T-13340

ORIGINAL

T-13340

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-13340

Classification No. Final *Edition No.* 1

Field Edited Map

LOCALITY

State ... Alaska

General Locality ... Sumner Strait

Locality ... Totem Point

1969 TO 1971

REGISTRY IN ARCHIVES

DATE ...

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

NOAA FORM 76-36A (3-72) — U. S. DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY: [X] ORIGINAL; [ ] RESURVEY; [ ] REVISED

SURVEY TP 13340

MAP EDITION NO. (1)

MAP CLASS Final

JOB PH. 6909

PHOTOGRAMMETRIC OFFICE: Coastal Mapping Division, Norfolk, Va.

OFFICER-IN-CHARGE: Jeffrey Carlen, CDR/NOAA

LAST PRECEEDING MAP EDITION

TYPE OF SURVEY: [ ] ORIGINAL; [ ] RESURVEY; [ ] REVISED

JOB PH.

MAP CLASS

SURVEY DATES: 19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE		2. FIELD	
Aerotriangulation	October 2, 1969	Premarking	May 14, 1969
Compilation	September 14, 1970		
Compilation	November 6, 1970		
Compilation Amend I	November 20, 1970		

II. DATUMS

1. HORIZONTAL: [X] 1927 NORTH AMERICAN — OTHER (Specify)

2. VERTICAL: [X] MEAN HIGH-WATER; [ ] MEAN LOW-WATER; [X] 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	BY	R. Kelly	Apr 1970
METHOD: Analytic	LANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	P. Dempsey	Aug 1970
METHOD: Coradomat	CHECKED BY	P. Dempsey	Aug 1970
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	A. Shands	Oct 1970
	CHECKED BY	L. Graves	Oct 1970
INSTRUMENT: Wild B-8 and graphic	CONTOURS BY	NA	
SCALE: 1:15,000	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	A. L. Shands	Nov 1970
	CHECKED BY	E. Pursel Jr.	Dec 1970
METHOD: Smooth drafted	CONTOURS BY	NA	
	CHECKED BY	NA	
SCALE: 1:10,000	HYDRO SUPPORT DATA BY	A. L. Shands	Nov 1970
	CHECKED BY	E Pursel, Jr	Dec 1970
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	E. Pursel, Jr.	Dec 1970
6. APPLICATION OF FIELD EDIT DATA	BY	B. Wilson	Dec 1970
	CHECKED BY	C. Blood	Dec 1970
7. COMPILATION SECTION REVIEW	BY	C. Blood	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	E. L. DAUGHERTY	JUN 1980

NOAA FORM 76-36A — SUPERSEDES FORM C&GS 181 SERIES

* U.S. G.P.O. 1972-769382/582 REG.#6

NOAA FORM 76-36B
(3-72)

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

T-13340

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild RC-8 "E"

TIDE STAGE REFERENCE
- [X] PREDICTED TIDES
- [ ] REFERENCE STATION RECORDS
- [ ] TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY LEGEND
- (C) COLOR
- (P) PANCHROMATIC
- (I) INFRARED

TIME REFERENCE
ZONE: Pacific — [X] STANDARD
MERIDIAN: 120th — [ ] DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
69E(C) 1010 - 1011	8/5/69	13:02	1:30,000	3.1 ft. above MLLW
69E(C) 2034 - 2035	8/24/69	14:36	1:20,000	7.6 ft. above 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 augmented by field annotations.

