

TP 00814

TP-00814

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-00814	<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> SELDOVIA BAY	
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 1975 TO 19 81 </div>	
<h2>REGISTERED IN ARCHIVES</h2>	
<i>DATE</i>	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.							
DESCRIPTIVE REPORT - DATA RECORD		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"> TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED </td> <td style="width: 50%;"> SURVEY TP. <u>00814</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final</u> JOB <u>CM-7412</u> </td> </tr> </table>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP. <u>00814</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final</u> JOB <u>CM-7412</u>				
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PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit, Atlantic Marine Center, Norfolk, VA		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"> LAST PRECEDING MAP EDITION </td> </tr> <tr> <td style="width: 50%;"> TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED </td> <td style="width: 50%;"> JOB <u>PH-</u> MAP CLASS <u></u> SURVEY DATES: 19__ TO 19__ </td> </tr> </table>		LAST PRECEDING MAP EDITION		TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB <u>PH-</u> MAP CLASS <u></u> SURVEY DATES: 19__ TO 19__		
LAST PRECEDING MAP EDITION									
TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB <u>PH-</u> MAP CLASS <u></u> SURVEY DATES: 19__ TO 19__								
OFFICER-IN-CHARGE Roy K. Matsushige									
I. INSTRUCTIONS DATED									
1. OFFICE		2. FIELD							
Aerotriangulation - North Sect Oct. 16, 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 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		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"> 4. GRID(S) </td> </tr> <tr> <td style="width: 50%;"> STATE <u>Alaska</u> </td> <td style="width: 50%;"> ZONE <u>4</u> </td> </tr> <tr> <td> STATE </td> <td> ZONE </td> </tr> </table>		4. GRID(S)		STATE <u>Alaska</u>	ZONE <u>4</u>	STATE	ZONE
4. GRID(S)									
STATE <u>Alaska</u>	ZONE <u>4</u>								
STATE	ZONE								
5. SCALE 1:10,000									
III. HISTORY OF OFFICE OPERATIONS									
OPERATIONS		NAME	DATE						
1. AEROTRIANGULATION BY METHOD: <u>Analytic (South Sect)</u>		<u>B. Thornton</u>	<u>Jan 1977</u>						
ND MARKS AND AIDS BY		<u>J. Perrow, Jr.</u>	<u>Jan 1977</u>						
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Coradomat</u> CHECKED BY		<u>B. Thornton</u> <u>J. Perrow, Jr.</u>	<u>Jan 1977</u> <u>Jan 1977</u>						
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: <u>Wild B-8</u> CONTOURS BY SCALE: <u>1:10,000</u> CHECKED BY		<u>J. Roderick</u> <u>R. Kravitz/F. Mauldin/L. Netter</u> <u>N.A.</u> <u>N.A.</u>	<u>Apr 1980</u> <u>Apr 1980</u>						
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY METHOD: SCALE: <u>1:10,000</u> HYDRO SUPPORT DATA BY CHECKED BY		<u>J. Roderick</u> <u>A. Rauck</u> <u>N.A.</u> <u>N.A.</u> <u>J. Roderick</u> <u>A. Rauck</u>	<u>May 1980</u> <u>May 1980</u> <u>May 1980</u> <u>May 1980</u>						
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		<u>A. Rauck</u>	<u>May 1980</u>						
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		<u>W. Connally/I. Perkinson</u> <u>C. Blood</u>	<u>Jan/Jun 1982</u> <u>Jul 1982</u>						
7. COMPILATION SECTION REVIEW BY		<u>C. Blood</u>	<u>May 1984</u>						
8. FINAL REVIEW BY		<u>D. Blood/J. Byrd, Jr.</u>	<u>Jun 1985</u>						
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		<u>J. Byrd, Jr.</u>	<u>Nov 1985</u>						
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		<u>P. Dempsey</u>	<u>Mar 1986</u>						
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		<u>E. DAUGHERTY</u>	<u>MAY 86</u>						

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"/> PREDICTED TIDES				Alaska	
<input checked="" type="checkbox"/> REFERENCE STATION RECORDS				<input checked="" type="checkbox"/> STANDARD	
<input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN	
				150th	
				<input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
75E(C)9962-9965#	Jul.5,1975	10:34	1:30,000	13.4 ft. above MLLW	
75E(C)9994-9996#	Jul.5,1975	11:17	1:30,000	13.5 ft. above MLLW	
75E(I)1450-1454*	Aug.7,1975	12:18	1:30,000	17.57 ft. above MLLW	
75B(I)3986-3992**	Aug.10,1975	10:15	1:15,000	1.90 ft. below MLLW	
75E(I)1487-1491 & 94**	Aug.10,1975	10:22	1:30,000	1.55 ft. below MLLW	
				Mean tide range Seldovia 15.4 ft.	

