

T-13338

ORIGINAL

T-13338

NOAA FORM 76-35

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

## DESCRIPTIVE REPORT

Type of Survey ... Shoreline  
Job No. ... Ph-6909 ... Map No. ... T-13338  
Classification No. Final ... Edition No. 1  
Field Edited Map

### LOCALITY

State ... Alaska  
General Locality ... Sumner Strait  
Locality ... Yellow Island

19 69 TO 19 71

### REGISTRY IN ARCHIVES

DATE .....

## DESCRIPTIVE REPORT - DATA RECORD

## TYPE OF SURVEY

- ☒ ORIGINAL  
☐ RESURVEY  
☐ REVISED

SURVEY TR. 13338

MAP EDITION NO. (1)

MAP CLASS Final  
6909

JOB PH-

## PHOTOGRAMMETRIC OFFICE

Coastal Mapping Division, AMC  
Norfolk, Va.

## OFFICER-IN-CHARGE

Jeffrey G. Carlen, CDR/NOAA

## LAST PRECEDING MAP EDITION

## TYPE OF SURVEY

- ☐ ORIGINAL  
☐ RESURVEY  
☐ REVISED

JOB PH-

MAP CLASS

SURVEY DATES:

19\_\_ TO 19\_\_

## I. INSTRUCTIONS DATED

## 1. OFFICE

Aerotriangulation October 2, 1969  
Compilation September 14, 1970  
Compilation November 6, 1970  
Compilation Amend I November 20, 1970

## 2. FIELD

Premarking May 14, 1969

## II. DATUMS

## 1. HORIZONTAL:

☒ 1927 NORTH AMERICAN

OTHER (Specify)

## 2. VERTICAL:

- ☒ MEAN HIGH-WATER  
☐ MEAN LOW-WATER  
☒ MEAN LOWER LOW-WATER  
☐ MEAN SEA LEVEL

OTHER (Specify)

## 3. MAP PROJECTION

Polyconic

## 4. GRID(S)

STATE

Alaska

ZONE

1

## 5. SCALE-

1:10,000

STATE

ZONE

## III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY LANDMARKS AND AIDS BY	R. Kelly	Apr 1970
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat	PLOTTED BY CHECKED BY	P. Dempsey P. Dempsey	Aug 1970 Aug 1970
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY CHECKED BY	A. Shands L. Graves	Oct 1970 Oct 1970
INSTRUMENT: Wild B-8	CONTOURS BY	NA	
SCALE:	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	A. Shands & C. Blood	Dec 1970
METHOD: Smooth drafted	CHECKED BY	R. Pate	Dec 1970
1:10,000	CONTOURS BY	NA	
SCALE:	CHECKED BY	NA	
	HYDRO SUPPORT DATA BY	C. Blood	Nov 1970
	CHECKED BY	B. Wilson	Nov 1970
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	R. Pate	Dec 1970
6. APPLICATION OF FIELD EDIT DATA	BY	C. Blood	Dec 1970
	CHECKED BY	B. Wilson	Dec 1970
7. COMPILATION SECTION REVIEW	BY	B. Wilson	Dec 1970
8. FINAL REVIEW	BY	A. L. Shands	Oct 1979
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	A. L. Shands	Dec 1979
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	F. R. WATTS	FEB 1980
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	F. L. DAUGHERTY	JUN 1980

NOAA FORM 76-36B  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEYT-13338  
COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "E"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Pacific	
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN 120th	
				<input checked="" type="checkbox"/> STANDARD	
				<input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
69E(C) 1011-1013	8/5/69	14:02	1:30,000	3.1 ft. above MLLW	
69E(C) 2031-2033	8/24/69	15:36	1:20,000	7.6 ft. above MLLW	

REMARKS  
 Suborb. Sta. Sumner Island, Sumner Strait Mean Range 10.3 FT.  
 Level Islands, Sumner Strait Mean Range 12.6 FT.

## 2. SOURCE OF MEAN HIGH-WATER LINE:

From the above list of photographs augmented by field editor's notes.

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

None compiled.

