

TP-00805

TP-00805

NOAA FORM 76-35 (6-80)  U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY  <h2 style="text-align: center;">DESCRIPTIVE REPORT</h2>	
<i>Map No.</i> TP-00805	<i>Edition No.</i> 1
<i>Job No.</i> CM-7412	
<i>Map Classification</i> FINAL MAP - FIELD EDITED	
<i>Type of Survey</i> SHORELINE	
<h3>LOCALITY</h3>	
<i>State</i> ALASKA	
<i>General Locality</i> COOK INLET, EAST SIDE CAPE KASILOF TO BARREN ISLANDS	
<i>Locality</i> HALIBUT COVE	
<div style="border: 1px solid black; padding: 5px; display: inline-block;">           19 75    TO    19 80         </div>	
<h3>REGISTERED IN ARCHIVES</h3>	
<i>DATE</i>	

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. 00805 MAP EDITION NO. (1) MAP CLASS Final JOB RM-CM-7412	
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 Coastal Mapping Division, AMC Norfolk, Virginia				OFFICER-IN-CHARGE Roy K. Matsushige			
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Aerotriangulation - North Sect Oct. 6, 1975 Compilation - North Sect May 3, 1976 Amendment I Aug. 17, 1976 Amendment II Jan. 14, 1977 Aerotriangulation - South Sect Oct. 4, 1976 Compilation - South Sect Aug. 2, 1979				Premarking May 6, 1975			
II. DATUMS							
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 Alaska ZONE 4			
5. SCALE 1:10,000				STATE ZONE			
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY				B. Thornton		Jan 1977	
METHOD: Analytic South half LANDMARKS AND AIDS BY				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				J. Moler		Mar 1980	
COMPILATION CHECKED BY				F. Mauldin		Mar 1980	
INSTRUMENT: WildtB-8				CONTOURS BY		N.A.	
SCALE: 1:10,000 CHECKED BY				N.A.			
4. MANUSCRIPT DELINEATION PLANIMETRY BY				F. Mauldin		Apr 1980	
CHECKED BY				R. Kravitz		Apr 1980	
METHOD: Smooth drafted and				CONTOURS BY		N.A.	
graphic CHECKED BY				N.A.			
SCALE: 1:10,000 HYDRO SUPPORT DATA BY				F. Mauldin		Apr 1980	
CHECKED BY				R. Kravitz		Apr 1980	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				R. Kravitz		Apr 1980	
6. APPLICATION OF FIELD EDIT DATA BY				L. Williams		Jun 1980	
CHECKED BY				F. Margiotta		Aug 1981	
7. COMPILATION SECTION REVIEW BY				F. Margiotta		Aug 1981	
8. FINAL REVIEW BY				C. Blood/J. Byrd		Jul 1985	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				J. Byrd		Nov 1985	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				E. Dampsey		Mar 1986	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				E. DAUGHERTY		MAY 86	

NOAA FORM 76-36B  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEYTP-00805  
COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC 8E 152.71 mm		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input checked="" type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Alaska MERIDIAN 150th <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
75E(C)0010 thru 0012	Jul.5,1975	11:36	1:30,000	14.8 ft. above MLLW	
75E(C)0068-0070	Jul.5,1975	12:52	1:30,000	11.3 ft. above MLLW	
75E(I)1561-1562*	Aug.10,1975	14:00	1:30,000	18.11 ft. above MLLW	
75E(I)1464-1465*	Aug.7,1975	12:42	1:30,000	18.65 ft. above MLLW	
75E(I)1516-1518**	Aug.10,1975	10:57	1:30,000	0.85 ft. above MLLW	
76E(I)4271-4273**	Jun.25,1976	07:20	1:30,000	0.87 ft. above MLLW	
75E(I)0961-0962**	Jul.10,1975	09:45	1:30,000	1.3 ft. below MLLW	
Mean tide range-15.4 Seldovia					

REMARKS Bridge and/or compilation photograph centers are not shown on the manuscript. A tide gage was read at Seldovia. during the the time of infrared photograph exposure. The Mean High Water at Seldovia is 17.0 ft. above MLLW.

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

\*The MHWL was compiled from office interpretation of the above listed 1:30,000 color photographs using stereo instrument methods. Compilation was supplemented by graphic methods using the MHW tide coordinated infrared (ratio) photographs.

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

\*\*The MLLW line was compiled graphically from the above tide coordinated infrared ratio photographs.

