

T-12463

ORIGINAL

T-12463

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-12463.....
Classification No. Final Edition No.1.....
Field Edited Map

LOCALITY

StateAlaska.....
General Locality ..Sumner Strait.....
Locality ..Little Level Island.....

1969 TO 1975

REGISTRY IN ARCHIVES

DATE

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
DESCRIPTIVE REPORT - DATA RECORD		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Norfolk, Va.		SURVEY TP-12463 MAP EDITION NO. (1) MAP CLASS Fina; JOB PH- 6909	
OFFICER-IN-CHARGE Jeffrey Carlen, CDR/NOAA		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB PH- MAP CLASS SURVEY DATES: 19__ TO 19__	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Aerotriangulation October 2, 1969 Compilation September 14, 1970 Compilation November 6, 1970 Compilation Amend I November 20, 1970		Premarking 5/14/69	
II. DATUMS			
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify)	
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input checked="" type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify)	
3. MAP PROJECTION Polyconic		4. GRID(S) STATE ZONE Alaska 1	
5. SCALE 1:10,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: Analytical LANDMARKS AND AIDS BY		R. B. Kelly	Apr 1970
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY		P. Dempsey P. Dempsey	Sep 1970 Sep 1970
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:15,000 CHECKED BY		A. L. Shands R. White NA NA	Jan 1971 Jan 1971
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: Smooth Drafted CONTOURS BY CHECKED BY SCALE: 1:10,000 HYDRO SUPPORT DATA BY CHECKED BY		R. J. Pate B. Wilson NA NA R. Pate & B. Wilson R. Pate	Jan 1971 Mar 1971 NA NA Mar 1971 Mar 1971
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		R. Pate	Mar 1971
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		I. Perkinson A. Shands	Jul 1974 Nov 1975
7. COMPILATION SECTION REVIEW BY		A. Shands	Nov 1975
8. FINAL REVIEW BY		A. L. Shands	Aug 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		E. L. DAUGHERTY	JUN 1980

NOAA FORM 76-36B
(3-72)

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

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "E" & "K"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Pacific	<input checked="" type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN 120th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
69E(C) 1019 - 1021	8/5/69	13:13PST	1:30,000	4.5 ft. above MLLW	
69E(C) 2047 - 2050	8/24/69	14:54PST	1:20,000	7.0 ft. above MLLW	
69K(I) 3740	7/18/69	10:18PST	1:20,000	0.5 ft. below MLLW	
69E(C) 2039 - 2041	8/24/69	14:42PST	1:20,000	7.3 ft. above MLLW	
69K(I) 3762 - 3764	7/18/69	14:46PST	1:20,000	0.1 ft. below MLLW	

REMARKS

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

2. SOURCE OF MEAN HIGH-WATER LINE:

From the above list of photographs.

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

From the above list of photographs.

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
T-13050 PH6627	T-12462	No survey	T-12464

REMARKS

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

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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 L. Riggers
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	BY
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
		None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
69E(C)1020	NEXT, 1929		
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: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS			
None			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)			
1 form 152			

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NATIONAL OCEAN SURVEY

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HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	G. Saladin	Sep 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 BY <input type="checkbox"/> NO INVESTIGATION	G. Saladin Jul/Aug '71
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	H. Herz & R. Arnold Aug 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 2040 and 69E 2047

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 Ozalid, and 1-Field Edit Report

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U. S. DEPARTMENT OF COMMERCE
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NATIONAL OCEAN SURVEY

HISTORY OF FIELD OPERATIONS

I. ☐ 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 <input checked="" type="checkbox"/> NO INVESTIGATION BY	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	D. Tennesen
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) 2048, 69E(C) 2049, 69E(C) 2040, and 69E(C) 2041

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 Ozalid and 1-Field Edit Report

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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	Jan 1971	Class III manuscript	3/30/71	3/16/71
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	Aug 1979	Final	4-4-80 Dec 1979	

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	

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-12463

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.