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
T-13339	T-13341	No survey	T-13338

REMARKS

NOAA FORM 76-36C
(3-72)

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

T-13340

HISTORY OF FIELD OPERATIONS

I. [X] 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	None	
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	None	
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: [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [XX] NO INVESTIGATION — BY		
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 [X] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [X] NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

None

☆U.S. Government Printing Office: 1975 — 665-661/1110, Region No. 6

NOAA FORM 76-36C
(3-72)

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

T-13340

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		G. Saladin	Jun 1971
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 ☐ COMPLETE ☒ SPECIFIC NAMES ONLY ☐ NO INVESTIGATION BY	G. Saladin	Jun 1971
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) 1010

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)*

1-Field Edit Report
1-Field Edit Ozalid

☆U.S. Government Printing Office: 1975 – 665-661/1110, Region No. 6

NOAA FORM 76-36D
(3-72)

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

T-13340

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	Dec 1970	Class III manuscript	12/17/70	12/14/70
Field Edit applied (None south of 56°26'30")	Dec 1971	Class I manuscript	None	
Final Review	Oct 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:

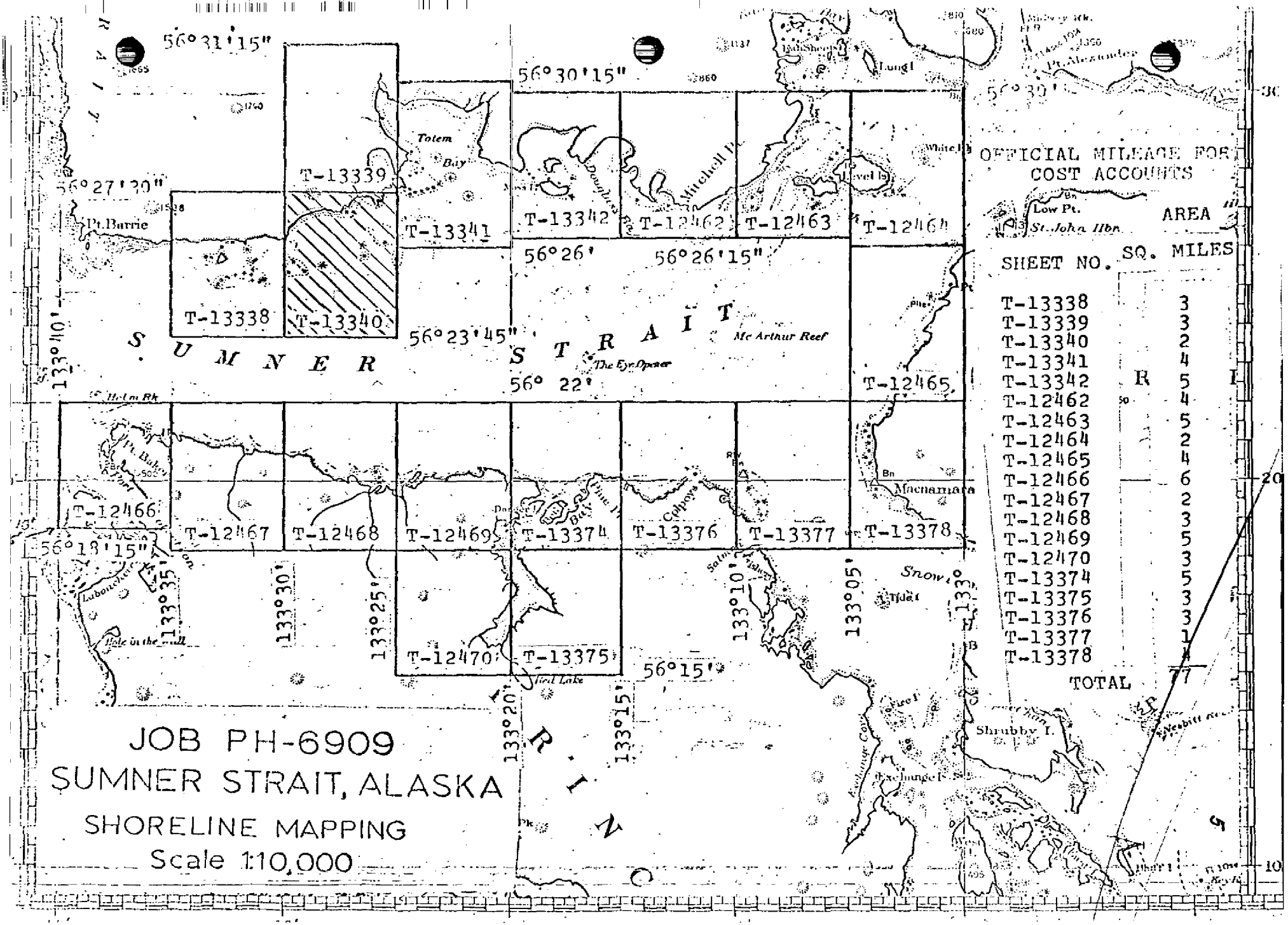
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

