

TP-00815

TP-00815

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
<h1>DESCRIPTIVE REPORT</h1>	
<i>Map No.</i> TP-00815	<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	
<h2>LOCALITY</h2>	
<i>State</i> ALASKA	
<i>General Locality</i> COOK INLET, EAST SIDE CAPE KASILOF TO BARREN ISLANDS	
<i>Locality</i> ENGLISH BAY	
<div style="border: 1px solid black; padding: 5px; text-align: center;"> 19 75 TO 19 80 </div>	
<h2>REGISTERED IN ARCHIVES</h2>	
<i>DATE</i>	

NOAA FORM 76-36A (3-72) <div style="text-align: right; font-size: small;"> U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN. </div>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		SURVEY TP. <u>00815</u> MAP EDITION NO. (1) MAP CLASS Final JOB PH CM-7412					
DESCRIPTIVE REPORT - DATA RECORD									
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, AMC Norfolk, VA		LAST PRECEDING MAP EDITION							
OFFICER-IN-CHARGE Roy K. Matsushige		TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__					
I. INSTRUCTIONS DATED									
1. OFFICE			2. FIELD						
Aerotriangulation - North Sect Oct. 1975 Compilation - North Sect May 3, 1976 Compilation - Amend I Aug. 17, 1976 Compilation - Amend 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) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; font-size: x-small;">STATE</td> <td style="width: 50%; font-size: x-small;">ZONE</td> </tr> <tr> <td style="text-align: center;">Alaska</td> <td style="text-align: center;">4</td> </tr> </table>			STATE	ZONE	Alaska	4
STATE	ZONE								
Alaska	4								
5. SCALE 1:10,000			STATE ZONE						
III. HISTORY OF OFFICE OPERATIONS									
OPERATIONS		NAME		DATE					
1. AEROTRIANGULATION METHOD: Analytic (South Sect)		BY B. Thornton ANDMARKS AND AIDS BY J. Perrow, Jr.		Jan 1977 Jan 1977					
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat		PLOTTED BY B. Thornton CHECKED BY J. Perrow, Jr.		Jan 1977 Jan 1977					
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:10,000		PLANIMETRY BY L. O. Neterer, Jr. CHECKED BY F. Mauldin CONTOURS BY N.A. CHECKED BY N.A.		Apr 1980 Apr 1980					
4. MANUSCRIPT DELINEATION METHOD: Smooth drafted and graphic SCALE: 1:10,000		PLANIMETRY BY L. Williams CHECKED BY F. Margiotta CONTOURS BY N.A. CHECKED BY N.A. HYDRO SUPPORT DATA BY L. Williams CHECKED BY F. Margiotta		May 1980 May 1980 May 1980 May 1980					
5. OFFICE INSPECTION PRIOR TO FIELD EDIT		BY F. Margiotta		May 1980					
6. APPLICATION OF FIELD EDIT DATA		BY L. Williams CHECKED BY C. Blood		Aug 1981 Dec 1981					
7. COMPILATION SECTION REVIEW		BY C. Blood		Dec 1981					
8. FINAL REVIEW		BY C. Bloods/J. Byrd, Jr.		May 1985					
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH		BY J. Byrd, Jr.		Nov 1985					
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH		BY P. Dingsen		May 1986					
11. MAP REGISTERED - COASTAL SURVEY SECTION		BY F. DAUGHERTY		MAY 86					

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00815
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC 8E 152.71 mm Wild RC 10B 152.74 mm		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				MERIDIAN	
				Alaska	
				150th	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
75E(C)9955-9958#	Jul.5,1975	10:18	1:30,000	13.1 ft. above MLLW	
75E(C)9942-9946#	Jul.5,1975	10:03	1:30,000	12.6 ft. above MLLW	
75E(I)0812-0815*	Jul.9,1975	12:48	1:15,000	15.67 ft. above MLLW	
75E(I)0839-0842*	Jul.9,1975	13:16	1:15,000	16.00 ft. above MLLW	
75E(I)0846-0856*	Jul.9,1975	13:28	1:15,000	16.35 ft. above MLLW	
75B(I)4010-4017**	Aug.10,1975	10:40	1:15,000	1.13 ft. below MLLW	
75B(I)4023-4027**	Aug.10,1975	10:49	1:15,000	1.40 ft. below MLLW	
76E(I)4522-4526**	Jun.28,1976	9:16	1:15,000	1.46 ft. below MLLW	
Mean tide range 14.4 feet Port Graham					

REMARKS Tide gage at Seldovia was observed and tide corrections for Port Graham applied to the infrared photographs. #Bridge/compilation photo centers not on map. The Mean High Water at Port Graham is 15.8 ft. above MLLW.

2. SOURCE OF MEAN HIGH-WATER LINE:

**The MHW line 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 HIGH-WATER LINE~~ MEAN LOWER LOW-WATER LINE:

**The MLLW line was compiled graphically from the above listed tide coordinated infrared 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-00810 1:20,000	TP-00816 TP-00814	TP-00820 1:20,000	No Survey

REMARKS

This 1:10,000 T-sheet lies within a portion of the east side of TP-00810.