REMARKS #Bridge and/or compilation photograph centers are not shown on manuscript.
A tide gage was read at Seldovia during 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 HIGH-WATER LINE~~ 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 TP-00815 1:20,000		EAST		SOUTH	
TP-00810 1:20,000		TP-00811		TP-00810 1:20,000	
				WEST	
				TP-00810 1:20,000	

REMARKS This 1:10,000 scale T-sheet is a part of the northeast quadrant of TP-00810.
No junction is permissible to the south with TP-00810.

TP-00814

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 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
75E(C)9964	WATCH, 1956		
75C(C)7207	SELDOVIA, 1910		
75C(C)7206	GOOSE, 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: ☐ 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)

3 Forms 152, Project data: 2 Form - Tides 277 (Tides Record Books)

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

TP-00814

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	W. Mobley	June 1981
2. HORIZONTAL CONTROL	RECOVERED BY J. Gordon ESTABLISHED BY J. Gordon PRE-MARKED OR IDENTIFIED BY None	May 1981 May 1981
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. Gordon LOCATED (Field Methods) BY J. Gordon IDENTIFIED BY None	June 1981 June 1981
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	None
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY N.A.	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
N.A.		N.A.	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

75 E(I) 1487 thru 1489 and (1490, 1:20,000 scale ratio)
75 B(I) 3987 thru 3991

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

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

Field Edit Film Copy

Field Edit Report

2 NOAA Forms 76-40

6 Pages of sketches

5 Pages Master Control Station List

4 Pages Form 76-45 Field Geographic Positions

1 Page Geographic Positions by Sextant

TP-00814
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.	5/80	Class III Manuscript	5/30/80	5/30/80
Partial field edit applied.	1/82	Class III Manuscript	7/82	
Field edit applied, compilation complete.	7/82	Class I Manuscript		
Final Review	6/85	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 for Charts
1		Mar 1986	Aids to Navigation for Charts

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 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

OFFICIAL MILEAGE FOR COST ACCOUNTS

SHEET No.	Sq. Mi.	SHEET No.	Sq. Mi.
TP-00793	7	TP-00810	17
TP-00794		TP-00811	
TP-00795		TP-00812	
TP-00796		TP-00813	
TP-00797		TP-00814	
TP-00798		TP-00815	
TP-00799		TP-00816	
TP-00800		TP-00820	18
TP-00801			
TP-00802			
TP-00803			
TP-00804			
TP-00805		TP-00823	19
TP-00806			
TP-00807			
TP-00808			
TP-00809			
		TOTAL	195

REVISED 9/23/75 R.W.M.
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

6

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00814

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 all of Seldovia Bay and the south shoreline of Kachemak Bay from longitude 151°50'00" to the west and eastward to longitude 151°40'00".

Field work prior to compilation consisted of the recovery and identification of the horizontal control necessary for the aerotriangulation of the project and establishing and monitoring tide gages while the photography was being taken for the tide coordinated infrared photographs. This activity was completed in August 1975.

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 July and August 1975. 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, July 1982. Refer to the compilation report, item #31 and NOAA Form 76-36B for specific usage of the photography.

Field edit was conducted in May and June 1981 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 July 1982.

Final review was performed at the Atlantic Marine Center in June 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.