## 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	EAST	SOUTH	WEST
No survey	T-13340	No Survey	PH-6206 T-12225
REMARKS			

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

T-13338

## 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 ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None
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 <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

None

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 ☒ 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)

2-forms 152 (outside of project limits)

NOAA FORM 76-36C  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEYT-13338  
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	G. Saladin	Jun 1971
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 checked="" type="checkbox"/> SPECIFIC NAMES ONLY <input type="checkbox"/> NO INVESTIGATION BY G. Saladin	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	R. Arnold Jun 1971
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) 1012

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  
1-field edit validNOAA FORM 76-36C  
(3-72)

T-13338  
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	Dec 1970	Class III manuscript Superseded	12/17/70	12/14/70
Field Edit applied	Dec 1971	Class I manuscript	None	
Final Review	Oct 1979	Final	4-4-80 <del>Dec 1979</del>	

## 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: \_\_\_\_\_

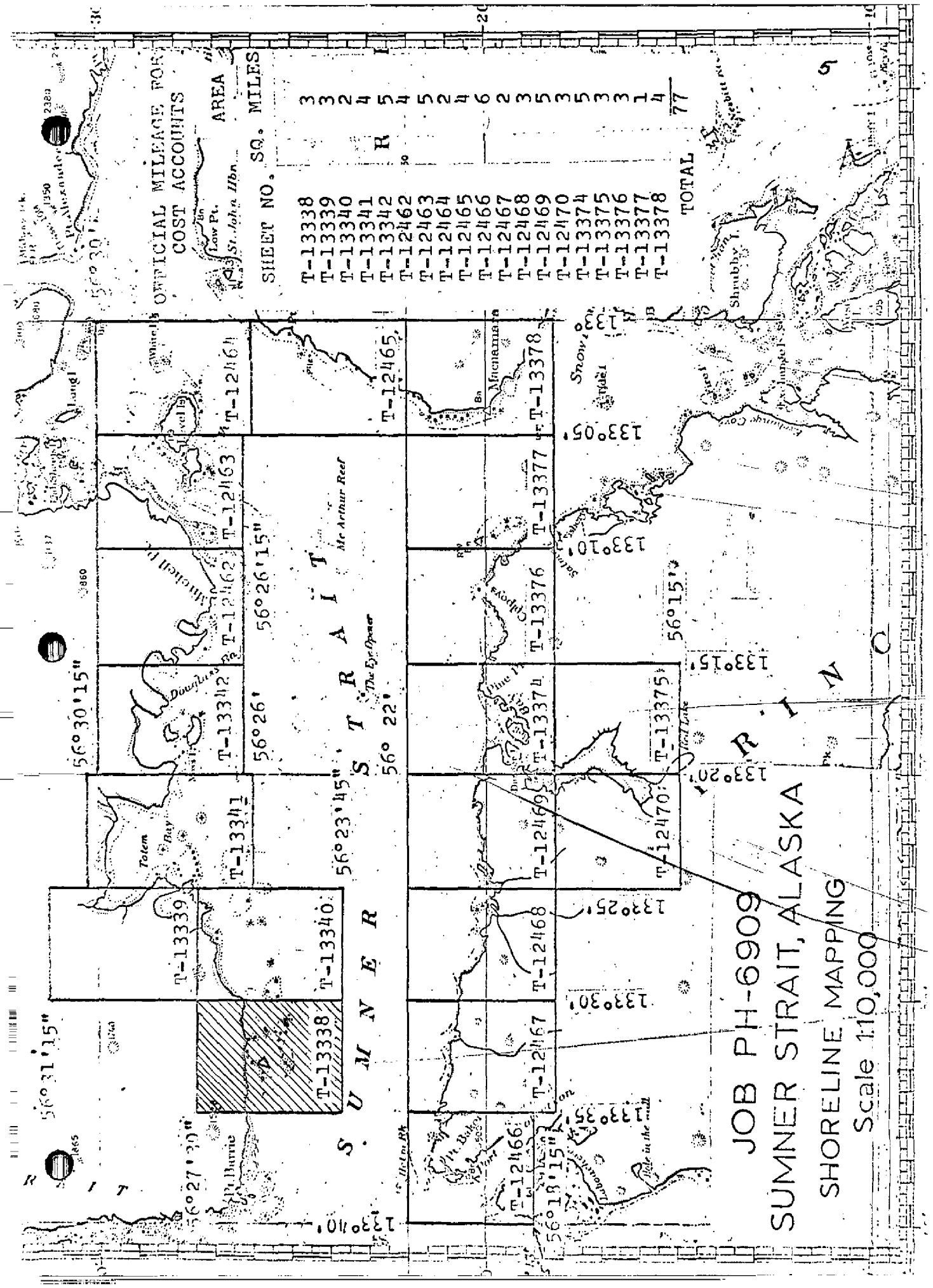
## III. FEDERAL RECORDS CENTER DATA

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	



JOB PH-6909  
 SUMNER STRAIT, ALASKA  
 SHORELINE MAPPING  
 Scale 1:100,000

OFFICIAL MILEAGE FOR  
 COST ACCOUNTS

AREA

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	1
T-13378	4
TOTAL	77

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 <sup>the</sup> Rockville, Maryland, office for reproduction and final registration.

## FIELD INSPECTION

T-13338

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.

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.

-2-

25. Photography

Photography was adequate as to coverage, overlap and definition.

