

TP-00816

TP-00816

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
<h1>DESCRIPTIVE REPORT</h1>	
Map No. TP-00816	Edition No. 1
Job No. CM-7412	
Map Classification FINAL MAP - FIELD EDITED	
Type of Survey SHORELINE	
<h2>LOCALITY</h2>	
State ALASKA	
General Locality COOK INLET, EAST SIDE CAPE KASLOF TO BARREN ISLANDS	
Locality PORT GRAHAM	
<div style="border: 1px solid black; padding: 5px; text-align: center;"> 19 75 TO 19 80 </div>	
<h2>REGISTERED IN ARCHIVES</h2>	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
DESCRIPTIVE REPORT - DATA RECORD		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		SURVEY TP. 00816 MAP EDITION NO. (1) MAP CLASS Final JOB PH -CM-7412	
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 PH- MAP CLASS SURVEY DATES: 19__ TO 19__		JOB PH- MAP CLASS SURVEY DATES: 19__ TO 19__	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Aerotriangulation - North Sect Oct. 6, 1975 Compilation - North Sect May 3, 1976 Compilation - Amend I Aug. 17, 1976 Aerotriangulation - South Sect Oct. 4, 1976 Compilation - Amend II Jan. 14, 1977 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	
1. AEROTRIANGULATION BY METHOD: Analytic (South Sect) AND MARKS AND AIDS BY		B. Thornton Jan 1977 J. Perrow, Jr. Jan 1977	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY		B. Thornton Jan 1977 J. Perrow, Jr. Jan 1977	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 SCALE: 1:10,000 CONTOURS BY CHECKED BY		L. Neterer, Jr. May 1980 F. Mauldin May 1980 N.A. N.A.	
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY METHOD: Smooth drafted and graphic SCALE: 1:10,000 HYDRO SUPPORT DATA BY CHECKED BY		R. Kravitz May 1980 F. Margiotta May 1980 N.A. N.A. R. Kravitz May 1980 F. Margiotta May 1980	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		F. Margiotta May 1980	
6. APPLICATION OF FIELD EDIT DATA BY		W. Connally Sept 1981	
7. COMPILATION SECTION REVIEW BY		I. Perkinson Dec 1981	
8. FINAL REVIEW BY		C. Blood/J. Byrd, Jr. June 1985	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		J. Byrd, Jr. Nov 1985	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		P. Dempsey E. DAUGHERTY	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		MAY 1986 MAY 86	

NOAA FORM 76-36B
(3-72)

TP-00816

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 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 checked="" type="checkbox"/> PREDICTED TIDES <input checked="" type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				Alaska	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
75E(C)9953-9956#	Jul.5,1975	10:18	1:30,000	13.1 ft. above MLLW	
75E(I)800-805 *	Jul.9,1975	12:36	1:15,000	15.6 ft. above MLLW	
76E(I)4510-4515**	Jun.28,1976	09:07	1:15,000	1.70 ft. below MLLW	
75B(I)4022 **	Aug.10,1975	10:49	1:15,000	0.40 ft. above MLLW	
76E(I)4521 **	Jun.28,1976	09:16	1:15,000	1.94 ft. below MLLW	
75E(I)809-810 *	Jul.9,1975	12:48	1:15,000	15.02 ft. above MLLW	
75E(I)837-838 *	Jul.9,1975	13:16	1:15,000	16.00 ft. above 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 photography. #Bridge/compilation photo centers are not on map. The Mean High Water at Port Graham is 15.8 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:

**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-00810 1:20,000	TP-00810 1:20,000	TP-00820 1:20,000	TP-00815 1:10,000 TP-00820 1:20,000

REMARKS

The part of this manuscript north of latitude 59°20'00" lies within the south east portion of the 1:20,000 scale TP-00810.