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FIELD INSPECTION

TP-00814

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

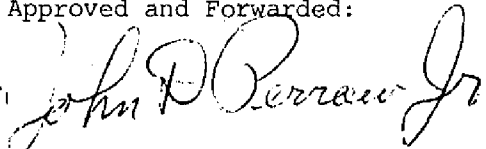
Photography

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

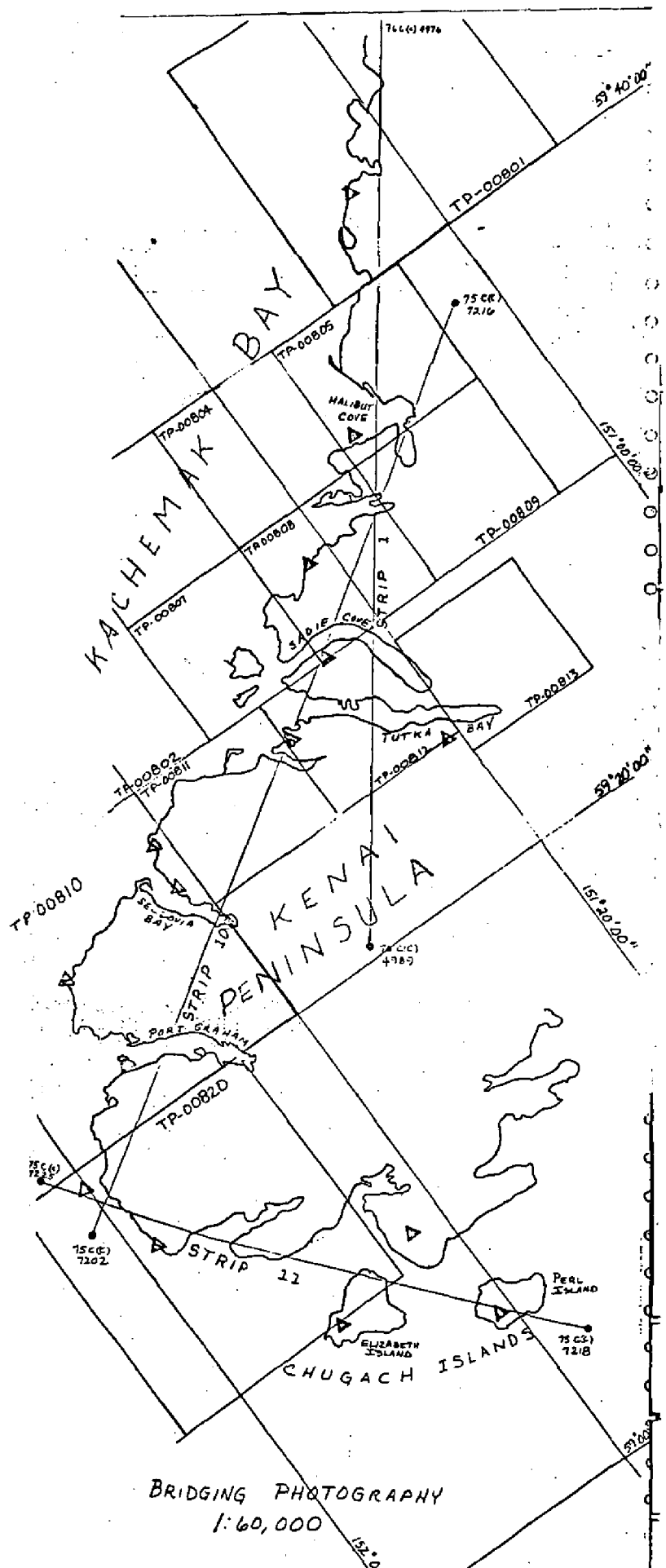
Submitted by:

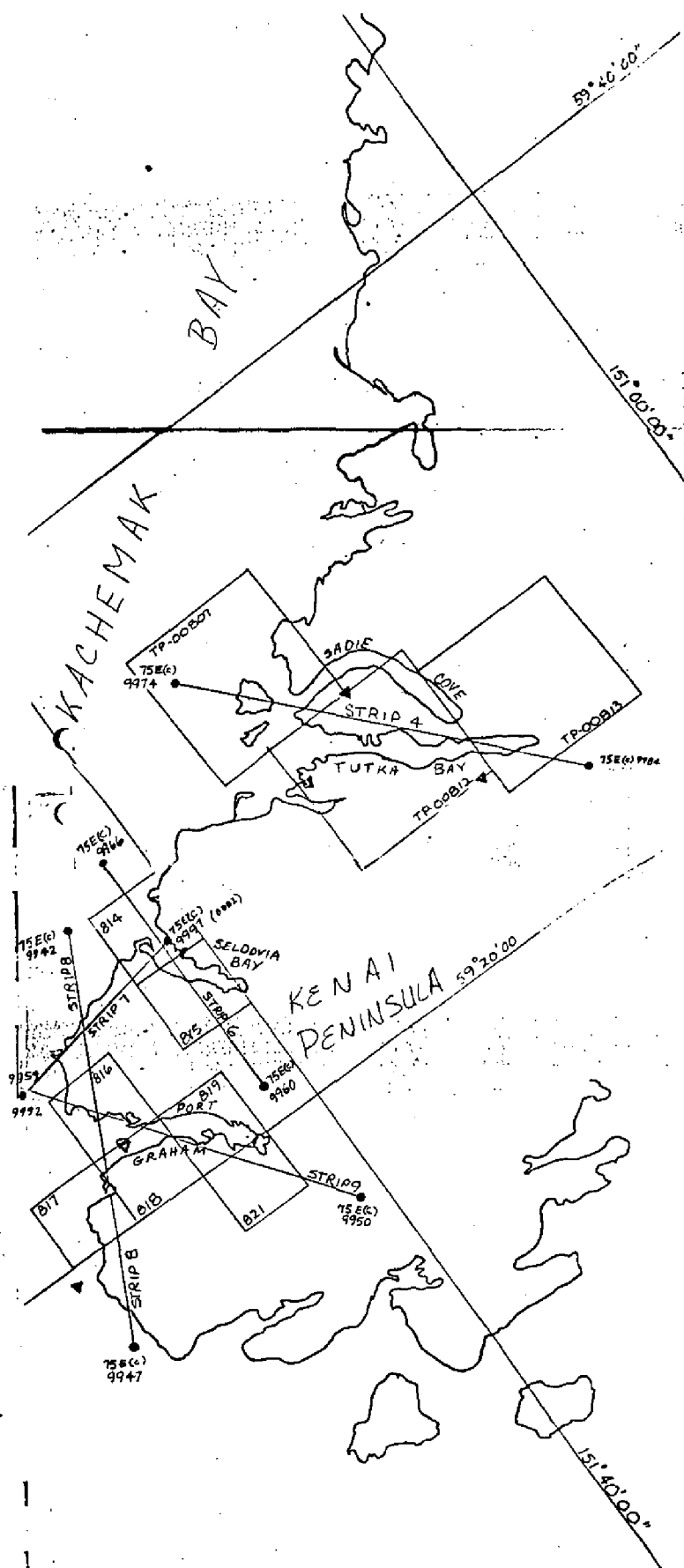
Brian Thornton

Approved and Forwarded:



Chief, Aerotriangulation Section

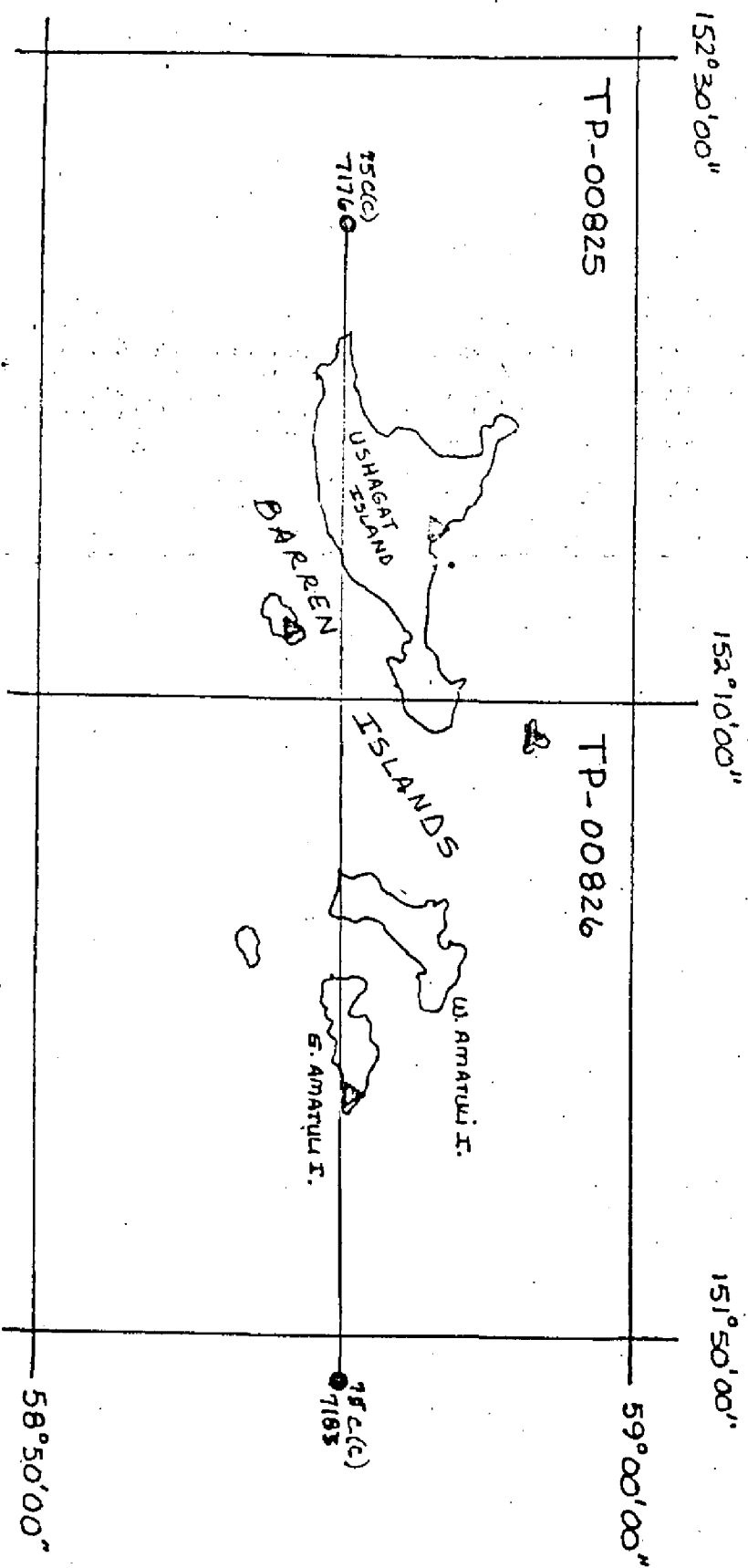




BRIDGING PHOTOGRAPHY
1:30,000



COMPILATION PHOTOGRAPHY
1:15,000



BRIDGING 1:69,000

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	-3.878	- .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

List and Accuracy of Control Used in Strip Adjustment

x-error y-error

Strip #11

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

Strip #4

915801	.001	.006
911101	-.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-error

y-error

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.	GEOIDETIC DATUM		AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET STATE Alaska ZONE 4		GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE		REMARKS
			TP-00814	CM-7412		N.A. 1927	Unit, AMC, Norfolk, VA			
WATCH, 1956		Quad. 59151 pg. 22	964100			X=	φ 59 26 34.812			
						Y=	λ 151 43 08.884			
SELDOVIA, 1910		Quad. 59151 pg. 19	207100			X=	φ 59 28 12.905			
						Y=	λ 151 42 08.004			
GRAY CLIFF LIGHT CENTER, 1956		Quad. 59151 pg. 10	000069			X=	φ 59 27 09.91			
						Y=	λ 151 43 08.22			
BALSA, 1956		Quad. 59151 pg. 2	181			X=	φ 59 27 09.854			
						Y=	λ 151 43 08.282			
WEST, 1956		Quad. 59151 pg. 23	176			X=	φ 59 26 52.708			
						Y=	λ 151 44 57.477			
SELDOVIA ENTRANCE LIGHT, 1956		Quad. 59151 pg. 19	0000165			X=	φ 59 56 34.84			
						Y=	λ 151 43 09.38			
SELDOVIA CHURCH CROSS, 1956		Quad. 59151 pg. 19	000071			X=	φ 59 26 24.030			
						Y=	λ 151 42 51.329			
ATLAS, 1956		Quad. 59151 pg. 1	72			X=	φ 59 26 22.102			
						Y=	λ 151 44 15.441			
CROWN, 1956		Quad. 59151 pg. 6	74			X=	φ 59 26 02.620			
						Y=	λ 151 43 02.957			
GOOSE, 1956		Quad. 59151 pg. 9				X=	φ 59 23 53.853			
						Y=	λ 151 41 30.623			
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	
			DATE 1/82	HAND PLOTTING CHECKED BY I. Perkinson			DATE 6/82			