Submitted by,

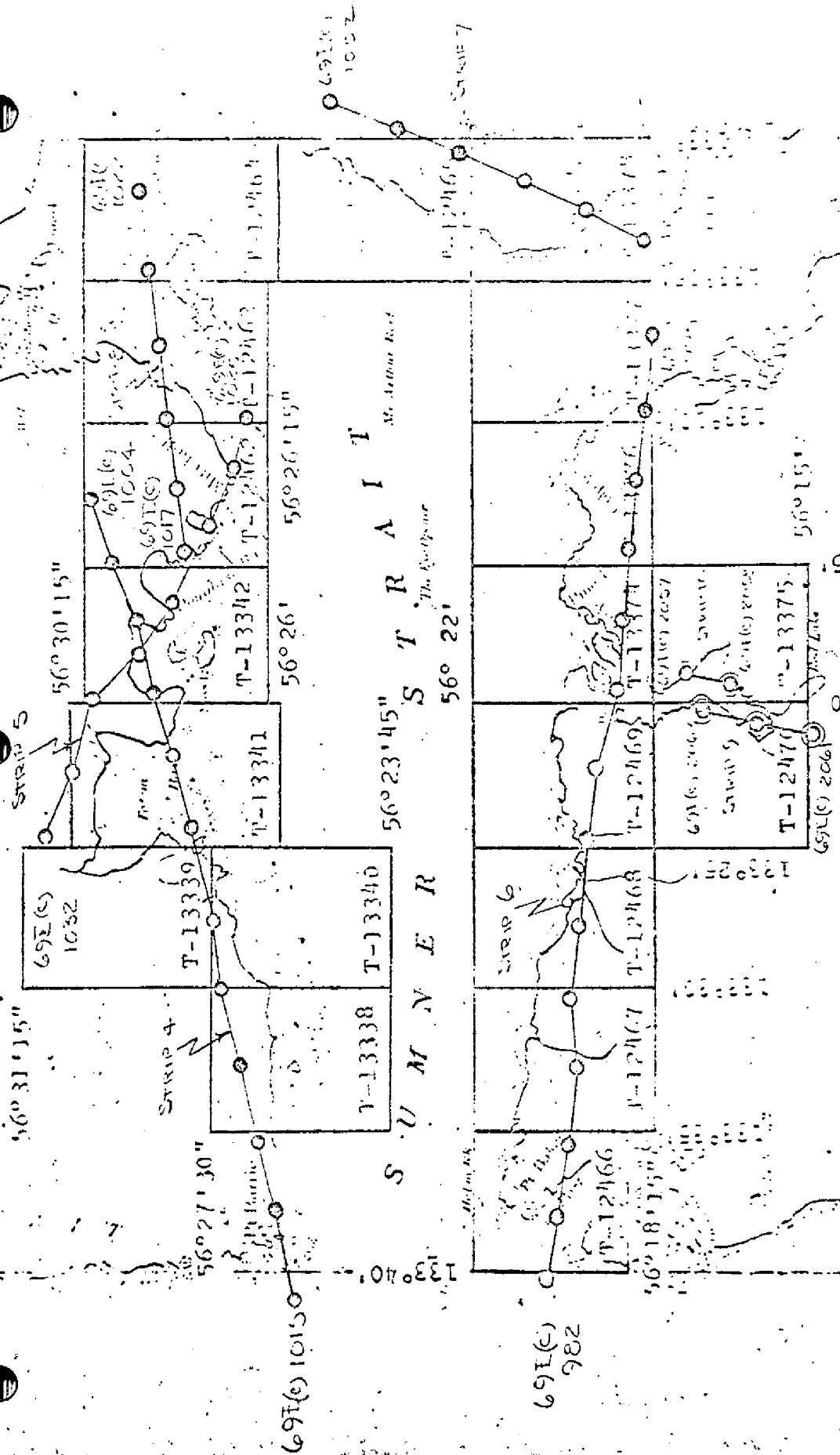
*Robert B. Kelly*  
Robert B. Kelly

Approved and forwarded,

*Henry P. Eichert*  
Henry P. Eichert  
Chief, Aerotriangulation  
Section



COMPILATION PHOTOS



JOB PH-6909  
SUMNER STRAIT, ALASKA

STRIPPING MAPPING

Scale 1:100,000

69L(6) 1032

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## LEGEND

- $\Delta$  CONTROL USED IN ADJUSTMENT  
 ( ) CLOSURES OF BRIDGE TO CONTROL SHOWN IN PARENTHESIS  
 $\Delta$  CONTROL USED AS CHECK.

## STRIP 1

- $\Delta$  LUNG, 1929  $(-0.9, +1.1)$  Ft.  
 $\Delta$  NEXT, 1929  $(+1.0, -1.9)$   
 $\Delta$  SHINGUE, 1915  $(0.0, +1.0)$   
 $\Delta$  BARRIE 2, 1915  $(+0.9, -3.3)$   
 $\Delta$  END, 1927  $(+0.3, -0.4)$

## STRIP 2

- $\Delta$  FRANK, 1954  $(0.0, -0.5)$   
 $\Delta$  QUEEN, 1954  $(-0.5, +1.8)$   
 $\Delta$  SIG, 1915  $(+0.1, +0.5)$   
 $\Delta$  WEST, 1915  $(-0.5, +0.3)$   
 $\Delta$  COLPOYS, 1886  $(+0.2, -1.4)$   
 $\Delta$  JEFF, 1916  $(-0.5, +0.4)$

## STRIP 3

- $\Delta$  JEFF, 1916  $(0.0, +0.3)$   
 $\Delta$  MARZ 2, 1915  $(-0.7, -0.3)$   
 $\Delta$  SAINT 2, 1915  $(+2.1, +0.4)$   
 $\Delta$  VIK-NEFLKI ROCK LT, 1967  $(-1.6, -0.6)$

## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	GEODETTIC DATUM		AEROTRI- ANGULATION POINT NUMBER	SOURCE OF INFORMATION (Index)	COORDINATES IN FEET		NA 1927	GEOGRAPHIC POSITION		ORIGINATING ACTIVITY	
