

TP - 00826

TP - 00826

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. TP-00826	Edition No. 1
Job No. CM-7412	
Map Classification FINAL MAP - FIELD EDITED	
Type of Survey SHORELINE	
LOCALITY	
State ALASKA	
General Locality COOK INLET, EAST SIDE CAPE KASILOF TO BARREN ISLANDS	
Locality EAST AMATULI ISLAND	
1975 TO 1984	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
<b>DESCRIPTIVE REPORT - DATA RECORD</b>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE  Coastal Mapping Division, Atlantic Marine Center, Norfolk, VA OFFICER-IN-CHARGE  Roy K. Matsushige		SURVEY TP. <u>000826</u>  MAP EDITION NO. <u>(1)</u>  MAP CLASS <u>Final</u>  JOB <u>RK-CM-7412</u>	
PHOTOGRAMMETRIC OFFICE  Coastal Mapping Division, Atlantic Marine Center, Norfolk, VA OFFICER-IN-CHARGE  Roy K. Matsushige		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED  JOB <u>PH-</u> MAP CLASS <u></u> SURVEY DATES: 19 <u></u> TO 19 <u></u>	
<b>I. INSTRUCTIONS DATED</b>			
1. OFFICE		2. FIELD	
Aerotriangulation - North Sect. Oct. 6, 1975 Aerotriangulation - South Sect. Oct. 4, 1976 Compilation - North Sect. May 3, 1976 Compilation - Amendment I Aug. 17, 1976 Compilation - Amendment II Jan. 14, 1977 Compilation - South Sect. Aug. 2, 1979		Horizontal Control May 6, 1975 (Premarking)	
<b>II. DATUMS</b>			
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify)	
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)	
3. MAP PROJECTION  Transverse Mercator		4. GRID(S) STATE <u>Alaska</u> ZONE <u>4</u> STATE <u></u> ZONE <u></u>	
5. SCALE 1:20,000		STATE <u></u> ZONE <u></u>	
<b>III. HISTORY OF OFFICE OPERATIONS</b>			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY		B. Thornton	Jan. 1977
METHOD: Analytic South Sect		J. Perrow, Jr.	Jan. 1977
2. CONTROL AND BRIDGE POINTS PLOTTED BY		B. Thornton	Jan. 1977
METHOD: Coradomat CHECKED BY		J. Perrow, Jr.	Jan. 1977
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY		R. Kravitz	May 1979
COMPILATION CHECKED BY		F. Mauldin	May 1979
INSTRUMENT: Wild B-8		N.A.	
SCALE: 1:20,000		N.A.	
4. MANUSCRIPT DELINEATION PLANIMETRY BY		R. Kravitz	Jun. 1979
CHECKED BY		F. Mauldin	Aug. 1979
METHOD: Smooth drafted and graphic		N.A.	
SCALE: 1:20,000		N.A.	
HYDRO SUPPORT DATA BY		R. Kravitz	Jun. 1979
CHECKED BY		F. Mauldin	Aug. 1979
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		F. Mauldin	Aug. 1979
6. APPLICATION OF FIELD EDIT DATA BY		C. Blood	Jan. 1985
CHECKED BY		J. Byrd	Jan. 1985
7. COMPILATION SECTION REVIEW BY		C. Blood	Feb. 1985
8. FINAL REVIEW BY		C. Blood/J. Byrd	Mar. 1985
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		J. Byrd	Nov. 1985
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		P. Dempsey	Mar. 1986
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		E. DAUGHERTY	MAY 86

NOAA FORM 76-36B  
(3-72)

TP-00826

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

## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC 8E 152.71 Wild RC 10C 152.74		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT
<input type="checkbox"/> PREDICTED TIDES <input checked="" type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				Alaska	
				MERIDIAN	
				150th	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
75C(C) 7178-7181#	Aug. 3, 1975	10:14	1:60,000	13.1 ft. above MLLW	
76E(I) 4023-4027*	Jun. 11, 1976	14:08	1:30,000	18.29 ft. above MLLW	
76E(I) 4009-4015*	Jun. 11, 1976	13:55	1:30,000	17.89 ft. above MLLW	
76E(I) 4305-4310**	Jun. 26, 1976	07:28	1:30,000	0.97 ft. below MLLW	
76E(I) 4336-4339**	Jun. 26, 1976	08:05	1:30,000	0.37 ft. above MLLW	
76E(I) 4739-4742**	Jun. 27, 1976	10:32	1:30,000	1.86 ft. above MLLW	
				Mean tide range 11.4 ft. Ushagat Island, Barren Islands	

REMARKS #Bridge/compilation photo centers are not on map.  
 \*Photos not necessary for compilation and were processed.  
 Mean High Water for Ushagat Island, Barren Islands is 12.9 ft. above MLLW

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

The MHWL was compiled by use of the Wild B-8 stereoplotter from office interpretation of the above listed # color photographs.

\*Tide coordinated infrared MHW photography was not used due to poor-quality and heavy shadows. Photographs; (76 E(I) 4009-4015) were incorrectly ratioed during enlargement and were not used.

3. SOURCE OF ~~MEAN HIGH-WATER LINE~~ MEAN LOWER LOW-WATER LINE:

The MLLWL was compiled graphically from the above tide coordinated MLW infrared ratio photography.