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

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

NOAA FORM 76-36D

☆U. S. GOVERNMENT PRINTING OFFICE: 1973--778075/1077 REGION NO. 6


56°31'15"
56°30'15"
56°27'30"
56°26'
56°26'15"
56°23'45"
56° 22'
56°18'15"
56°15'
133°40'
133°35'
133°30'
133°25'
133°20'
133°15'
133°10'
133°05'
133°
T-13339
T-13341
T-13342
T-12462
T-12463
T-12464
T-13338
T-13340
T-12465
T-12466
T-12467
T-12468
T-12469
T-13374
T-13376
T-13377
T-13378
T-12470
T-13375
SUMNER STRAIT
Totem Bay
Pt. Barrie
Mc Arthur Reef
The Eye Opener
Pt. Baker
Macnamara
Snow I.
Shrubby I.
Hole in the Wall
Low Pt.
St. John Hbr.
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
JOB PH-6909
SUMNER STRAIT, ALASKA
SHORELINE MAPPING
Scale 1:10,000

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

T-13340

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.

25. Photography

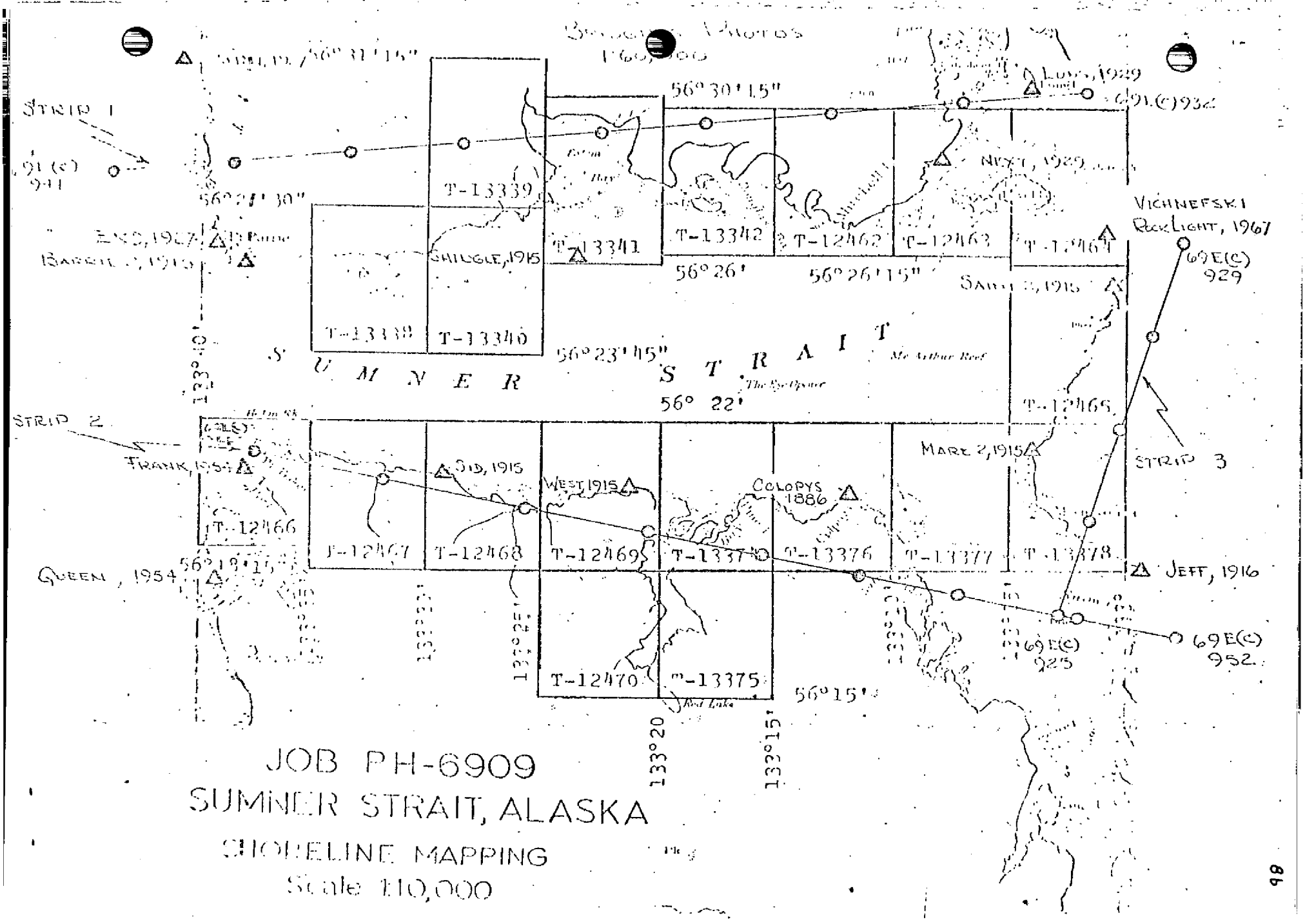
Photography was adequate as to coverage, overlap and definition.