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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

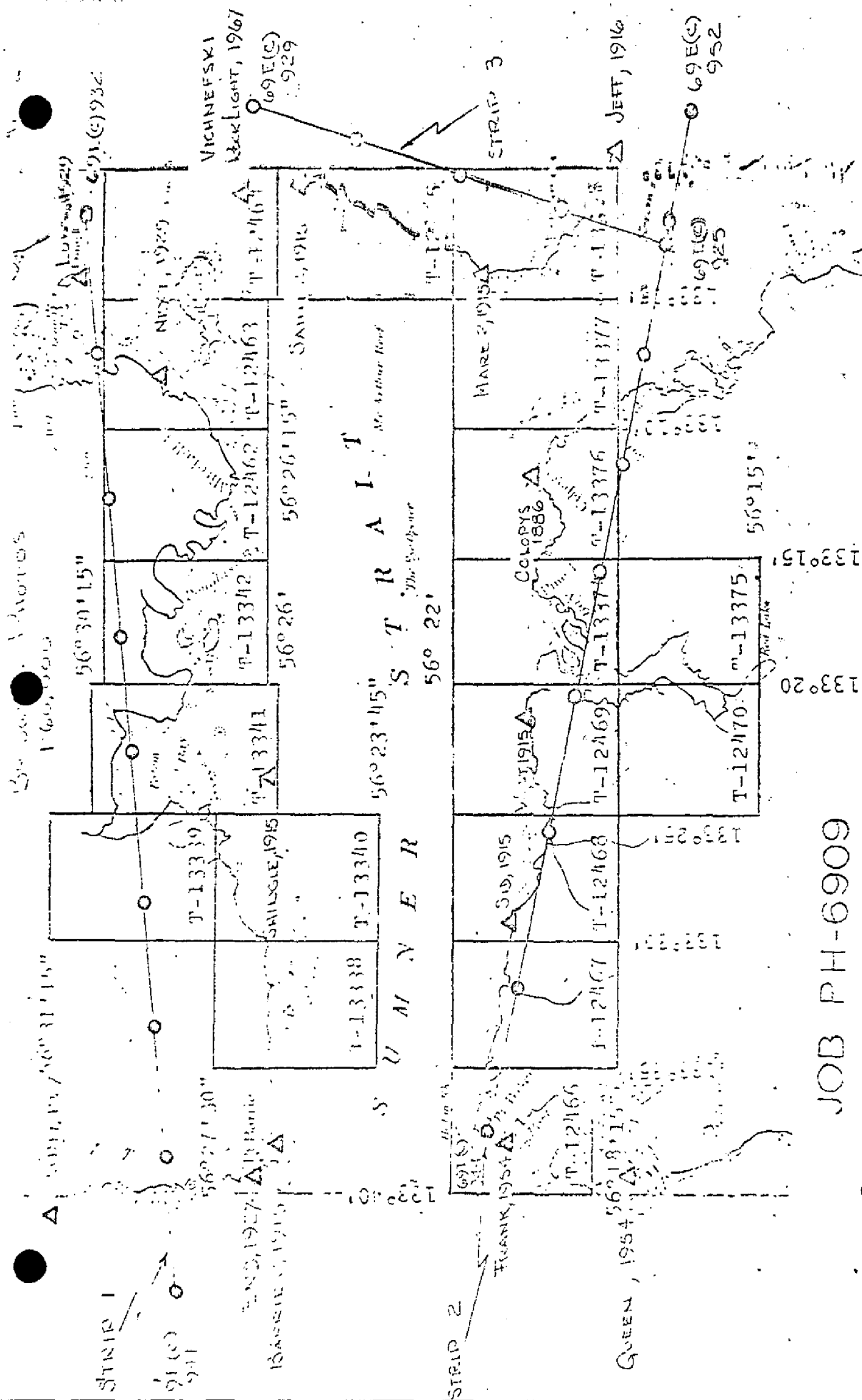
Photography was adequate as to coverage, overlap and definition.

