

TP-00793

TP - 00793

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-00793	<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>LOCALITY</h3>	
<i>State</i> ALASKA	
<i>General Locality</i> COOK INLET, EAST SIDE CAPE KASILOF TO BARREN ISLANDS	
<i>Locality</i> KALIFONSKY BEACH	
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 19₇₅ TO 19₇₈ </div>	
<h3>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 <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		SURVEY TP. <u>00793</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final</u> JOB <u>PHK CM-7412</u>	
DESCRIPTIVE REPORT - DATA RECORD				LAST PRECEDING MAP EDITION			
				TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		JOB PH- MAP CLASS SURVEY DATES: 19__ TO 19__	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, Norfolk, VA				OFFICER-IN-CHARGE Roy K. Matsushige			
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				Premarking May 6, 1975			
II. DATUMS							
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH-AMERICAN				OTHER (Specify)			
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input checked="" type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL				OTHER (Specify)			
3. MAP PROJECTION Transverse Mercator				4. GRID(S) STATE Alaska ZONE 4			
5. SCALE 1:20,000				STATE ZONE			
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY				S. Solbeck		Mar 1976	
METHOD: Analytic LANDMARKS AND AIDS BY				J. Perrow, Jr.		Mar 1976	
2. CONTROL AND BRIDGE POINTS PLOTTED BY				S. Solbeck		Apr 1976	
METHOD: Coradomat CHECKED BY				J. Perrow, Jr.		Apr 1976	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY				J. R. Minton		Nov 1976	
COMPILATION CHECKED BY				J. Roderick/J. Byrd		Nov 1976	
INSTRUMENT: Wild B-8				CONTOURS BY		N.A.	
SCALE: 1:20,000				CHECKED BY		N.A.	
4. MANUSCRIPT DELINEATION PLANIMETRY BY				F. Mauldin		Dec 1976	
CHECKED BY				F. Margiotta		Dec 1976	
METHOD: Smooth drafted and				CONTOURS BY		N.A.	
graphic				CHECKED BY		N.A.	
SCALE: 1:20,000 HYDRO SUPPORT DATA BY				F. Mauldin		Dec 1976	
CHECKED BY				F. Margiotta		Dec 1976	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				F. Margiotta		Dec 1976	
6. APPLICATION OF FIELD EDIT DATA BY				R. Kravitz		Jan 1979	
CHECKED BY				F. Margiotta		Mar 1979	
7. COMPILATION SECTION REVIEW BY				F. Margiotta		Mar 1979	
8. FINAL REVIEW BY				C. Blood/J. Byrd		Oct 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				E. DAUSHERTY		May 86	

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

TP-00793

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC 8 E 152.71 mm Wild RC 10 C 88.47 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				MERIDIAN	
<input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				150th	
				<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
75C(C)6278-6780	Jul.5,1975	08:27	1:60,000	7.6 ft. above MLLW	
75E(I)0632-0636*	Jul.8,1975	15:30	1:30,000	18.4 ft. above MLLW	
75E(I)0773-0777**	Jul.9,1975	11:15	1:30,000	1.0 ft. below MLLW	
				Mean tide range 15.4 ft. at Seldovia	

REMARKS Tide gages were observed at Kenai City Pier and Seldovia for infrared photography. Bridge and/or compilation photograph centers are not shown on the manuscript. Mean High Water at Seldovia is 17.0 feet above MLLW.

2. SOURCE OF MEAN HIGH-WATER LINE:

*The MHWL was compiled graphically from the above tide coordinated infrared photography.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

**The MLLWL was compiled graphically from the above tide coordinated photography.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
PH-6013 T-12508	No Survey	TP-00794 1:5,000 TP-00795 1:20,000	No Survey

REMARKS

The 1:10,000 scale map TP-00794 lies within the south central portion of this 1:20,000 scale map.

TP-00793

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 L. Riggers	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
75Z(C)6806 75Z(C)6808	AUDRY, 1961 (R.M.3) Kenai, 1964		
These stations lie north of the map.			

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)

2 Forms 152
2 Forms 277 (Tides Record Book)

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

TP-00793

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. Randall	Aug. 1978
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 M. Molchan	
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 M. Molchan	Aug. 1978
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)0774 and 0776

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
75E(I)0776	TOWER (landmark)		

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)

Master Field Edit Print
Field Edit Report
1 Form 76-40 Field

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

TP-00793

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	W. Mobley	Jun-Jul 79
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 <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY: J. Talbott	Jun-Jul 79
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)0747, 0746			
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) Field Edit Report Master Field Edit Print Paper computer sheet with rock positions			

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

TP-00793

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	Dec. 1976	Class III Manuscript	Apr. 4, 1977	Mar. 30, 1977
Field edit applied, compilation complete	Mar. 1979	Class I Manuscript	Apr. 9, 1979	
Final Review	Oct. 1985	Final Map	Mar, 1986 Nov. 1985	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

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: April 19793. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

