

TP-00811

TP-00811

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
<h2 style="text-align: center;">DESCRIPTIVE REPORT</h2>	
<i>Map No.</i> TP-00811	<i>Edition No.</i> 1
<i>Job No.</i> CM-7412	
<i>Map Classification</i> FINAL MAP - FIELD EDITED	
<i>Type of Survey</i> SHORELINE	
<h3 style="text-align: center;">LOCALITY</h3>	
<i>State</i> ALASKA	
<i>General Locality</i> COOK INLET, EAST SIDE CAPE KASLOF TO BARREN ISLANDS	
<i>Locality</i> KASITSNA BAY	
<div style="border: 1px solid black; padding: 5px; text-align: center;">         19 75 TO 1981       </div>	
<h3 style="text-align: center;">REGISTERED IN ARCHIVES</h3>	
<i>DATE</i>	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY		SURVEY TP. <u>00811</u>	
DESCRIPTIVE REPORT - DATA RECORD				<input checked="" type="checkbox"/> ORIGINAL		MAP EDITION NO. <u>(1)</u>	
				<input type="checkbox"/> RESURVEY		MAP CLASS <u>Final</u>	
				<input type="checkbox"/> REVISED		JOB <u>CM-7412</u>	
PHOTOGRAMMETRIC OFFICE				LAST PRECEDING MAP EDITION			
Coastal Mapping Division, Atlantic Marine Center, Norfolk, Virginia				TYPE OF SURVEY		JOB PH. _____	
OFFICER-IN-CHARGE				<input type="checkbox"/> ORIGINAL		MAP CLASS _____	
Roy K. Matsushige				<input type="checkbox"/> RESURVEY		SURVEY DATES:	
				<input type="checkbox"/> REVISED		19__ TO 19__	
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Aerotriangulation - North Sect Oct. 6, 1975				Premarking May 6, 1975			
Compilation - North Sect May 3, 1976							
Amendment I Aug. 17, 1976							
Amendment II Jan. 14, 1977							
Aerotriangulation - South Sect Oct. 4, 1976							
Compilation - South Sect Aug. 2, 1979							
II. DATUMS							
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN				OTHER (Specify)			
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER				OTHER (Specify)			
<input type="checkbox"/> MEAN LOW-WATER							
<input checked="" type="checkbox"/> MEAN LOWER LOW-WATER							
<input type="checkbox"/> MEAN SEA LEVEL							
3. MAP PROJECTION				4. GRID(S)			
Transverse Mercator				STATE		ZONE	
				Alaska		4	
5. SCALE				STATE		ZONE	
1:10,000							
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY				B. Thornton		Jan 1977	
METHOD: Analytic (South sect)				J. Perrow, Jr.		Jan 1977	
2. CONTROL AND BRIDGE POINTS PLOTTED BY				S. Solbeck		Jan 1977	
METHOD: Coradomat CHECKED BY				J. Perrow, Jr.		Jan 1977	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY				L. Neterer, Jr.		May 1980	
COMPILATION CHECKED BY				F. Mauldin		May 1980	
INSTRUMENT: Wild B-8				N.A.			
SCALE: 1:10,000				N.A.			
4. MANUSCRIPT DELINEATION PLANIMETRY BY				I. Perkinson		June 1980	
CHECKED BY				R. Kravitz		July 1980	
METHOD:				N.A.			
CHECKED BY				N.A.			
SCALE: 1:10,000				HYDRO SUPPORT DATA BY		I. Perkinson	
				CHECKED BY		R. Kravitz	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				R. Kravitz		July 1980	
6. APPLICATION OF FIELD EDIT DATA BY				M. Mozgala		May 1982	
CHECKED BY				C. Blood		June 1982	
7. COMPILATION SECTION REVIEW BY				C. Blood		June 1982	
8. FINAL REVIEW BY				C. Blood / J. Byrd		June 1985	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				J. Byrd		Nov 1985	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				P. Dempsey		Mar 1986	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				F. DAUBERTY		MAY 86	

NOAA FORM 76-36B  
(3-72)

