

TP-00910

TP-00910

NOAA FORM 76-35 (3-76)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
This map edition will not be field checked	
Map No. TP-00910	Edition No. I
Job No. CM-7709	
Map Classification III	
Type of Survey SHORELINE	
LOCALITY	
State ALASKA	
General Locality Kodiak Island- Cape Alitak To Cape Kuliuk	
Locality Amook Island	
19 77 TO 19	
REGISTRY IN ARCHIVES	
DATE	

MAP NOT INSPECTED BY
QUALITY CONTROL OF PHOTOGRAMMETRY BRANCH
PRIOR TO REGISTRATION

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		SURVEY TP. 00910 MAP EDITION NO. (1) MAP CLASS III JOB XCH CM-7709	
DESCRIPTIVE REPORT - DATA RECORD				LAST PRECEDING MAP EDITION			
PHOTOGRAMMETRIC OFFICE Pacific Marine Center Seattle, Washington				TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
OFFICER-IN-CHARGE Ned C. Austin, CDR, NOAA							
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Photography May 10, 1977 Office August 6, 1982				Field May 3, 1977 Field (Change 1) March 3, 1981 Field (Change 2) July 21, 1981			
II. DATUMS							
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN				OTHER (Specify) None			
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input checked="" type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL				OTHER (Specify) None			
3. MAP PROJECTION Transverse Mercator				4. GRID(S) STATE Alaska ZONE 5			
5. SCALE 1:20,000				STATE ZONE			
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY METHOD: Coradi plotter LANDMARKS AND AIDS BY				B. Thornton		Jan. 1981	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Analytic CHECKED BY				B. Thornton		Jan. 1981	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY				D. Butler		Apr. 1983	
INSTRUMENT: Wild B-8 stereoplotter CONTOURS BY				J. Minton		Apr. 1983	
SCALE: 1:20,000 CHECKED BY				NA			
4. MANUSCRIPT DELINEATION PLANIMETRY BY				D. Holeski		June 1983	
METHOD: Smooth drafted and Graphic				D. Butler		July 1983	
SCALE: 1:20,000 HYDRO SUPPORT DATA BY				NA			
CHECKED BY				NA			
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				NA			
6. APPLICATION OF FIELD EDIT DATA BY				NA			
CHECKED BY				NA			
7. COMPILATION SECTION REVIEW BY				D. Butler		July 1983	
8. FINAL REVIEW BY				E. D. Allen		June 1984	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY							
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				E. Allen		June 1984	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				E. DAUGHERTY		11/11/84	

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

COMPILATION SOURCES

TP-00910

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild R. C. 10 "C" (88.47 mm Focal length)		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC R <input checked="" type="checkbox"/> INFRARED B&W		ZONE Alaska 10th	<input checked="" type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN 150 th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
77C(P) 4599-4605	June 28, '77	2212	1:50,000	10.8 ft. above MLLW	
77C(R) 5027-5032	July 1, '77	2228	1:50,000	15.0 ft. above MLLW	
77C(R) 5489-5493	July 17, '77	1930	1:50,000	0.7 ft. above MLLW	

REMARKS

The subordinate tide gage used to predict the stage of tide of the photographs is located at Mining Camp. Mean high water is at 13.1 ft. above MLLW.

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from the above listed bridged panchromatic photographs, and verified from office interpretation of the listed infrared photographs that are based on predicted tides.

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

The mean lower low water line was compiled from the above listed infrared photographs that are based on predicted tides.

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
TP-00906 E TP-00908 E	No Survey	TP-00912	NO Survey

REMARKS

TP-00906 E is a 1:10,000 scale manuscript.