Submitted by,


Robert B. Kelly

Approved and forwarded,


Henry P. Eichert
Chief, Aerotriangulation
Section



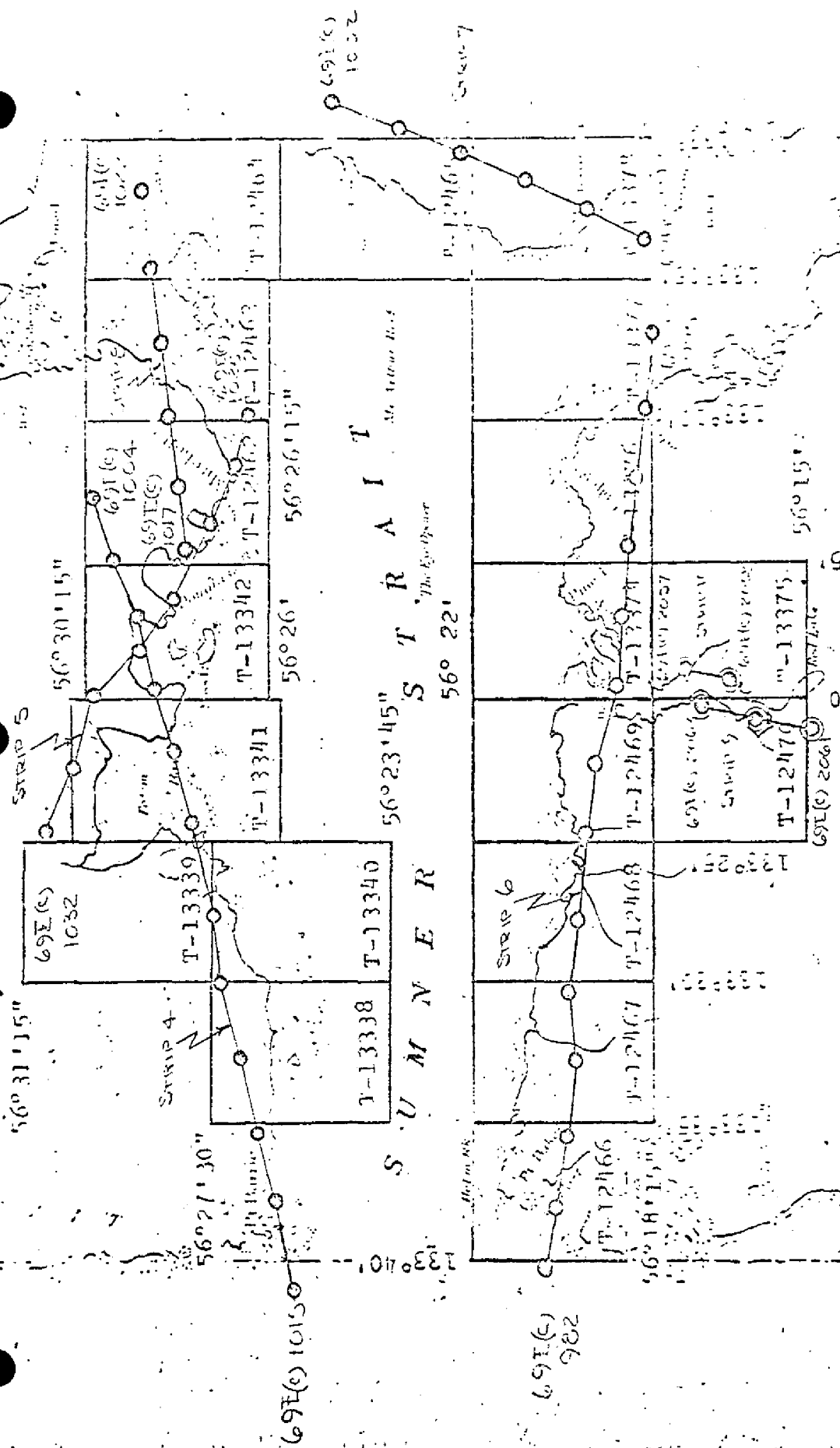
JOB F H - 6909

SUMNER STRAIT, ALASKA

CHOPLINE MAPPING

Scale 110,000

COMPILATION PHOTOS



JOB PH-6909
SUMNER STRAIT, ALASKA

SHORTLINE MAPPING

Scale 110,000

LEGEND

- Δ CONTROL USED IN ADJUSTMENT
 () CLOSEURES OF BRIDGE TO CONTROL SHOWN IN PARENTHESIS
 Δ CONTROL USED AS CHECK.

STRIP 1

- Δ LONG, 1929 $(-0.9, +1.1)$ F.F.
 Δ NEXT, 1929 $(+1.0, -1.9)$
 Δ SHINGUE, 1915 $(0.0, +1.0)$
 Δ BARRIE 2, 1915 $(+0.9, -3.3)$
 Δ ENG, 1927 $(+0.3, -0.4)$

STRIP 2

- Δ FRANK, 1934 $(0.0, -0.5)$
 Δ CUREN, 1934 $(-0.5, +1.0)$
 Δ SID, 1915 $(+0.1, +0.5)$
 Δ WEST, 1915 $(-0.5, +0.5)$
 Δ COLTON, 1926 $(+0.2, -1.4)$
 Δ JEFF, 1916 $(-0.5, +0.4)$