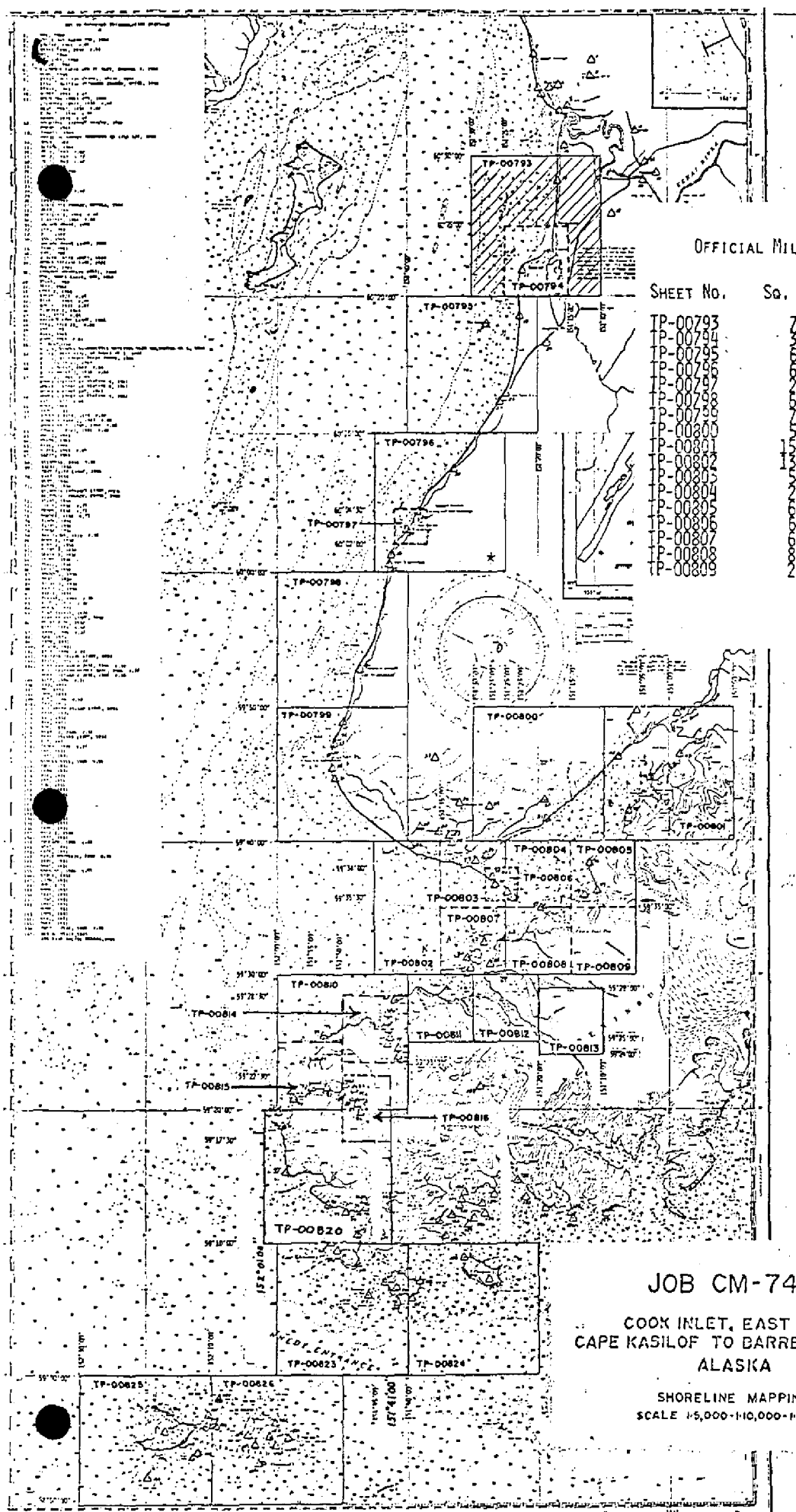
1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS ⁷⁶⁻⁴⁰ ~~857~~ SUBMITTED BY FIELD PARTIES.
 3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
 ACCOUNT FOR EXCEPTIONS:

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	

NOAA FORM 76-36D



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-00820	18
TP-00802			
TP-00803			
TP-00804			
TP-00805			
TP-00806			
TP-00807		TP-00823	19
TP-00808		TP-00824	
TP-00809		TP-00825	
		TP-00826	
		TOTAL	145

REVISED 9/23/75 R.W.L.
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-00793

This 1:20,000 Final shoreline map is one of twenty-nine maps designated as project CM-7412, Cook Inlet, East Side, Cape Kasilof to Barren Islands, Alaska.

The purpose of this project was to provide current charting information for nautical chart maintenance and to furnish support data for hydrographic operations. This Final Map portrays the west coast of Cook Inlet area, south of Kenai from latitude $60^{\circ}20'$ north to latitude $60^{\circ}30'$. The south half of this manuscript is shown on TP-00794, 1:10,000 scale.

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 July 1975.

Photographic coverage was adequately provided by natural color and infrared tide coordinated photographs. The RC-10 (C) camera was used to expose the natural color film required for the 1:60,000 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 1975. The infrared photography was used to supplement the color compilation photography.

Analytic aerotriangulation was adequately provided by the Washington Science Center for the north part of the project in March 1976. Aerotriangulation operations included ruling the base manuscript and determining ratio values for the infrared photographs.

Compilation, based upon photo interpretation, was performed by the Coastal Mapping Unit at the Atlantic Marine Center in January 1977. 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 1978 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 March 1979.

Final review was performed at the Atlantic Marine Center October 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-00793

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.

March, 1976

Photogrammetric Plot Report
Cook Inlet Alaska
North ~~Half~~ ^{Part}
CM-7412

Revised March 7, 1984 C.E.B.

21. Area Covered

The area covered by this report is the eastern shoreline of Cook Inlet, Alaska, from Cape Kasilof to the northern shoreline of Kachemak Bay. This area is covered by eight 1:20,000 scale sheets (TP-00793, 795, ⁷⁹⁶798, ⁸⁰¹800, 802); three 1:10,000 scale sheets (TP-00794, 803, 804); and two 1:5,000 scale sheets (TP-00797 and 806).

22. Method

Eight strips of color photography (three 1:60,000, three 1:30,000, two 1:15,000) were bridged by analytic aerotriangulation methods.

Common points were located on the bridging photography and all photography being used for ratio purposes. Tie points were used on all bridging photography to ensure adequate junctioning during the strip adjustment. Ratio prints were ordered. The T-sheet manuscripts were plotted on the Coradomat.

