

TP-00908 E

TP-00908 E

NOAA FORM 76-35 (3-76) U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
<h2 style="text-align: center;">DESCRIPTIVE REPORT</h2>	
This map edition will not be field checked	
Map No. TP-00908 E	Edition No. I
Job No. CM-7709	
Map Classification III	
Type of Survey SHORELINE	
<h3 style="text-align: center;">LOCALITY</h3>	
State ALASKA	
General Locality Kodiak Island- Cape Alitak To Cape Kuliuk	
Locality Zachar Bay	
<div style="border: 1px solid black; padding: 5px; text-align: center;"> 1977 TO 19 </div>	
<h3 style="text-align: center;">REGISTRY IN ARCHIVES</h3>	
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. 00908(E) MAP EDITION NO. (1) MAP CLASS III JOB RM -CM-7709	
DESCRIPTIVE REPORT - DATA RECORD				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__	
PHOTOGRAMMETRIC OFFICE Pacific Marine Center Seattle, Washington				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: Analytic LANDMARKS AND AIDS BY				B. Thornton		Jan. 1981	
				None			
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradi plotter CHECKED BY				B. Thornton		Jan. 1981	
				D. Norman		Jan. 1981	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY				D. Butler		Feb. 1983	
INSTRUMENT: Wild B-8 Stereoplotter				J. Minton		Feb. 1983	
SCALE: 1:20,000				NA			
				NA			
4. MANUSCRIPT DELINEATION PLANIMETRY BY				D. Holeski		May 1983	
				D. Butler		July 1983	
METHOD: Smooth drafted and				NA			
Graphic				NA			
SCALE: 1:20,000				NA			
HYDRO SUPPORT DATA BY				NA			
				NA			
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				NA			
				NA			
6. APPLICATION OF FIELD EDIT DATA BY				NA			
				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.D. Allen		June 1984	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				E. DAUGHERTY		Nov 1984	

COMPILATION SOURCES

TP-00908 E

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 W INFRARED		ZONE	
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				Alaska 10 th	
				MERIDIAN	
				150 th	
				<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
77C(P) 4628-4633	June 28, '77	1242	1:50,000	
77C(P) 4612-4613	June 28, '77	1228	1:50,000	
77 C(R) 5040-5042	July 1, '77	1251	1:50,000	14.6 ft. above MLLW
77C(R) 5014-5018	July 1, '77	1209	1:50,000	12.9 ft. above MLLW
77C(R) 5509-5511	July 17, '77	1000	1:50,000	2.3 ft. above MLLW
77C(R) 5479-5483	July 17, '77	0909	1:50,000	0.1 ft. above MLLW

REMARKS

The subordinate tide gage used to predict the stage of tide of the photographs is located at Uyak. MHW is at 13.0 ft above MLLW.

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from the above listed panchromatic photographs, and office interpretation of the infrared photographs listed which 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 which 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 TP-00902	EAST TP-00316 (PH-7017)	SOUTH TP-00910	WEST TP-00908 W TP-00906W
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REMARKS

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00908(E)
HISTORY OF FIELD OPERATIONS

1. <input checked="" type="checkbox"/> FIELD INSPECTION OPERATION				<input type="checkbox"/> FIELD EDIT OPERATION			
OPERATION				NAME		DATE	
1. CHIEF OF FIELD PARTY				R. Melby		June 1977	
2. HORIZONTAL CONTROL				RECOVERED BY		R. Melby	
				ESTABLISHED BY		None	
				PRE-MARKED OR IDENTIFIED BY		L. Riggers	
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 <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION		BY None	
6. PHOTO INSPECTION				CLARIFICATION OF DETAILS BY		None	
7. BOUNDARIES AND LIMITS				SURVEYED OR IDENTIFIED BY		None	
II. SOURCE DATA							
1. HORIZONTAL CONTROL IDENTIFIED				2. VERTICAL CONTROL IDENTIFIED			
Premark				None			
PHOTO NUMBER		STATION NAME		PHOTO NUMBER		STATION DESIGNATION	
77C 4629 ✓		GRE, 1929 ✓					
77C 4633 ✓		LINE, 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)							
2 Forms 76-53 (CSI for stations GRE, 1929 and LINE, 1929 which were premarked).							