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

TP-00815

HISTORY OF FIELD OPERATIONS

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

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Melby	June 1975
2. HORIZONTAL CONTROL	RECOVERED BY R. Melby ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY R. Melby	June 1975
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	
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 Paneled		2. VERTICAL CONTROL IDENTIFIED None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
75C(C) 7204	MAPLE, 1956		
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) Project data - 2 Forms 277 1 Form 77-53 (Tides record book) 1 Form 152 (CSI card)			

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

TP-00815

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	A. Patrick	June 1980
2. HORIZONTAL CONTROL	RECOVERED BY V. Ross ESTABLISHED BY V. Ross PRE-MARKED OR IDENTIFIED BY None	June 1980 June 1980 June 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 V. Ross LOCATED (Field Methods) BY C. Hancock IDENTIFIED BY C. Hancock	June 1980 June 1980 June 1980
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input checked="" type="checkbox"/> SPECIFIC NAMES ONLY BY <input type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY C. Hancock	June 1980
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	

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)

75 B(I) 4011, 4012 and 5015 thru 4017 and 4024 thru 4026

75 B(I) 4522 thru 4525 and 1:20,000 scale photo 75 E(I) 0692 (Flat Island Area)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
75E(I) 4525	Building largest of Settlement (English Bay)		
75E(I) 4523	Building on Pier		
75E(I) 4524	Pinnacle Rock		
75E(I) 4025	Waterfall		
75E(I) 4025	Bluff with diagonal white streak		

5. GEOGRAPHIC NAMES:

☐ REPORT☒ NONE

6. BOUNDARY AND LIMITS:

☐ REPORT☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

2 Forms 275 (Fix Positions)

One Master Field Edit print, Two pages of (Abstract of Time for tide gages)

One Signal Overlay film copy, one page signal Tape (Geodetic Stations), One Page

Photogrammetric & Signals

2 Form 76-40

NOAA FORM 76-36D (3-72)	TP-00815 RECORD OF SURVEY USE	U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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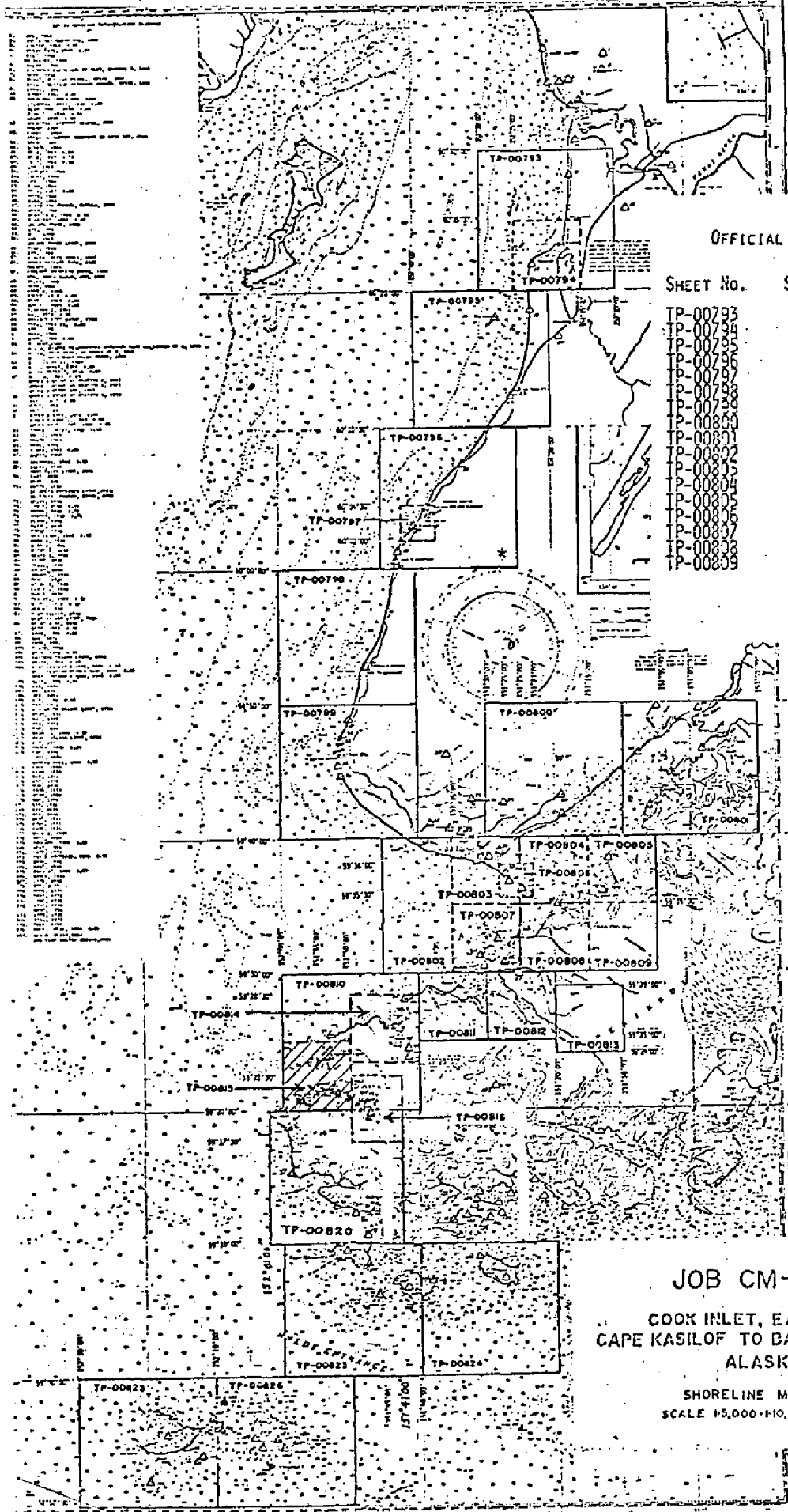
I. MANUSCRIPT COPIES				
COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete, pending field edit.	May 1980	Class III Manuscript	May 23, 1980	May 23, 1980
Partial field edit applied.	Aug. 1980	Class III		
Field edit applied, compilation complete.	Dec. 1981	Class I	Dec 1981	
Final Review	May 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	Aid to be Charted
1		mar 1986	Landmarks to be Charted