TP-00816

HISTORY OF FIELD OPERATIONS

1. ☒ 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	June 1975
	ESTABLISHED BY None	
	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
76E(I)4514	LUCKY, 1956 (Sub. Pt. Paneled)		

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 ☒ 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)

Project data - 2 Forms 277 & 1 Form 77-53 (Tides record books)
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-00816

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	June 1980
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY D. Hennick	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 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 J. Massey	June 1980
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N/A	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

N/A

2. VERTICAL CONTROL IDENTIFIED

N/A

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

75ER 4510 thru 4514 and 4521

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

N/A

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

Field edit film copy

Field edit fix volume (Form 252)

Form 76-40

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

TP-00816

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.	May 1980	Class III Manuscript	May 27, 1980	May 27, 1980
Field edit applied, compilation complete	Dec. 1981	Class I Manuscript	Dec 1981	
Final Review	June 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	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. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 76-40 ~~76-40~~ 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-00802		TP-00820	15
TP-00803			
TP-00804		TP-00823	15
TP-00805		TP-00824	
TP-00806		TP-00825	
TP-00807		TP-00826	
TP-00808		TOTAL	145
TP-00809			

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

JOB CM-7412

COOK INLET, EAST SIDE
CAPE KASLOF TO BARREN ISLANDS
ALASKA

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

MARCH 1974

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00816

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 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 photointerpretation, 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 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 in 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-00816

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

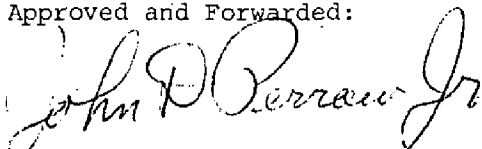
Photography

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

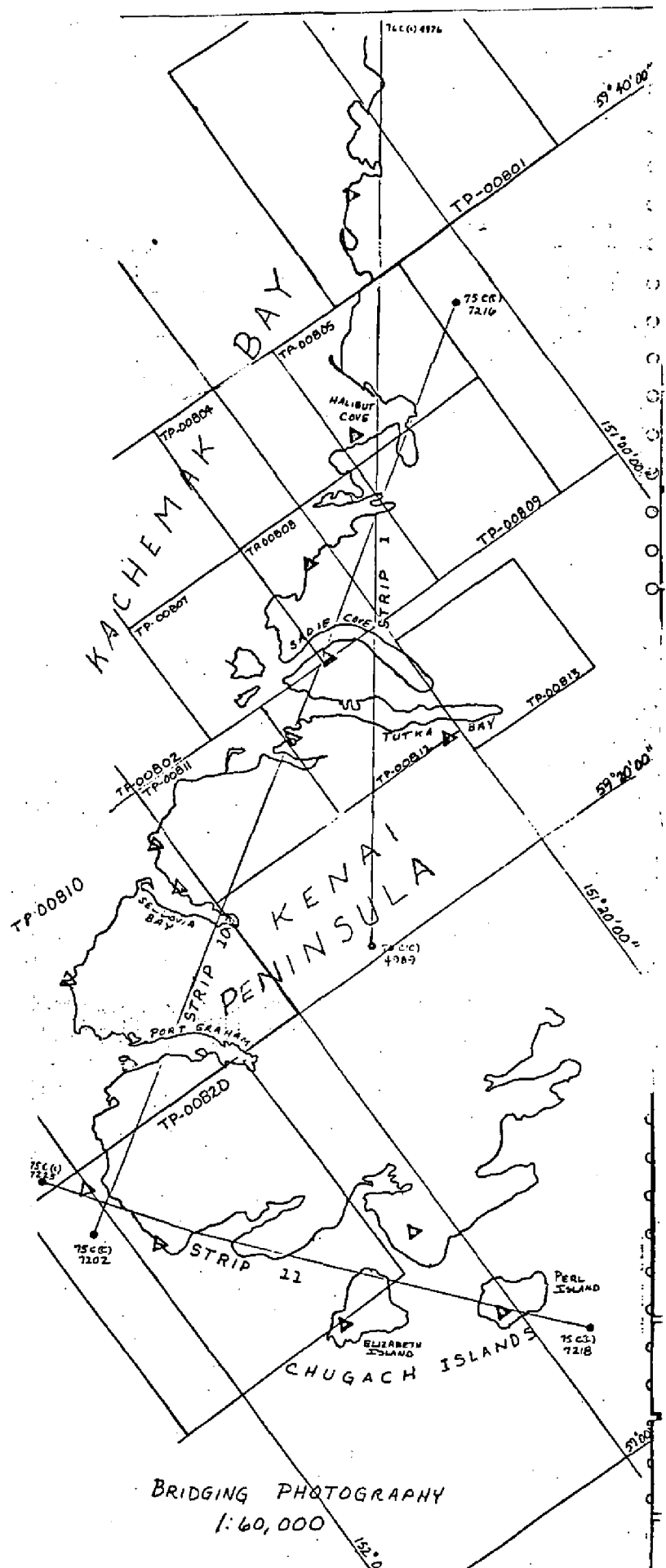
Submitted by:

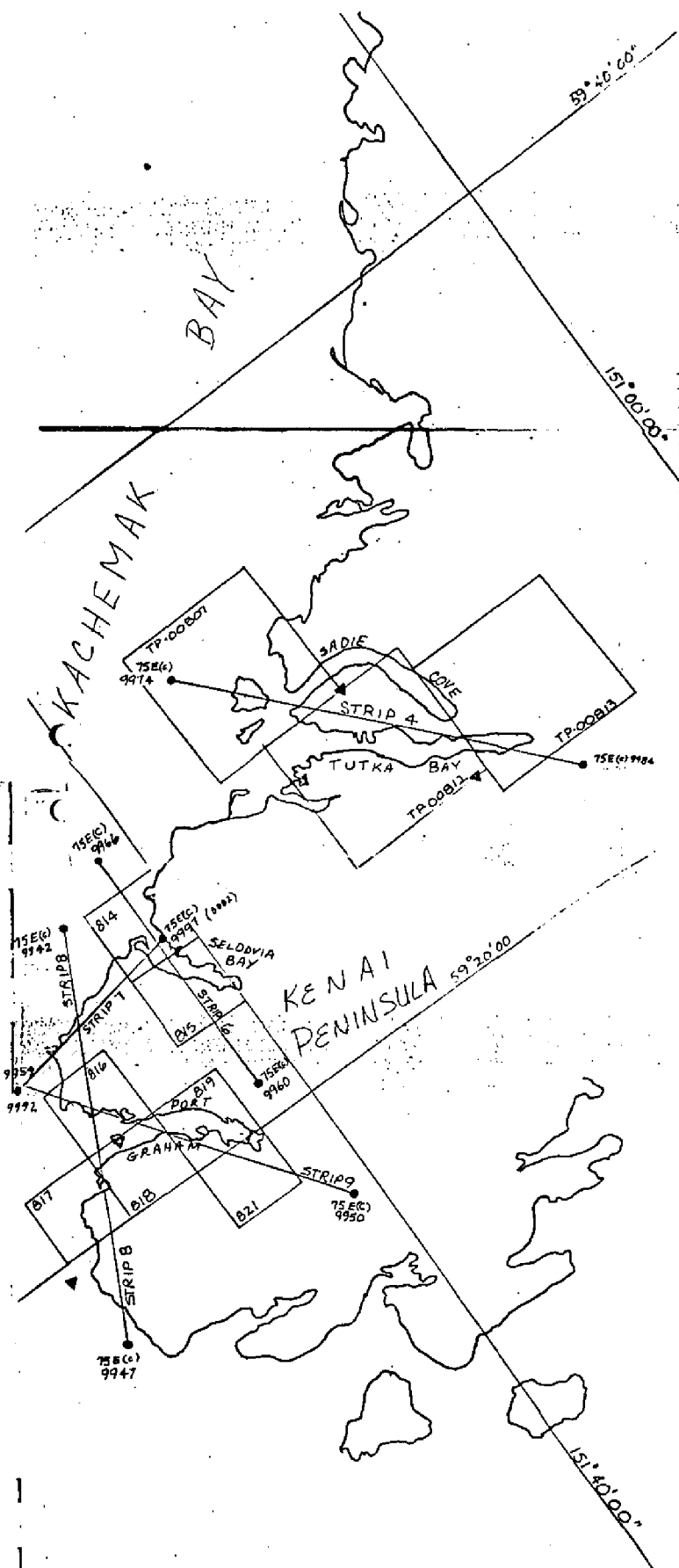
Brian Thornton

Approved and Forwarded:

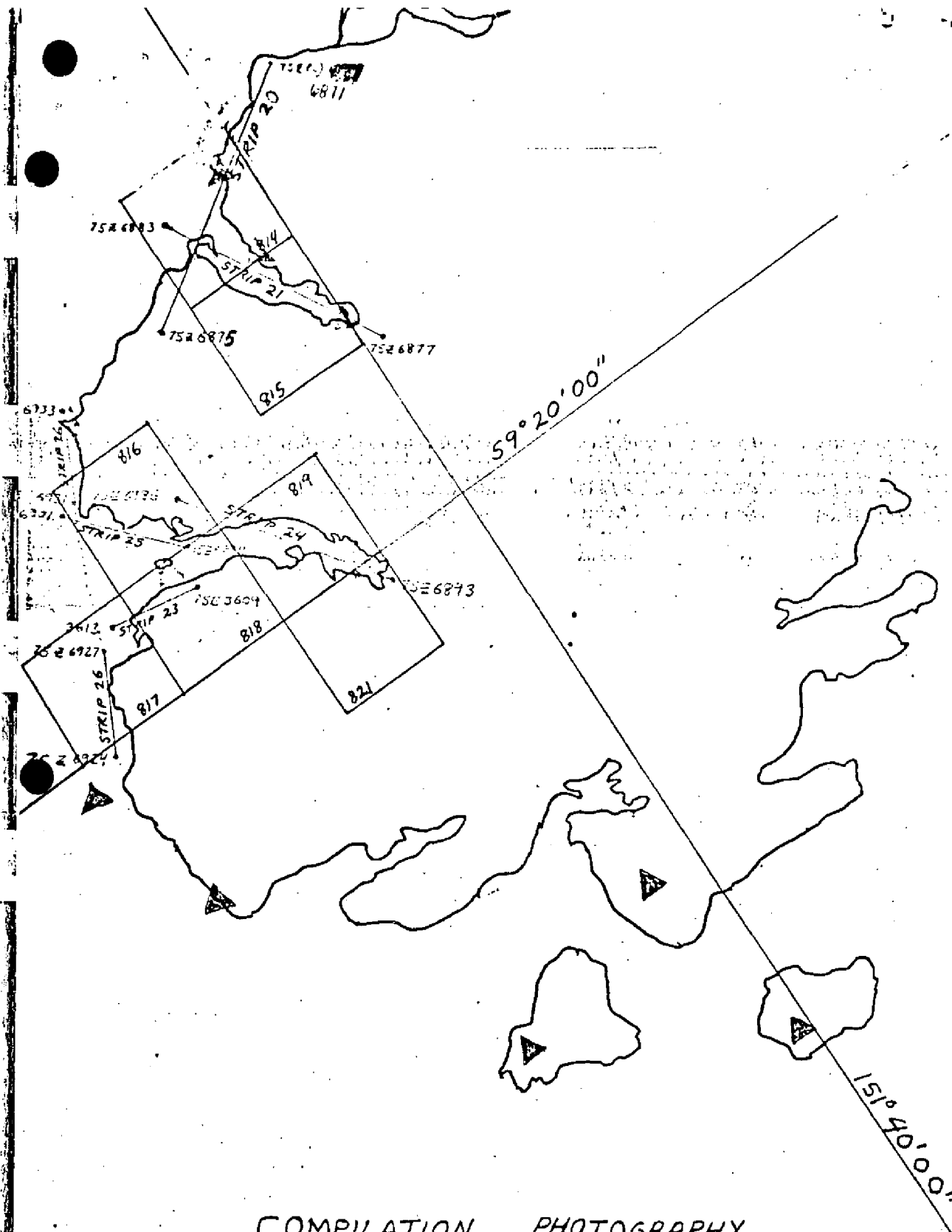


Chief, Aerotriangulation Section



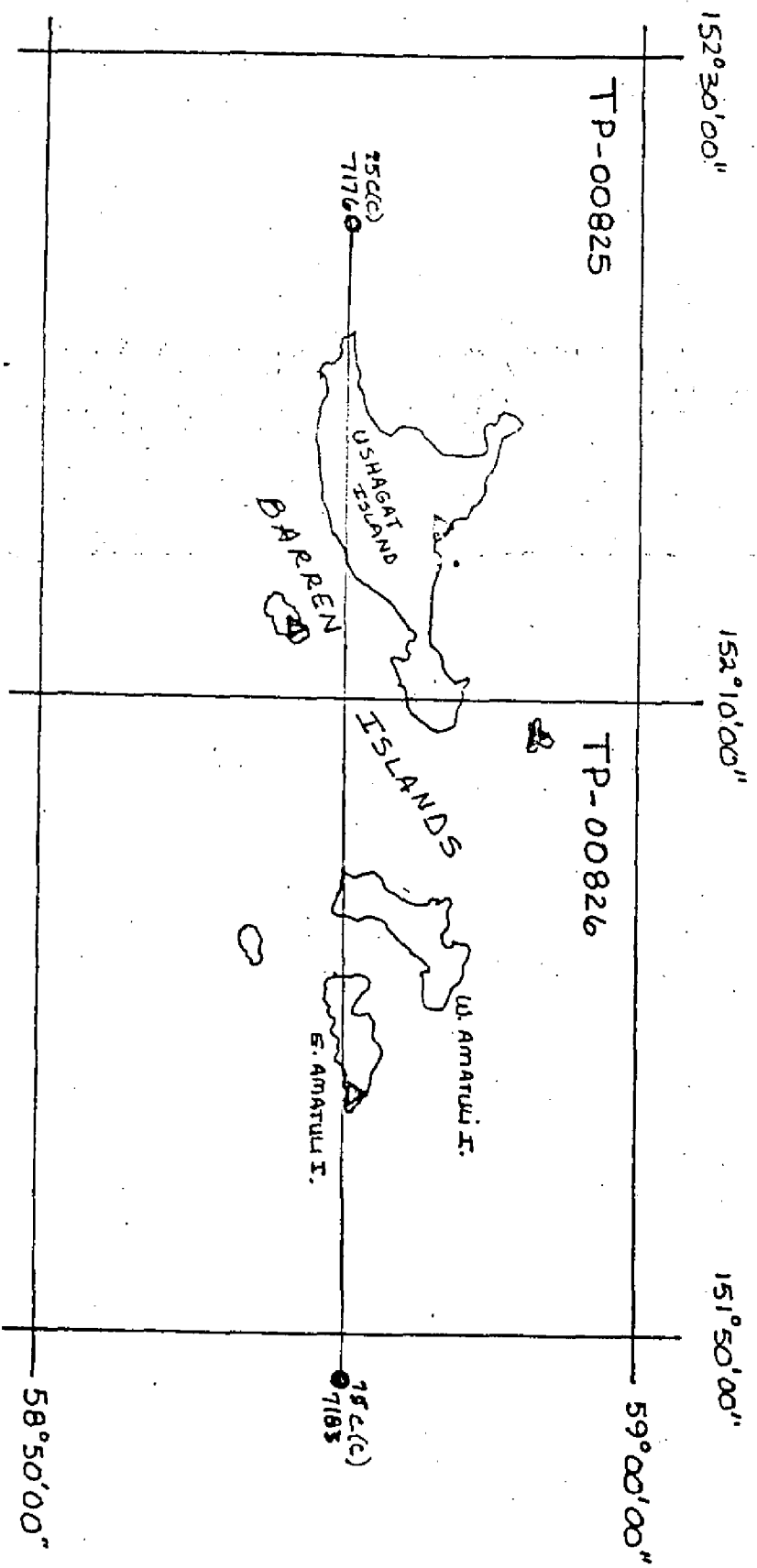


BRIDGING PHOTOGRAPHY
1:30,000



COMPILATION PHOTOGRAPHY

1:15,000



BRIDGING 1:60,000

STRIP 12

1:20,000

Test 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-err

Strip #8

941100	-1.785	-2.540
944100	1.521	-1.094
203100	-1.481	-.632
203802	1.826	-2.245

Strip #9

955101	-.515	1.133
944100	3.529	2.770
204803	-.118	-.672
204804	1.503	-1.036
204806	-.621	.619