NOAA FORM 76-36C
(3-72)

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONTP-00908(E)
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	July 15, 1983	Class III manuscript		
Final Review Map	June 28, 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: _____

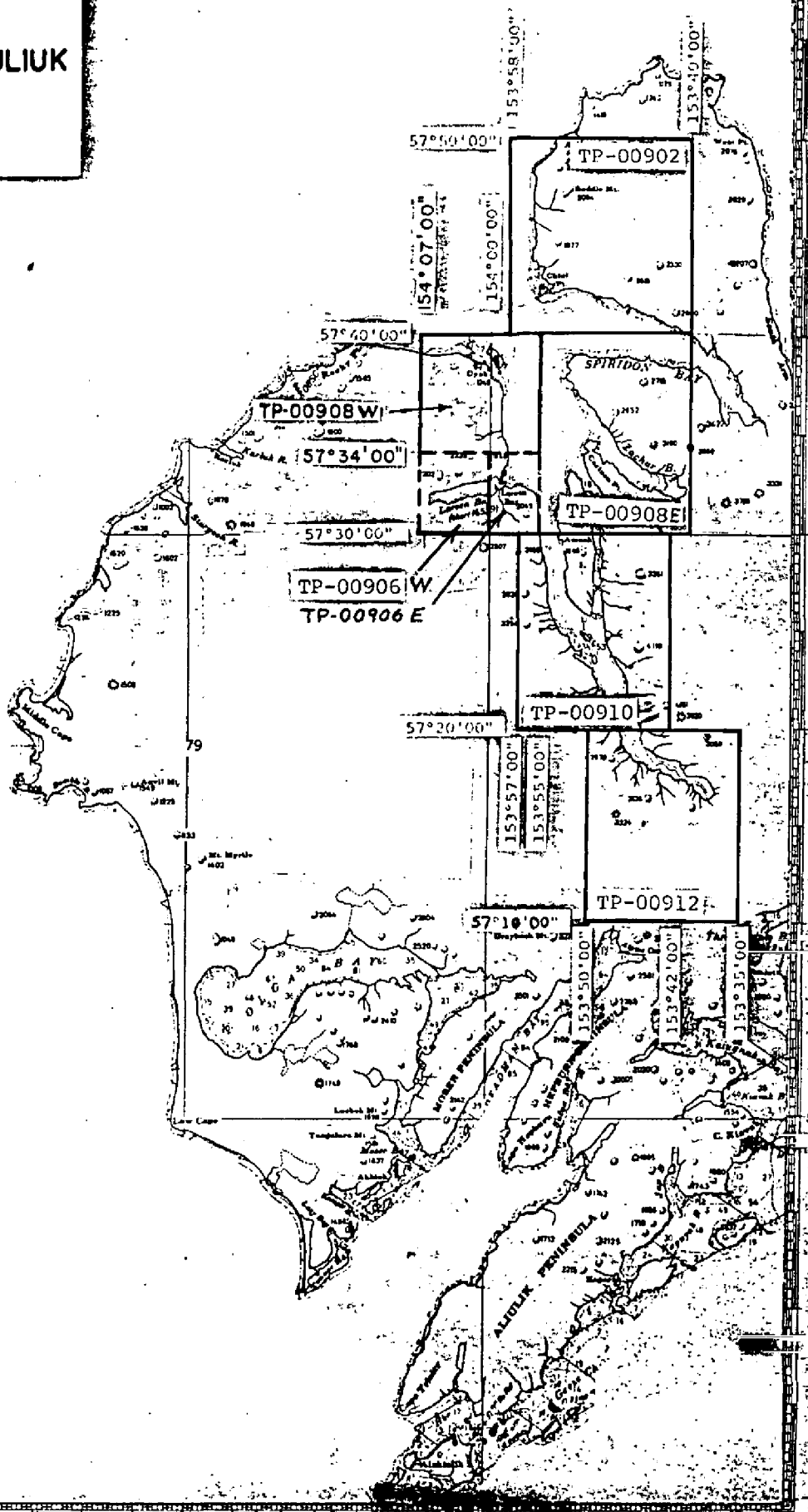
III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☐ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS ~~36X~~ 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 EPO
REVISED 4-17-81 RN

CONTINUED

SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT
TP-00908E

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-00908 (E)

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.