STRIP 3

- Δ JEFF, 1916 $(0.0, +0.3)$
 Δ MARZ 2, 1915 $(-0.7, -0.2)$
 Δ SAINT 2, 1915 $(+2.1, +0.4)$
 Δ VIC-NEPESKI ROCK LT, 1967 $(-1.6, -0.6)$

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	GEODETTIC DATUM		AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION		ORIGINATING ACTIVITY Coastal Mapping Division, Norfolk, Va.	
			NA	1927		STATE	ZONE	ϕ LATITUDE λ LONGITUDE	REMARKS FORWARD BACK		
T-12463		PH-6906									
/	NEXT, 1929	G.P.Vol II 483				X=		ϕ 56 28 42.461		1313.4	542.5
						Y=		λ 133 07 44.525		762.1	265.0
/	KAH, 1929	G.P.VOL II 483				X=		ϕ 56 29 38.317		1185.2	670.7
						Y=		λ 133 07 00.440		7.5	1019.2
/	LAST, 1929	" "				X=		ϕ 56 27 59.019		1825.5	30.4
						Y=		λ 133 08 41.861		716.8	310.6
/	BIG, 1929	" "				X=		ϕ 56 28 24.233		749.6	1106.3
						Y=		λ 133 05 16.310		279.2	748.0
/	LEVEL, 1929	" "				X=		ϕ 56 27 48.893		1512.3	343.6
						Y=		λ 133 07 19.616		355.9	611.6
						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	10/6/70
LISTED BY					DATE	LISTING CHECKED BY				DATE	
HAND PLOTTING BY					DATE	HAND PLOTTING CHECKED BY				DATE	

COMPILATION REPORT

T-12463

31. DELINEATION:

Delineation of the mean high water line was accomplished with the Wild B-8 plotter, with color photography at 1:30,000 scale. Coverage was adequate.

The foreshore, ledges, rocks and kelp areas were done graphically from infrared and color ratios of 1:20,000 scale photos at near MLLW except for a small area north of latitude 56°29'20" which was done graphically from ratios of 1:20,000 scale color photos at 7 ft. of tide.

Clouds covered a portion of the low water photos, but the available maps indicate no detail to have been in the obscured areas. Otherwise the photography was excellent in definition, there was some tilt in the low water series.

There was no field inspection available.

32. CONTROL:

See Aerotriangulation Report, dated April 29, 1970.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable.

Drainage has been shown from office interpretation.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line was delineated from B-8 interpretation of the photos. The alongshore and offshore details were added graphically from low water ratios which were in infrared and color, which together provided probably the best possible photo coverage for the foreshore and offshore interpretation.

36. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Junctions were made with T-12462 to the west and T-12464 to the east. To the north junction was made with T-13050 of PH-6627. To the south there is no contemporary survey.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

45. COMPARISON WITH PRIOR SURVEYS:

Comparison has been made with USC&GS Survey 5017, scale 1:20,000 dated July - Sept. 1929.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with USGS Quadrangle PETERSBURG (B-4), ALASKA, scale 1:63,360, dated 1949, with minor revisions 1964.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with chart 8160, scale 1:80,000 7th edition, July 4, 1970 (corrected thru N.M. 27/70)

ITEMS TO BE APPLIED TO CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Albert C. Rauck, Jr. FOR
B. Wilson
Cartographic Tech.
March 1, 1971

Approved:

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

October 26, 1970

GEOGRAPHIC NAMES

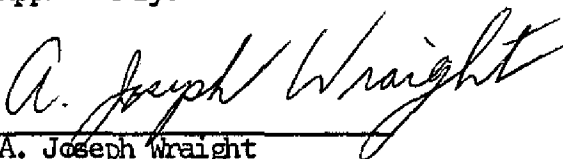
FINAL NAME SHEET

PH-6909 (Alaska)

T-12463

- ✓ Big Level Island
- ✓ Kupreanof Island
- ✓ Level Islands
- ✓ Little Level Island
- ✓ Sumner Strait

Approved by:


A. Joseph Wright
Chief Geographer

Prepared by:


Frank W. Pickett
Cartographic Technician

NOAA FORM 75-74 (7-75)		U.S. DEPARTMENT OF COMMERCE NOAA NATIONAL OCEAN SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW			
TP - 12463			
1. PROJECTION AND GRIDS values checked by BW	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 ALS	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 ALS	17. LANDMARKS ALS	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 3/5/71		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. Perkinson</i> 7/74 <i>A. L. Shands</i> 11/75 <i>G. d. Schuch</i> Reviewer: <i>R. Gustafson</i> 7/74		SUPERVISOR <i>Albert C. Rauck, Jr.</i> A. C. Rauck, Jr.	
43. REMARKS <i>Albert C. Rauck, Jr.</i> 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-12480	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	Kacnamara 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-12463

SUMNER STRAIT - LITTLE LEVEL ISLAND

SOUTHEAST ALASKA

AUGUST 1971

The field edit of map T-12463 was done by LTJG. Howard W. Herz and LTJG. Russell C. Arnold during August 1971. Inspection was done by foot and various small boats.

METHOD

Field photographs and a copy of the field ozalid were taken into the field. The MHWL was verified by visual inspection of the shoreline, photographs and ozalids in the field. Isolated rocks, limits and high point of ledges were located by sextant fixes. Limits of kelp were verified by visual inspection. In areas where the shoreline was corrected, corrections are shown on the photographs, boatsheet and manuscripts.

Notes have been made in red ink on the photographs and have been cross referenced on the Field Edit Ozalids by photograph number. All times are on 105°W meridian. Notes for this manuscript have been made on the following photographs:

69R2040

69E2047

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,

Howard W. Herz
Howard W. Herz
LTJG. NOAA

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 (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°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 NAVIGATIONLANDMARKS

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

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by

car Gerald E. Sabin

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 considered for the charts of the area and not by individual survey sheets. Information under each column heading should be given.

FORM C&GS-504 U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY	
FIELD EDIT DESCRIPTIVE REPORTS	
Type of Survey <u>FIELD EDIT</u>	
Field No. <u>n/a</u> Office No. <u>T-13376-78 & T-12462-65</u>	
LOCALITY	
State <u>ALASKA</u>	
General locality <u>SOUTHEAST</u>	
Locality <u>SUMNER STRAIT</u>	
<u>19 75</u>	
CHIEF OF PARTY CDR M. H. FLEMING, NOAA	
LIBRARY & ARCHIVES	
DATE _____	

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 (COMLOT 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 R292320# 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-12463

LITTLE LEVEL ISLAND

OPR 448

SUMNER STRAIT, AK

NOAA SHIP DAVIDSON

CDR M.H. FLEMING, COMMANDING

-1975-

(51 METHODS)

Field edit on TP-12463 was accomplished under project instructions OPR-448-DA-75, Change No. 2, dated 7 July 75, as per Change No. 4-75 PMC OPOORDER.

OPOORDER procedures for field edit with HYDROPLOT support, not in conjunction with hydrography were used.

A Field Edit Sheet and field photographs 69-E(c)-2048, 69-E(c)-2049, 69-E(c)-2040, and 69-E(c)-2041 were taken into the field to investigate and identify features. The field investigation was performed on September 18 and 19, 1975. A small skiff was used during low tide and was equipped with Motorola MINIRANGER equipment (Console #716 and R/T #709).

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 photographs 69-E(c)-2048, 69-E(c)-2049, 69-E(c)-2040, and 69-E(c)-2041.

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

(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 HYDRO-PLOT 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-12463

SHORELINE

August 21, 1979

61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report. Triangulation Station LEVEL, 1929 was repositioned on the map during final review.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Topographic index does not indicate the existence of any prior topographic surveys of the area. Comparison was made with registered hydro Survey Number 5017, 1:20,000 scale, dated 1929. No significant differences were noticed.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quadrangle, Petersburg (B-4) Alaska, 1:63,360 scale, dated 1949. Triangulation station NEXT, 1929 is shown on the Quad to be on an island. That area is shown on the map as a point of land.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with a copy of Final Verified Smooth Sheet H-9268 (DA-10-10-71) and Registered Smooth Sheet H-9221 (DA-10-9-71).

Changes, deletions and additions to the map resulting from application of the field edit of 1975 are not reflected on the smooth sheets.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 17382, 1:80,000 scale, 11th edition dated March 26, 1977.

Several rocks shown on the chart are not shown on the map. These areas were identified by the field editor as dense kelp.

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, AMC

Approved for forwarding:

Billy H. Barnes

B. H. Barnes
Chief, Photogrammetric Branch, AMC

Approved: *John D. Perrow Jr.*

John D. Perrow Jr.
Chief, Photogrammetric Branch

Walter L. 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 DZALIDS