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. <input checked="" type="checkbox"/> BRIDGING PHOTOGRAPHS; <input checked="" type="checkbox"/> DUPLICATE BRIDGING REPORT; <input checked="" type="checkbox"/> COMPUTER READOUTS. 2. <input checked="" type="checkbox"/> CONTROL STATION IDENTIFICATION CARDS; <input type="checkbox"/> FORM NOS. 76-40 76-40 SUBMITTED BY FIELD PARTIES. 3. <input checked="" type="checkbox"/> SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:	4. <input type="checkbox"/> 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.	So. Mi.	SHEET No.	So. Mi.
TP-00793	7	TP-00810	17
TP-00794	7	TP-00811	17
TP-00795	7	TP-00812	17
TP-00796	7	TP-00813	17
TP-00797	7	TP-00814	17
TP-00798	7	TP-00815	17
TP-00799	7	TP-00816	17
TP-00800	7		
TP-00801	7		
TP-00802	7		
TP-00803	7		
TP-00804	7		
TP-00805	7		
TP-00806	7		
TP-00807	7		
TP-00808	7		
TP-00809	7		
		TP-00820	17
		TP-00823	17
		TP-00824	17
		TP-00825	17
		TP-00826	17
		TOTAL	145

REVISED 9/23/75 R.W.
6/13/79 L.F.V.

JOB CM-7412
COOK INLET, EAST SIDE
CAPE KASILOF TO BARREN ISLANDS
ALASKA

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

MARCH 1974

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00815

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 portrays the rocky waters of Cook Inlet from Flat Island northward including Dangerous Cape; the north end of Port Graham is also included.

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) and RC-10 (B) camera were used for the infrared black and white 1:15,000 scale photographs taken June, July and August 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 in January 1977. Aerotriangulation operations included ruling the base manuscript and determining ratio values for the infrared photographs.

Compilation, based upon photo interpretation, was performed by the Coastal Mapping Unit at the Atlantic Marine Center in May 1980. Refer to the compilation report, Item #31 and NOAA Form 76-36B for specific usage of the photography.

Field edit was conducted in June 1980 by hydrographic personnel assigned to the NOAA ship FAIRWEATHER. Field edit for this manuscript is complete and was applied to the manuscript by the Coastal Mapping Unit, Atlantic Marine Center in December 1981.

Final review was performed at the Atlantic Marine Center May 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-00815

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~~ ^{Kachemak Bay} to Barren Island. This area is covered by ~~six~~ ^{ten} 1:20,000 scale sheets, ~~eight~~ ^{ten} 1:10,000 scale sheets, and ~~seven~~ ^{ten} 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.