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODEIC DATUM		ORIGINATING ACTIVITY		REMARKS
				N.A. 1927	Unit, AMC, Norfolk, VA			
STATION NAME	CM-7412			COORDINATES IN FEET STATE Alaska ZONE 4	φ LATITUDE λ LONGITUDE			
FLINT, 1956	Quad. 59151 pg. 9	77		X=	φ 59 24 27.009			
				Y=	λ 151 41 36.221			
ELBOW, 1956	Quad. 59151 pg. 8	76		X=	φ 59 24 52.738			
				Y=	λ 151 42 56.807			
POWDER, 1956	Quad. 59151 pg. 18	75		X=	φ 59 25 24.124			
				Y=	λ 151 42 53.646			
DIXIE, 1956	Quad. 59151 pg. 7	73		X=	φ 59 25 30.907			
				Y=	λ 151 44 06.883			
GRACE, 1981 (field pos.)	Field GP Form 76-45			X=	φ 59 25 31.891			
				Y=	λ 151 42 22.008			
SELDOVIA DOCK NORTH LIGHT 1981 (field pos.)	Field GP Form 76-45			X=	φ 59 26 29.161			
				Y=	λ 151 43 07.653			
SELDOVIA DOCK SOUTH LIGHT 1981 (field pos.)	Field GP Form 76-45			X=	φ 59 26 27.563			
				Y=	λ 151 43 05.331			
				X=	φ			
				Y=	λ			
				X=	φ			
				Y=	λ			
				X=	φ			
				Y=	λ			
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 W. Connally		DATE 1/82		HAND PLOTTING CHECKED BY I. Perkinson			DATE 6/82	

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

COMPILATION REPORT

TP-00814

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 and 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 five non-floating aids to navigation and one landmark within the mapping limits of this map. Appropriate Forms 76-40 were forwarded to the field editor for verification or deletion.

TP-00814

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

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

Joanne D. Roderick
Joanne D. Roderick
Cartographer
May 21, 1980

Approved:

J. Byrd for
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 Islands, Alaska)

TP - 00814

Camel Rock

Gray Cliff

Kachemak Bay

Point Naskowhak

Powder Island

Red Bluff

Seldovia

Seldovia Airport

Seldovia Bay

Seldovia Lagoon

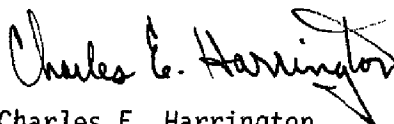
Seldovia Point

Seldovia River

Seldovia Slough

Watch Point

Approved by;



Charles E. Harrington
Chief Geographer
Nautical Charting Division

FIELD EDIT REPORT

OPR-P114-RA-81

CM-7412

TP-00814

ALASKA

SOUTHERN COOK INLET

SELDOVIA BAY

1 FIELD UNIT

4 MAY 1981 - 14 JUNE 1981

(JD 124 - 165)

51. METHODS

Field edit for TP-00814 was conducted between 4 May 1981 (124) and 14 June 1981 (165) during low water by walking the shoreline and by utilizing a 16-foot skiff close inshore.

Landmarks and aids for charts were investigated from seaward.

Field edit data was noted on photographs: NOS 10 Aug 75 ER-1487 - 1490, 1494 (submitted with TP-00811), 3987 - 3992, as well as on the master field edit ozalid. Photo quality was excellent. Notes were color-coded as follows:

Violet	-	additions, verifications
Green	-	deletions
Red	-	photo locations

Heights of rocks were estimated at close range. Unless otherwise noted, heights are in feet above the current water level, times are UTC (Zulu), and dates are Julian.

Editing of the sheet was by direct field inspection and comparison of the photographs and manuscript. Features not visible on the photos were located by sextant fixes and the computed positions were plotted on the ozalid. These positions numbered 1 through 6. Position 7 was taken by range/azimuth methods using a skiff-mounted Miniranger console and a theodolite azimuth from a Third Order, Class I shore station. Electronic correctors were applied and the information plotted.

In addition, a dolphin and a pile were located by RAINIER Launch RA-3 (2123) as Position 4591 and 4594 on Julian date 137, Sheet RA-5-1-81. Correctors were applied and the information plotted on the Hydrographic Field Sheet, RA-5-1-81 (H-9940).

Hydrographic Surveys H-9940 and H-9945 include all the shoreline within the limits of TP-00814.

