

TP-00812

TP-00812

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. TP-00812	Edition No. 1
Job No. CM-7412	
Map Classification FINAL MAP - FIELD EDITED	
Type of Survey SHORELINE	
LOCALITY	
State ALASKA	
General Locality COOK INLET, EAST SIDE CAPE KASILOF TO BARREN ISLANDS	
Locality TUTKA BAY	
19 75 TO 1980	
REGISTERED IN ARCHIVES	
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, AMC, Norfolk, VA OFFICER-IN-CHARGE Roy K. Matushige		SURVEY TP. <u>00812</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final</u> JOB <u>CM-7412</u>	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, AMC, Norfolk, VA OFFICER-IN-CHARGE Roy K. Matushige		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, AMC, Norfolk, VA OFFICER-IN-CHARGE Roy K. Matushige		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Aerotriangulation - North Sect. Oct. 6, 1975 Compilation - North Sect. May 3, 1976 Amendment I Aug. 17, 1976 Amendment II Jan. 14, 1977 Aerotriangulation - South Sect. Oct. 4, 1976 Compilation - South Sect. Aug. 2, 1979		Remarking 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)		B. Thornton Jan 1977	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY		J. Perrow, Jr. Jan 1977	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY		D. Butler Sept. 1979	
INSTRUMENT: Wild B-8 SCALE: 1:10,000		L. Neterer, Jr. Sept 1979	
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY		D. Butler Nov 1979	
METHOD: Smooth drafted and graphic		J. Roderick Jan 1980	
SCALE: 1:10,000		N.A.	
HYDRO SUPPORT DATA BY		D. Butler Oct 1979	
CHECKED BY		J. Roderick Jan 1980	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		J. Roderick Jan 1980	
6. APPLICATION OF FIELD EDIT DATA BY		L. Williams Jul 1980	
CHECKED BY		I. Perkinson Jan 1981	
7. COMPILATION SECTION REVIEW BY		I. Perkinson Jan 1981	
8. FINAL REVIEW BY		C. Blood / J. Byrd Jul 1985	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		J. Byrd Nov. 1985	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		E. Damprey MAY 1986	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		E. DAUGHERTY MAY 86	

NOAA FORM 76-36B (3-72)		TP-00812 COMPILATION SOURCES				U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
1. COMPILATION PHOTOGRAPHY							
CAMERA(S) Wild RC 8E 152.71 mm		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE ZONE Alaska MERIDIAN 150th			
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input checked="" type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT			
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE			
75E(C)9967-9969#	Jul.5,1975	10:50	1:30,000	13.4 ft. above MLLW			
75E(C)9976-9981#x	Jul.5,1975	11:00	1:30,000	13.4 ft. above MLLW			
75E(I)1498**	Aug.10,1975	10:32	1:30,000	0.93 ft. above MLLW			
75E(I)0466-0469*	Jul.8,1975	12:37	1:30,000	16.17 ft. above MLLW			
75E(I)0457-0458*	Jul.8,1975	12:26	1:30,000	15.9 ft. above MLLW			
76E(I)4090-4093**	Jun.12,1976	09:37	1:30,000	1.52 ft. above MLLW			
76E(I)4528-4530**	Jun.28,1975	09:35	1:30,000	0.37 ft. above MLLW			
REMARKS #Bridge and/or compilation photograph centers are not shown on manuscript. xPhotographs stamped 9976-9981 were changed to 9926 thru 9931. 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:							
<p>*,#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.</p>							
3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:							
<p>**The MLLW line was compiled graphically from the above tide coordinated infrared ratio photographs.</p>							
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-00813	SOUTH	No Survey	WEST	TP-00811
REMARKS							

TP-00812

HISTORY OF FIELD OPERATIONS

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

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Melby	Jun 1975
2. HORIZONTAL CONTROL	RECOVERED BY R. Melby ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY R. Melby, L. Riggers	Jun 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 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	
Paneled		None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
75C(C) 7210	SADIE, 1965		
75C(C) 4986	GRASS ISLAND AZIMUTH, 1975		

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

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

7. SUPPLEMENTAL MAPS AND PLANS

None

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

2 - Forms 152, 1 - Form 76-61A

Project Data: 2 Forms 277 and 1 Form 77-53 (Tides record books.)