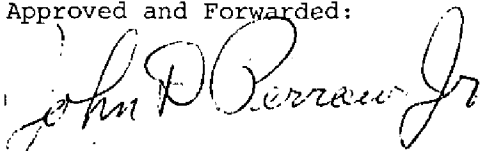
Photography

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

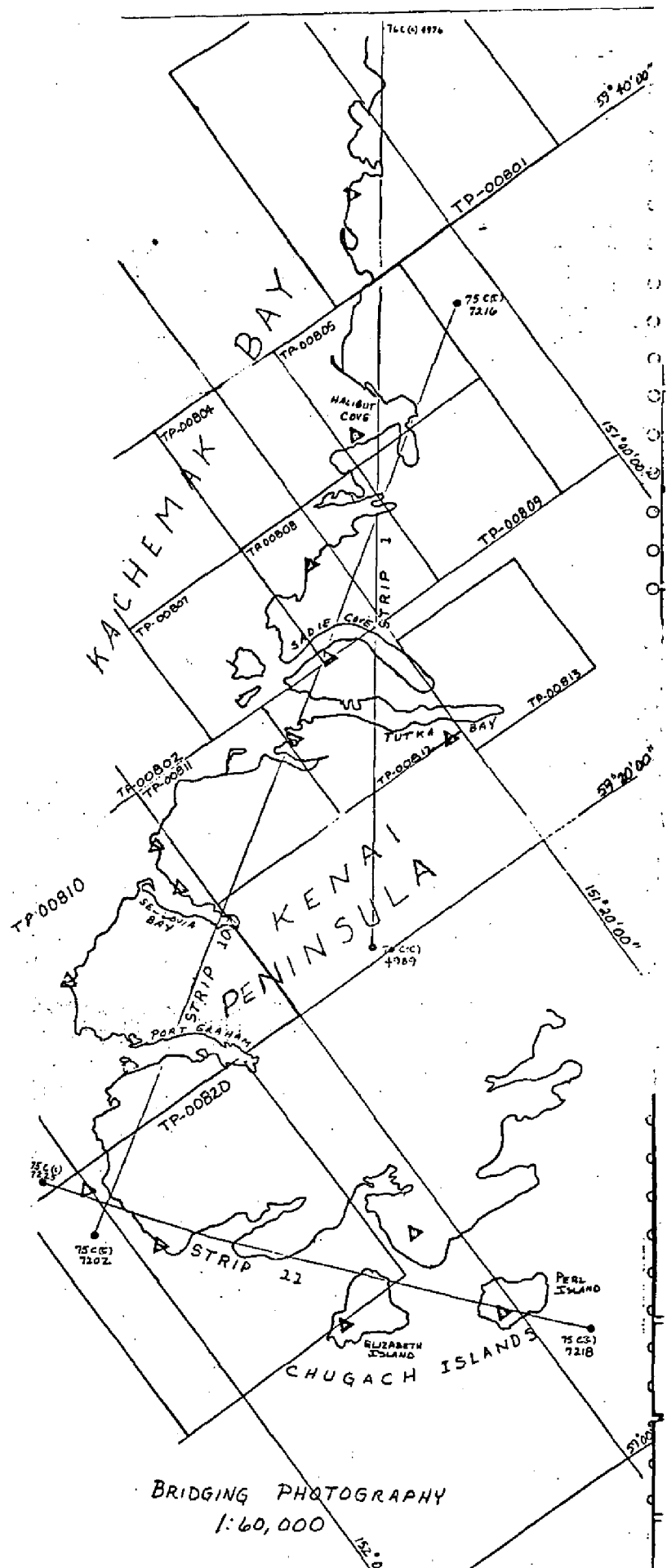
Submitted by:

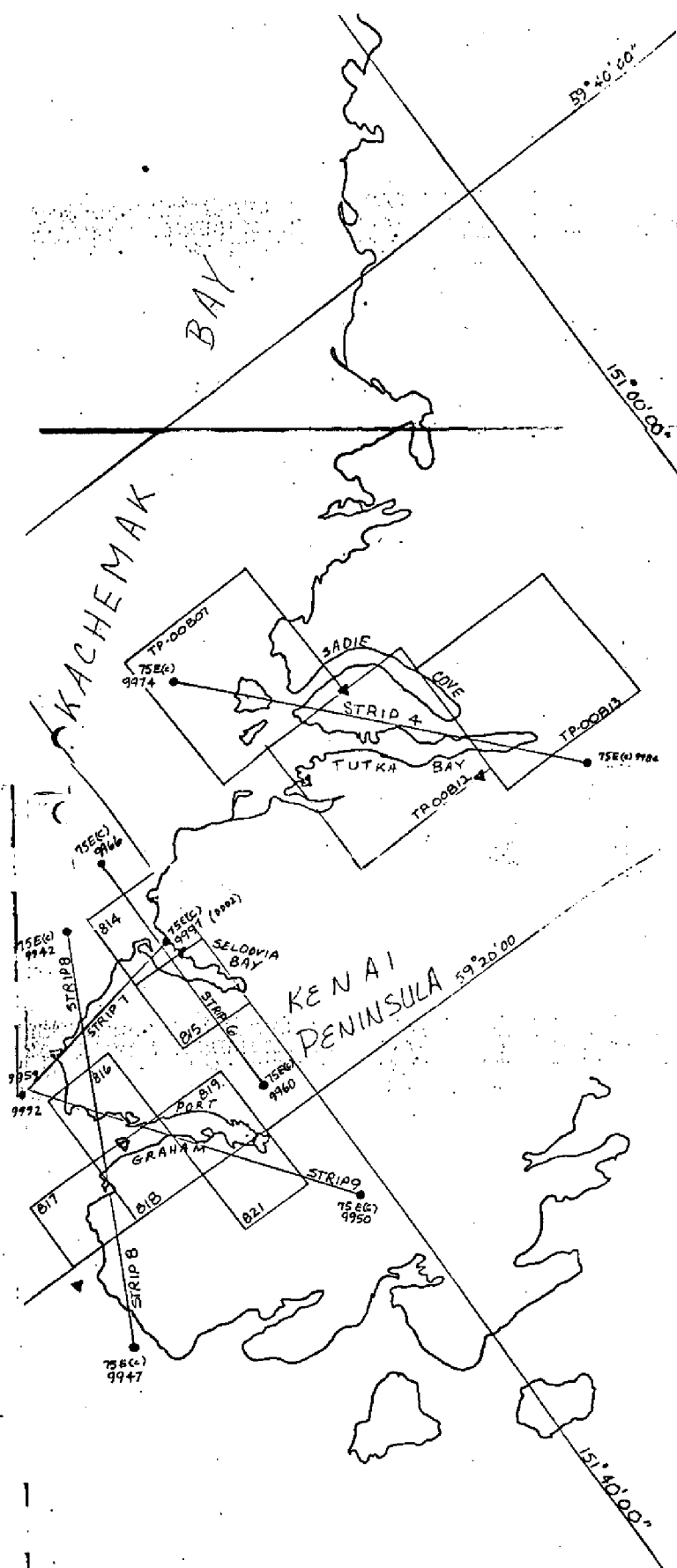
Brian Thornton

Approved and Forwarded:

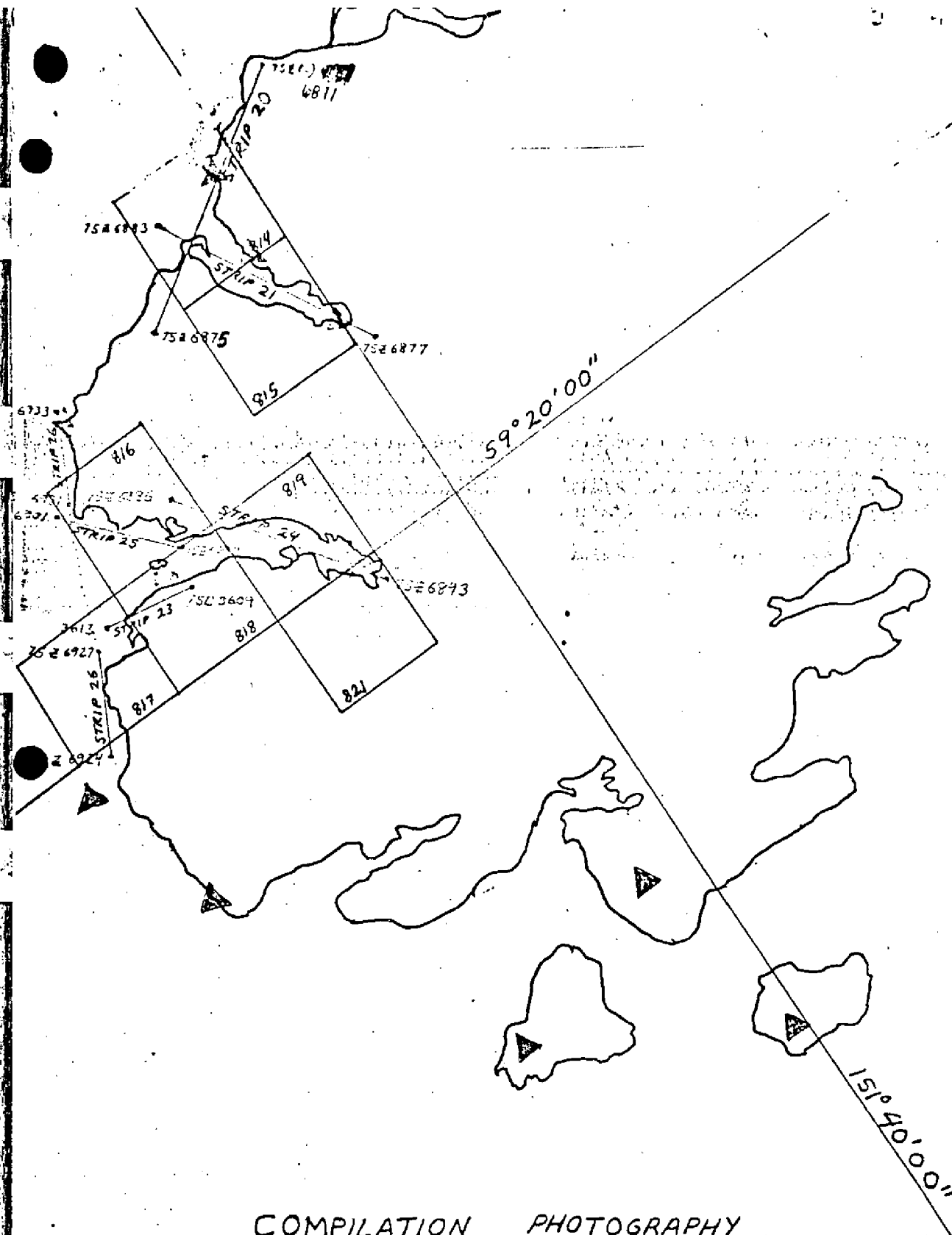
A handwritten signature in cursive script, reading "John D. Perrow Jr.", written in dark ink.