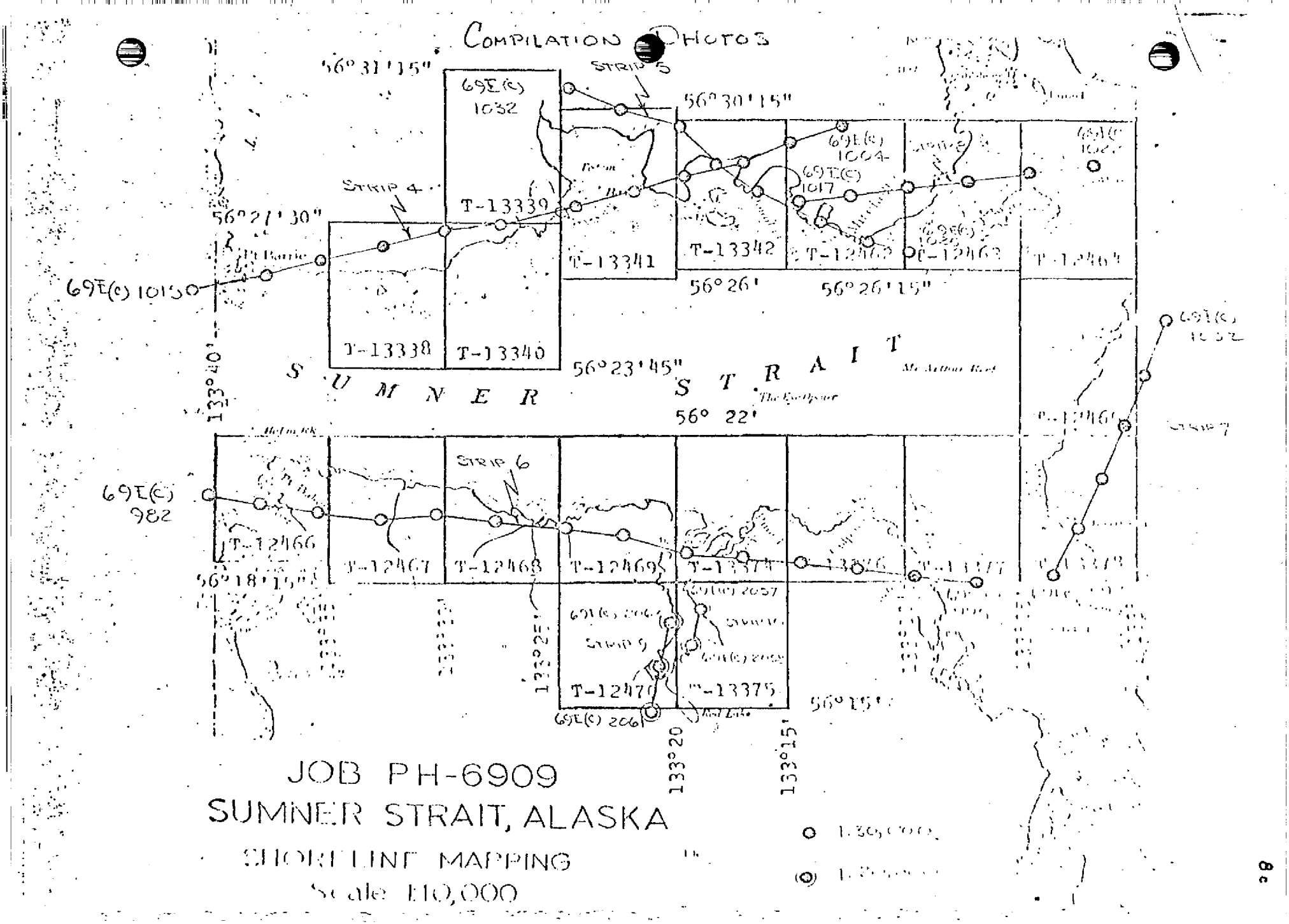
Submitted by,

Robert B. Kelly

Approved and forwarded,

Henry P. Eichert
Chief, Aerotriangulation
Section


STRIP 1
STRIP 2
STRIP 3
SUMNER STRAIT
56° 30' 15"
56° 26' 30"
56° 26'
56° 26' 15"
56° 23' 45"
56° 22'
56° 19' 15"
56° 15'
133° 10'
133° 20'
133° 15'
T-13339
T-13338
T-13340
T-13341
T-13342
T-12462
T-12463
T-12464
T-12465
T-12466
T-12467
T-12468
T-12469
T-13374
T-13376
T-13377
T-13378
T-12470
T-13375
SHIGGLE, 1915
SID, 1915
WEST 1915
COLOPYS 1886
MARE 2, 1915
JEFF, 1916
FRANK, 1954
QUEEN, 1954
VICHNEFSKI ROCK LIGHT, 1967
69E(C) 929
69E(C) 952
69E(C) 225
JOB PH-6909
SUMNER STRAIT, ALASKA
SHORELINE MAPPING
Scale 1:10,000



JOB PH-6909
SUMNER STRAIT, ALASKA
SHORELINE MAPPING