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

TP-00812

HISTORY OF FIELD OPERATIONS

1. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	W. Möbley	Aug 1980
2. HORIZONTAL CONTROL	RECOVERED BY J. Talbott ESTABLISHED BY J. Talbott PRE-MARKED OR IDENTIFIED BY None	Jul 1980 Jul 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 BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY R. Hastings	Aug 1980
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) 76E(I) 4090-4093 76E(I) 4529			
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 Power line plan - Homer Electri Association			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division) Master Field Edit print Field Report			

NOAA FORM 76-36C
(3-72)

* U.S. GPO: 1977-765-092/1105 Region 6

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONTP-00812
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	Jan. 1980	Class III Manuscript	Mar. 7, 1980	Mar. 7, 1980
Field edit applied compilation complete	Jan. 1980	Class I Manuscript	Jan 1982	
			Mar 1986	Mar 1986
Final Review	July 1985	Final Map		

II. LANDMARKS AND AIDS TO NAVIGATION None

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. 76-48X 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	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-00801			
TP-00802		TP-00820	14
TP-00803			
TP-00804			
TP-00805			
TP-00806		TP-00823	
TP-00807		TP-00824	
TP-00808		TP-00825	
TP-00809		TP-00826	
		TOTAL	145

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

JOB CM-7412

COOK INLET, EAST SIDE
CAPE KASILOF TO BARREN ISLANDS
ALASKA

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

MARCH 1974

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00812

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 an area of Tutka Bay and Sadie Cove from longitude 151°20.0' to the east, to longitude 151°30.0' to the west and south of latitude 59°30.0'.

Field work prior to compilation consisted of the recovery and identification of the horizontal control necessary for the aerotriangulation of the project and establishing and monitoring tide gages while the photography was being taken for the tide coordinated infrared photographs. This activity was completed in 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 was used for the infrared black-and-white 1:30,000 scale photographs taken July, August 1975 and June 1976. The infrared photographs were used to supplement the color compilation photography.

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

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

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

Final review was performed at the Atlantic Marine Center in July 1985. A Chart Maintenance Print was prepared and forwarded to the Marine Charts Branch.

This Descriptive Report contains all pertinent information used to compile this Final Map. The original base manuscript and all related data were forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

TP-00812

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification (premarking) of the horizontal control necessary for the aerotriangulation of the project and the monitoring of tide gages for the tide coordinated infrared photographs.

