

Field Edit on TP-12462 was accomplished under project instructions OPR-448-DA-75, Change No. 2, dated 7 Jul 75, as per Change No. 4-75 PMC OPODER.

OPODER procedures for field edit with HYDROLOT support, not in conjunction with hydrography were used.

A Field Edit Sheet and office photograph 69K3739R were taken into the field to investigate and identify features. The manuscript was partially field edited earlier and data lost. Few photos necessitated using the office photograph. Care was exercised not to obliterate images on the photo. Features were circled rather than pricked.

The Field Edit investigation was performed on September 18, 1975, from a small skiff equipped with Motorola MINIRANGER equipment (Console #716 and R/T #709) at low tide.

Fixes were controlled electronically with Motorola MINIRANGER III. Fixes were plotted in the field. Where fixes confirmed photogrammetric compilation, no fix data was recorded. On this sheet no new features or revisions required fixes.

All original data was recorded on the field sheet at the time of investigation by the Field Editor. All times are referenced to GMT(Z).

A tide gage was installed at Little Level Island to provide tides data. This gage was not required in project instructions, but should assist in defining tides for these sheets.

Deletions, additions, and verified features are noted on the Field Edit Ozalid. Only the additions and verified features are noted on the photograph. Field Edit Notes are on photograph 69K3739R.

As per instructions on the Field Edit Ozalid, the ink colors used do not follow standard rules. The ink colors used are as follows:

<u>INK COLOR</u>	<u>USE</u>
black	verified features
green	deletions
red	revisions and 1975 field edit
violet	1971 field edit

(52 ADEQUACY OF COMPILATION)

The map compilation is adequate and complete for charting with this field edit applied.

(53 MAP ACCURACY)

The shoreline, foreshore, and offshore features were found to be accurate.

(54 RECOMMENDATIONS)

This manuscript should be considered complete for charting purposes.

(56 MISCELLANEOUS)

No Forms 76-40 were provided for this manuscript. Field sheets were constructed, and MINIRANGER lattices applied, using HYDROPLOT software program RK201 (Grid, Signal, and Lattice Plot, version 8/16/74).

Submitted,

David J. Tennesen

David J. Tennesen
LTJG, NOAA

Approved and forwarded,

M.H. Fleming

M.H. Fleming
CDR, NOAA
Commanding Officer
NOAA SHIP DAVIDSON CSS-31

REVIEW REPORT
T-12462
SHORELINE

September 4, 1979

61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with Registered Surveys No. 1749, 1:80,000 scale dated 1886 and No. 5017, 1:20,000 scale, dated July-September 1929. Differences are due to scale and advancements in mapping techniques, procedures and equipment.

T-12462 supersedes Registered Surveys No. 1749 and 5017 for chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

This map was compared with USGS Quadrangle Petersburg (B-4) Alaska, 1:63,360 scale, dated 1949. Ledge limits and foreshore details generally are extended more seaward on the map.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with a copy of Registered hydrographic surveys H-9219 (DA-10-7-71) and H-9268 (DA-10-10-71). Many of the kelp areas shown on the hydro surveys are larger than those shown on the map. There is evidence on the color photography to support the larger area limits shown on the hydro surveys.

Three rocks awash shown on the smooth sheet, southeast of Mitchell Point, are not shown on the map. Photographic evidence supports their existence.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 17382, 1:80,000 scale, 11th edition dated March 26, 1977. There are no significant differences.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the project instructions and meet the requirements for Bureau Standards and the National Standards of Map Accuracy.

Submitted by:

A. L. Shands

A. L. Shands
Final Reviewer

Approved for forwarding:

B. H. Barnes

B. H. Barnes
Chief, Photogrammetric Branch, AMC

Approved: ^{BW}

John D. Perraw Jr.
Chief, Photogrammetric Branch

Walter H. ...
Chief, Photogrammetry Division

PH-6909

Sumner Strait, Alaska

Project Materials on File

NOS Archives

- 1 Stable base registered copy of each of 29 maps
- 1 Descriptive report for each of 29 maps

Federal Records Center

- 1 Job completion report
- 3 Forms 504 containing original field edit reports
- 1 Form 251, Horizontal Directions
- 13 Forms 152, CSI
- 5 Sets of parameter tapes and printouts
 - Computer printouts of photogrammetric bridge
- 1 Form 76-40
- 1 Positive overlay each of T-12464, T-12465, and T-13376 thru T-13378
- 1 Each ratio (conopaque) photo - 69E(C) 560-567, 576, 577, 579, 2001-2004, 2010, 2012, 2026, 2030-2032, 2035, 2036, 2038, 2040-2043, 2047-2050, 2057, 2058, 2061, and 2062; 69K(I) 3724, 3735, 3736, 3738, 3739, and 3746; 69E(C) 983-990, 997, 999, 999A, 999B, 1000, 1010, 1021, 1026-1028
- 1 Each matte 69K(I) 3735, 3736, 69E(C) 985, 987-990, 999, 999A, 999B, and 1000

19 FIELD EDIT ORIGINALS