23. Adequacy of Control

The control proved adequate except in the area along Anchor Point. Station END, 1968, was not covered on strip 75E(C)0014-0027, making it necessary to locate common points between that strip and strip 75E(C)6287-6300 to ensure adequate junctioning between the two.

The lower, or western half, of strip 75C(C)6301-6315 was often difficult to measure due to inadequate overlap and poor image quality.

For the two 1:5,000 scale sheets, no mean lower low water coverage was available. TP-00797 was also covered by 1:15,000 scale color photography flown in tandem with the infrared photography. This color strip, along with strip 75Z(c)7490-7511 (flown parallel to strip 75C(C)6301-6315), was ratioed for compilation purposes. Both were flown during mean high water.

On strip 75E(C)0057-0061, 900 points were dropped so that this strip could be used on the Wild B-8 stereoplotter to compile the NE corner of TP-00803.

Strip 75Z(c)6945-6956 was to be used for the compilation of TP-00806. Although there is color coverage (flown at mean high water) for TP-00800, no black and white infrared photography was available which covers this area at mean high water.

24. Supplemental Data

USGS quadrangles were used to provide vertical control for the adjustment.


25. Photography

The coverage, overlap, and quality of the photography in general was adequate for the job.

Respectfully submitted


Stephen H. Solbeck

Approved and forwarded:


John D. Perrow, Jr.
Chief, Aerotriangulation Section

AEROTRIANGULATION SKETCH

COOK INLET, ALASKA

NORTH HALF

CM-7412

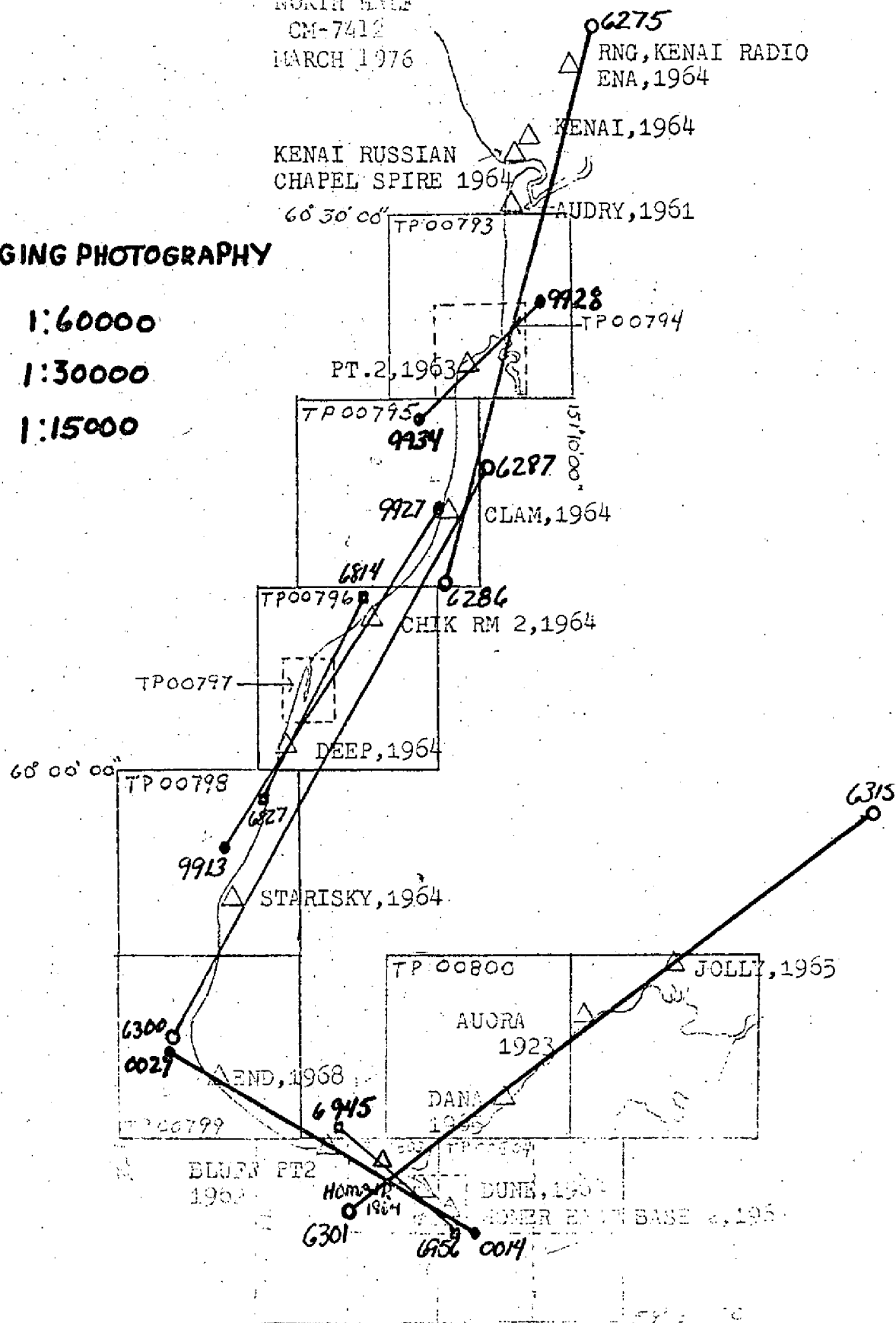
MARCH 1976

COLOR BRIDGING PHOTOGRAPHY

• 75C(c) 1:60000

• 75E(c) 1:30000

• 75Z(c) 1:15000



AEROTRIANGULATION SKETCH

COOK INLET, ALASKA

NORTH HALF

CM-7412

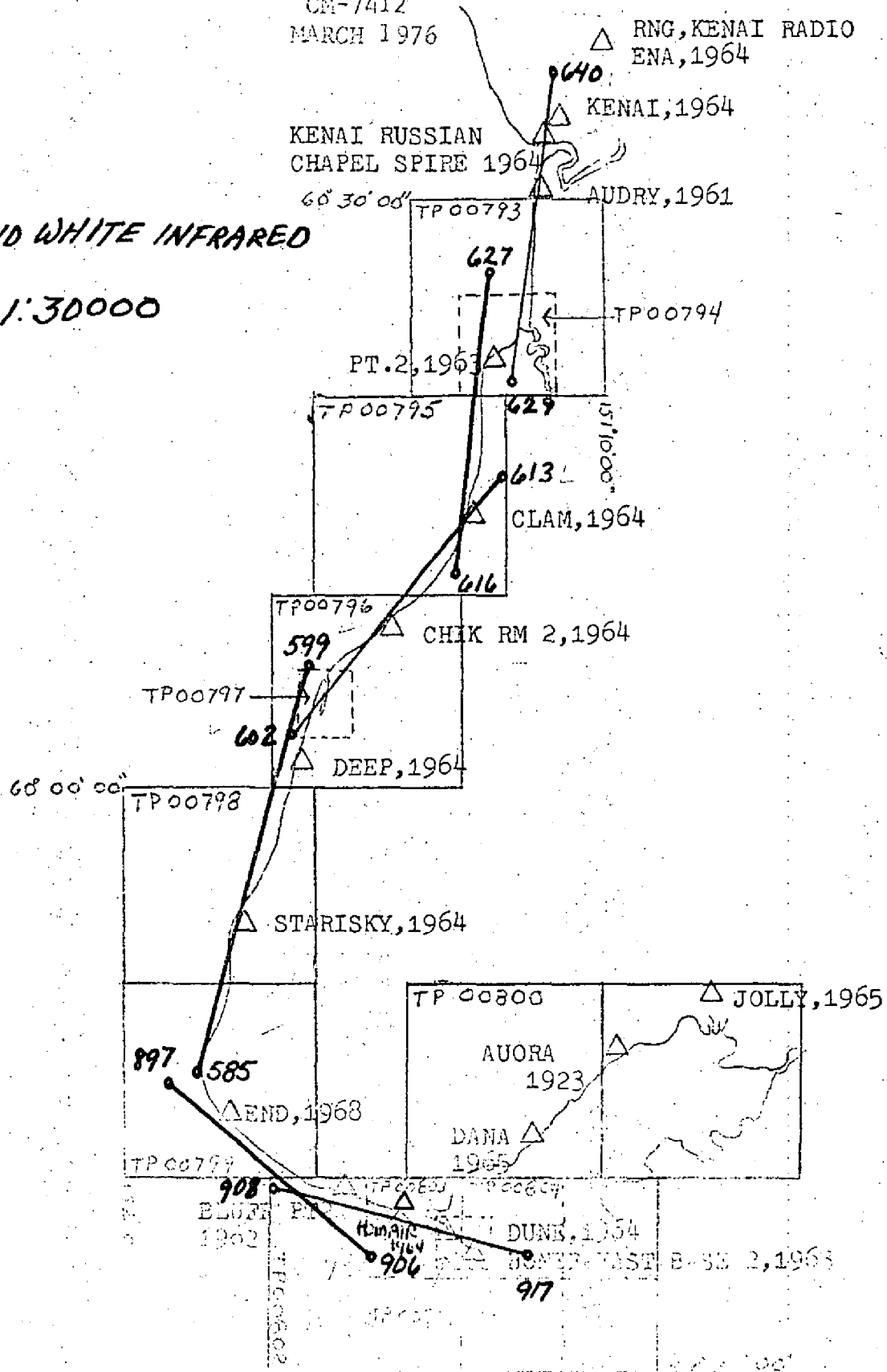
MARCH 1976

BLACK AND WHITE INFRARED

75 E(R)

1:30000

MHW



AEROTRIANGULATION SKETCH

COOK INLET, ALASKA

NORTH HALE

CM-7412

MARCH 1976

△ RNG, KENAI RADIO
ENA, 1964

KENAI, 1964

KENAI RUSSIAN
CHAPEL SPIRE 1964

AUDRY, 1961

 $60^{\circ} 30' 00''$

TP 00793

TP00794

PT. 2, 1953A

TP 00795

1511000

CLAM, 1964

TP00796

294

CHIK RM 2,1964

TP00797

895

DEEP, 1964

60° 00' 00"

TP 00798

△ STARISKY, 1964

TP 00000

AUORÀ
1923

DANA Δ
1965

△ JULY, 1965

△END, 1968

870

TP 00799.

BLUFF FT2
1962

McMair
1964

JUNE, 1954

HOME: EAST 3, E 2, 17, 3

882

BLACK AND WHITE INFRARED

75 E(R) 1:15000

MHW

Aerotriangulation Sketch

COOK INLET, ALASKA.