Chief, Aerotriangulation Section

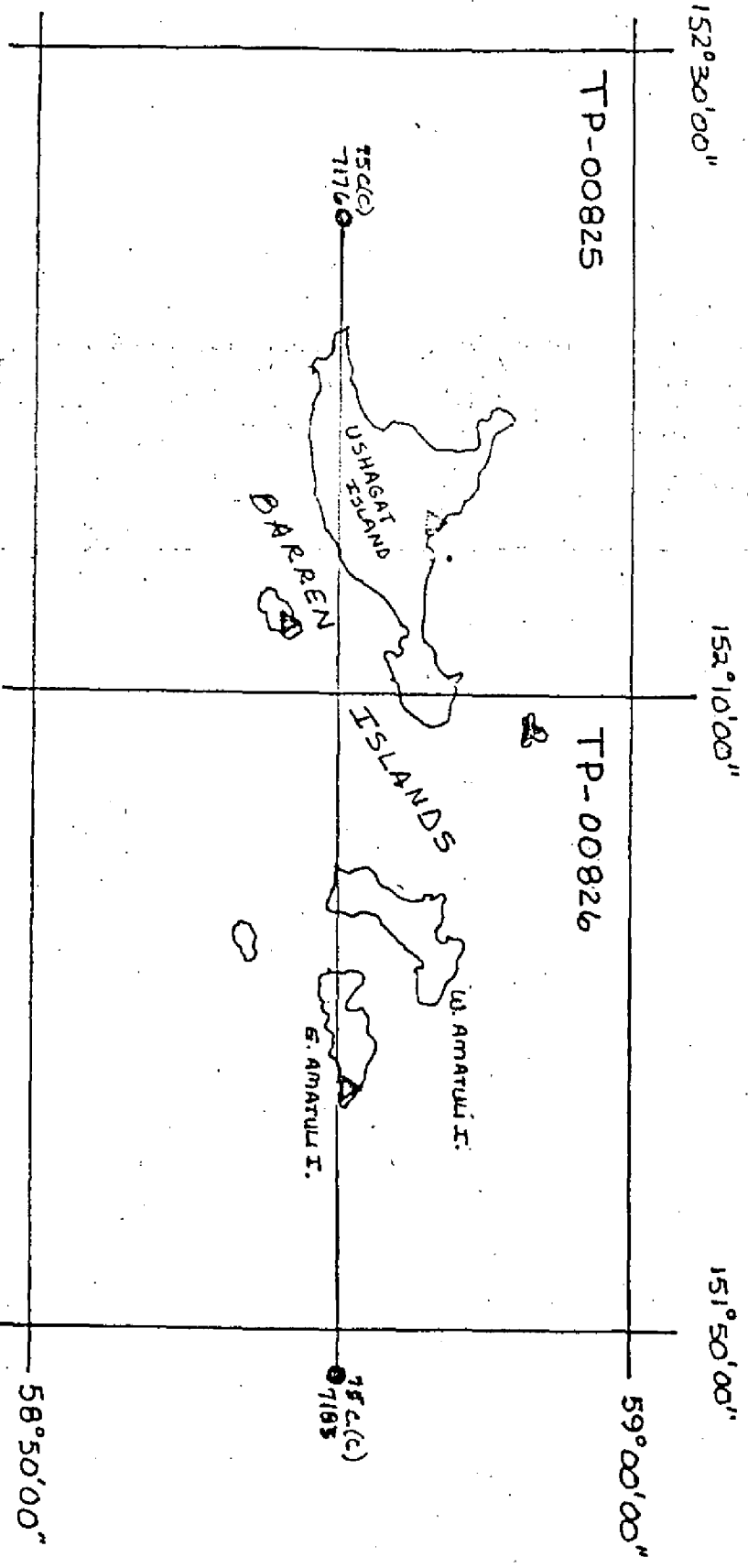




BRIDGING PHOTOGRAPHY
1:30,000



COMPILATION PHOTOGRAPHY
1:15,000



BRIDGING 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

975801

.001

.006

977101

-.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

4-err y-error

Strip #8

944100	-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

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION									
DESCRIPTIVE REPORT CONTROL RECORD									
MAP NO.	JOB NO.	GEODETTIC DATUM		COORDINATES IN FEET		GEOGRAPHIC POSITION		ORIGINATING ACTIVITY	
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	STATE	ZONE	ALASKA	φ LATITUDE	λ LONGITUDE	Unit, AMC, Norfolk, VA	REMARKS
TP-00815	CM-7412								
MAPLE, 1956	Quad. 59151 pg. 14	944100		X=		φ 59 22 02.708			
				Y=		λ 151 52 58.033			
POINT 2, 1956	Quad. 59151 pg. 17	82		X=		φ 59 22 19.069			
				Y=		λ 151 51 55.233			
LEDGE 2, 1956	Quad. 59151 pg. 13	90		X=		φ 59 21 38.914			
				Y=		λ 151 52 28.037			
CHANNEL, 1908	Quad. 59151 pg. 5	92		X=		φ 59 22 03.054			
				Y=		λ 151 54 15.638			
SOUTH, 1908	Quad. 59151 pg. 20	000093		X=		φ 59 21 42.282			
				Y=		λ 151 54 37.927			
ENGLISH, 1980	Field Position			X=		φ 59 21 02.761			
				Y=		λ 151 55 49.306			
PORT GRAHAM ENTRANCE LIGHT, 1956	Quad. 59151 pg. 18			X=		φ 59 22 23.066			
				Y=		λ 151 52 59.092			
COAL, 1980	Field Position			X=		φ 59 23 43.459			
				Y=		λ 151 54 11.838			
BIRD 2, 1956	Quad. 59151 pg. 3	000081		X=		φ 59 23 21.584			
				Y=		λ 151 54 55.408			
DOWN 2, 1956	Quad. 59151 pg. 7	80		X=		φ 59 23 21.584			
				Y=		λ 151 54 55.408			
COMPUTED BY A. Rauck		DATE 6/18/76	COMPUTATION CHECKED BY R. Minton					DATE 11/5/76	
LISTED BY A. Rauck		DATE 6/18/76	LISTING CHECKED BY R. Minton					DATE 11/5/76	
HAND PLOTTING BY I. Williams		DATE 8/80	HAND PLOTTING CHECKED BY C. Blood					DATE 12/81	

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

COMPILATION REPORT

TP-00815

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 1:15,000 scale infrared photography. Supplemental tide coordinated infrared ratio photographs for both MHW and MLLW were used to delineate the MHW and MLLW lines.

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 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 methods as described in item #31.

TP-00815

37 - LANDMARKS AND AIDS

There is one charted navigational aid and no charted landmarks within the mapping limits of this map. The one aid was geographically located.

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

Refer to the 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 Quadrangle:
Seldovia (B-5), Alaska, scale 1:63,360, dated 1951
Seldovia (B-6), 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. 16646; scale 1:20,000, dated Mar. 29, 1975
No. 16645, scale 1:82,662, dated Mar. 13, 1976
No. 16643, scale 1:82,662, dated Apr. 21, 1973.
(same chart)

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

TP-00815

Submitted by:

J. Byrd for

Langley Williams
Cartographic Aid
August, 1980

Approved:

James J. Byrd, for

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

ADDENUM TO COMPILATION REPORT

TP-00815

Five new landmarks were added to this map by the field editor during the 1980 summer season. They include buildings, waterfalls, a pinnacle rock and a bluff.

The tide gage at Flat Island was used for rock data west of longitude $151^{\circ}53.0$. The tide gage at Port Graham was used for rocks east of longitude $151^{\circ}53.0$.

Many rocks not visible on photographs were located by field methods.

The English Bay Airport is a new gravel landing strip.

March 22, 1984

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP - 00815

Coal Cove

Cook Inlet

Dangerous Cape

Dangerous Cape Reef

English Bay

English Bay (locality)

English Bay Airport

English Bay Reef

English Bay River

Flat Islands

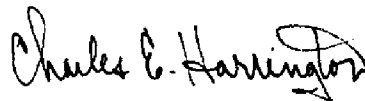
Johnson Slough

Passage Island

Port Graham

Russian Point

Approved by:



Charles E. Harrington
Chief Geographer
Nautical Charting Division

FIELD EDIT REPORT

TP-0815

English Bay

June, 1980

Description

A shoreline dominated by ledges and detached rocks characterizes this manuscript. West of Passage Island kelp is prevalent extending generally 100-400 meters offshore. A thick bed of kelp in English Bay extends from the large reef close to shore 1 nm west to English Bay Reef. The approaches to Port Graham are littered with reefs and clusters of detached rocks, some of which lie well offshore. Several of these hazards are submerged rocks which are only visible as breakers at extreme low tides. East of Passage Island stone or pebble beaches are more the rule and the absence of kelp is quickly noted. Several waterfalls which emerge from the heavily wooded hillsides drop vertically to the beach. Two of these are prominent as landmarks (see NOAA Form 76-40).

Method

All areas of this manuscript were inspected during lower low water. Areas where the mean high water line was in question were investigated at the time of mean high water. On julian days 136 and 137 the rocks and reefs west of Passage Island, Bird Reef, English Bay Reef, the rocks off Russian Point and the rocks south of station Down 2, 1956 were all located by T-2 theodelite cuts at extreme negative tides during relatively calm conditions when these points could actually be occupied and marked with a portable banner. The remainder of the field edit was done in a more conventional manner, walking the beach, where possible, and close inspection from the water using a skiff. Sextant fixes were taken where features could not be identified on the photographs. Two fix volumes accompany this manuscript. Volume 2 contains all of the retained sextant fixes, some of which were transferred from Volume 1. Volume 1 contains all of the T-2 theodelite cuts. All other information in volume 1 has been rejected or transferred to Volume 1 for manuscript TP-0816.