52. ADEQUACY OF COMPILATION

The compilation of TP-00814 was adequate and complete except for minor changes. Additions and deletions of detail to render TP-00814 complete and adequate were made to the photos, master field edit ozalid, and diagrams. The notes are self-explanatory. All compilation questions have been answered. The mean high water line was verified by visual inspection and/or measurements from photo-identifiable points or triangulation stations.

53. MAP ACCURACY

Map accuracy on TP-00814 was very good. Compilation accuracy was confirmed by comparison of Third Order positions found for Seldovia Dock North Light, Seldovia Dock South Light, Seldovia Breakwater Light 7 to those found photogrammetrically.

The compilation of the MHWL was verified at Station Elbow by taped distance as noted on the master field edit ozalid.

54. RECOMMENDATIONS

It is recommended that TP-00814 be revised in accordance with the information presented herein.

56. MISCELLANEOUS

Open communication was maintained between the field editor and hydrographer. Any duplication of information was reviewed with only one source being retained.

All triangulation stations within the limits of TP-00814 were visited. Descriptions, recovery notes, and other information are included in the separates following the text.

Respectfully submitted,

Approved and forwarded,

Franklin E. Ohlinger
Franklin E. Ohlinger
LTJG, NOAA

Ralph J. Land
Ralph J. Land, CDR, NOAA
Commanding Officer

REVIEW REPORT
TP-00814
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

A comparison was made with the contemporary hydrographic survey: H-9940, scale 1:5,000, dated May-Aug. 1981.

It compared well with this manuscript.

The contemporary hydrographic survey H-9945 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
16645, scale 1:82,662, dated March 13, 1976.

A comparison between the earlier dated charts, 16646 and 16645, with the latest charts for that area indicate that numerous offshore rocks were added to current charts from the unreviewed Class III Chart Maintenance Print submitted to Marine Charts May 30, 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 some of these rocks to be nonexistent at the time hydrography was performed June 1981. The nonexistent rocks were removed from the Final Map. These and other recommended changes were annotated on the Final Chart Maintenance Print.

TP-00814

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:

Josh A. McInerney
Chief, Photogrammetry Branch*Ronald K. Brewer*
Chief, Photogrammetry Division

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				NONFLOATING AIDS OR LIGHT MARKS FOR CHARTS				ORIGINATING ACTIVITY			
<input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED		REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE	<input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> COMPILATION ACTIVITY <input type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH (See reverse for responsible personnel)									
		Coastal Mapping Unit	Alaska	Cook Inlet, East Side, Cape Kasilof to Barren Is.	2/2/82										
The following objects HAVE <input checked="" type="checkbox"/> BEEN INSPECTED from seaward to determine their value as landmarks. OPR PROJECT NO.		SURVEY NUMBER TP-00814		DATUM N.A. 1927											
CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	LATITUDE		LONGITUDE		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED							
		° / ' " D.M. Meters	° / ' " D.P. Meters	° / ' " D.M. Meters	° / ' " D.P. Meters	OFFICE	FIELD								
LIGHT	Seldovia Breakwater Light 7	59 26	19.49	151 43	00.70	75E(I)1487 10 Aug 1975	F-V-6-3 6/14/81	16640 16645 16646							
LIGHT*	(Seldovia Dock South Light 1981)	59 26	27.561	151 43	05.331	75E(I)1487 10 Aug 1975	F-V-6-3 6/14/81	16640 16645 16646							
LIGHT	(Seldovia Dock North Light 1981)	59 26	29.161	151 43	07.653	75E(I)1487 10 Aug 1975	F-V-6-3 6/14/81	16640 16645 16646							
LIGHT**	Seldovia Bay Light 5 (Seldovia Entrance Light, 1956)	59 26	34.84	151 43	09.38	75E(I)1487 10 Aug 1975	Triang Rec 6/14/81	16640 16645 16646							
LIGHT	Seldovia Bay Entrance Light 1 (Gray Cliff Light Center, 1956)	59 27	09.91	151 43	08.22	75E(I)1487 10 Aug 1975	Triang Rec 6/14/81	16640 16645 16646							
*Note on Form 75-82A. The light is used for night illumination of the pier.															
**The light is not in the 1985 Light List.															

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

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	W. Mobley
POSITIONS DETERMINED AND/OR VERIFIED	J. Gordon
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	W. Connally
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 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	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.	