TP-00910
HISTORY OF FIELD OPERATIONS1. ☒ FIELD ~~RECOVERY~~ OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Melby	June 1977
2. HORIZONTAL CONTROL	RECOVERED BY R. Melby	June 1977
	ESTABLISHED BY None	--
	PRE-MARKED OR IDENTIFIED BY L. Riggers	June 1977
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 <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	--
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY None	--

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

Premark

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
77C 4603	BRIDGE 2 USE, 1952 ✓		

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)

One Form 76-53 (CSI for station BRIDGE 2 USE, 1952 which was premarked)

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONTP-00910
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	July 20, 1983	Class III manuscript		
Final Review Map	June 29, 1984	Class III manuscript	OCT 24 1984	

II. LANDMARKS AND AIDS TO NAVIGATION

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

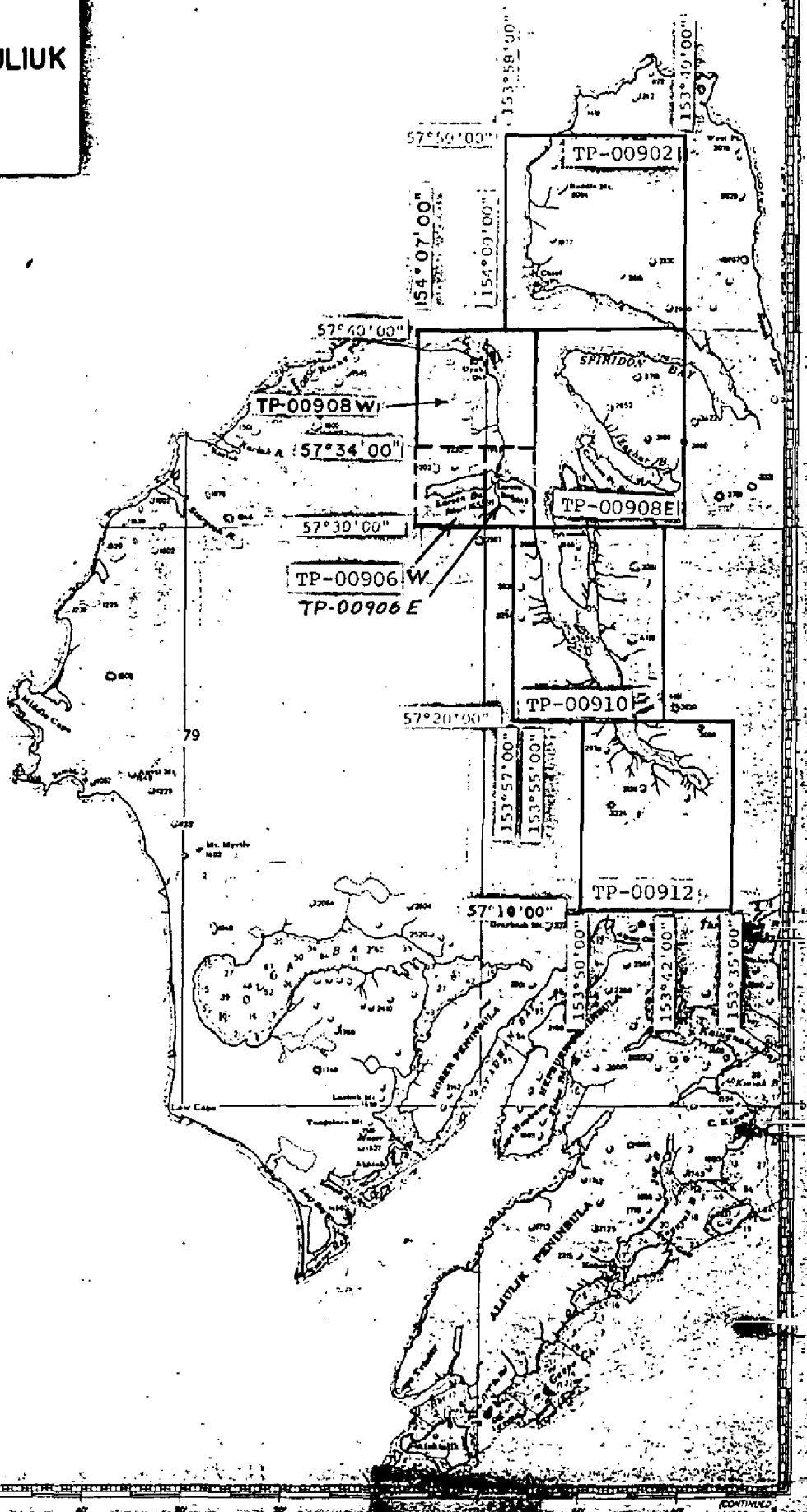
1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS. ~~507~~ SUBMITTED BY FIELD PARTIES.
 3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
 ACCOUNT FOR EXCEPTIONS:

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	

CM-7709
KODIAK ISLAND
CAPE ALITAK TO CAPE KULIUK
ALASKA
SHORELINE MAPPING
SCALE 1:10,000 & 1:20,000



REVISED 10-10-83 WDB
REVISED 7-12-82 EPQ
REVISED 4-17-81 RN

SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT
TP-00910

This 1:20,000-scale shoreline map is one of seven maps in project CM-7709. The area covered is in Kodiak Island, Alaska.

Field operations consisted of aerial photography and the recovery, establishment, and identification (premarking) of horizontal control necessary for aerotriangulation. Ten horizontal control stations were established and paneled. There was no field inspection performed.

Panchromatic photographs were taken at scales of 1:30,000 and 1:50,000 in June 1977, infrared photographs at 1:50,000 scale in July 1977. The 1:50,000-scale photographs were taken with the Wild RC-10(C) camera and the 1:30,000-scale photographs with the RC-8(E).

Four strips of panchromatic photographs were bridged using analytic aerotriangulation methods, three strips 1:50,000 scale, one strip 1:30,000. Geodetic control used was premarked (paneled). Tie points between strips were located and used as additional control to ensure adequacy and meets the requirements of National Standards of Map Accuracy.

Tidal stages concurrent with photography were determined based on predicted tides at Seldovia, Alaska, with subordinate stations at Uyak Bay, Larsen Bay, and Mining Camp.

Compilation was performed by Photogrammetric Unit, Pacific Marine Center, Seattle, Washington. The map delineation was based on office interpretation of 1:50,000-scale panchromatic photographs.

Final Review was performed by the Rockville Office. This map was found to be satisfactory and meets the requirements of National Standards of Map Accuracy.

FIELD INSPECTION

TP-00910

CM-7709

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.

Photogrammetric Plot Report

Kodiak Island, Alaska

CM-7709

January 1981

21. Area Covered

The area covered by this project extends from Twocone Pt. on Shelikof Strait down to the southern end of Uynk Bay, Alaska. This segment of the project area is covered by four 1:20,000 scale sheets: TP-00902, TP-00908, TP-00910, TP-00912, and three 1:10,000 scale sheets TP-00906 East, TP-00906 West, and TP-00907.

This job and report reflects only part of the entire project area of CM-7709.

22. Method

Three strips of 1:50,000 scale photography and one strip of 1:30,000 scale photography were bridged by analytic aerotriangulation methods. The strips of bridging photography were controlled by field identified control and in the case of the 1:30,000 scale bridging strip, additional tie points were used for control to ensure an adequate adjustment and junction of all the strips. Compilation points were established and ratio points determined for the MHW, MLLW, and the hydro support photography and ordered by this office.

The manuscripts were plotted by the Coradi plotter using the Alaska State Plane coordinate system in Zone 5.

23. Adequacy of Control

One of the bridging strips (Strip 2) caused difficulty in adjusting. This office was unable to determine the cause of the problem, but the control checked within National Standards of Map Accuracy and is sufficient for its intended use. All other control checked within these standards.

24. Supplemental Data

USGS quadrangles were used to provide vertical control for the strip adjustments.

25. Photography

The coverage, overlap, and quality of the photography were adequate for the job.

26. Change in Project Diagram

Sheet TP-00906 was changed into two sheets, TP-00906 East and TP-00906 West. This change was necessary because the oversized sheet exceeded the 430 plot programs projection limitations for that scale sheet.