TP-00811

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		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input checked="" type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Alaska	<input checked="" type="checkbox"/> STANDARD
				MERIDIAN 150th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
75E(C)9990-9994#	Jul.5,1975	11:15	1:30,000	13.5 ft. above MLLW	
75E(I)0475-0476*	Jul.8,1975	12:45	1:30,000	16.59 ft. above MLLW	
75E(I)1494-1498**	Aug.10,1975	10:32	1:30,000	0.93 ft. below MLLW	
76E(I)4085-4086**	Jun.12,1976	9:28	1:30,000	0.7 ft. above MLLW	
76E(I)4089**	Jun.12,1976	9:35	1:30,000	0.7 ft. above MLLW	
Mean tide range 15.4 ft. Seldovia					

REMARKS #Bridge and/or compilation photograph centers are not shown on the 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 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-00807	EAST TP-00812	SOUTH No Survey	WEST TP-00814 1:10,000 TP-00810 1:20,000
REMARKS			

TP-00811  
HISTORY OF FIELD OPERATIONSI. ☒ FIELD INSPECTION OPERATION (Premarking) ☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Melby	June 1975
2. HORIZONTAL CONTROL	RECOVERED BY None ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY None	
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 BY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
None		None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

## 3. PHOTO NUMBERS (Clarification of details)

None

## 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

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

## 7. SUPPLEMENTAL MAPS AND PLANS

None

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

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

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

TP-00811

## HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	W. Mobley	May-June 81
2. HORIZONTAL CONTROL	RECOVERED BY None ESTABLISHED BY J. Gordon PRE-MARKED OR IDENTIFIED BY None	May-June 81
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 BY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY F. Ohlinger	May-June 81
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

## 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) 75E(I)1494, 1495, 1496, 1497 76E(I)4085, 4086			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS None			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division) Master field edit print Field edit report			

NOAA FORM 76-36D  
(3-72)

TP-00811

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

## 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	July 1980	Class III Manuscript	July 1980	July 1980
Field edit applied. Compilation complete	June 1982	Class I Manuscript	June 1982	
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
			None

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: \_\_\_\_\_3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

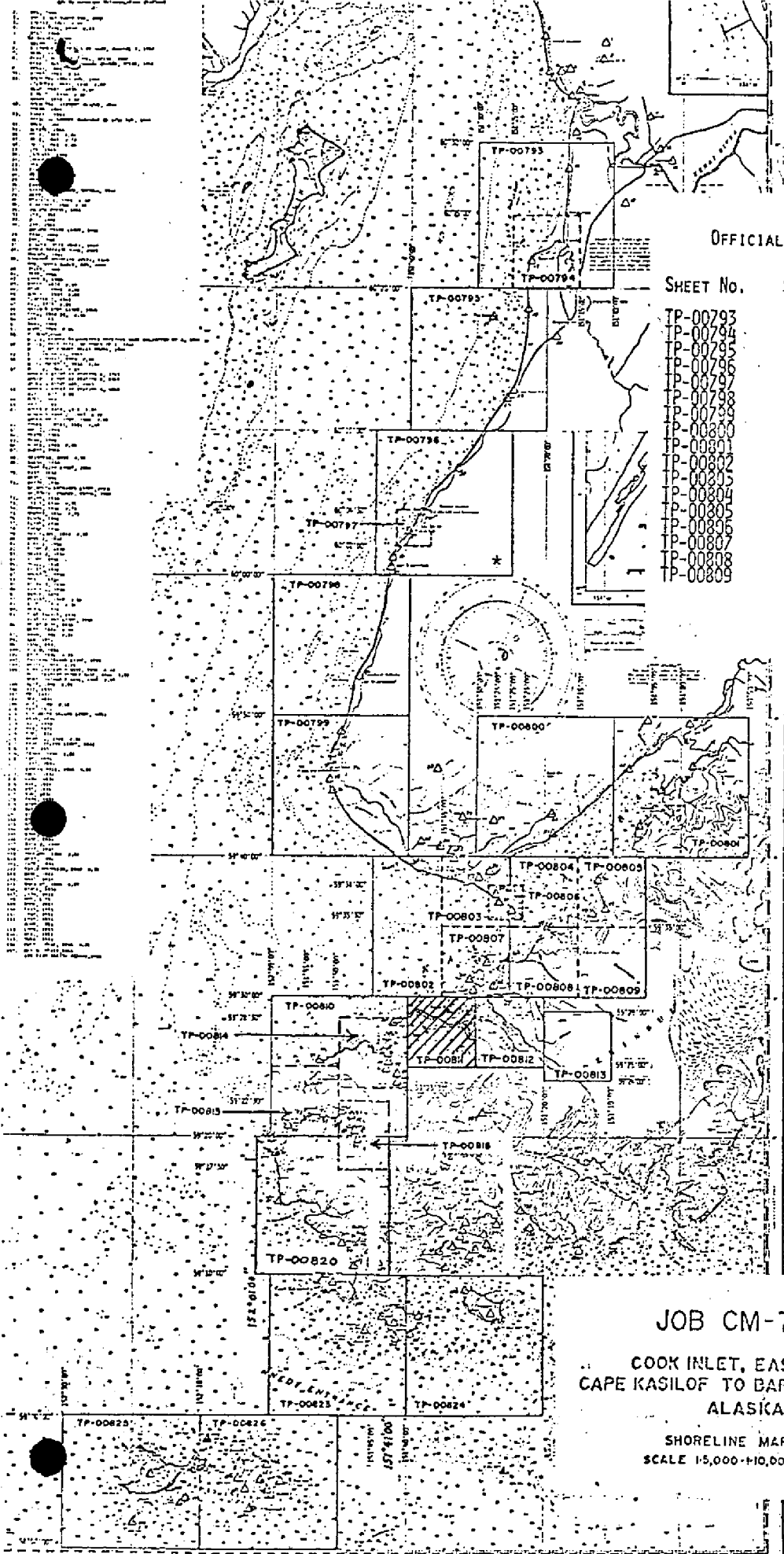
## III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.  
 2. ☐ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS. 76-76 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	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	195