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	GEODETIC DATUM		ORIGINATING ACTIVITY		REMARKS
					COORDINATES IN FEET STATE Alaska ZONE 4	N.A. 1927	Unit, AMC, Norfolk, VA	Geographic Position φ LATITUDE λ LONGITUDE	
TP-00816		CM-7412							
GRASS 2, 1956		Quad. 59151 Pg. 10	83		x=	φ 59 21 54.270			
					y=	λ 151 49 55.861			
IVORY, 1956		Quad. 59151 Pg. 12	84		x=	φ 59 21 33.051			
					y=	λ 151 48 13.439			
JEWEL, 1956		Quad. 59151 Pg. 12	00085		x=	φ 59 20 49.824			
					y=	λ 151 47 00.592			
OSAGE, 1956		Quad. 59151 Pg. 15	88		x=	φ 59 20 50.531			
					y=	λ 151 48 19.777			
LUCKY, 1956		Quad. 59151 Pg. 14	86 955100		x=	φ 59 19 44.837			
					y=	λ 151 46 58.112			
SPIKE 3, 1980 (Field pos.)		75-82A			x=	φ 59 21 14.871			
					y=	λ 151 49 59.041			
					x=	φ			
					y=	λ			
					x=	φ			
					y=	λ			
					x=	φ			
					y=	λ			
					x=	φ			
					y=	λ			
COMPUTED BY	A. Rauck	DATE	Jun. 18, 1976	COMPUTATION CHECKED BY	R. Minton	DATE	Nov. 5, 1976		
LISTED BY		DATE		LISTING CHECKED BY		DATE			
HAND PLOTTING BY	A. Rauck	DATE	Jun. 18, 1976	HAND PLOTTING CHECKED BY	R. Minton	DATE	Nov. 5, 1976		
	W. Connally	DATE	Sep. 1981		I. Parkinson	DATE	Dec. 1981		

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

COMPILATION REPORT

TP-00816

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 and graphic methods as described in item #31.

37 - LANDMARKS AND AIDS

There are no charted navigational aids or charted landmarks within the mapping limits of this map.

TP-00816

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
Quadrangle:
Seldovia (B-5), Alaska, scale 1:63,360, dated 1951

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.

Submitted by:

Robert R. Kravitz
Robert R. Kravitz
Cartographic Technician
May 14, 1980

Approved:

J. Byrd for
Albert C. Rauck, Jr.
Chief, Coastal Mapping Section

ADDENDUM TO THE COMPILATION REPORT

TP-00816

Field edit was adequate. One new landmark to be charted was identified. The Port Graham tide gage was monitored during field edit operations to obtain actual tide data.

March 22, 1984

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP - 00816

Ducan Slough

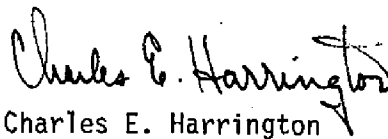
Port Graham

Port Graham (locality)

Port Graham Airfield

Tulcan Slough

Approved by;

Charles E. Harrington
Chief Geographer
Nautical Charting Division

FIELD EDIT REPORT

TP-0816

Port Graham

June, 1980

Description

The village of Port Graham on the south shore has a large pier on which is built a fish cannery. A large anchorage lies east of town. At the southeast end of the inlet where the drainage empties out there is an extensive mudflat. In general the shoreline is characterized by gravel and pebble beaches. There are some ledge outcroppings and detached rocks. There are several cabins east of the town along the inlet; one is of landmark value. (See NOAA Form 76-40)

Method

Most of the shore in the northern portion of the inlet was field edited on foot during lower low water. The shoreline to the southeast was inspected from a skiff during a higher tide. Some features not visible on the photographs had to be located using sextant fixes. All retained fixes can be found in a single volume, labeled TP-816, volume 1. These fixes have been transferred from volume 1, TP-815, in which all of the fixes for TP-816 were originally recorded.

Adequacy and Completeness of Compilation

In general the manuscript as compiled was adequate. Some features missed by the compiler had to be added during field edit. This entire manuscript was field edited.

Manuscript Accuracy

No formal accuracy tests were conducted. However some photogrammetric signals were successfully used for sextant fixes with check angles.