NORTH HAVEN

CM-7412

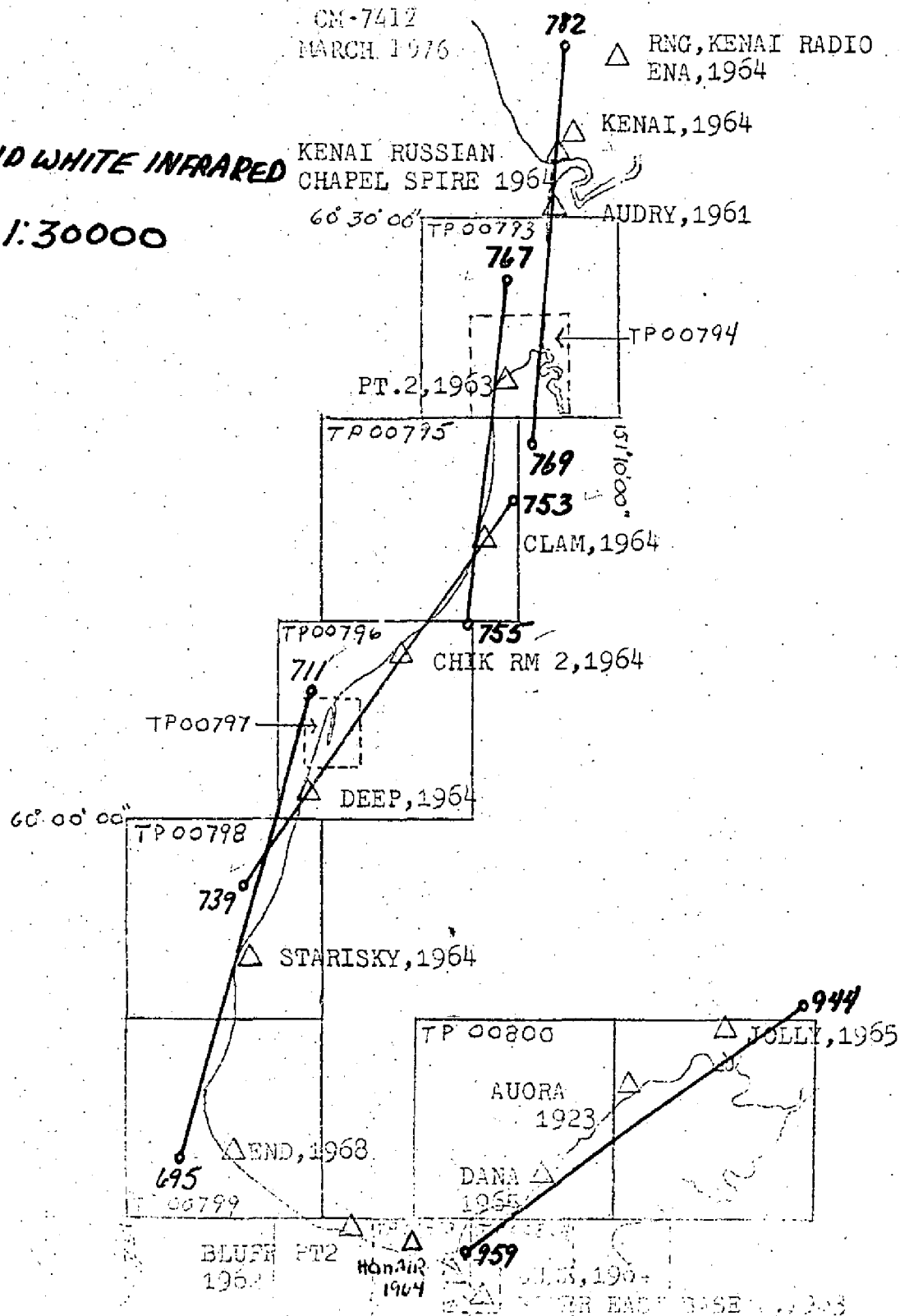
MARCH 1976

BLACK AND WHITE INFRARED

75E(R)

MLLW

1:30000



AEROTRIANGULATION SKETCH

COOK INLET, ALASKA

NORTH HALE

CM-7412

MARCH 1976

△ RNG, KENAI RADIO
ENA, 1964

△ KENAI, 1964

KENAI RUSSIAN
CHAPEL SPIRE 1964

△ AUDRY, 1961

60° 30' 00"

TP00793

TP00794

PT. 2, 1963

TP00795

15' 10' 00"

△ CLAM, 1964

TP00796

6814

△ CHIK RM 2, 1964

TP00797

6827

△ DEEP, 1964

60° 00' 00"

TP00798

△ STARISKY, 1964

TP 00800

AUORA
1923

△ JOLLY, 1965

△ END, 1968

0057

DANA

TP00799

BLUFF PT2
1962

TP00801

0061

7490

DUNE, 1964

HOMER EAST BASE 2, 1964

5. 30' 00"

COLOR FOR RATIO

75Z(c) 10

• 1:15000

■ 1:30000

75E(c)

▲ 1:30000

LIST OF ACCURACY OF CONTROL USED IN STRIP ADJUSTMENT

	POINT	X error (ft)	Y error (ft)
STRIP #1	276110 (VOR KENAI RADIO, ENA 1964)	-4.342	+2.126
	277100 (KENAI, 1964)	+3.096	-1.403
	277113 (KENAI RUSSIAN CHAPEL SPIRE, 1964)	+3.111	-.966
	278101 (AUDRY, SUB PT. 1961)	-.694	-.203
	281101 (PT. 2, SUB PT. 1963)	-4.894	+.309
	289101 (CLAM, SUB PT. 1964)	+1.731	+.156
STRIP #2	289101 (CLAM)	+1.149	+.188
	291101 (CHIK RM 2 SUB PT. 1964)	-2.593	+.365
	294100 (DEEP, 1964)	+2.091	-1.854
	294101 (SUB PT)	+1.247	-3.760
	297101 (STARISKY 1964 SUB PT)	-.672	+2.243
	300101 (END 1968 SUB PT)	+.024	-.946
STRIP #3	954101 (HOMER EAST BASE 2, 1965, SUB PT)	+.038	-1.192
	954110 (HOMER SPIT LT 1964)	-1.302	-2.238
	952100 (BLUFF POINT 2 DUNE 1954 1964)	-.316	+3.060
	949110 (HOMER AERO LT 1956)	+2.374	+3.742
	948110 (HOMER RADIO RANGE CENTER TOWER 1956)	-2.141	-.144
	945110 (HOMER PTR UNLIT MAST OF 5, 1964)	+2.508	-.039
	21101 (BLUFF POINT 2 RM 4 1956)	-1.282	-3.596
	300801 (STRIP #2)	-1.547	+8.669
	300802 (")	-2.721	-.623
	300803 (")	+3.827	+1.389