Photogrammetric Plot Report
Cape Kasilof to Barren Islands

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

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

Area Covered

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

Method

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

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

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

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

Adequacy of Control

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

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

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

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

Supplemental Data

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

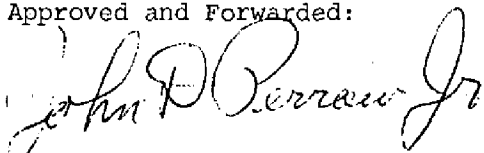
Photography

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

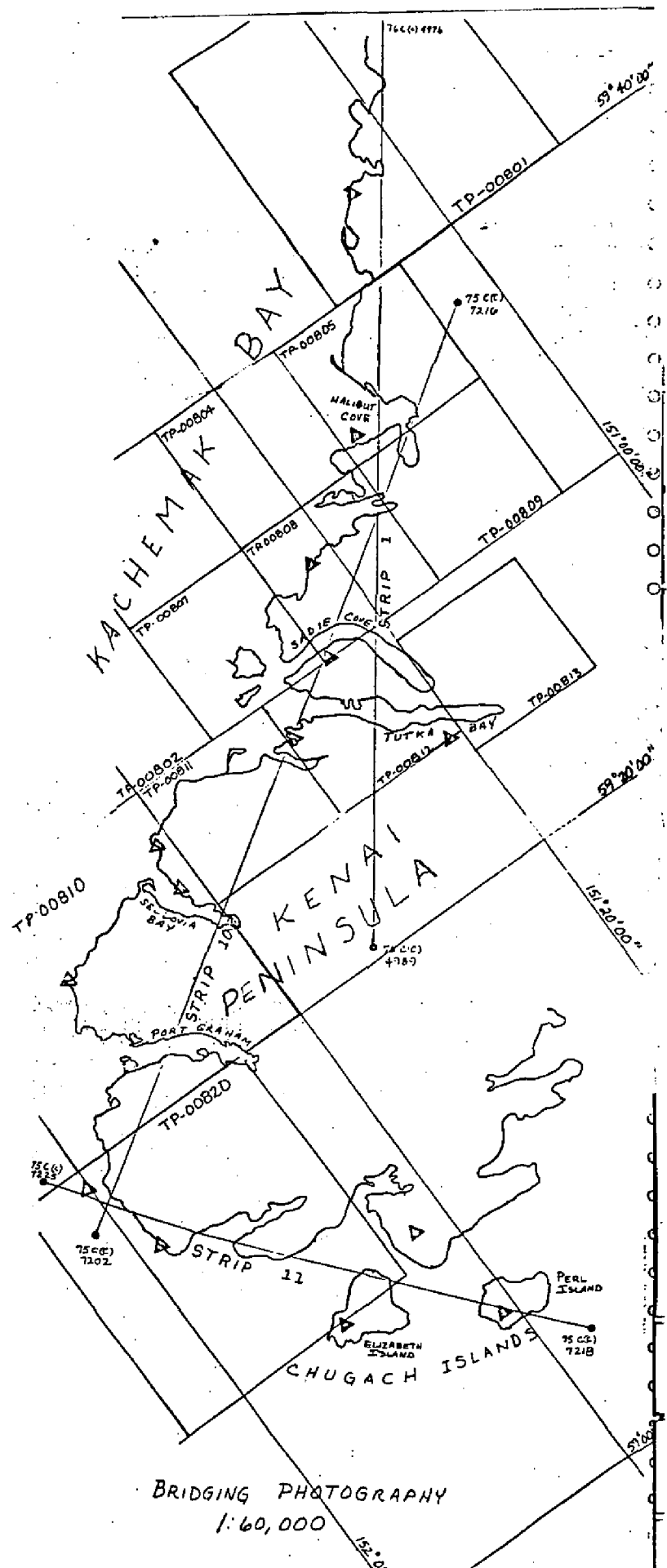
Submitted by:

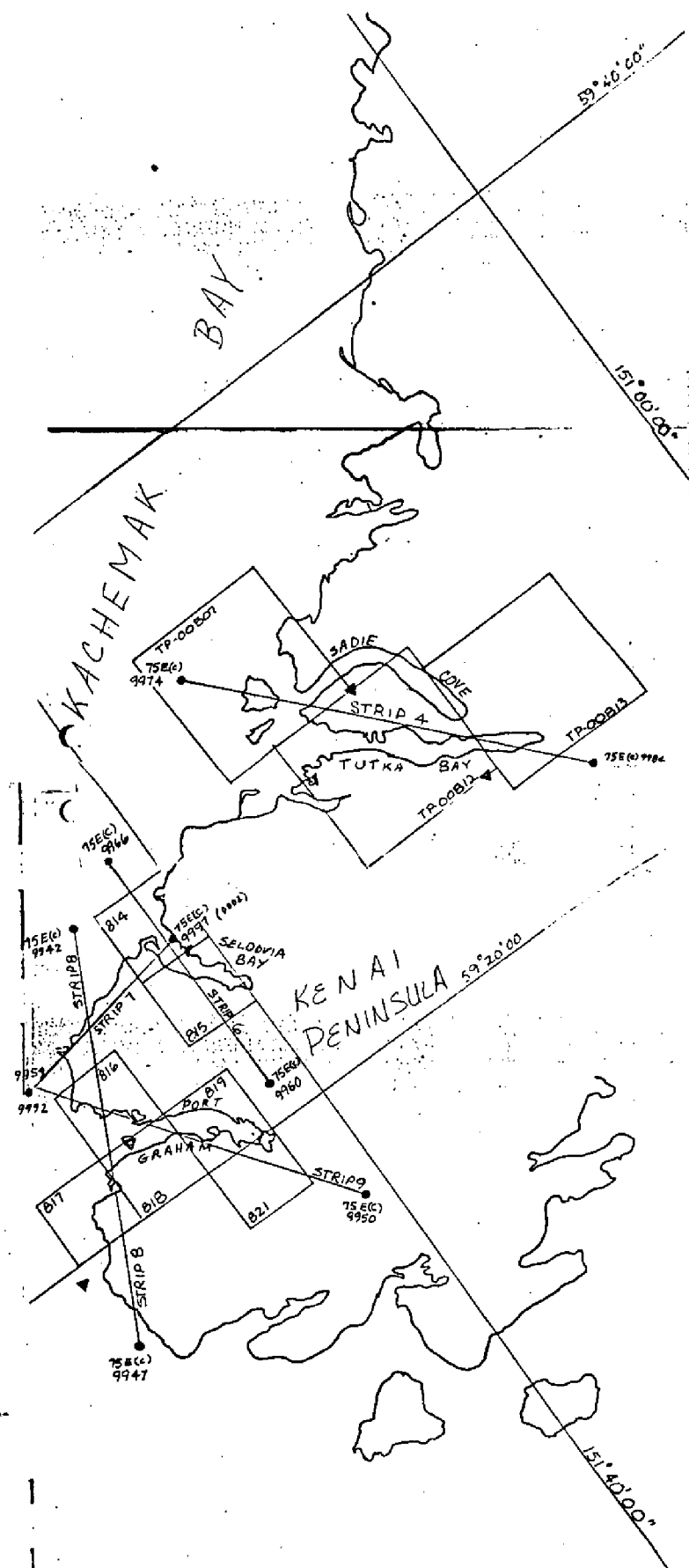
Brian Thornton

Approved and Forwarded:

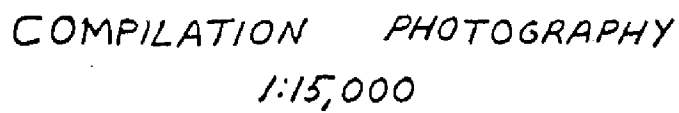


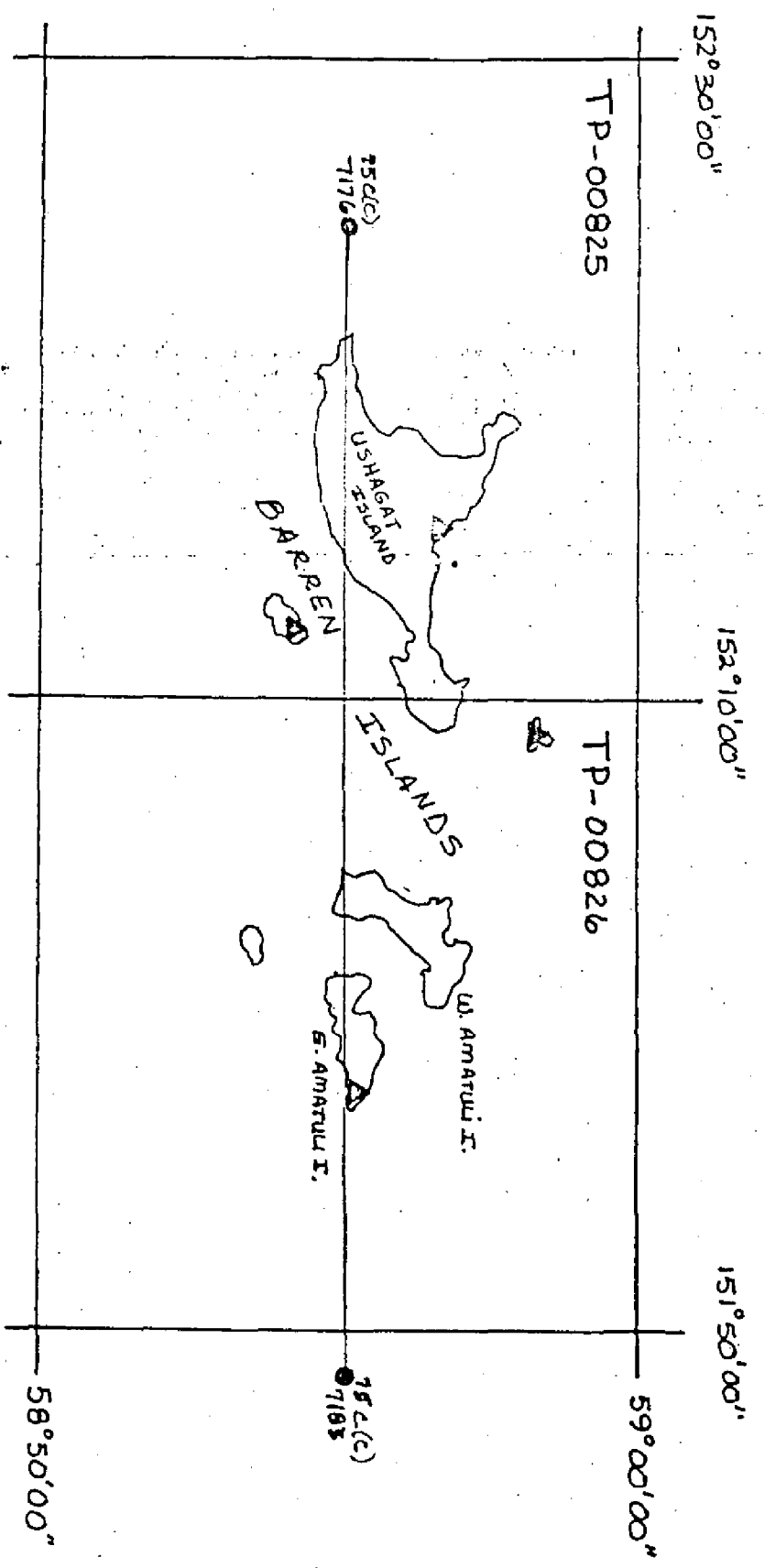
Chief, Aerotriangulation Section





BRIDGING PHOTOGRAPHY
1:30,000





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	-3.278	- .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-error y-error

Strip #8

941100	-1.785	-2.540
944100	1.521	-1.094
203100	-1.461	-0.632
203802	1.826	-2.245

Strip #9

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.		JOB NO.		GEODETIC DATUM		ORIGINATING ACTIVITY		REMARKS	
TP-00812		CM-7412		N.A. 1927		Unit, AMC, Norfolk, VA		Coastal Mapping	
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS		
			STATE	ZONE	φ LATITUDE	λ LONGITUDE			
SADIE, 1965	Quad. 591512 pg. 94	977100	X=	Y=	φ	λ	59 29 56.08432		
GRASS ISLAND AZIMUTH, 1975	Kachemak Bay Field Positions, NOAA Form 76-41, pg. 9		X=	Y=	φ	λ	59 29 21.053		
JULIA, 1980 *	Field G.P.		X=	Y=	φ	λ	59 25 36.270		
GRASS ISLAND, 1975	Kachemak Bay Field Positions NOAA Form 76-41, pg. 9		X=	Y=	φ	λ	59 29 57.4391		
ERMA, 1975	NOAA Form 76-41, pg. 6		X=	Y=	φ	λ	59 29 00.540		
AMOS, 1980 *	Field G.P.		X=	Y=	φ	λ	59 26 53.564		
ARNIE, 1980 *	Field G.P.		X=	Y=	φ	λ	59 27 09.872		
TUT, 1980 *	Field G.P.		X=	Y=	φ	λ	59 27 52.932		
Bath, 1980 *	Field G.P.		X=	Y=	φ	λ	59 28 09.911		
BUSH, 1980 *	Field G.P.		X=	Y=	φ	λ	59 26 48.936		
COMPUTED BY A. Rauck	Field G.P.		X=	Y=	φ	λ	59 28 02.820		
LISTED BY A. Rauck			X=	Y=	φ	λ	59 24 50.874.		
HAND PLOTTING BY * L. Williams			X=	Y=	φ	λ			
COMPUTATION CHECKED BY R. Minton		DATE 6/18/76	DATE 11/5/76						
LISTING CHECKED BY R. Minton		DATE 6/18/76	DATE 11/5/76						
HAND PLOTTING CHECKED BY W. Connally		DATE 1/81	DATE 1/81						

NOAA FORM 76-41 (6-75)		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION			
DESCRIPTIVE REPORT CONTROL RECORD					
MAP NO.	JOB NO.	GEODETIC DATUM		ORIGINATING ACTIVITY	
TP-00812	CM-7412	N.A. 1927		Unit, AMC, Norfolk, VA	
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET		REMARKS
			STATE	ZONE	
DOUBT, 1980	Field G.P.		X=	59 28 39.254	
			Y=	151 26 33.320	
			X=		
			Y=		
			X=		
			Y=		
			X=		
			Y=		
			X=		
			Y=		
			X=		
			Y=		
			X=		
			Y=		
			X=		
			Y=		
COMPUTED BY	A. Rauck	DATE	6/18/76	COMPUTATION CHECKED BY	R. Minton
LISTED BY	A. Rauck	DATE	6/18/76	LISTING CHECKED BY	R. Minton
HAND PLOTTING BY	L. Williams	DATE	1/81	HAND PLOTTING CHECKED BY	W. Connally

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

COMPILATION REPORT

TP-00812

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 non-floating aids or landmarks for navigation charted within the limits of this map.