## 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-00823	No survey	No survey	TP-00825

REMARKS

<b>NOAA FORM 76-36C</b> <small>(3-72)</small>		<b>U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY</b>	
(TP-00826) <b>HISTORY OF FIELD OPERATIONS</b>			
I. <input checked="" type="checkbox"/> <b>FIELD INSPECTION OPERATION(Premarking)</b> <input type="checkbox"/> <b>FIELD EDIT OPERATION</b>			
OPERATION	NAME	DATE	
1. CHIEF OF FIELD PARTY	R. Melby	June 1975	
2. HORIZONTAL CONTROL	RECOVERED BY R. Melby	Aug. 1975	
	ESTABLISHED BY None	Aug. 1975	
	PRE-MARKED OR IDENTIFIED BY R. Melby and L. Riggers	Jun. 1975	
3. VERTICAL CONTROL	RECOVERED BY N.A.		
	ESTABLISHED BY N.A.		
	PRE-MARKED OR IDENTIFIED BY N.A.		
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED ( <i>Triangulation Stations</i> ) BY None		
	LOCATED ( <i>Field Methods</i> ) BY None		
	IDENTIFIED BY None		
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE                  BY _____ <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None		
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.		
<b>II. SOURCE DATA</b>			
1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
Paneled		N.A.	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
75C(C) 7181	PUFFIN PEAK, 1906		
75C(C) 7180	NORD, 1931		
3. PHOTO NUMBERS ( <i>Clarification of details</i> )			
None			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED			
None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES:		6. BOUNDARY AND LIMITS:	
<input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		<input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS			
None			
8. OTHER FIELD RECORDS ( <i>Sketch books, etc. DO NOT list data submitted to the Geodesy Division</i> )			
2 Forms 152 (CSI cards)     Project data- 2 Forms 277 & 1 Form 77-53 (Tides Record Books)			

TP-00826

## HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. Vandermeulen	Aug. 1984
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None None None
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

Undated Descriptive Report by Steven Konrad  
Master Field Edit Print

NOAA FORM 76-36D  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONTP-00826  
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.	Aug. 23, 1979	Class III manuscript superseded	Sep. 14, 1979	Sep. 14, 1979
Field edit applied compilation complete	Jan. 1985	Class I Map		
Final Review	Mar. 1985	Final Map	mar 1986	mar 1986

## II. LANDMARKS AND AIDS TO NAVIGATION

## 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		mar 1986	Nonfloating Aids

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	

NOAA FORM 76-36D

## OFFICIAL FILEAGE FOR COST ACCOUNTS

SHEET No.	Sq. Mi.	SHEET No.	Sq. Mi.
TP-00793	N	TP-00810	17
TP-00794		TP-00811	17
TP-00795		TP-00812	17
TP-00796		TP-00813	17
TP-00797		TP-00814	17
TP-00798		TP-00815	17
TP-00799		TP-00816	17
TP-00800			
TP-00801			
TP-00802		TP-00820	14
TP-00803			
TP-00804			
TP-00805			
TP-00806		TP-00823	14
TP-00807		TP-00824	14
TP-00808		TP-00825	14
TP-00809		TP-00826	14
		TOTAL	144

REVISED 9/23/76 E.W.W.  
6/13/79 L.F.V.

JOB CM-7412

COOK INLET, EAST SIDE  
CAPE KASLOF TO DARREN ISLANDS  
ALASKA

SHORELINE MAPPING  
SCALE 1:5,000-1:10,000-1:20,000

MARCH 1974

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

TP-00826

This 1:20,000 Final Map is one of twenty-nine maps designated as project CM-7412, Cook Inlet, East Side, Cape Kasilof to Barren Islands, Alaska.

The purpose of this project was to provide current charting information for nautical chart maintenance and to furnish support data for hydrographic operations. This Final Map portrays the Barren Islands east of longitude  $152^{\circ}10'00''$ .

Field work prior to compilation consisted of the recovery and identification of the horizontal control necessary for the aerotriangulation of the project and establishing and monitoring tide gages while the photography was being taken for the tide coordinated infrared photographs. This activity was completed in June 1976.

Photographic coverage was adequately provided by natural color and tide coordinated infrared photographs. The RC-10(C) camera was used to expose the natural color film required for the 1:60,000 scale aerotriangulation, compilation photographs taken August 1975. The RC-8(E) camera was used for the infrared black and white 1:30,000 scale photographs taken June 1976. The infrared photographs were used to supplement the color compilation photography.

Analytic aerotriangulation was adequately provided by the Washington Science Center for the south part of the project January 1977. Aerotriangulation operations included ruling the base manuscript and determining ratio values for the infrared photographs.

Compilation, based upon photointerpretation, was performed by the Coastal Mapping Unit at the Atlantic Marine Center in August 1979. Refer to the compilation report, Item #31 and NOAA Form 76-36 for specific usage of the photographs.

Field edit was conducted in August 1984 by hydrographic personnel assigned to the NOAA Ship RAINIER. Field edit for this manuscript is complete and was applied to the manuscript by the Coastal Mapping Unit, Atlantic Marine Center in January 1985.

Final review was performed at the Atlantic Marine Center in March 1985. A Chart Maintenance Print was prepared and forwarded to the Marine Charts Branch.

This Descriptive Report contains all pertinent information used to compile this Final Map. The original base manuscript and all related data were forwarded to the Washington Science Center for final registration.



## FIELD INSPECTION

TP-00826

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification (premarking) of the horizontal control necessary for the aerotriangulation of the project and the monitoring of tide gages for the tide coordinated infrared photographs.