Strip #4

		X error (ft)	Y error (ft)
	18801 (#3)	-4.690	-2.056
	18802 (#3)	+2.598	-2.468
	948110 (HOMER RADIO RANGE CENTER TOWER 1956)	+1.825	-5.416
	948802 (#9)	+4.084	+ .238
	948803 (#9)	+2.159	- .841
	949110 (HOMER AERO LT 1956)	-6.364	- .260
	949802 (#9)	-1.658	- .083
	949803 (#9)	+ .336	- .287
	17801 (#3)	-3.734	+2.154
	301101 (HOMER AIR 1964 SUB PT)	- .465	+ .356
	952100 (DUNE, 1964)	-2.808	+6.592
OMITTED	954101 (HOMER EASTBASE 2, 1965 SUB PT)	-13.966	+20.221
	954110 (HOMER SPIT LIGHT 1964)	-6.957	+10.535
	304110 (VOR HOMER RADIO MON. 1964 DANA 1965)	-1.881	+9.363
	305101 (SUB PT AURORA 1923)	+ .705	+2.009
	307101 (SUB PT)	+1.897	+ .632
	310100 (JOLLY 1965)	- .690	- .550

Strip #5

294100	(DEEP, 1964)	-1.456	+2.391
294101	(SUB PT)	-1.231	+1.392
916801	(#2)	- .025	+ .575
916802	(#2)	+ .486	+2.996
917801	(#2)	+1.006	+ .551
918801	(#2)	- .012	-1.965
919801	(#2)	+3.772	-1.728
920801	(#2)	+ .565	-1.202

		X error (ft)	Y error (F)
STRIP #5 (CON'T)	921801 (#2)	- .950	+2.448
	291101 (CHIK Rm 2 1964 SUB PT)	-4.528	+ .226
	922801 (#2)	-3.924	-4.099
	923801 (#2)	+ .005	-4.693
	924801 (#2)	+2.020	- .585
	925801 (#2)	+ .229	+ .128
	289101 (CLAM 1964 SUB PT)	- .061	- .316
	926803 (#2)	+1.867	-2.156
	926804 (#2)	+1.501	-2.488

STRIP #6

928801 (#1)	- .404	- .179
928802 (#1)	- .182	+ .528
930801 (#1)	+1.302	- .043
931801 (#1)	-1.325	-3.232
281101 (PT 2, 1963 SUB PT)	-5.609	+ .708
932801 (#1)	+5.165	+5.442
932802 (#1)	+5.104	+1.864
933801 (#1)	-10.592	+3.093
933802 (#1)	+1.112	+ .351

STRIP #7

816801 (#5)	- .451	- .066
816802 (#5)	+ .986	+ .876
816803 (#5)	+1.673	+1.009
816804 (#5)	+1.681	+2.686
817801 (#5)	+1.307	+1.516

			X error (ft)	Y error (ft)
Strip #7 (CONT)	818801	(#5)	+ .563	+ .060
	819801	(#5)	+ .919	+ .616
	820802	(#5)	- 2.371	+ 1.092
	820801	(#5)	+ .520	+ 1.577
	821801	(#5)	- .764	- 1.191
	821802	(#5)		
	822801	(#5)	- 1.233	.695
	822802	(#5)	- 2.874	- .100
	823801	(#5)	- .542	- 1.085
	824801	(#5)	+ 1.164	- .042
	294100	(DEEP 1964)	- .276	- .151
	294101	(SUB PT)	- .187	- .032
	825801	(#5)	- .374	- 1.036
	825802	(#5)	+ .160	+ 1.685
	818802	(#5)	- .883	- .646

Strip #9

945110	(HOMER RTR UNLIGHTED MAST OF S. 1964)	+ .015	- .024
948110	(HOMER RADIO RANGE CENTER TOWER 1956)	+ .289	- 5.417
949110	(HOMER HERO LT 1956)	- .006	+ .001
952100	(DUNE 1964)	+ 1.317	- .142
954101	(HOMER EAST BASE 2, 1965 SUB PT)	+ .004	- .065
954110	(HOMER SPIT LIGHT 1964)	- 1.210	- 1.041

COMPILATION REPORT

TP-00793

31 - DELINEATION

Delineation was accomplished by using stereo instrument and graphic compilation methods. The Wild B-8 stereoplotter with 1:60,000 scale color bridging photographs was used to delineate shoreline, alongshore, and interior detail, and to locate common image points to control the graphic use of the 1:30,000 scale infrared photography. The MHW and MLLW lines were graphically delineated using tide-coordinated infrared photography.

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, North part, dated March 1976.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

Contours were not applicable to this project.

Drainage was compiled from the photographs and delineated by using the Wild B-8 stereoplotter.

35 - SHORELINE AND ALONGSHORE DETAILS

Alongshore details were delineated on the Wild B-8 stereoplotter from office interpretation of the photographs.

The mean high water line was delineated from the photographs described in item #31.

36 - OFFSHORE DETAILS

Offshore detail was compiled by instrument methods as described in item #31.

37 - LANDMARKS AND AIDS

There are no aids for navigation within the limits of this manuscript. One landmark is shown.

TP-00793

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

Refer to the Data Record Form 76-37B, item 5.

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to Photogrammetric Plot Report, North half, dated March 1976.

46 - COMPARISON WITH EXISTING MAPS

A comparison has been made with the U.S. Geological Survey
Quadrangle:
Kenai (B-4), Alaska, scale 1:63,360, dated 1951.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the National Ocean Survey
chart:
No. 16660, scale 1:194,154, dated October 18, 1975.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

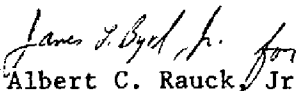
None.