Submitted by,



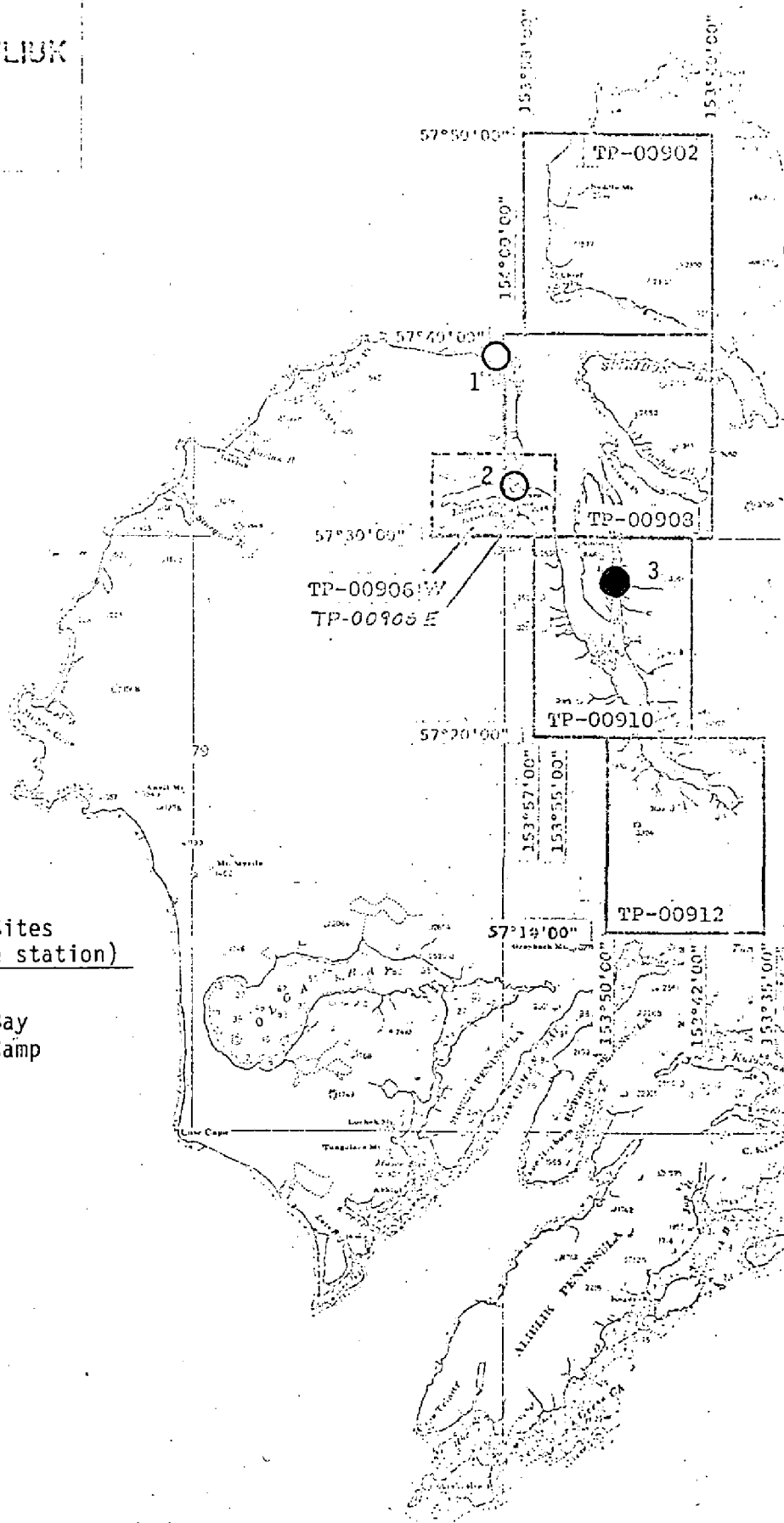
Brian Thornton

Approved and Forwarded:



Don O. Norman
Chief, Aerotriangulation Section

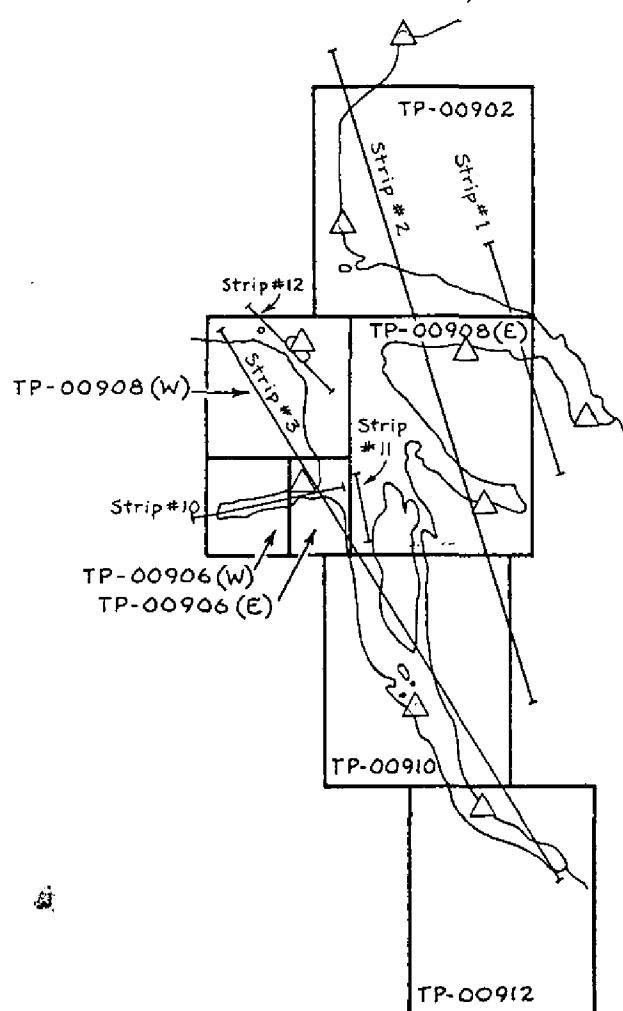
CM-7709
 KODIAK ISLAND
 CAPE ALITAK TO CAPE KULIUK
 ALASKA
 SHORELINE MAPPING
 SCALE 1:10,000 & 1:20,000



● Tide Gage Sites
 (subordinate station)

1. Uyak
2. Larsen Bay
3. Mining Camp

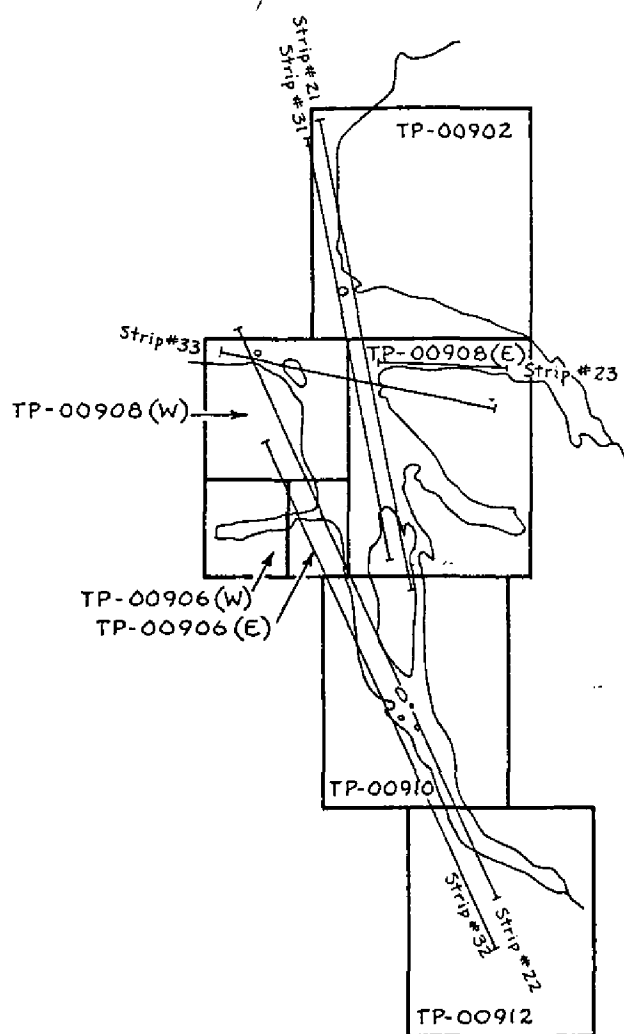
REVISED 4-21-83 DPB
 REVISED 7-12-82 RPB
 REVISED 4-17-81 RPB