## 4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

## 5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00800 (1:20,000)	No Survey	TP-00809	TP-00804

REMARKS

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

TP-00805

## HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION (Premarking) ☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Melby	Jun 75, 76
2. HORIZONTAL CONTROL	RECOVERED BY L. Riggers	Jun 1975
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY L. Riggers	Jun 75, 76
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 L. Riggers	Jun 1976
	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	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
Paneled		None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
76C(C)4982	HALIBUT COVE LIGHT, 1965		
76C(C)4982	HALIBUT COVE LIGHT, 1965 (Sub Pt)		

## 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)

2 Form 152

Project Data: 2 Form 277, 1 Form 77-53 (Tides Record Books)

NOAA FORM 76-36C  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEYTP-00805  
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	W. Mobley	Jun 1980
2. HORIZONTAL CONTROL	RECOVERED BY J. Talbott ESTABLISHED BY J. Talbott PRE-MARKED OR IDENTIFIED BY None	May 1980 Jun 1980
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 J. Talbott LOCATED (Field Methods) BY J. Talbott IDENTIFIED BY None	May 1980 Jun 1980
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 R. Hastings	Jun 1980
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED None		2. VERTICAL CONTROL IDENTIFIED N.A.	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS (Clarification of details)  75E(I)0961, 1516-18, 76E(I)4271-4272			
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)  Master Field Edit Print Field Edit Report Form 76-40			

NOAA FORM 76-36D  
(3-72)

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

TP-00805  
**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	Apr. 1980	Class III Manuscript	May 15, 1980	May 15, 1980
Field edit applied, compilation complete	Aug. 1981	Class I	Sept 1981	
			mar 1986	mar 1986
Final Review	Jul. 1985	Final Map		

**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 Aid for Charts

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: Sept 19813. ☐ 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 76049 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	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	

## OFFICIAL MILEAGE 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	
TP-00796		TP-00813	
TP-00797		TP-00814	
TP-00798		TP-00815	
TP-00799		TP-00816	
TP-00800			
TP-00801		TP-00820	18
TP-00802			
TP-00803		TP-00823	18
TP-00804		TP-00824	
TP-00805		TP-00825	
TP-00806		TP-00826	
TP-00807		TOTAL	195

REVISED 9/23/75 E.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-00805

This 1:10,000 Final shoreline 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 covers Halibut Cove and a section of south Kachemak Bay shoreline. The area shown is between longitudes 151°05.0' and 151°15.0' and between latitudes 59°35.0' and 59°40.0'.

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 infrared tide coordinated photographs. The RC-8(E) camera was used to expose the natural color film required for the 1:30,000 scale aerotriangulation, compilation photographs taken July 1975. The RC-8 (E) camera was used for the infrared black-and-white 1:30,000 scale photographs taken July, August 1975 and 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 April 1980. Refer to the compilation report, item #31 and NOAA Form 76-36B for specific usage of the photography.

Field edit was conducted in July 1980 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 August 1981.

Final review was performed at the Atlantic Marine Center in July 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-00805

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.

Photogrammetric Plot Report  
Cape Kasilof to Barren Islands

Job CM-7412  
South ~~Art~~  
January 1977

Job index was revised June 13, 1979  
Number of sheets compiled, revised  
March 7, 1984 C.E.B.

Area Covered

The area covered by this report is the south central coastal area of Cook Inlet, Alaska, from ~~Cape Kasilof~~ <sup>Kachemak Bay</sup> to Barren Island. This area is covered by ~~six~~ <sup>ten</sup> 1:20,000 scale sheets, ~~eight~~ <sup>ten</sup> 1:10,000 scale sheets, and ~~seven~~ <sup>ten</sup> 1:5,000 scale sheets.  
Canceled

Method

Nine strips (four 1:60,000 scale, five 1:30,000 scale) of bridging photography were measured by analytic aerotriangulation methods. The nine strips of bridging photography were controlled by field identified control including some additional points drilled and tied from the 1:60,000 scale photography to the 1:30,000 scale photography where field identified control was inadequate for a satisfactory strip adjustment.

Common points were located on the bridging photography and the tide controlled IR for ratio purposes. Tie points were used in all strips to insure an adequate junction of all strips during the strip adjustments. Ties to the compilation photography were made also.

The manuscripts are being plotted on the coradomat and will be sent upon completion.

Ratios have been ordered for the MHW and MLLW (1-6-77). A copy of this order will be included in this report.

Adequacy of Control

Several stations (Tutka-000158, Halibut Cove Light, Panel - 12101, Table Mtn., Panel-178101) were bad due to snow coverage or other reasons which made it difficult to obtain an adjustment adequate to N.M.A.S.

Strip #1, 76-C(C) 4975 thru 4987 was terminated early when flown, (planned originally to extend from sheet 801 thru 823) which gave us weak and poorly distributed control to properly check and strengthen overlapping strips.

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.