Submitted by:



Fay T. Mauldin
Cartographer
December 7, 1976

Approved:



Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

ADDENDUM TO THE COMPILATION REPORT

TP-00793

FIELD EDIT

Field edit rock data was computed from predicted tide tables since there was no approved tidal data available. Mean high water is based on Kenai river entrance tide gage.

March 22, 1984

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

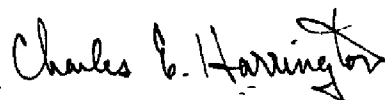
TP -00793

Cook Inlet

Kalifonsky

Kalifonsky Beach

Approved by;

Charles E. Harrington
Chief Geographer
Nautical Charting Division

FIELD EDIT REPORT

TP-00793

OPR-P114-RA-78

COOK INLET.

KENAI RIVER TO KALI FONSKI BEACH

(1:20,000 Scale)

1 FIELD UNIT

JULY 21 - AUG 18 1978

JD (202-230)

51 METHODS

Identification and confirmation of all rocks (between the MHWL and MLWL) and shoreline features was accomplished from shore via four wheel drive vehicle. RAINIER launch RA-5 and boston whaler RA-10 were used to position and identify offshore rocks and foul limit lines. Sounding poles were used for height judgement of inshore rocks which were identified between MHWL and MLWL at very low tide states. Heights of offshore rocks were noted at close range and depths of submerged rocks were determined with a lead line. All times noted are GMT (local time plus 9 hours).

Raydist rates along with a visual check angle were used for positioning of rocks 2000-2019. Visual fixes along with a check fix to photo signals were used for Detached Positions of rocks 2020-2038.

Between latitudes $60^{\circ} 25'00''$ and $60^{\circ} 25'45''$ there are numerous (>30) boulders extending from the MHWL to six tenths of a mile offshore. TP-00793 shows no rocks in this area. Prior survey H-8790 (1963), 1:10,000 scale shows 30 rocks here. This area was inspected from shore at 2200Z JD 203 (approx. -4.0 tide state) and again from launch RA-5 at 1800Z JD 229 (approx. -3.0 tide state). Due to the number of rocks seen at these extreme low tide states the area was determined extremely foul. The foul limit line was delineated by twelve fixes taken in RA-5 (using Raydist rates) along a line running from south to north at the one fathom curve at 1800Z JD 229. The line begins at the southern end of TP-00793 and ends abeam of the northernmost group of boulders (fix position #s1000-1012 refers to separates & boatsheet). A mylar boatsheet was made with boundaries from latitude $60^{\circ} 25'00''$ to $60^{\circ} 30'00''$ and from longitude $151^{\circ} 16'00''$ to $151^{\circ} 21'00''$. Shoreline was transferred directly from TP-00793. Rocks were transferred from 1:10,000 scale prior survey H-8790 (1963) and 1:194,154 scale chart 16660 (Sept 77). Since no rocks were shown on TP-00793 a direct comparison was made between the rocks positioned by field edit via photographs or Detached Positions and those rocks transferred from prior survey H-8790.

A total of 39 Detached Positions were taken on rocks. These rocks fall in three categories: A) new rocks to be charted, B) confirmation of photo identified rocks to be charted, C) confirmation of rocks already shown on prior surveys H-8790. Table 1 includes a complete description of each rock "DP". The table includes: 1) position # of rock, 2) means of positioning, 3) whether or not the rocks are photo identifiable, 4) geographic positions, 5) height and time data, 6) whether or not the rock is charted and 7) recommendations. Every rock transferred from prior survey H-8790 has been addressed separately

-2-

with the exception of the "boulder field" in the southern portion of the sheet which was considered a foul area.

The following rocks require special attention:

ROCK "A" (refer to Table I, attachment and the mylar boatsheet)

The rock was positioned roughly from photographs 75 E(1) 0774 onto the mylar boatsheet. It is not shown on T-00793, or on prior survey H-8790 nor does it have height and time data. However, H-8790 does show a 1.7 fathom shoal in 2.9 fathoms of water in "A"s photogrammetric location (see diagram attached). The rock was searched for at -1.0 tide state and not seen. Due to the clarity of the photogrammetric rock image a rock undoubtedly exists here. It is recommended that a submerged rock symbol be charted in "A"s position.

ROCK "B" (refer to Table I and the mylar boatsheet)

Two rocks are shown on H-8790. Neither of the rocks are photogrammetrically identifiable and neither were found by field editor at 1900Z JD 230 (approx. -3.0 tide state). It is recommended the rock be retained on the prior survey until disproved. Since neither rock is photo identifiable nor has fix position data no additions are deemed necessary on TP-00793.

ROCK "C" (refer to the mylar boatsheet)

Less than 100 meters offshore of the MLWL between latitude 60° 28'00" and 60° 29'00" there are six rocks (circled in orange on the mylar boatsheet) which are not photogrammetrically identifiable and were not seen by the field editor. Those rocks not circled in the area are annotated on photo 75 E(1) 0776. This area was inspected 2000Z JD 202 (approx. -5.0 tide state) from shore and again at 1930Z JD 230 (approx. -3.5 tide state). It is recommended the rock be retained on prior survey H-8790 but that none of the rocks be transferred to TP-00793.

ROCK "D" (refer to Table I and mylar boatsheet)

The area surrounding rock "D" was searched at 1900Z JD 202 from shore (approx. -3.0 tide state) and again at 1937Z JD 230 (approx. -3.5 tide state) from a boston whaler. The only rocks found are those with position #s 2019 and 2035. No other rocks were seen in this area at the above mentioned tide states. It is recommended this rock be retained on H-8790 but not be transferred to TP-00793.