Scale 1:10,000

LEGEND

Δ CONTROL USED IN ADJUSTMENT

( ) CLOSURES OF BRIDGE TO CONTROL SHOWN IN PARENTHESIS

Δ CONTROL USED AS CHICK.

STRIP 1

Δ LONG, 1929 (-0.9, +1.1) FT
Δ NEXT, 1929 (+1.0, -1.9)
Δ SLINGER, 1915 (0.0, +1.0)
Δ BARRIE 2, 1915 (+0.9, -3.3)
Δ END, 1927 (+0.3, -0.4)

STRIP 2

Δ FRANK, 1954 (0.0, -0.5)
Δ QUEEN, 1954 (-0.5, +1.6)
Δ SID, 1915 (+0.1, +0.5)
Δ WEST, 1915 (-0.5, +0.9)
Δ COLFOVE, 1886 (+0.2, -1.4)
Δ JEFF, 1916 (-0.5, +0.4)

STRIP 3

Δ JEFF, 1916 (0.0, +0.3)
Δ MAINZ 2, 1915 (-0.7, -0.3)
Δ SAINT 2, 1915 (+2.1, +0.4)
Δ WINNEFSKI ROCK LT, 1967 (-1.6, -0.6)

NOAA FORM 76-41
(6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
T-13340	PH-6909	NA 1927	Coastal Mapping Division, Norfolk, Va.