REVISED 9/23/76 R.W.L.  
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-00811

This 1:10,000 Final shoreline map is one of twenty-nine maps designated as project CM-7412, Cook Inlet, East Side, Cape Kasilof to Barren Islands, Alaska.

The purpose of this project was to provide current charting information for nautical chart maintenance and to furnish support data for hydrographic operations. This Final Map covers the south shoreline of Kachemak Bay from longitude 151°40'00" to the west and eastward to longitude 151°30'00" and north to latitude 59°30'00".

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) camera were used for the infrared black-and-white 1:30,000 scale photographs taken July, August 1975 and June 1976. The infrared photographs were used to supplement the color compilation photography.

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

Compilation, based upon photointerpretation, was performed by the Coastal Mapping Unit at the Atlantic Marine Center in July 1982. Refer to the compilation report, item #31 and NOAA Form 76-36B for specific usage of the photography.

Field edit was conducted 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 June 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.



## FIELD INSPECTION

TP-00811

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 ~~Part~~ <sup>Part</sup>  
January 1977

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

Area Covered

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

Method

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

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

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

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

Adequacy of Control

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

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

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

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

Supplemental Data

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

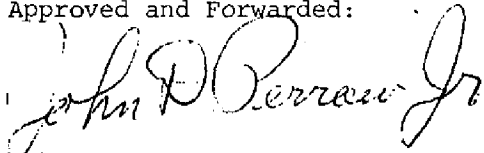
Photography

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

Submitted by:

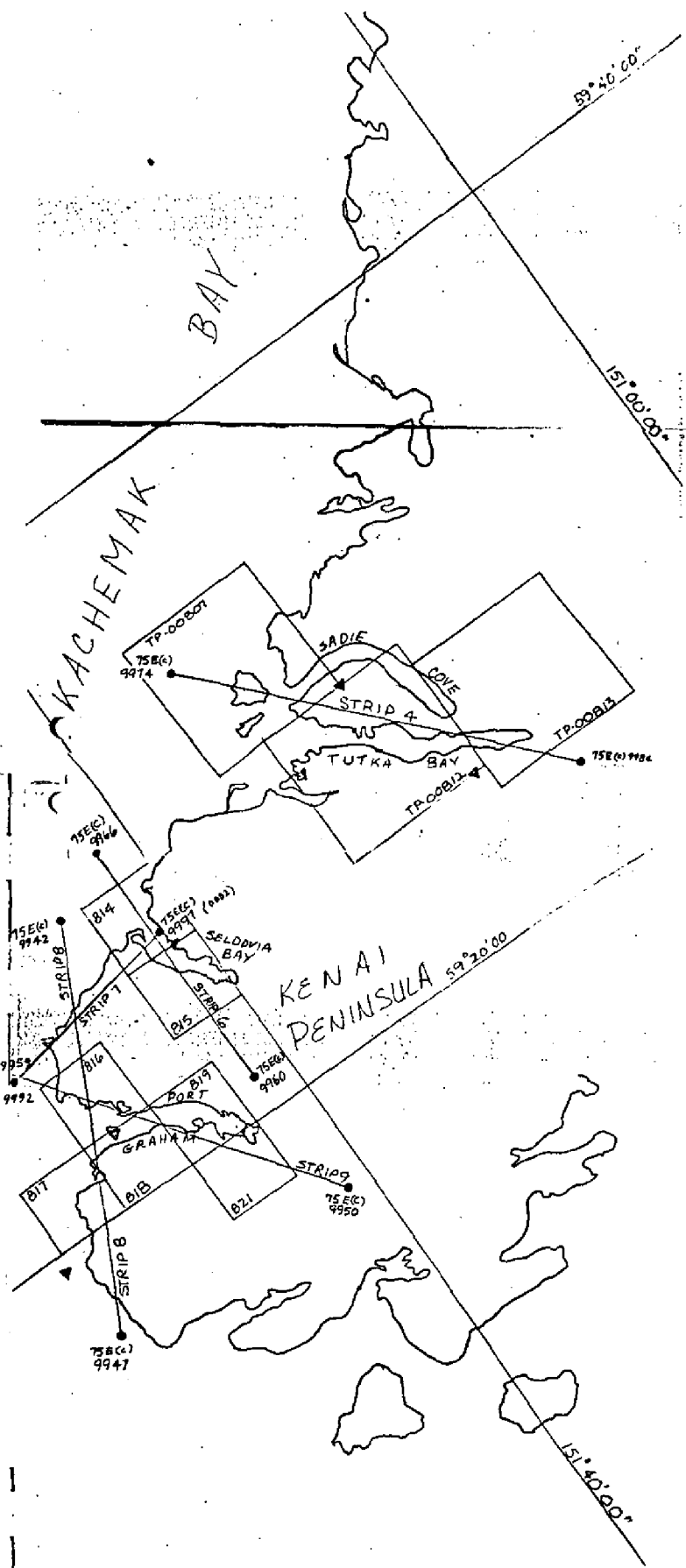
Brian Thornton

Approved and Forwarded:

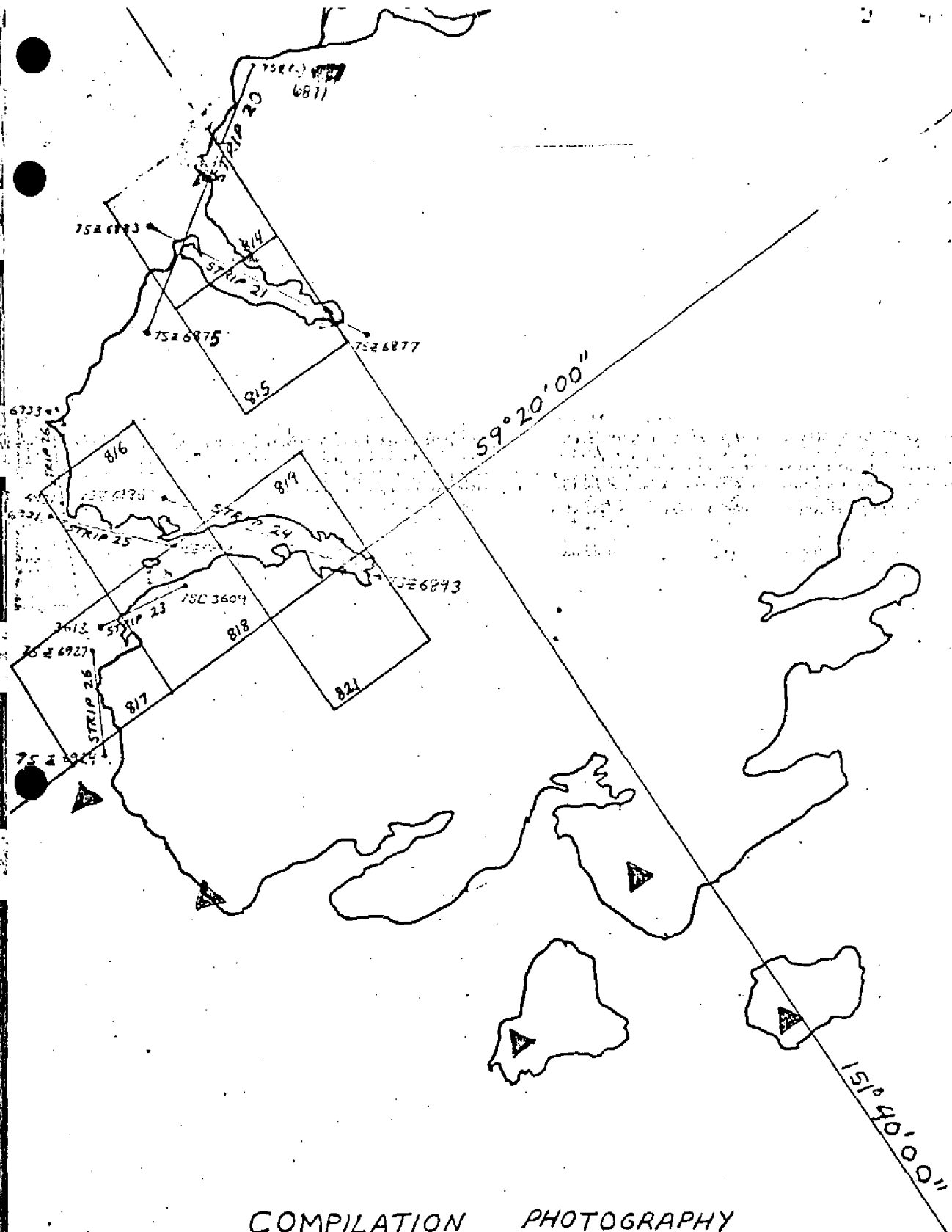
A handwritten signature in cursive script, reading "John D. Perrew Jr.", written in dark ink.