BRIDGING PHOTOGRAPHY

STRIPS 1,2,&3
1:50,000STRIPS 10,11,&12
1:30,000

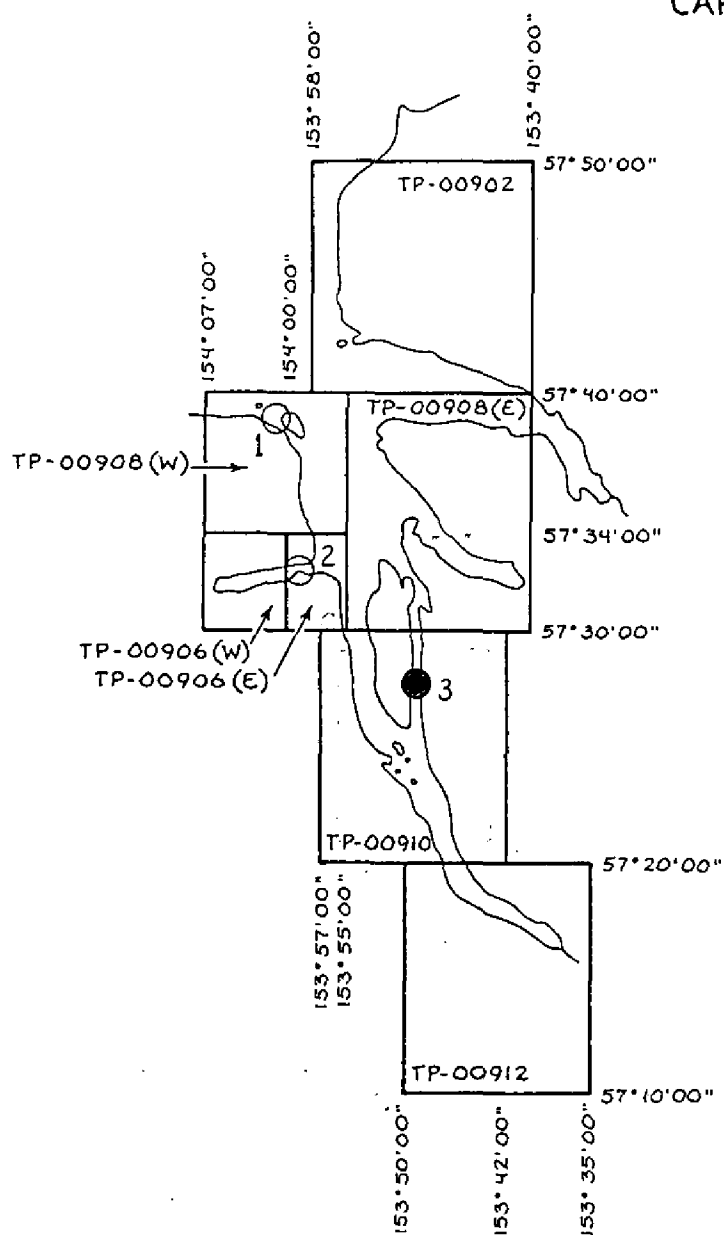
NOTE: STRIPS 11&12 WERE NOT BRIDGED. THIS PHOTOGRAPHY WAS CONTROLLED BY TRANSFERRING IMAGE POINTS FROM THE 1:50,000 SCALE BRIDGED PHOTOGRAPHS



INFRARED TIDE COORDINATED PHOTOGRAPHY

STRIPS#31,32,&33 MHW
STRIPS#21,22,&23 MLLW

CM-7709
 KODIAK ISLAND
 CAPE ALITAK TO CAPE KULIUK
 ALASKA
 SHORELINE MAPPING
 SCALE 1:10,000 & 1:20,000



● Tide Gage Sites
 (subordinate stations)

1. Uyak
2. Larsen Bay
3. Mining Camp

THIS PROJECT DIAGRAM SUPERCEDES THE ONE REVISED 7-12-82

COMPILATION REPORT

CM-7709
TP-0091031 - DELINEATION

Delineation was by instrument method using the Wild B-8 stereoplotter and 1:50,000 scale panchromatic photographs. The quality of the infrared photographs was adequate for compilation. The coverage of the photographs was sufficient for compilation.