March, 1976

Photogrammetric Plot Report  
Cook Inlet Alaska  
North ~~Half~~ P.T.  
CM-7412

Revised March 7, 1984 C.E.B.

21. Area Covered

The area covered by this report is the eastern shoreline of Cook Inlet, Alaska, from Cape Kasilof to the northern shoreline of Kachemak Bay. This area is covered by eight 1:20,000 scale sheets (TP-00793, 795, <sup>796</sup>798, <sup>800</sup>800, 802); three 1:10,000 scale sheets (TP-00794, 803, 804); and two 1:5,000 scale sheets (TP-00797 and 806).

22. Method

Eight strips of color photography (three 1:60,000, three 1:30,000, two 1:15,000) were bridged by analytic aerotriangulation methods.

Common points were located on the bridging photography and all photography being used for ratio purposes. Tie points were used on all bridging photography to ensure adequate junctioning during the strip adjustment. Ratio prints were ordered. The T-sheet manuscripts were plotted on the Coradomat.

23. Adequacy of Control

The control proved adequate except in the area along Anchor Point. Station END, 1968, was not covered on strip 75E(C)0014-0027, making it necessary to locate common points between that strip and strip 75E(C)6287-6300 to ensure adequate junctioning between the two.

The lower, or western half, of strip 75C(C)6301-6315 was often difficult to measure due to inadequate overlap and poor image quality.

For the two 1:5,000 scale sheets, no mean lower low water coverage was available. TP-00797 was also covered by 1:15,000 scale color photography flown in tandem with the infrared photography. This color strip, along with strip 75Z(c)7490-7511 (flown parallel to strip 75C(C)6301-6315), was ratioed for compilation purposes. Both were flown during mean high water.

On strip 75E(C)0057-0061, 900 points were dropped so that this strip could be used on the Wild B-8 stereoplotter to compile the NE corner of TP-00803.

Strip 75Z(C)6945-6956 was to be used for the compilation of TP-00806. Although there is color coverage (flown at mean high water) for TP-00800, no black and white infrared photography was available which covers this area at mean high water.

24. Supplemental Data

USGS quadrangles were used to provide vertical control for the adjustment.

There was a problem with the "C" camera, which was used for several of the bridging strips, that introduced a random error into the strip adjustments. This problem was bypassed by removing the correction values for film distortion in the strip adjustments.

In conclusion, with all the problems encountered and their respective errors introduced into the job, the adequacy of control overall is fair.

Supplemental Data

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

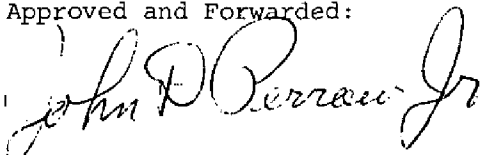
Photography

The coverage, overlap and quality of the photography was adequate for the job with the exception of the above mentioned "C" camera.

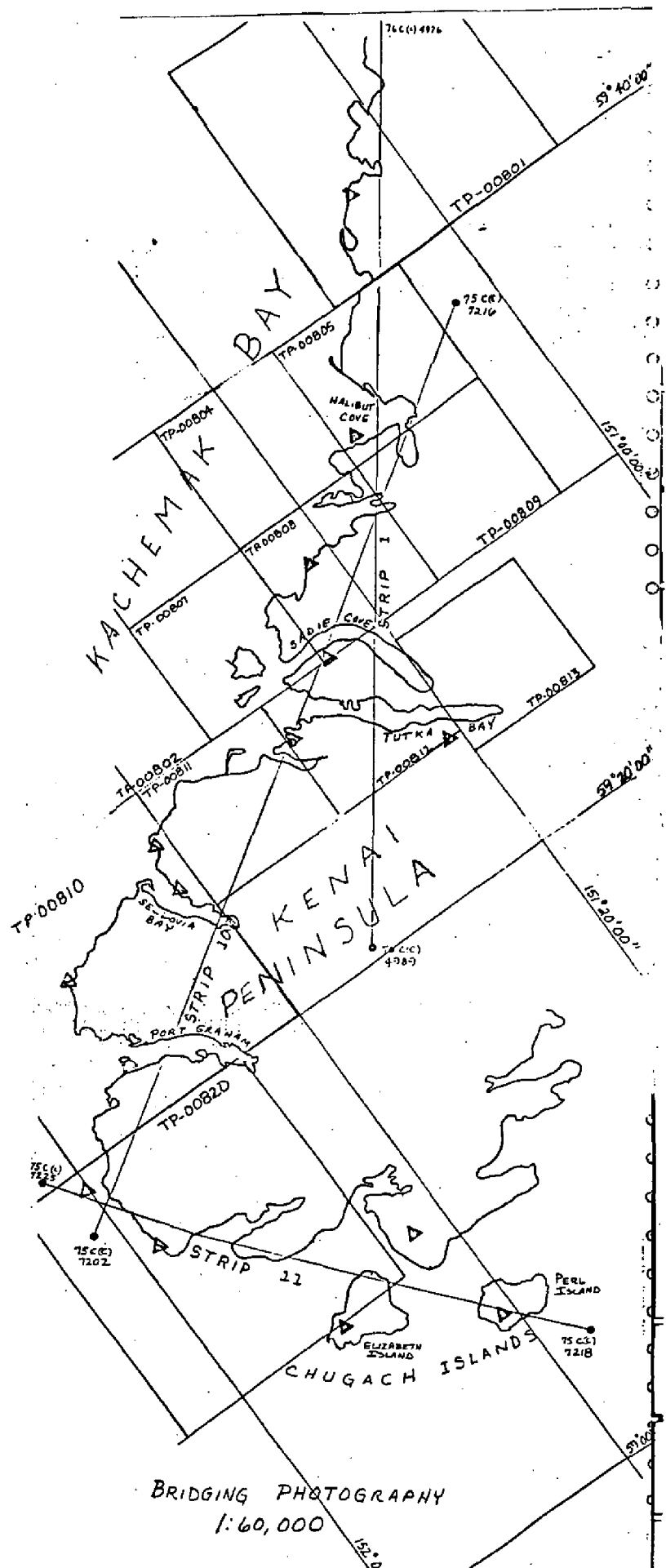
Submitted by:

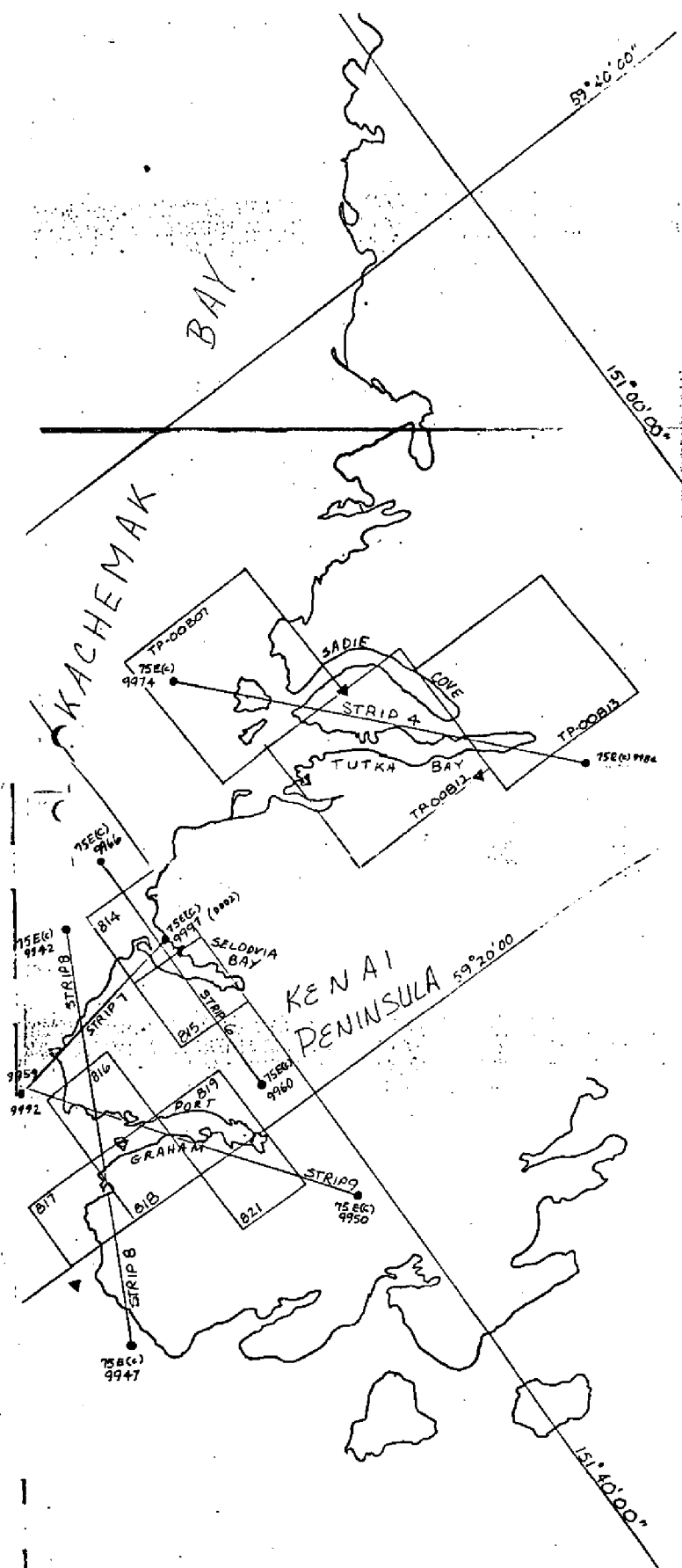
Brian Thornton

Approved and Forwarded:

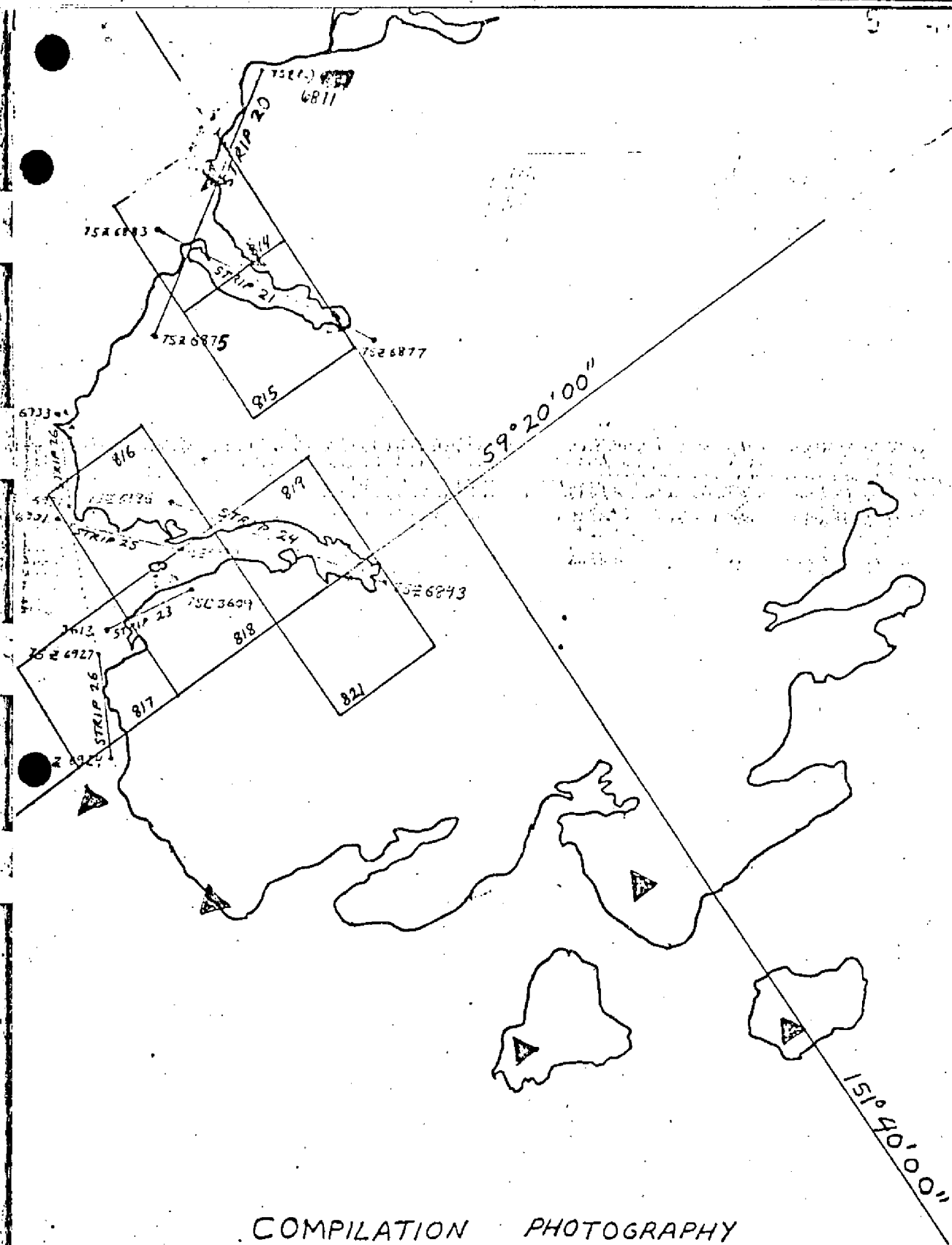
A handwritten signature in cursive script, reading "John D. Perrew Jr.", written in dark ink.