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE Alaska ZONE 1	GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE	REMARKS FORWARD BACK
NONE			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	
			x=	ϕ	
			y=	λ	
			x=	ϕ	
			y=	λ	

COMPUTED BY	DATE	COMPUTATION CHECKED BY	DATE
LISTED BY	DATE	LISTING CHECKED BY	DATE
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

6

COMPILATION REPORT

T-13340

SHORELINE

31. DELINEATION:

Most of the detail on the manuscript was compiled using the Wild B-8 stereo plotter. There was no prior field inspection. Most of the foul and reef areas thru the center of the sheet were compiled graphically because they could not be seen on the models that were set up on the B-8, due to high sun glare.

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:

See "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. Mean high water line was compiled by office interpretation.

36. OFFSHORE DETAILS:

See Item 31.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Junctions are in agreement with T-13339 to the north, T-13338 to the west and T-13341 to the east. There is no survey to the 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.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with Chart #8201, scale 1:217,828, 15th edition, dated November 5, 1969.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Albert C. Rauck Jr. FOR
Elmer Pursel, Jr.
Dec. 1, 1970

Approved:

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

//

September 23, 1970

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6909 (Alaska)

T-13340

Kupreanof Island

Sumner Strait

Totem Point

Approved by:

A. J. 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-13340

1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
EP	EP	EP	EP

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY *(Topographic stations)*	7. PHOTO HYDRO STATIONS
EP	NA	NA

8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
NA	CB	EP	EP

ALONGSHORE AREAS *(Nautical Chart Data)*

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
EP	EP	EP	EP

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
CB	CB	EP	EP

PHYSICAL FEATURES

20. WATER FEATURES	21. NATURAL GROUND COVER	22. PLANETABLE CONTOURS
EP	EP	NA

23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
NA	NA	NA	EP

CULTURAL FEATURES

27. ROADS	28. BUILDINGS	29. RAILROADS	30. OTHER CULTURAL FEATURES
EP	EP	EP	EP

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
NA	NA

MISCELLANEOUS

33. GEOGRAPHIC NAMES	34. JUNCTIONS	35. LEGIBILITY OF THE MANUSCRIPT
EP	EP	EP

36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
EP	BW	CB	EP

40. REVIEWER	SUPERVISOR, REVIEW SECTION OR UNIT
Elmer Pursel Jr. Dec. 1, 1970 Albert C. Rauck Jr. For	Albert C. Rauck Jr. 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	SUPERVISOR
A. C. Rauck Jr. For B. Wilson 12/16/71 Reviewer: C. Blood 12/20/71	Albert C. Rauck Jr. A. C. Rauck, Jr.

43. REMARKS
Field Edit applied from: See forms 76-36C Items 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-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	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	Totem Bay
Red 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-13340

SUMNER STRAIT - TOTEM BAY

SOUTHEAST ALASKA

JUNE 1971

The field edit of map T-13340 was done by LTJG. Russell C. Arnold on June 15, 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. 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: 69E(C)1010.

ADEQUACY OF COMPILATION

The compilation of this map was good. The MHWL is accurate in both configuration and location with exceptions 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,

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°21'05"N; Long.133°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°20'00"N; Long.133°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°19'35"N; Long.133°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°20'N; Long.133°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°15'38"N; Long. 133°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° 16'22"N; Long.133°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°15'45"N; Long.133°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°28'N; Long.133°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°27'10"N; Long.133°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 recomended 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 AILS 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.

#		C&GS	CG
----	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

FORM C&GS-567
(5-66)

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

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE REVISED } STRIKE OUT TWO
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 _____

CDR Gerald C. Sabin
Chief of Party.