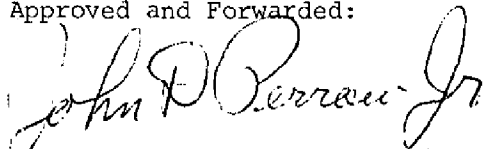
Photography

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

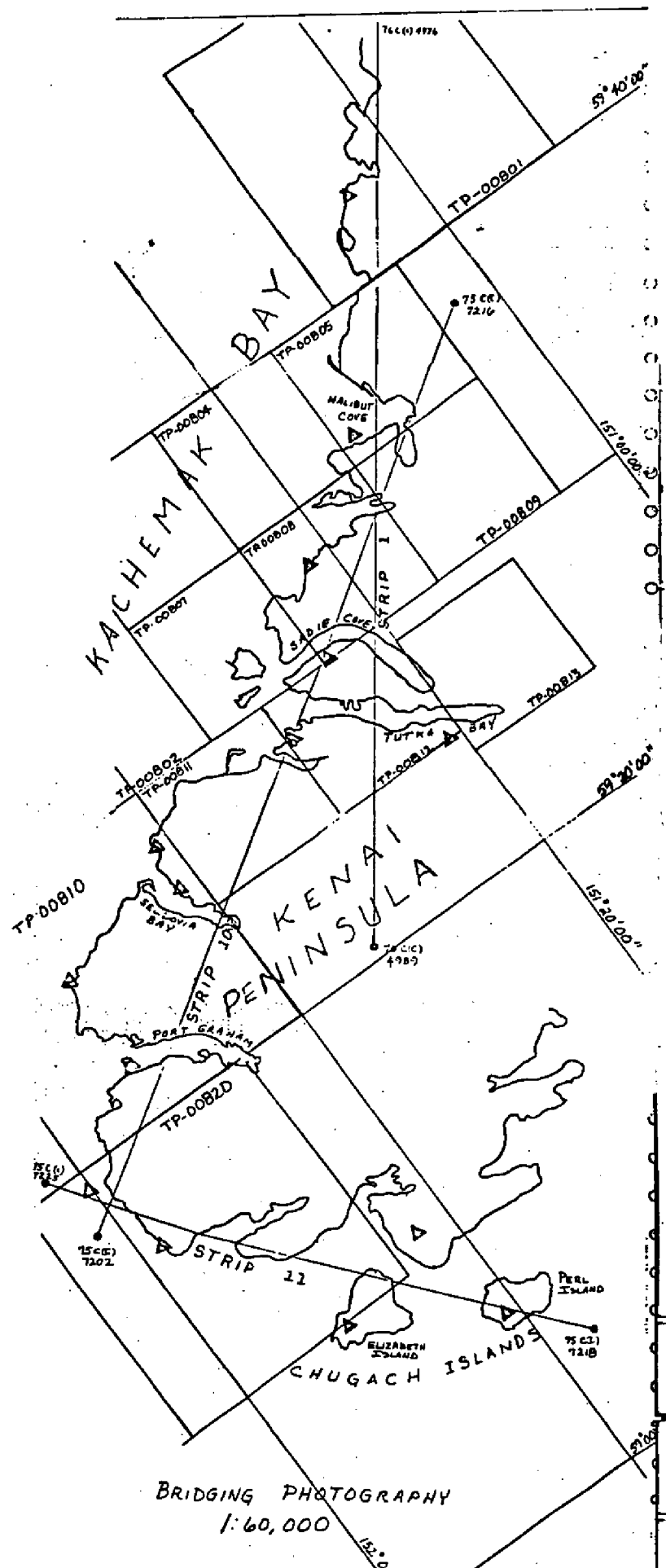
Submitted by:

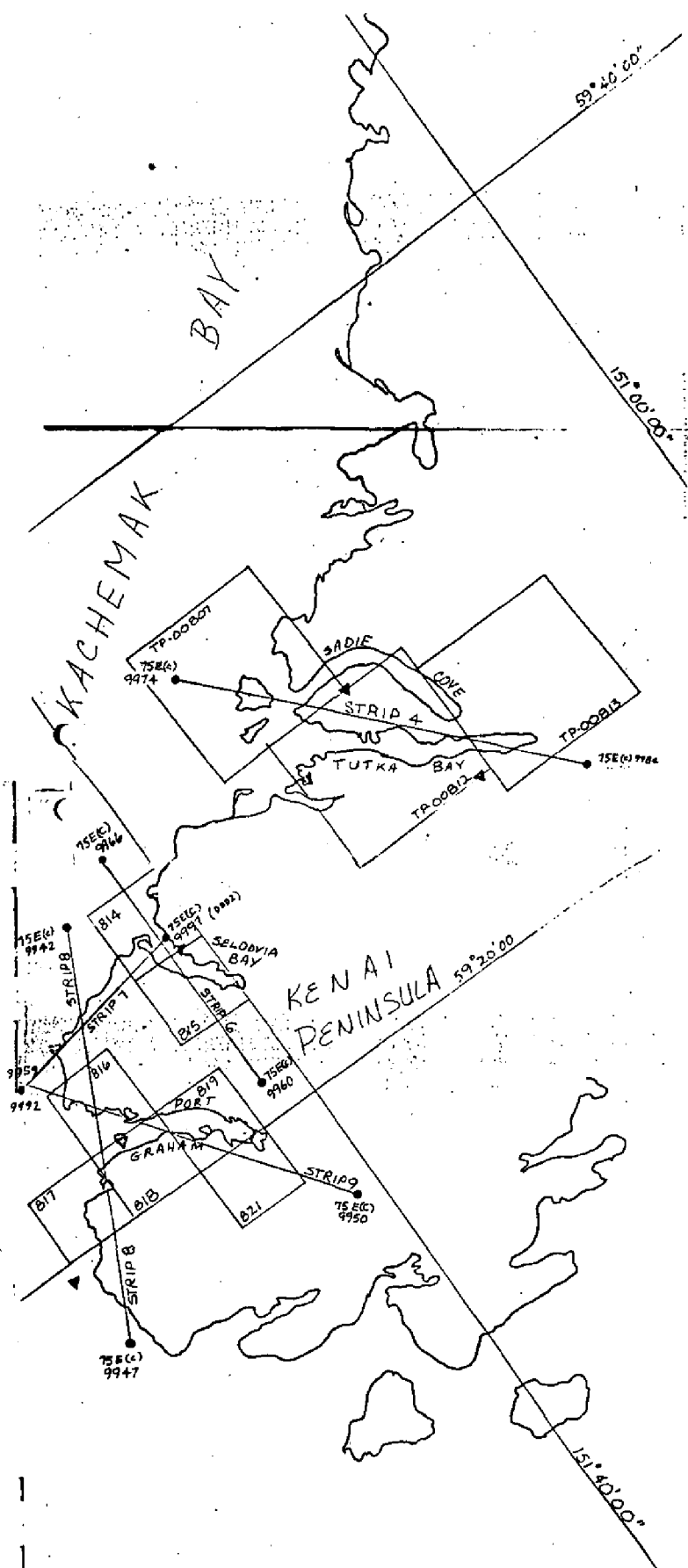
Brian Thornton

Approved and Forwarded:

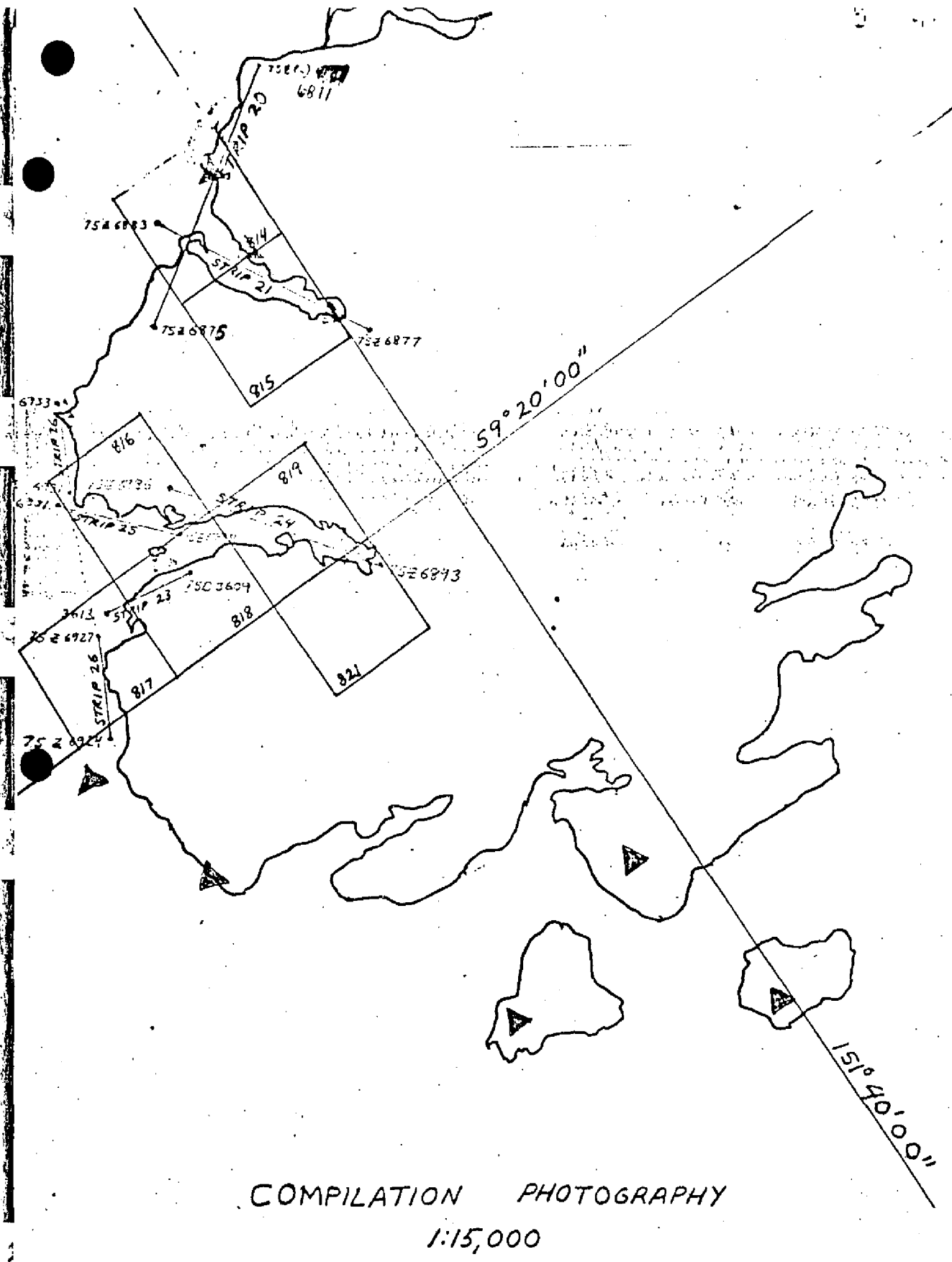


Chief, Aerotriangulation Section



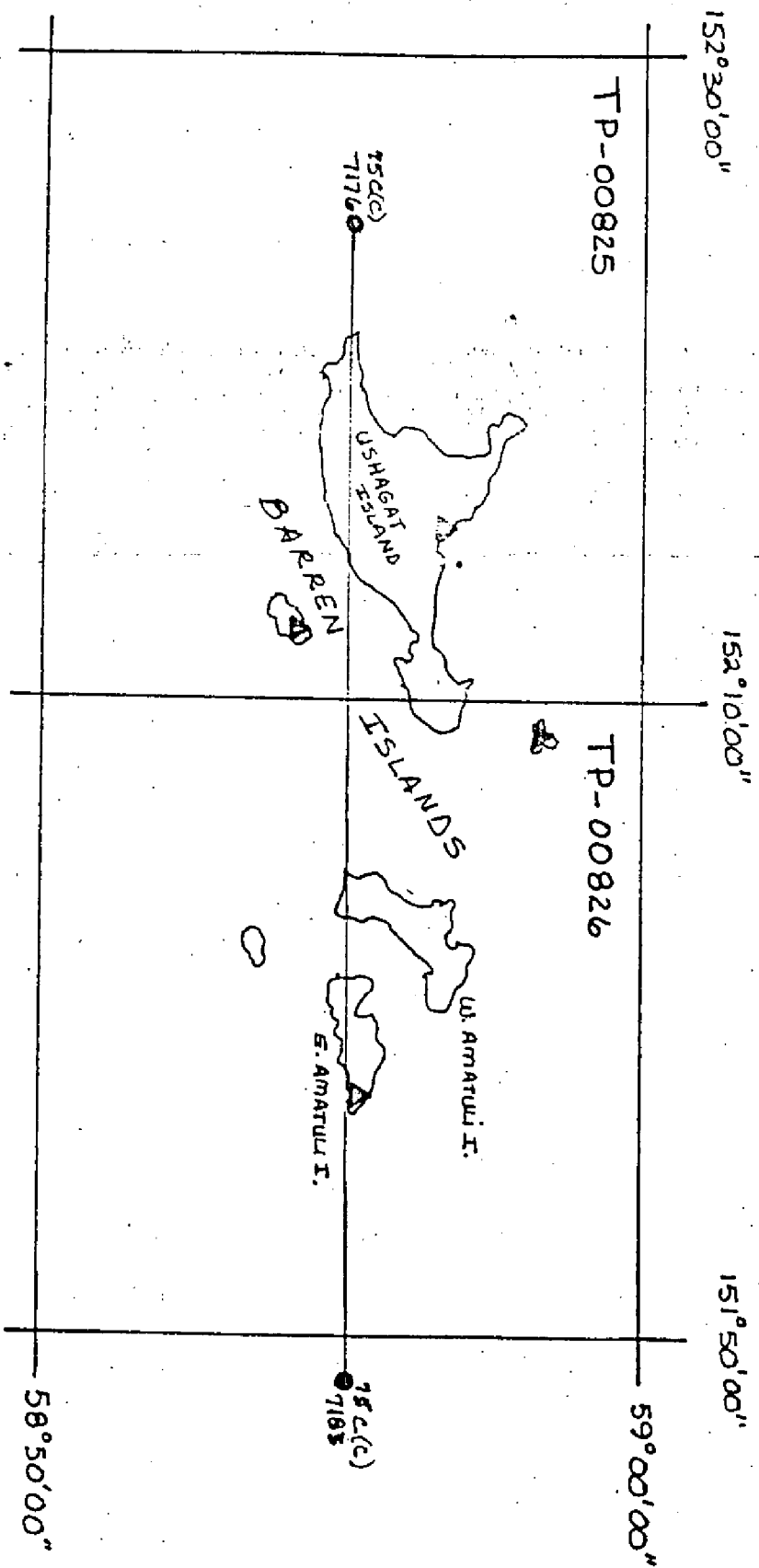


BRIDGING PHOTOGRAPHY  
1:30,000



COMPILATION PHOTOGRAPHY

1:15,000



TP-00825

152° 10' 00"

TP-00826

151° 50' 00"

59°00'00"

58°50'00"

752(c)  
71766

752(c)  
71766

PARREN

USHAGAI  
ISLAND

ISLANDS

У. АМАТУЛІ І.

**B. AMARU I.**

752(c)  
7185

752(c)  
7185

BRIDGINS 1:60,000

STRIP 12

1:20,000

# List 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	-3.278	-.076
986101	1.253	.431

Strip #10

203100	-.543	-3.777
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

995801	.001	.006
999101	-.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

# List and Accuracy of Control Used in Strip Adjustment

Strip #8

	4-error	year
941100	-1.785	-2.540
944100	1.521	-1.094
203100	-1.481	-0.632
203802	1.826	-2.245

Strip #9

955101	-0.515	1.133
944100	3.529	2.770
204803	-0.118	-0.672
204804	1.503	-1.036
204806	-0.621	0.619

## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY	REMARKS
TP-00805	CM-7412	N.A. 1927	Unit, AMC, Norfolk, VA	
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE Alaska ZONE 4	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE
Halibut Cove Light, 1965	List of Control Kache-mak Bay Area, AK	12100	X=	φ 59 36 03.20321
			Y=	λ 151 12 45.05857
GLACIER 2, 1965	List of Control Kache-mak Bay Area, AK	0046	X=	φ 59 38 21.45095
			Y=	λ 151 12 09.18488
HAL, 1923	Quad. 59151 pg. 10	0047	X=	φ 59 36 20.59
			Y=	λ 151 11 13.89
VERTIGO, 1980	NOAA Form 75-83A Field Position		X=	φ 59 35 40.847
			Y=	λ 151 10 42.078
NUNZIO, 1980	NOAA Form 75-82A Field Position		X=	φ 59 35 56.871
			Y=	λ 151 09 36.883
COVE, 1980	NOAA Form 75-82A Field Position		X=	φ 59 35 36.508
			Y=	λ 151 13 20.082
LISA, 1980	NOAA Form 75-82A Field Position		X=	φ 59 35 47.427
			Y=	λ 151 14 14.963
DIANA, 1980	NOAA Form 75-82A Field Position		X=	φ 59 35 52.544
			Y=	λ 151 14 02.535
Teresa, 1980	NOAA Form 75-82A Field Position		X=	φ 59 35 42.367
			Y=	λ 151 14 18.489
Barbara, 1980	NOAA Form 75-82A Field Position		X=	φ 59 35 39.772
			Y=	λ 151 13 32.296
COMPUTED BY A. Rauck		DATE 6/18/76	COMPUTATION CHECKED BY R. Minton	DATE 11/4/76
LISTED BY A. Rauck		DATE 6/18/76	LISTING CHECKED BY R. Minton	DATE 11/4/76
HAND PLOTTING BY L. Williams		DATE 2/17/81	HAND PLOTTING CHECKED BY F. Mauldin	DATE 2/17/81

## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	TP-00805	JOB NO.	CM-7412	GEODETIC DATUM	N.A. 1927	ORIGINATING ACTIVITY	Coastal Mapping Unit, AMC, Norfolk, VA	
STATION NAME		SOURCE OF INFORMATION (Index)		AEROTRIANGULATION POINT NUMBER		COORDINATES IN FEET STATE Alaska ZONE 4	GEOGRAPHIC POSITION $\phi$ LATITUDE $\lambda$ LONGITUDE	REMARKS
GLACIER 3, 1980		NOAA Form 75-82A Field Position				X=	$\phi$ 29 39 01.755	
						Y=	$\lambda$ 151 11 32.885	
						X=	$\phi$	
						Y=	$\lambda$	
						X=	$\phi$	
						Y=	$\lambda$	
						X=	$\phi$	
						Y=	$\lambda$	
						X=	$\phi$	
						Y=	$\lambda$	
						X=	$\phi$	
						Y=	$\lambda$	
						X=	$\phi$	
						Y=	$\lambda$	
						X=	$\phi$	
						Y=	$\lambda$	
						X=	$\phi$	
						Y=	$\lambda$	
COMPUTED BY	A. Rauck	DATE	6/18/76	COMPUTATION CHECKED BY	R. Minton	DATE	11/4/76	
LISTED BY	A. Rauck	DATE	6/18/76	LISTING CHECKED BY	R. Minton	DATE	11/4/76	
HAND PLOTTING BY	L. Williams	DATE	2/17/81	HAND PLOTTING CHECKED BY	F. Mauldin	DATE	2/17/81	

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

## COMPILATION REPORT

TP-00805

31 - DELINEATION

Delineation was accomplished by stereo instrument and graphic compilation methods. The Wild B-8 stereoplotter with 1:30,000 scale color bridging photographs was used to delineate alongshore and interior detail, and to locate common image points to graphically control the 1:30,000 scale infrared photography. Supplemental tide coordinated infrared photographs for both MHW and MLLW were used to assist in delineate the MHW and MLLW lines graphically.

All photographs used to compiled 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 and delineated by using the Wild B-8 stereoplotter.

35 - SHORELINE AND ALONGSHORE DETAILS

Alongshore details were delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

The mean high water line was delineated from the photographs described in item #31.

36 - OFFSHORE DETAILS

Offshore detail was compiled by instrument and graphic methods as described in item #31.

37 - LANDMARKS AND AIDS

There are two nonfloating aids for navigation, but there are no landmarks within the limits of this map.

TP-00805

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

Refer to the he Data Record Form 76-37B, 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  
quadrangles:

Seldovia (C-4), Alaska, scale 1:63,360, dated 1961

Seldovia (C-3), Alaska, scale 1:63,360, dated 1953.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean  
Survey charts:

No. 16645, scale 1:82,662, dated Mar. 13, 1976

No. 16640, scale 1:200,000, dated May 24, 1974.

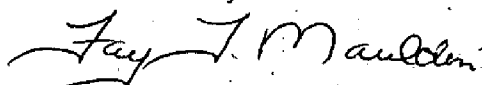
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

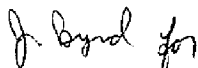
None.

Submitted by:



Fay Mauldin  
Cartographer  
April 4, 1980

Approved:



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

March 22, 1984

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP - 00805

Glacier Spit

Grewingk Creek

Halibut Cove

Halibut Cove Lagoon

Halibut Creek

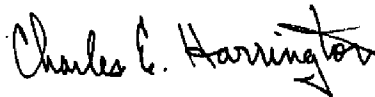
Humpy Creek

Ismailof Island

Kachemak Bay

The Narrows

Approved by;



Charles E. Harrington  
Chief Geographer  
Nautical Charting Division

## FIELD EDIT REPORT

OPR-P114-RA-80

CM-7412

TP-00805

ALASKA

COOK INLET, EAST SIDE

CAPE KASILOF TO BARREN ISLANDS

1 FIELD UNIT

JUNE 3 - JUNE 5, 1980

JD 155-157)



## 51 METHODS

Field edit operations for TP-00805 began after and continued concurrent with hydrographic operations on OPR-P114-RA-80. Hydrographic surveys H-9877 and H-9884 include all the shoreline of TP-00805.

Inspection of the shoreline was made during low water with small boats. Landmarks for charts were investigated from the ship RAINIER and small boats while in the working grounds.

Heights of rocks were estimated at close range. The times noted were GMT (Alaska Daylight Time + 9 hours).

Shoreline and topographic notes were annotated on black and white chronopaque photographs 10 July 75ER-961; 10 Aug 75ER-1516,1517,1518; and 25 Jun 76ER-4272,4273 and/or on the Master Field Edit Print. Annotations were made with the following ink colors: violet - verification or changes in features; green - deletion of features; and red - hydrographic features.

## 52 ADEQUACY OF COMPILATION

The compilation of TP-00805 is adequate and complete with minor changes. The changes were noted on the photographs and/or the Master Field Edit Print. All compilation questions have been answered. The Mean High Water Line was verified by visual inspection.

## 53 MAP ACCURACY

The map accuracy of TP-00805 is excellent. Station HALIBUT COVE LIGHT 1965 was used for verification of map accuracy. The computed inverse distance between the compiled position and the published geodetic position was 4.9 centimeters.

## 54 RECOMMENDATIONS

Matte ratio photographs were not available for field use. Therefore, extreme care was necessary while using the chronopaque photographs in the field. It is recommended that matte ratio photographs be made available to the field parties in the future, as has been the normal procedure in the past.