TP-00812

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-4), 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 1:200,000, dated May 24, 1974.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

D. Butler for
David Butler
Cartographic Technician
Nov. 26, 1979

Approved:

A. C. Rauck, Jr. 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 - 00812

Grass Island

Herring Islands

Jakolof Bay

Jakolof Creek

Little Tutka Bay

Sadie Cove

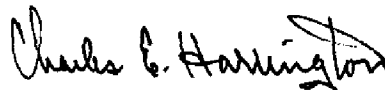
San Juan Cove

San Juan Island

Tutka Bay

Tutka Bay Lagoon

Approved by;

Charles E. Harrington
Chief Geographer
Nautical Charting Division

FIELD EDIT REPORT

OPR-P114-RA-80

CM-7412

TP-00812

ALASKA

COOK INLET, EAST SIDE

CAPE KASILOF TO BARREN ISLANDS

1 FIELD UNIT

JULY 31 - AUGUST 11, 1980

(JD 213-224)

51 METHODS

Field edit operations for TP-00812 began on July 31, 1980 (JD 213) and ended on August 11, 1980 (JD 224). Field edit began after the commencement of hydrographic operations for OPR-P114-RA-80. Hydrographic survey H-9893 includes the shoreline of TP-00812 east of 151 24.0' W longitude. There is no current hydrographic survey west of the above longitude.

Inspection of the shoreline was made during low water using a small boat. Landmarks for charts were investigated from seaward.

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

Shoreline and topographic notes were annotated on black and white chronopaque photographs numbers 12 JUN 76ER 4090-4093 and number 28 JUN 76ER 4529 and/or the Master Field Edit Print. Annotations were made with the following ink colors: violet - verification or changes in features; green - deletion of features; red - hydrographic features.

52 ADEQUACY

The compilation of TP-00812 was adequate and complete except for minor changes. The changes were noted on the photographs and/or the Master Field Edit Print. All compilation questions have been answered. The mean high water line was verified by visual inspection.

53 MAP ACCURACY

The map accuracy of TP-00812 could not be determined as there were no aids/landmarks compiled on NOAA Form 76-40.

54 RECOMMENDATIONS

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

56 MISCELLANEOUS

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

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

Two existing triangulation stations located within the limits of TP-00812 were visited. Seven new traverse stations were established by the RAINIER using Third Order Class I methods. Station descriptions and recovery notes are included in the "Separates." All other pertinent information is included in the "Separates Following the Text."

Respectfully submitted,

Approved by,

Richard L. Hastings

Richard L. Hastings, SST

John C. Albright

Wayne L. Mobley, Captain, NOAA
Commanding Officer

REVIEW REPORT
TP-00812
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-4), Alaska, scale 1:63, 360, dated 1951.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

The contemporary hydrographic surveys H-9941 and H-9893 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 for the area indicate that rocks and wrecks were added to current charts from the unreviewed Class III Chart Maintenance Print submitted to Marine Charts March, 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 and wrecks existed. It was never intended for charting purposes because the photointerpretation of the rocks and wrecks did not render positive identification. The field investigation of the rocks and wrecks revealed some of them to be nonexistent at the time hydrography was performed, July and August 1980. The nonexistent rocks and wrecks were removed from the Final Map. These 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 Map, which was changed from the 1976 chart 16645.

TP-00812

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Submitted by:

Charles E. Blood / J. Byrd

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

Approved for forwarding:

Billy H. Barnes

Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved:

John A. Murney
Chief, Photogrammetry Branch*Ronald K. Brewer*
Chief, Photogrammetry Division

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.

***** DISSEMINATES ALL EDITIONS OF FORM C-62-979.