			STATE	ZONE			ALASKA	1		$\phi$ LATITUDE	$\lambda$ LONGITUDE	Division, Norfolk, Va.	Coastal Mapping
T-13338	CRO, 1915	PH-6909				G.P. Vol 1 203	$x=$	$y=$		$\phi$ 56 25 11.812	$\lambda$ 133 30 57.540	365.4	1490.5
							$x=$	$y=$		$\phi$		986.5	42.1
							$x=$	$y=$		$\lambda$			
							$x=$	$y=$		$\phi$			
							$x=$	$y=$		$\lambda$			
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							$x=$	$y=$		$\phi$			
							$x=$	$y=$		$\lambda$			
COMPUTED BY	A. C. Rauck, Jr.				8/15/70					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-13338

## SHORELINE

31. DELINEATION:

The Wild B-8 stereoplotter was used to compile the detail on this manuscript.

Tandem photography of color and infrared, at 1:20,000 scale, were flown for this project. These were at approximate half tide and therefore the infrared were not used for mean high water nor mean lower low water compilation.

32. CONTROL:

Refer to Aerotriangulation Report, dated April 29, 1970.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contouring was not applicable and drainage was delineated with the Wild B-8.

35. SHORELINE AND ALONGSHORE DETAILS:

There was no prior shoreline inspection. The mean high water line was compiled by office interpretation on the plotter.

36. OFFSHORE DETAILS:

No statement.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

No statement.