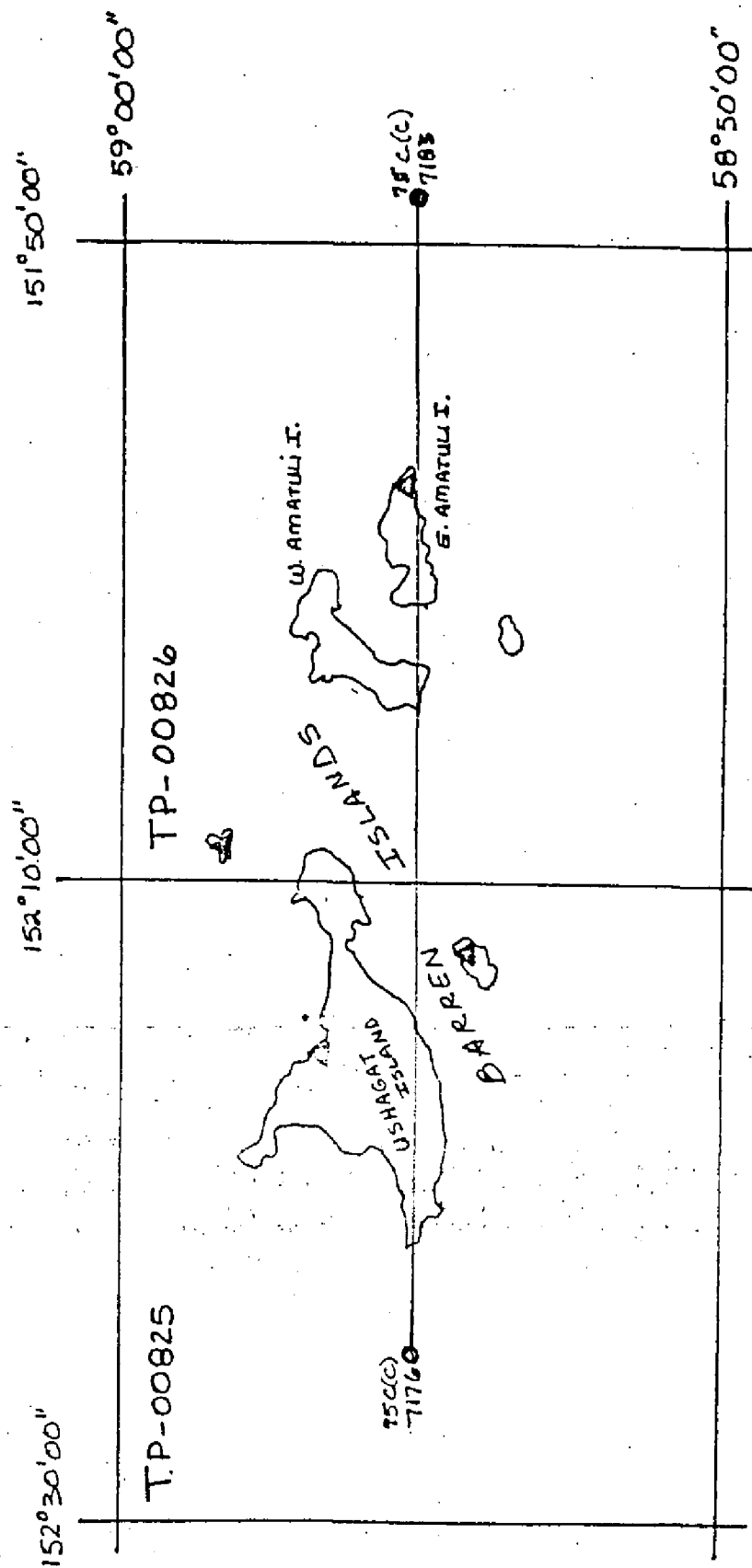
Chief, Aerotriangulation Section





BRIDGING PHOTOGRAPHY  
1:30,000





BRIDGING 1:60,000

1:20,000

STRIP 12

# Dist and Accuracy of Control Used in Strip Adjustment

x-error y-error

Strip #1

310100	1.092	- .446
307100	-3.443	1.765
12100	.803	-1.021
984100	2.971	- .047
977101	-3.878	-1.076
986101	1.253	.431

Strip #10

203100	- .543	-3.772
944100	2.985	4.840
206100	-3.549	-3.305
207100	1.142	5.249
977101	.318	-3.937
12100	- .845	1.438

Strip #12

178101	3.435	2.681
179100	1.047	-3.350
180101	-4.475	1.956
181100	.021	-1.299



# Dist and Accuracy of Control Used in Strip Adjustment

x-error y-error

## Strip #11

219101	1.518	.598
221100	-3.964	.647
223100	3.269	-3.324
203100	-.840	2.100

## Strip #4

915801	.001	.006
917101	-.001	-.005
985805	.001	-.003

## Strip #6

206100	.000	-.010
964100	.001	-.011
207100	.006	-.007

## Strip #7

992112	-3.929	-1.672
941100	1.088	3.253
964100	-.570	-.973
169	-1.089	-.030

## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. TP-00826		JOB NO. CM-7412		GEODETTIC DATUM N.A. 1927		ORIGINATING ACTIVITY Unit, AMC, Norfolk, VA		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS		
			STATE Alaska	ZONE 4	$\phi$ LATITUDE	$\lambda$ LONGITUDE	Forward	(Back)	
NORD, 1931	Quad. 58152 pg. 9	180100	X=		$\phi$ 58 58 10.289				
			Y=		$\lambda$ 152 08 50.495				
PUFFIN PEAK, 1906	Quad. 58151 pg. 2	181100	X=		$\phi$ 58 55 12.321				
			Y=		$\lambda$ 151 58 23.225				
GRAY, 1931	Quad. 58152 pg. 6	000150	X=		$\phi$ 58 55 20.243		626.4	(1230.2)	
			Y=		$\lambda$ 152 04 36.341		581.5	(378.6)	
DRAG, 1931	Quad. 58152 pg. 5	151	X=		$\phi$ 58 54 38.721		1198.1	(658.5)	
			Y=		$\lambda$ 152 03 15.589		249.5	(710.9)	
LOAF, 1931	Quad. 58152 pg. 8	000152	X=		$\phi$ 58 53 28.948		895.7	(960.9)	
			Y=		$\lambda$ 152 02 38.780		621.1	(339.9)	
HUMP, 1931	Quad. 58152 pg. 7	180	X=		$\phi$ 58 53 24.783		766.9	(1089.7)	
			Y=		$\lambda$ 152 02 01.745		27.9	(933.1)	
LOOK, 1931	Quad. 58152 pg. 8	153	X=		$\phi$ 58 54 32.469		1004.71	(851.9)	
			Y=		$\lambda$ 152 00 31.096		497.8	(462.7)	
SEAL, 1931	Quad. 58152 pg. 15	154	X=		$\phi$ 58 55 17.045		527.4	(1329.2)	
			Y=		$\lambda$ 152 01 13.530		216.5	(743.6)	
TURK, 1931	Quad. 58152 pg. 18	000155	X=		$\phi$ 58 56 11.618		359.5	(1497.1)	
			Y=		$\lambda$ 152 00 40.328		645.0	(314.7)	
			X=		$\phi$				
			Y=		$\lambda$				
COMPUTED BY A. C. Rauck, Jr.		DATE Jun. 22, 1976	COMPUTATION CHECKED BY R. Minton		DATE NOV. 2, 1976				
LISTED BY A. C. Rauck, Jr.		DATE	LISTING CHECKED BY R. Minton		DATE				
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE				

## COMPILATION REPORT

TP-00826

31 - DELINEATION

Delineation was accomplished by using stereo instrument methods. The Wild B-8 stereoplotter was used to delineate shoreline, alongshore and interior detail based upon office interpretation of the 1:60,000 scale bridging/compilation color photographs. Supplemental tide coordinated infrared photographs at 1:30,000 scale were used to assist the compilation photographs and delineate a MLLWL.