## 56 MISCELLANEOUS

Open communication was maintained between the field editor and hydrographer. Any duplicated information was reviewed with only one source being retained. Generally the determining factor was the field edit photographs. If the object in question was visible on the photographs,

it was considered as field edit information, with the duplicating hydrographic data being deleted. If the object was not visible on the photographs it was considered as hydrographic information and so reported.

All triangulation stations located within the limits of TP-00805 were recovered. Eight new traverse stations were established by the RAINIER using Third Order, Class I methods. Station descriptions and recovery notes are included in the "Separates." All other pertinent information is included in the "Separates Following the Text."

Respectfully Submitted,

*Richard L. Hastings*

Richard L. Hastings, SST

Approved by,

*Wayne L. Mobley*

Wayne L. Mobley, Captain, NOAA  
Commanding Officer

REVIEW REPORT  
TP-00805  
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 U.S.G.S. quadrangles:  
Seldovia (C-4), Alaska, scale 1:63,360, dated 1961  
Seldovia (C-3), Alaska, scale 1:63,360, dated 1953.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

The contemporary survey H-9877, 1:20,000 scale dated December 8, 1982, was compared to this manuscript. The contemporary surveys H-9884 was not available for comparison at the time of final review July 1985.

65 - COMPARISON WITH NAUTICAL CHARTS

Comparisons were made with the following NOS charts:  
16645, scale 1:82,662, dated July 30, 1983  
16645, scale 1:82,662, dated March 13, 1976  
16640, scale 1:200,000, dated April 23, 1983.

A comparison was made with the 10th edition Chart 16645, 1:82,662 scale dated March 13, 1976 and the 14th edition Chart 16645, 1:82,662 scale dated July 30, 1983. A comparison between these charts indicates that two dolphins were added to current charts from the unreviewed Class III Chart Maintenance Print submitted to Marine Charts May 1980. The intended purpose of showing the dolphins on the 1980 Chart Maintenance Print was to advise the Hydrographer of potential hazard. The Hydrographer was expected to determine whether or not the dolphins existed. It was never intended for charting purposes because the photo-interpretation of the dolphins did not render positive identification. The field investigation of the dolphins revealed them to be nonexistent by the field editor at the time the hydrography was performed, June, 1980.

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

TP-00805

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Submitted by:

*Charles E. Blood / J. Byrd*

Charles E. Blood/James L. Byrd, Jr.  
Final Reviewer

Approved for forwarding:

*Billy H. Barnes*

Billy H. Barnes  
Chief, Photogrammetric Section, AMC

Approved:

*John L. Murrey*

Chief, Photogrammetry Branch

*Ronald K. Brewer*

Chief, Photogrammetry Division

Replaces C&amp;GS Form 567.

## NONFLOATING AIDS OR MARKS FOR CHARTS

U.S. DEPARTMENT OF COMMERCE  
BUREAU OF ECONOMIC ANALYSIS

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

**ORIGINATING ACTIVITY**

- ☐ HYDROGRAPHIC PARTY  
☐ GEODETIC PARTY  
☐ PHOTO FIELD PARTY  
☒ X-COMPIATION ACTIVITY  
☐ FINAL REVIEWER  
☐ QUALITY CONTROL & REVIEW GRP.  
☐ COAST PILOT BRANCH  
*(See reverse for responsible personnel)*

<input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED	REPORTING UNIT <i>(If field Party, Ship or Office)</i>	STATE	LOCALITY	DATE
	Coastal Mapping Unit, AMC, Norfolk, VA	Alaska	COOK INLET, EAST SIDE	8/29/81

The following objects HAVE ☒ 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.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM	METHOD AND DATA (See Instructions)
OPR-P114	CM-7412	TP-00805	N.A. 1927 POSITION	

**POSITION**

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	LATITUDE		LONGITUDE		OFFICE
		° /	//	° /	//	
			D.M. Meters		D.P. Meters	

## DESCRIPTION

(Record reason for deletion of landmark or aid to navigation.  
Show triangulation station names, where applicable, in parentheses.)

LIGHT	Halibut Cove Light 2 (Halibut Cove Light, 1965)	59 36	03.203	151 12	45.059	75E(C)0011 July 5, 1975
DAY BEACON	Halibut Cove Daybeacon 4	59 35	48.281	151 12	28.559	

[illegible]


[illegible][illegible][illegible][illegible][illegible][illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	W. Mobley
POSITIONS DETERMINED AND/OR VERIFIED	J. Talbot L. Williams
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	C. 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. TRIANGULATION STATION RECOVERED</b> When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 <b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b> Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 <b>**PHOTOGRAMMETRIC 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.	