Adequacy and Completeness of Compilation

In general this manuscript as compiled is adequate and complete. However, undoubtedly because of the ruggedness of this coast, a great amount of detail was missed during compilation and has been added by the field editor. Many detached rocks were not found during compilation. This entire manuscript has been field edited.

Manuscript Accuracy

No formal accuracy tests were conducted. However judging from the close comparison of position of features derived both by sextant fix and photogrammetrically, from comparisons between positions of rayed-in points and known positions of geodetic stations and from the close comparison of fixes and check fixes using photogrammetric signals, it can be stated that this manuscript is accurate.

Recommendation

This manuscript after the field edit has been applied will have sufficient detail and will accurately depict this coastline and therefore should be accepted for charting purposes.

Submitted by:

Christopher P. Hancock

Christopher P. Hancock
Lt(jg)., NOAA

Approved by:

A. J. Patrick

A. J. Patrick
Capt., NOAA

REVIEW REPORT
TP-00815
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.G.S. quadrangles:
Seldovia (B-5), Alaska, scale 1:63,360, dated 1951
Seldovia (B-6), Alaska, scale 1:63,360, dated 1952.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

The contemporary survey H-9879, 1:20,000 scale, dated March 11, 1983, was compared to this manuscript. The contemporary survey H-9878 was not available for comparison May 23, 1985.

65 - COMPARISON WITH NAUTICAL CHARTS

Comparisons were made with the following NOS charts:
16646, scale 1:20,000, dated March 29, 1975
16646, scale 1:20,000, dated September 26, 1981
16645, scale 1:82,662 dated July 30, 1983.

A comparison between the earlier chart 16646 dated March 1975 with the latest chart indicate that numerous offshore rocks were added to current charts from the unreviewed Class III Chart Maintenance Print submitted to Marine Charts May 23, 1980. The intended purpose of showing these offshore rocks on the 1980 Chart Maintenance Print was to advise the Hydrographer of potential hazard. The Hydrographer was expected to determine whether or not the rocks existed. It was never intended for charting purposes because the photointerpretation of the rocks did not render positive identification. The field investigation of the rocks reveals one of these rocks to be nonexistent and several others which are symbolized bare rocks on charts, were determined to be submerged at mean high water by the field editor at the time hydrography was performed June 1980. The nonexistent rock was removed from the Final Map. This and other recommended changes were annotated on the Final Chart Maintenance Print.

TP-00815

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.

Submitted by,

Charles E. Blood / J. Byrd

Charles Blood/James L. Byrd, Jr.
Final Reviewers

Approved for forwarding,

Billy H. Barnes

Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved,

John A. Maoney

Chief, Photogrammetric Section,
Rockville

Ronald K. Brewer

Chief, Photogrammetry Branch,
Rockville

Replaces C&GS Form 567.

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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

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)

☒ TO BE CHARTED
☐ TO BE REVISED
☐ TO BE DELETED

REPORTING UNIT
(Field Party, Ship or Office)

Coastal Mapping Unit

AMC, Norfolk, VA

STATE

Alaska

LOCALITY

Cook Inlet, Eastside

Cape Kasilof to Barren Is.

DATE

10/30/81

The following objects HAVE ☒ BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.

DATUM

SURVEY NUMBER

TP-00815

POSITION

N.A. 1927

LONGITUDE

59.092

OFFICE

75E(C)9944

FIELD

Triang. Rec.
June 1980CHARTS
AFFECTED16640
16645
16646

OPR-P114

CHARTING
NAMEDESCRIPTION
(Record reason for deletion of landmark or aid to navigation.
Show triangulation station names, where applicable, in parentheses.)LIGHT
Port Graham Entrance Light 2
(Port Graham Entrance Light, 1956)

LATITUDE

59 22

LONGITUDE

23.066

OFFICE

75E(C)9944

FIELD

Triang. Rec.
June 1980CHARTS
AFFECTED16640
16645
16646

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

[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	A. Patrick
POSITIONS DETERMINED AND/OR VERIFIED	C. Hancock
	C. Blood
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	<input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
	FIELD ACTIVITY REPRESENTATIVE
	OFFICE ACTIVITY REPRESENTATIVE
	<input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
OFFICE I. OFFICE IDENTIFIED AND LOCATED OBJECTS 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	FIELD (Cont'd) 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. EXAMPLE: P-8-V 8-12-75 74L(C)2982
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field P - Photogrammetric L - Located Vis - Visually V - Verified 1 - Triangulation 5 - Field identified 2 - Traverse 6 - Theodolite 3 - Intersection 7 - Planetable 4 - Resection 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	III. TRIANGULATION STATION RECOVERED 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 II. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.
*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 Re-

REPLACES AND SUPERSEDES ALL EDITIONS OF FORM CAGS-978. USCGM-DC 9186-P08