Recommendation

This manuscript after the field edit data has been applied will be complete, accurate, and acceptable for charting purposes.

Submitted by:

*Christopher P. Hancock*Christopher P. Hancock
Lt(jg)., NOAA

Approved by:

*A. J. Patrick*A. J. Patrick
Capt., NOAA

FIELD EDIT NOTE
 OPR-P114-FA-80
 Southern Cook Inlet
 Summer, 1980

Several inadequacies in the data received from the photogrammetric office made the job of field edit exceedingly more difficult than necessary. The commencement of Field Edit on this project was delayed by 5 weeks because of the late arrival of 2 manuscripts. One stable-base copy of each photo was all that was supplied. Therefore these valuable and vulnerable cronopaques had to be taken into the field. This problem is addressed in the attached memo OA/C34:WSS. To make matters worse these photos had been marked with red ink, obscuring images along the shoreline and totally obliterating the images of some detached rocks. Compilation of the manuscripts was in some instances inadequate. Details of the mean high water line and ledges as well as some isolated rocks and reefs which are clearly visible on the photographs were overlooked. Two small islands, obvious on the photography, were completely left out during compilation. They were on TP-0816 at 59°21'10"N, 151°47'25"W and on TP-0815 at 59°21'27"N, 151°51'45"W. On TP-823 two non-existent isolated rocks were plotted well offshore where no images were visible on any of the photographs. These were at 59°09'36"N, 151°41'45"W and 59°05'57"N, 151°40'40"W. Similarly on TP-820 at 59°11'50"N, 151°45'36"W a group of non-existent rocks were plotted where no images appear on the photographs, yet only 300 meters south along the shore a group of large easily identifiable rocks was not compiled. Miscompilations such as these can confuse and mislead the field editor when trying to locate his position. Time is wasted during the valuable hours of low tide levels.

All of the field edit data has been depicted on film ozalids labeled MASTER FIELD EDIT PRINT. All features shown in violet have been verified or added by the field editor. Those features marked in green are to be deleted. Features identified on the photographs were pricked or outlined and labeled in violet. Correspondingly the MASTER FIELD EDIT PRINT was marked as close as possible to the actual position of the feature and labeled with all pertinent information. T-2 theodelite and sextant fixes using geodetic, photogrammetric and hydrographic signals were taken in areas where small features could not be clearly identified, where photo interpretation was difficult due to shadows on the photography, or where it was apparent that changes had occurred since the time of the photography. Some of these features were later identified on the photographs with the help of a light table and mirror stereoscope. The corresponding fixes were then rejected. All retained fixes were calculated and checked by RK 300 and then plotted on the MASTER FIELD EDIT PRINT, labeled with the fix number and all of the related data. Each manuscript, except TP-810, is accompanied by a SIGNAL OVERLAY on which are plotted all of the hydrographic and photogrammetric signals.

An inspection from seaward for significant landmarks was conducted by both the field editor and the hydrographer. NOAA Forms 76-40, received from the photogrammetric office, were corrected and amended. In the case of TP-810, the NOAA Forms 76-40 which have been submitted were originated during the field edit operation.

Submitted by:

Christopher P. Hancock

Christopher P. Hancock
Lt(jg)., NOAA

Approved by:

A. J. Patrick

A. J. Patrick
Capt., NOAA

REVIEW REPORT
TP-00816
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. quadrangle: Seldovia (B-5), Alaska, scale 1:63, 360, dated 1951.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

The contemporary survey H-9878 was not available for comparison at the time of final review.

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 indicates 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 several of these rocks to be nonexistent by the field editor at the time hydrography was performed June 1980. The nonexistent rocks were removed from the Final Map. These and other recommended changes are annotated on the Final Chart Maintenance Print and forwarded to the 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-00816

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 H. Mueny

Chief, Photogrammetry Branch

Ronald K. Brewer

Chief, Photogrammetry Division

Replaces C&GS Form 567.

NONFIXATING AND/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!)*

[illegible]

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	W. Connally
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
OFFICE 1. 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	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.	

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.

 FORMER PAGE AND NUMBERED ALL EDITIONS OF FORM 2402-07b