Chief, Aerotriangulation Section

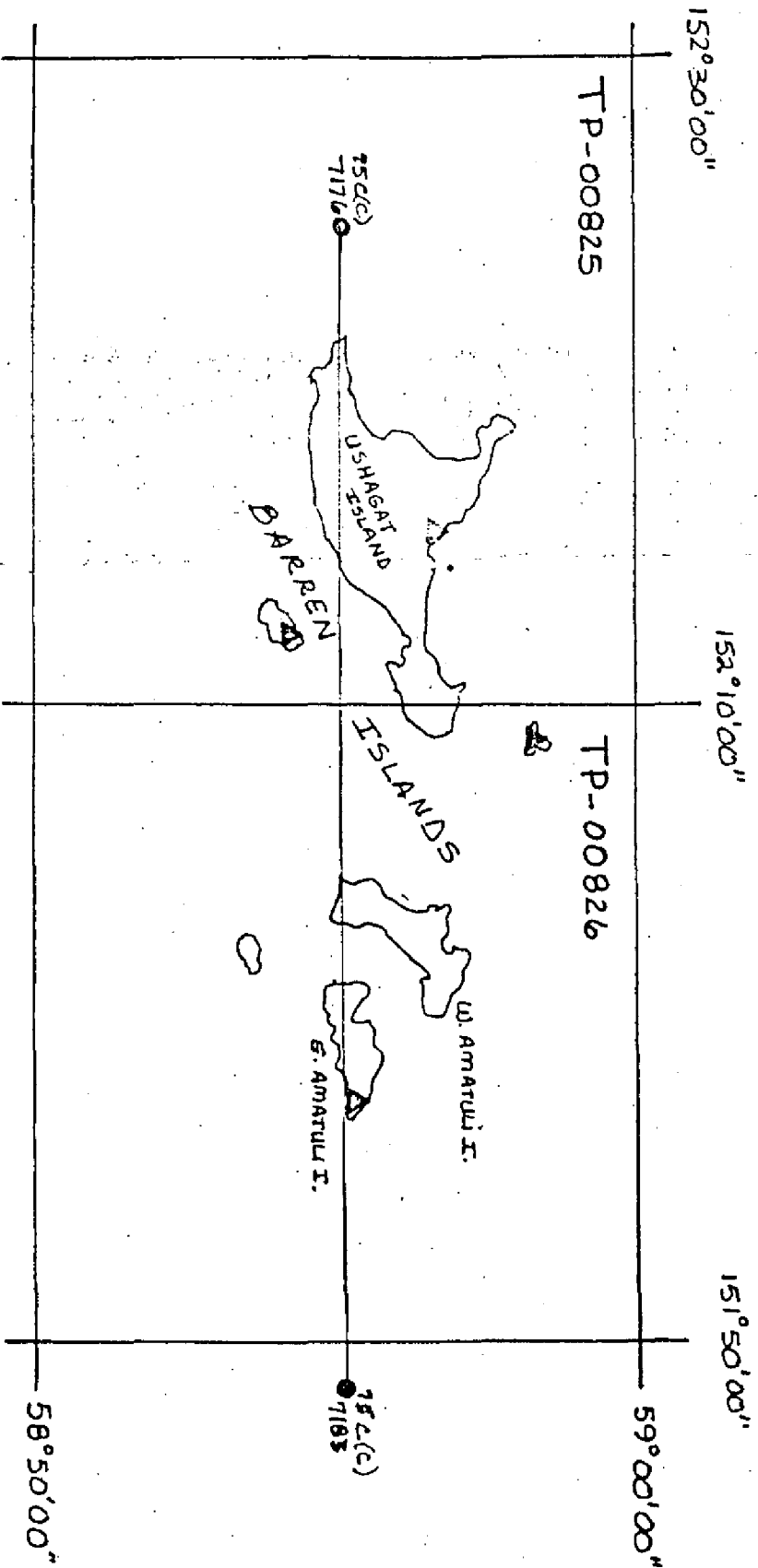
~~BRIDGING PHOTOGRAPHY  
1:60,000~~



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

Strip #12

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



# Dist and Accuracy of Control Used in Strip Adjustment

x-error y-error

Strip #11

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

Strip #4

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 Controls 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

## COMPILATION REPORT

TP-00811

31 - DELINEATION

Delineation was accomplished by stereo instrument and graphic compilation methods. The Wild B-8 stereoplotter with 1:30,000 scale color bridging photographs was used to delineate alongshore and interior detail, and to locate common image points to graphically control the 1:30,000 scale infrared photography. Supplemental tide coordinated infrared photographs for both MHW and MLLW were used to 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 aids for navigation or landmarks within the mapping limits of this map.

TP-00811

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. 16645, scale 1:82,662, dated Mar. 13, 1976  
No. 16640, scale 1:20,000, dated May 25, 1974.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

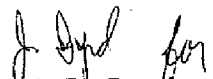
None.