32 - CONTROL

Refer to the Photogrammetric Plot Report dated January 1981. Placement and distribution of the control was adequate for compilation. Many bridge points were not pugged or described in any way, thus making the identification of them difficult. The accuracy of the control was good, and sufficient for controlling the stereomodels.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter.

35 - SHORELINE AND ALONGSHORE DETAIL

The Mean High Water Line was office edited using the black-and-white infrared ratio photo graphs.

The Mean Lower Low Water Line was graphically delineated from office stereoscopic interpretation of the black-and-white infrared ratio photographs. There were numerous areas of the MLLW line that were delineated monoscopically.

36 - OFFSHORE DETAIL

The quality of the infrared photographs was adequate for confirming charted offshore detail. The MHW and MLLW lines were faintly visible on most of the photographs, but the areas offshore were not clear enough for positive identification.

37 - LANDMARKS AND AIDS TO NAVIGATION

There were no charted landmarks or aids to navigation within the mapping limits of this manuscript.

COMPILATION REPORT (CONT'D.)

CM-7709
TP-0091038 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

Refer to the "Compilation Sources," NOAA Form 76-36B, item 5.

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report dated January 1981, and item 32 of this report.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S. Geological Survey quadrangles:

Kodiak, scale 1:250,000, dated 1952 (rev. 1967).

Kodiak (B-6), scale 1:63,360, dated 1952 (rev. 1966).

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following National Ocean Survey charts:

16597, 6th Edition, dated August 1978, scale 1:80,000.

16580, 8th Edition, dated October 1981, scale 1:350,000.

Differences between the compilation manuscript and the nautical chart were noted on the Chart Comparison Overlay.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

COMPILATION REPORT (CON'T.)

CM-7709
TP-00910

48 - GEOGRAPHIC NAMES LIST

None.

Submitted by:

Daniel C. Holeski

Daniel Holeski
Cartographer

Approved by:

James W. Massey

James W. Massey
Chief, Photogrammetry Section
Pacific Marine Center

REVIEW REPORT TP-00910
SHORELINE
JUNE 1984

61. GENERAL STATEMENT

Refer to Summary bound with this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

None

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Refer to Compilation Report, paragraph 46, bound with Descriptive Report.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

None.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following charts:

16597, 6th Edition, August 1978, Scale 1:80,000.

16580, 8th Edition, October 1981, Scale 1:350,000.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with the project instructions and meets National Map Accuracy Standards.

67. PHOTOGRAPHS

Panchromatic and infrared (B&W) photographs were taken in June and July 1977 with the Wild RC-10(C) camera. These photographs were taken at scale 1:50,000 as mentioned in the Plot Report. The photographs were used to complement each other.

Submitted By:



Edward D. Allen
Cartographer

Approved and Forwarded:

Chief, Photogrammetric Section

Chief, Photogrammetry Branch

October 19, 1983

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7709 (Cape Alitak to Cape Kuliuk, Alaska)

TP-00910

Aleutian Island

Alf Island

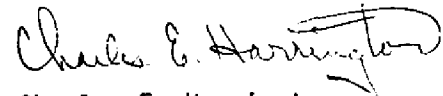
Amook Bay

Amook Island

Kodiak Island

Uyak Bay

Approved by:



Charles E. Harrington
Chief Geographer
Nautical Charting Division

DISSEMINATION OF PROJECT MATERIAL
CM-7709

NATIONAL ARCHIVES/FEDERAL RECORDS CENTER

Job Completion Report

Brown Jacket:

Photogrammetric Plot Report Copies
Geographic Names Copies
Computer Listings
Project Diagrams
NOAA Forms 76-53
76-40
76-15
76-41

BUREAU ARCHIVES

Registered Copy of Each Map
Descriptive Report of Each Map

REPRODUCTION DIVISION

8x Reduction Negative of Each Map

OFFICE OF STAFF GEOGRAPHER

Geographic Names Standard

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

[illegible]