The infrared MHW photographs are heavily shadowed and the tide is above MHW. Photographs 76E(I)4009 through 4015 were incorrectly ratioed during enlargement; none of the infrared MHW photographs were used.

All photographs used to compile this map are listed on NOAA Form 76-36B. Photography was adequate.

32 - CONTROL

Horizontal control was adequate. Refer to the Photogrammetric Plot Report, dated January 1977.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

Contours were not applicable to this project. Drainage was compiled from interpretation of the photographs.

35 - SHORELINE AND ALONGSHORE DETAILS

Alongshore details were delineated by the use of Wild B-8 stereoplotter. Tide coordinated infrared photography was heavily shadowed and thus not used as described in Item #31.

36 - OFFSHORE DETAILS

The offshore detail was compiled by instrument methods as described in Item #31 and was supplemented by using the infrared low water photographs to compile rocks.

37 - LANDMARKS AND AIDS

There were no landmarks, but there is one (1) Nonfloating Aid within the limits of this manuscript; it was not visible on the photographs.

TP-00826

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

Refer to the Data Record Form 76-36B, item 5.

40- HORIZONTAL AND VERTICAL ACCURACY

Refer to Item 32.

46 - COMPARISON WITH EXISTING MAPS

A comparison has been made with the U.S. Geological Survey  
Quadrangle:  
Afognak, AK, scale 1:63,360, dated 1951.

47 - COMPARISON WITH NAUTICAL CHARTS

NOS Chart 16641, scale 1:77,062, dated April 7, 1973 was  
compared to the manuscript.

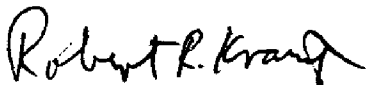
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD


None.

Submitted by:



Robert R. Kravitz  
Cartographic Technician  
14 June 1979

Approved:

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

## ADDENDUM TO COMPILATION REPORT

TP-00826

Field edit was June, July and August 1984 and is recorded on the Master Field Edit Print, photographs were not used. The editor gave rock heights, ledge areas and foul areas. The field edited ledge areas extend in many places into submerged ledge, as is indicated from the tide coordinated mean low water photographs. The offshore ledge limits are shown to the low water line. Rocks edited on ledge with a height less than three feet above MLLW were deleted.

The Perl Island tide gage needed for rock height computation on the south side of Amatuli Island east of longitude 152°00'00" was not in operation Julian Date 241. The tide gage at Ushagat Island was used for this day.

March 22, 1984

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

PH - 7412 (Cook Inlet, East Side - Cape Kasilof to Barren Islands, Alaska)

TP - 00826

Amatuli Cove

Barren Islands

East Amatuli Island

Gulf of Alaska

Kennedy Entrance

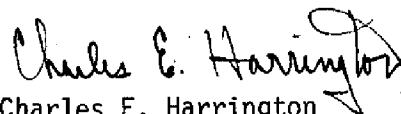
Nord Island

Sugarloaf Island

Ushagat Island

West Amatuli Island

Approved by;

Charles E. Harrington  
Chief Geographer  
Nautical Charting Division

NOAA FORM 76-35

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

## DESCRIPTIVE REPORT

Type of Survey ..... **FIELD EDIT**  
 Job No. .... **CM-7412** ..... Map No. **TP-00824**  
 Classification No. .... Edition No. **TP-00825**  
 TP-00826

### LOCALITY

State ..... **ALASKA**  
 General Locality ..... **SOUTHERN COOK INLET**  
 Locality ..... **COOK INLET, EAST SIDE**

19 TO 19

### REGISTRY IN ARCHIVES

DATE .....

## FIELD EDIT NOTE

OPR-P114-RA-84

## Southern Cook Inlet

## INTRODUCTION

Field edit for this survey was conducted in accordance with project instructions OPR-P114-RA-84, Southern Cook Inlet, Alaska, dated February 16, 1984, Change No. 1, dated 27 April, 1984, Change No. 2, dated 21 June, 1984, and Chapter 11, Field Edit Surveys, of the Manual of Coastal Field Procedures. Hydrographic surveys H-10137, H-10033, and H-10149 were conducted concurrently with the field edit work.

## METHODS

Field edit was performed almost entirely from small boats. A Boston Whaler was used for general shoreline verification, and one of the RAINIER's survey launches was used as a platform to obtain positions. A small amount of field edit was performed by walking the shoreline, but this was limited due to the ruggedness of the shoreline in the survey area.

All field edit was performed at or near low tide. Minus tides were taken advantage of whenever possible.

The following shoreline manuscripts were provided to the RAINIER:

<u>Shoreline Map</u>	<u>Scale</u>	<u>Survey Affected</u>
TP-00824	1:20000	H-10033
TP-00825	1:20000	H-10137
TP-00826	1:20000	H-10137, H-10149

All features shown on the manuscripts were either verified or deleted, and additions to the manuscripts were made where necessary. All positions on features to be verified or added to the manuscript are part of the hydrographic records. This was done to reduce the possibility of the field editor and the hydrographer taking independent positions on the same feature.

Compiled features were verified visually, or positions were taken if there was some doubt as to the accuracy of the compiled feature.



One stable base copy of each photo was all that was supplied to the RAINIER. An attempt was made to take these photos into the field with disastrous results, due to the generally wet weather encountered. Therefore, the photos had to be left on the ship, and were used only to clarify the data obtained in the field.