ROCKS NO. 2036 and 2037 (refer to Table I, attachment and mylar boatsheet)

One and one half miles offshore two rocks (#2036 and #2037) were positioned at 1955Z JD 230 (approx. -3.5 tide state).

-3-

Both were found awash at this time. Rock 2036 is 20' - 25' long and flat and sits in 20' of water (at MLW). Rock 2037 is much smaller yet offshore of rock 2036. Prior survey H-8790 shows shading in both of the rock locations. It has been recommended in Hydrographic Descriptive Report H-9777 (covering an area south of Kasilof River) that these two rocks be charted on 16660, scale 1:194,154, in the near future.

It is also recommended they be shown on TP-00793.

Fish traps have been located in five areas on T-00793. In each case the (presently unused) fish traps include a row or rows of what look to be broken pilings 15" in diameter and anywhere from 1 to 3 feet above the sand. Local fisherman described them as old fishtraps. Each row has been plotted on the mylar boatsheet and the Field Edit Sheet (Master Field Edit Ozalid). Descriptions of their locations can be found in the Separates Following the Text.

Additional rocks and topographic detail are noted on black and white chronopaque photographs 75 E(I)-0774 and 75 E(I)-0776 using colors with the following accepted meanings: violet - verification of features, red - additions or corrections of features, green - deletion of features. Rough notes were collected in the field on matte photos 75 E(I)-0774 thru 0776, the paper Field Edit Ozalid and Field Editor's notebook.

52 ADEQUACY OF COMPILATION

The compilation of manuscript TP-0793 is neither adequate nor complete in depiction of rocks. No rocks were depicted on the entire sheet. Over fifty offshore rocks were noted on the photographs with an additional thirty-nine positioned by sextant fixes or electronic control. DP's were taken on 18 rocks to confirm their photogrammetric locations. DP's should be considered only a check as the photogrammetric position is the more accurate of the two positions. For Detached Positions on rocks refer to the separate following the text and the Print Out included with the data from survey launch RA-5

53 MAP ACCURACY

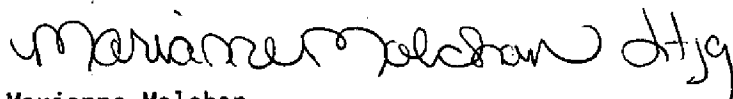
The MHWL and MLWL were checked periodically during the field work and proved to be accurate.

Bluff heights depicted on T-00793 are accurate with the exception of the two southernmost figures which have been corrected directly in the Field Edit Sheet (or Master Field Edit Ozalid).

-4-

No hydrography was done within the limits of T-00793 therefore neither Karluk Reef nor the rock locations from prior topographic survey T-3096 were investigated. However, a complete comparison between this 1978 field edit and the most recent prior survey H-8790 (1:10,000) 1963 was made. Rock location comparison was generally good and is described in Methods section.

Respectfully submitted,



Marianne Molchan
LTJG NOAA
Field Officer

Approved by,



James P. Randall
Captain NOAA
Commanding

REVIEW REPORT
TP-00793
SHORELINE

61 - GENERAL STATEMENT

See Summary included with this Descriptive Report.

62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63 - COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with the following U.S.G.S. quadrangle:
Kenai (B-4), Alaska, scale 1:63,360, dated 1951.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

There is no contemporary Hydrographic Survey for this manuscript.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the NOS chart:
16660, scale 1:194,000, dated May 8, 1982.
16662, scale 1:100,000, dated April 9, 1983, with 1:50,000 scale
inset of manuscript area.

The above listed charts compared well with this manuscript.

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

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

TP-00793

Submitted by,

*Charles E. Blood / James L. 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 D. Mooney
Chief, Photogrammetric Section,
Rockville*Ronald K. Brewer*
Chief, Photogrammetry Branch,
Rockville

Replaces C&GS Form 567.

NONEXHAUSTIVE LIST OF LANDMARKS FOR CHARTS

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

ORIGINATING ACTIVITY

- ☐ HYDROGRAPHIC PARTY
☐ GEODETIC PARTY
☐ PHOTO FIELD PARTY
☒ COMPILATION ACTIVITY
☐ FINAL REVIEWER
☐ QUALITY CONTROL & REVIEW GRP.
☐ COAST PILOT BRANCH
- (See reverse for responsible personnel)

<input checked="" type="checkbox"/> TO BE CHARTED (Field Party, Ship or Office)	REPORTING UNIT Coastal Mapping Unit	STATE Alaska	LOCALITY Cook Inlet, East Side Cape Kasilof to Barren Is.	DATE Jan. 1979
<input type="checkbox"/> TO BE REVISED				
<input type="checkbox"/> TO BE DELETED	AMC. Norfolk, VA			

The following objects HAVE ☒ BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.
(See reverse for responsible personnel)

<input type="checkbox"/> PHOTO FIELD PARTY	<input type="checkbox"/> COAST PILOT BRANCH
<input type="checkbox"/> COMPILATION ACTIVITY	<input type="checkbox"/> QUALITY CONTROL & REVIEW GRP.
<input type="checkbox"/> FINAL REVIEWER	

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM	METHOD AND DATE OF LOCATION (See instructions on reverse side)	CHARTS
PL14	CM-7412	TP-00793	N.A. 1927 POSITION		

[illegible]

TOWER	60 28	23.71	151 16	19.30	75E(I)0776	P-5-V	16660
					Vol. 9, 1975	8-17-78	16662
						75E(I)0776	

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	M. Molchan
POSITIONS DETERMINED AND/OR VERIFIED	
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	R. Kravitz C. Blood
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
OFFICE 1. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	FIELD (Cont'd) B. Photogrammetric field positions* require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
FIELD 1. 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	11. 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. 8-12-75 111. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Re-

UNCLASSIFIED AND UNCONTROLLED ALL EDITIONS OF FORM C-68-075. UNCLASS-DC 0000-P03