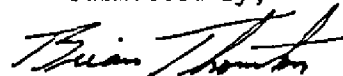
25. Photography

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,

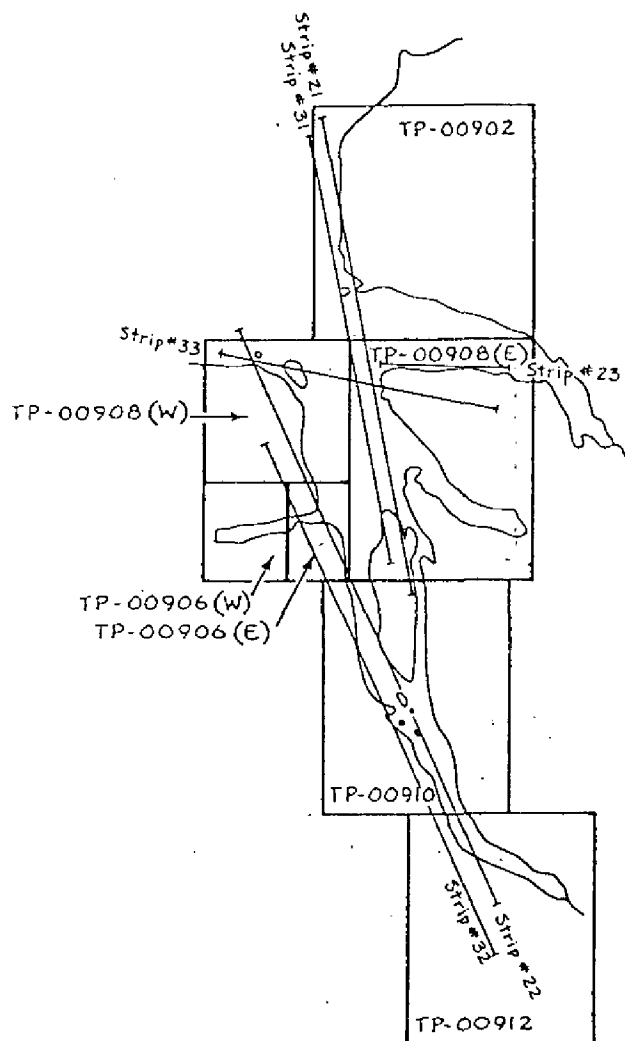


Brian Thornton

Approved and Forwarded:

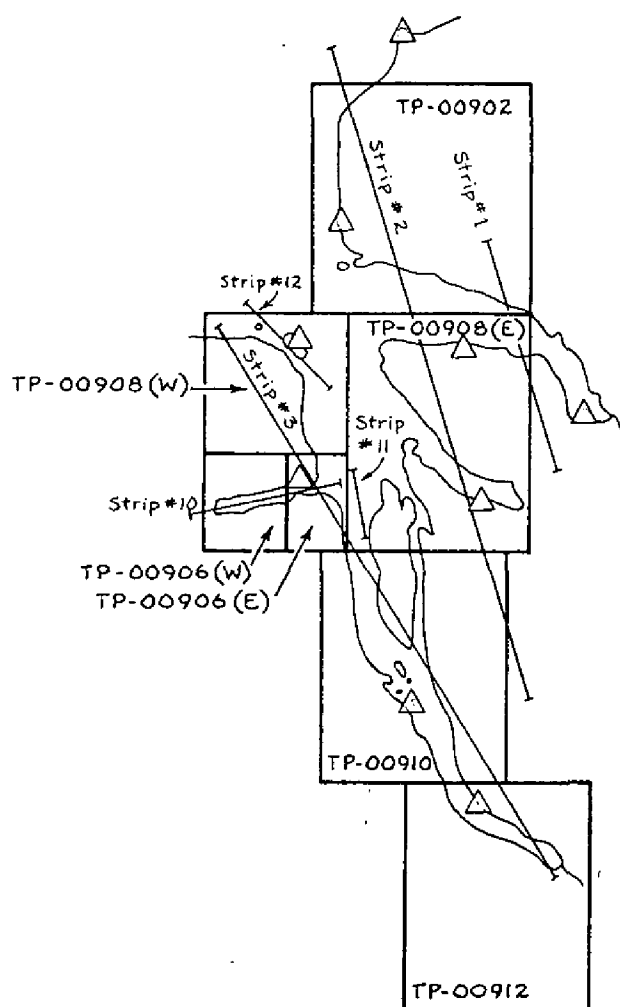


Don O. Norman
Chief, Aerotriangulation Section



PREDICTED TIDE PHOTOGRAPHY

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



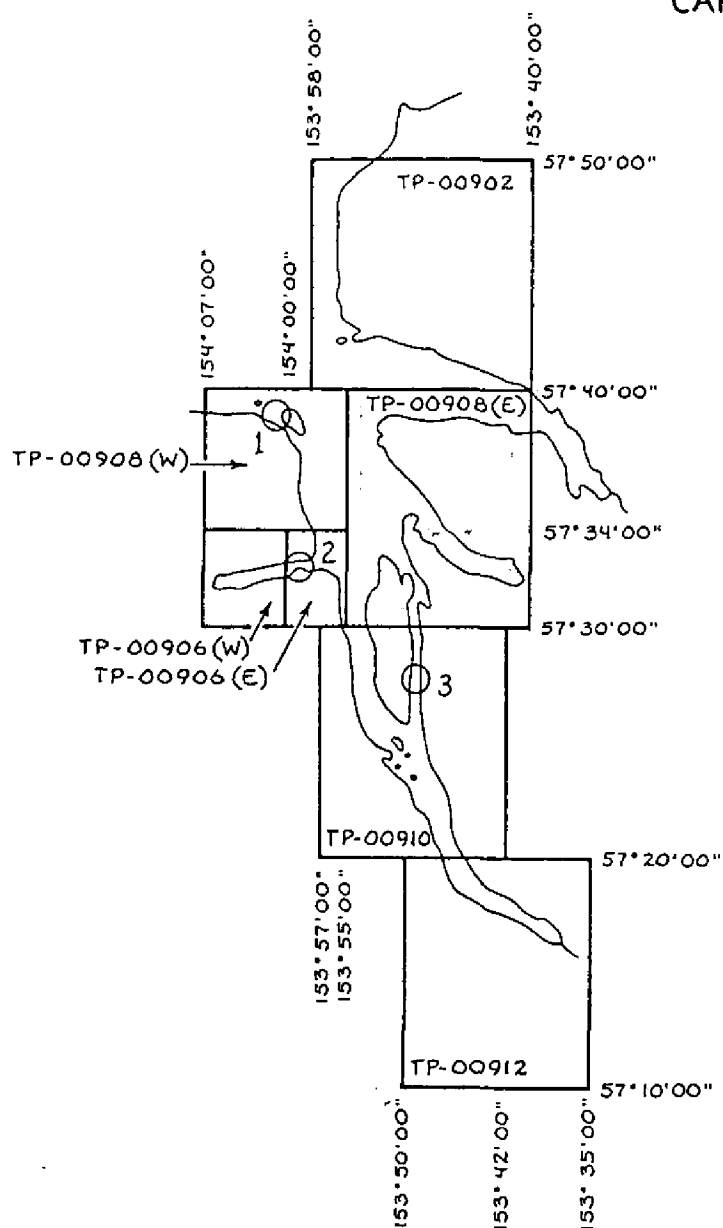
BRIDGING PHOTOGRAPHY

STRIPS 1,2,&3
1:50,000

STRIPS 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

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-00908 (E)31 - 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 poor, but adequate for compilation.

The entire eastern shoreline of Amook Island was faintly visible on the panchromatic photographs. The shoreline appeared on Strips two and three, but was on the outer edges of the models. An area at 57 33'00" latitude, 153 51'30" longitude was not visible on either strip and, as a result, is the only portion of the MHW line that had to be compiled graphically.

There is an area east of 153 44'45" longitude which is not complete because of the lack of low water infrared photo coverage.

32 - CONTROL

Refer to the Photogrammetric Plot Report dated January 1981. Placement and distribution of the control was adequate. Several bridge points were not pugged on the transparencies, nor were they described in any way. 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 and by office stereoscopic interpretation of the black-and-white infrared ratio photographs.

35 - SHORELINE AND ALONGSHORE DETAILS

The Mean High Water Line was office edited using the black-and-white infrared ratio photographs. A small section of the MHW line at 57 33'00" latitude, 153 51'30" longitude was compiled graphically due to a lack of panchromatic coverage.

COMPILATION REPORT (CONT'D)
CM-7709
TP-00908 (E)

The Mean Lower Low Water Line was graphically delineated from office stereoscopic interpretation of the black-and-white infrared MLLW photographs. In the area east of 153 44'45" longitude, the MLLW line was not compiled due to the lack of tide-coordinated infrared photographs.

36 - OFFSHORE DETAIL

The quality of the infrared photographs was adequate for the compilation. The MHW and MLLW lines were faintly visible on all the photographs, and the offshore rocks were very difficult, if not impossible, to see.

37 - LANDMARKS AND AIDS TO NAVIGATION

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

38 - 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 quadrangle:

Kodiak (C-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

16598, 6th Edition, dated November 1977, 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.

COMPILATION REPORT (con't)
CM-7709
TP-00908(E)

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

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-00908 E
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, dated August 1978, Scale 1:80,000
16598, 6th Edition, dated November 1977, Scale 1:80,000
16580, 8th Edition, dated 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-00908(E)

Amook Bay

Amook Island

Anguk Island

Browns Lagoon

Carlsen Point

Carlsen Reef

Clover Rock

Ditto Islets

Kodiak Island

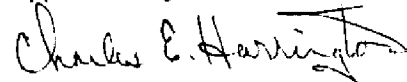
Spiridon Bay

Thistle Rock

Uyak Bay

Zachar 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