All of the field edit data has been depicted on the film ozalid labeled MASTER FIELD EDIT PRINT. All features shown in violet have been verified or added by the field editor. Those features shown in green are to be deleted. All times shown on the manuscripts are GMT.

Positions were determined using T-2 Theodolite, sextant, and Mini-Ranger data. Signals were Third Order, Class 1, or better, geodetic stations.

When comparing the field edit and the hydrography, it was discovered that, in certain areas, hydrography had been run inside the foul limit delineated by the field editor. This was due to the fact that shoreline hydrography is normally run at high tide, while field edit is done at low tide. Since the charting datum is MLLW, it was decided that the field editors' foul limit should supercede the hydrography in these areas.

#### ADEQUACY AND COMPLETENESS OF COMPILATION

All manuscripts are adequate for the purpose of field edit.

The accuracy of compilation of the manuscripts is good. A few discrepancies need to be pointed out. There were a few instances where the compiler mistook heavy kelp for rocks or islets; these were corrected on the manuscript. Another discrepancy was the use of a series of rock symbols in areas of ledges. In this case, the rock symbols were deleted, and the ledge was delineated on the manuscript. The following table lists the significant discrepancies found, all of which are on TP-00825. The features have all been deleted from the manuscripts, and the chart should be updated accordingly.

<u>Feature</u>	<u>Latitude</u>	<u>Longitude</u>
Rock	58/54/07 N	152/21/00 W
Islet	58/54/40 N	152/21/32 W
Rock	58/55/23 N	152/19/09 W
Islet	58/56/30 N	152/14/54 W

Manuscripts TP-00825 and TP-00826 are complete. Manuscript TP-00824 is complete except for the northeastern shore of East Chugach Island. Since no hydrography was conducted or planned on that side of the island, field edit there was given lower priority than other survey operations. Time was set aside for the work, but in the last two days of suitable low tide, conditions were lost due to weather and sea conditions, and the effort was abandoned. No plans have been made for the completion of field edit on TP-00824.

#### RECOMMENDATIONS

It is recommended that manuscripts TP-00825 and TP-00826 be upgraded to Class 1 Manuscripts. Since this is the last field edit survey to be performed as part of shipboard hydrographic operations, the field editor has no further recommendations.

Respectfully submitted,

*Steve Konrad*  
Steve Konrad  
LT(jg), NOAA

Approved and forwarded,

*John P. Vandermeulen*  
John Vandermeulen  
CDR, NOAA

REVIEW REPORT  
TP-00826  
SHORELINE

61 - GENERAL STATEMENT

See Summary included with this Descriptive Report.

62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63 - COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with the following U.S. Geological Survey quadrangle:  
Afognak (D-1), AK, scale 1:63,360, dated 1951.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

The contemporary hydrographic surveys covering this manuscript are being processed at the Pacific Marine Center and were not available for final review at this time, May 1, 1985.

65 - COMPARISON WITH NAUTICAL CHARTS

Comparison was made with the following NOS Chart:  
16606, scale 1:77,062, dated October 20, 1979.

This manuscript shows areas of ledge which had not been charted.

A Final Chart Maintenance Print indicating discrepancies was prepared and forwarded to Marine Charts.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with the Project Instructions, and meets the requirements for National Standards of Map Accuracy.

TP-00826

Submitted by:

*Charles E. Blood / J. Byrd*Charles E. Blood/James L. Byrd, Jr.  
Final Reviewers

Approved for forwarding:

*Patrick J. Dwyer*(or) Billy H. Barnes  
Chief, Photogrammetry Branch, AMC

Approved:

*John A. Mearns*  
Chief, Photogrammetry Branch,  
Rockville*Ronald K. Brewer*  
Chief, Photogrammetry Division,  
Rockville

Replaces C&amp;GS Form 567.

**U.S. DEPARTMENT OF COMMERCE**  
**NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION**  
**NONFLOATING AIDS OR LANDMARKS FOR CHARTS**

**ORIGINATING ACTIVITY**

- ☐ HYDROGRAPHIC PARTY  
☐ GEODETIC PARTY  
☐ PHOTO FIELD PARTY  
☒ COMPILATION ACTIVITY  
☐ FINAL REVIEWER  
☐ QUALITY CONTROL & REVIEW GRP.  
☐ COAST PILOT BRANCH

(See reverse for responsible personnel)

REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
Coastal Mapping Unit,		Cook Inlet, East Side	
AMC, Norfolk, VA	Alaska	Cape Kasilof to Barren Is.	Jun. 1979

The following objects HAVE ☒ HAVE NOT ☐ been inspected from seaward to determine their value as landmarks.

The following objects HAVE ☒ HAVE NOT ☐ been inspected from seaward to determine their value as landmarks.

[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	J. Vandermeulen
POSITIONS DETERMINED AND/OR VERIFIED	Charles Blood
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	Charles Blood
ACTIVITIES	
INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE OF LOCATION: (Consult Photogrammetric Instructions No. 64.)	
<b>OFFICE</b> <b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b> Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	<b>FIELD (Cont'd)</b> <b>B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.</b> EXAMPLE: P-8-V 8-12-75 74L(C)2982
<b>FIELD</b> <b>I. NEW POSITION DETERMINED OR VERIFIED</b> Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	<b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b> Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 <b>**PHOTOGAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</b>
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

**FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.**

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 R-

FOR THE SALE OF ALL EDITIONS OF FORM 100-107