Submitted by:



Irene K. Perkinson  
Cartographer  
June 27, 1980

Approved:



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

March 22, 1984

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

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

TP - 00811

Barabara Creek

Barabara Point

Cronin Island

Herring Islands

Jakolof Bay

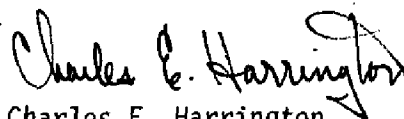
Kachemak Bay

Kasitsna Bay

MacDonald Spit

Nubble Point

Approved by;

Charles E. Harrington  
Chief Geographer  
Nautical Charting Division

## FIELD EDIT REPORT

OPR-P114-RA-81

CM-7412

TP-00811

ALASKA

SOUTHERN COOK INLET

BARABARA POINT

TO TUTKA BAY

1 FIELD UNIT

19 MAY 1981 - 16 JUNE 1981

(JD 139 - 167)

## 51. METHODS

Field edit of TP-00811 was accomplished between 19 May 1981 (139) and 16 June 1981 (167) during low water, from a skiff close inshore. A 16-foot Boston Whaler was the sole means of transportation.

Topographic detail was edited and noted on photographs NOS 10 AUG 75 ER-1494 - 1497, NOS 12 JUN 76 ER-4085 and 4086, as well as the master field edit ozalid. All notes are self-explanatory and are color-coded as follows:

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

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

Editing of the sheet was by direct comparison of the photos and manuscript in the field at low or negative tides. Features not visible on the photos were located by sextant fixes and their computed positions were plotted on the master field edit ozalid. These positions were numbered 1 through 11. Position 12 was found by range/azimuth methods using a skiff-mounted Miniranger console and a shore-based transponder and theodolite located over a Third Order, Class I station. Positions 3888-3890 were taken by automated RAINIER Launch RA-3 (2123) on 23 May 1981 (143) and are hydro data on Sheet RA-10-1-81. All electronic data were corrected and plotted on the master ozalid. The hydro data are plotted on Sheet RA-10-1-81 (H-9941).

Concurrent Hydrographic Surveys H-9941 and H-9945 include all the shoreline within the limits of TP-00811.

## 52. ADEQUACY OF COMPILATION

Additions, verifications, and deletions necessary to render TP-00811 complete and adequate are noted on the photographs and the master field edit ozalid. 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

Compilation accuracy was verified by direct comparison of the manuscript with shoreline detail and by the closure of three point sextant fixes and check fixes using photo-picked signals. Agreement was excellent.

54. RECOMMENDATIONS

It is recommended that TP-00811 be revised in accordance with the information presented herein.

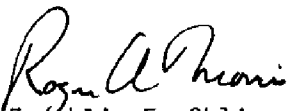
56. MISCELLANEOUS

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

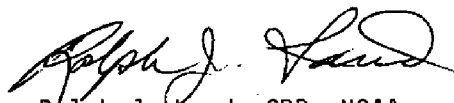
All triangulation stations within the limits of TP-00811 were visited. Descriptions, recovery notes, and other information are included in the separates following the text.

Respectfully submitted,

Approved and forwarded,



Franklin E. Ohlinger  
LTJG, NOAA



Ralph J. Land, CDR, NOAA  
Commanding Officer



REVIEW REPORT  
TP-00811  
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 hydrographic surveys H-9941 and H-9945 were not available for comparison at the time of final review.

65 - COMPARISON WITH NAUTICAL CHARTS

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

A comparison between the earlier dated March 1976 chart with the latest dated charts indicate that a rock was added to current charts from the unreviewed Class III Chart Maintenance Print submitted to Marine Charts July, 1980. The intended purpose of showing this offshore rock on the 1980 Chart Maintenance Print was to advise the Hydrographer of potential hazard. The Hydrographer was expected to determine whether or not the rock existed. It was never intended for charting purposes because the photointerpretation of the rock did not render positive identification. The field investigation of the rock revealed it to be nonexistent at the time hydrography was performed, May and June 1981. The nonexistent rock was removed from the Final Map. This and other recommended changes are annotated on the Final Chart Maintenance Print.

The current charts show the shoreline as it is shown on this final field edited map, which was changed from the 1976 chart 16645.

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

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

TP-00811

Submitted by:

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

Approved for forwarding:

*Billy H. Barnes*Billy H. Barnes  
Chief, Photogrammetric Section, AMC

Approved:

*John A. McNeely*

Chief, Photogrammetry Branch

*Ronald K. Brewer*

Chief, Photogrammetry Division

**15-100**

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## INSTRUCTIONS

**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=

[illegible]