STATE / CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE* ° ′	LATITUDE* ″ D.M. METERS	LONGITUDE* ° ′	LONGITUDE* ″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	MARKER CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				52.080		50.837	NA	TRIANG.			X		8160
R Bn	MACNAMARA Pt. DAYBEACON	—	56 19	1610.8	133 03	873.5	1927	—	8-26-71				8201
				8.144		14.983	NA	TRIANG.			X		8160
Bn W	FOREMOST ROCK DAYBEACON	—	56 30	251.9	133 00	247.8	1927	DA-10-9-71	8-26-71				8201
				11,791		94.271	NA	TRIANG.			X		8160
	POINT COLLOYS LIGHT, 1967	802	56 20	364.7	133 11	760.6	1927	DA-10-8-71	8-26-71				8201
				10.557		30.218	NA	TRIANG.			X		8160
	THE EYE OPENER LIGHT, 1967	824	56 23	326.5	133 16	518.5	1927	DA-10-8-71	8-26-71				8201
				10.664		40.813	NA	TRIANG.			X		8160
RW Bn	BAY POINT DAYBEACON, 1967	—	56 20	329.8	133 09	701.2	1927	—	8-26-71				8201
				19.922		49.748	NA	TRIANG.			X		8160
	VICHNEFSKI ROCK LIGHT, 1967	193	56 26	597.6	133 00	852.4	1927	DA-10-10-71	8-26-71				8201

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 redeter 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 individ ld survey sheets. Information under each c heading should be given.

* TABULATE SECONDS AND METERS

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REVIEW REPORT
T-13340
SHORELINE

October 26, 1979

61. GENERAL STATEMENT:

See Summary, page 6 of this descriptive report.

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 time and advancements in survey equipment, procedures and techniques. T-13340 supersedes survey No. 1749 for chart construction 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 foreshore and offshore area details on the map are more extensive than on the quadrangle. Totem Point is shown on the quadrangle at the tip of a small island. This area is connected to the larger Kupreanof Island on the map. General uplift of the area is indicated.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with a copy of Registered Smooth Sheet H-9217 (DA-10-5-71).

Delineation of the shoreline and ponds at Totem Point was revised and unlabeled dashed areas in the cove west of Totem Point were labeled during final review. A large reef area was identified by the field editor at lat. 56° 26.8', long. 133°27.3'. Glare and a lack of resolution of the photograph (69E(C)-1010) prevented accuracy in placement and configuration of the feature. The placement and configuration of this feature on the smooth sheet was deemed more accurate after examining larger scale photographs of the area. As a result, the reef area was deleted from the map during final review.

Soundings of 2.3 fathoms pass directly through the area labeled "Reef" on the Class I Map at lat. 56°26.7', long. 133°29.6'. That area was relabeled "subm reef" during final review.

65. COMPARISON WITH NAUTICAL CHARTS:

The map was compared with Chart 8201, 1:217,828 scale, 11th edition dated March 4, 1963. Differences are due to time and scale.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with 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:

B. H. Barnes
Chief, Photogrammetric Branch, AMC

Approved:

John D. Perrow Jr.
Chief, Photogrammetric Branch

Chief, Photogrammetry Division

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SURVEY
ATLANTIC MARINE CENTER
439 West York Street
Norfolk, VA 23510

December 11, 1979

TO: Chief, Hydrographic Surveys Division
C35
A. L. Shands

FROM: A. L. Shands
Final Reviewer, AMC

SUBJECT: Changes made to Class I Maps during Final Review

The following is a list of changes made to Class I Maps which affect contemporary hydrographic surveys of the area of Sumner Strait, Alaska.

T-13340

1. The shoreline at Totem Point was revised to more accurately reflect the field editors recommendation and the photographic evidence.

2. The large reef WSW of Totem Point was deleted from the map to avoid conflict with that shown on the smooth sheet. The depiction on the smooth sheet more closely resembles images on the photographs.

3. Several unlabeled areas enclosed with dashed lines are shown on the Class I Map in the cove area west of Totem Point. These were labeled "Kelp" during final.

T-13341

1. Position of reef 2 miles N.E. of Shingle Island was revised to agree with photo position. Field editors identification of this feature on ratio photo 69E(C)2038 is in obvious error. See ratio photo 67E(C)577; stage of tide = -0.2 ft.

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 OZALIDS