39. JUNCTIONS:

A satisfactory junction has been made with T-13340 to the east and T-12225, (PH 6206 Keku Strait) to the west. There is no contemporary survey to the North or South.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with USGS Quadrangle Petersburg (B-5) Alaska, 1:63,360 scale dated 1949 with minor revisions in 1963.

A comparison has also been made with prior Borough Survey, Sumner Strait, Register No. 1749, verified March 10, 1887, scale 1:80,000.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with USC&GS Chart #8201, Etolin Island to Midway Island, including Sumner Strait, scale 1:217,828, 15th edition, November 5, 1969.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

*Charles E. Blood*  
Charles E. Blood  
Cartographic Tech.  
December 8, 1970

Approved:

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

September 23, 1970

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6909 (Alaska)

T-13338

- ✓ Kupreanof Island
- ✓ Sumner Strait
- ✓ Yellow Island

Approved by:

*A. J. Wraight*  
A. Joseph Wraight  
Chief Geographer

Prepared by:

*Frank W. Pickeyt*  
Frank W. Pickeyt  
Cartographic Technician

PHOTOGRAMMETRIC OFFICE REVIEW

TR - 13338

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 BW	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 BW	17. LANDMARKS BW	18. OTHER ALONGSHORE PHYSICAL FEATURES RJP	19. OTHER ALONGSHORE CULTURAL FEATURES RJP
PHYSICAL FEATURES			
20. WATER FEATURES RJP	21. NATURAL GROUND COVER RJP		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. FOR</i> R. J. Pate Dec. 1970		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>Charles Blood</i> 12/20/71 Reviewer: <i>B. Wilson</i> 12/20/71 <i>A.C. Rauck, Jr. FOR</i>		SUPERVISOR <i>Albert C. Rauck, Jr.</i> A. C. Rauck, Jr.	
43. REMARKS Field Edit applied from: See forms 76-36C 3, 7 & 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-12460	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	Rookery 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 Kek 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-13338

SUMNER STRAIT - YELLOW ISLAND

SOUTHEAST ALASKA

JUNE 1971

The field edit of map T-13338 was done by LTJG. Russell C. Arnold on June 16, 1971. Inspection was made by 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 have been delineated on the processed photographs. High points of rocks and ledges have been noted on the ozalid. 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 photograph: 69E1012.

Boatsheet DA-10-5-71 should be consulted for limits 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. 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,

*Russell C. Arnold*  
Russell C. Arnold  
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 (Buchshot), 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°18'35"N; Long. 133°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°19'32"N; Long. 133°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°21'30"N; Long. 133°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&amp;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

## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED  
TO BE REVISED  
TO BE DELETED

STRIKE OUT TWO

I recommend that the following objects which have ~~(been)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(listed from)~~ the charts indicated.

The positions given have been checked after listing by

Mr. 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 redrafted shall be reported on this form. Revisions show both the old and new positions. The data should be considered for the charts of the area and not by individual old survey sheets. Information under each column heading should be given.

\* TABULATE SECONDS AND METERS

## REVIEW REPORT

T-13338

## SHORELINE

October 19, 1979

61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report. Dotted lines in the foreshore area of the Class I Map were changed to dashed lines during final review. These lines represent the seaward limit of foreshore features visible on the photography. No mean lower low water photography was provided for the area of this map.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with a copy of Registered Survey 1749, 1:80,000 scale dated, 1886. Differences are due to scale and advancements in survey equipment and techniques.

T-13338 supersedes Survey 1749 for Charting purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quadrangle Petersburg (B-5), Alaska, 1:63,360 scale, dated 1949. The submerged rocks shown on the quadrangle southeast of Yellow Island are shown on the map as scattered reefs and rocks awash. All foreshore area features are noticeably expanded.

The intermittent streams are shown on the map as a result of office interpretation. They were not specifically verified by the field editor.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with a copy of registered Smooth Sheet H-9217 (DA-10-5-71). The three small reefs shown on the map due south of Yellow Island are shown on the smooth sheet as a single reef. The kelp areas symbolized on the smooth sheet among the offshore reefs are supported by photographic evidence though not delineated on the map.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 8201, 1:80,000 scale, 11th edition dated March 4, 1963. Differences are due primarily to scale.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the project instructions and meets 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: *John D. Perrow Jr.*

*John D. Perrow Jr.*

Chief, Photogrammetric Branch

*Walter Shinn*

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*