

TP-00806

TP 00806

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. TP-00806	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 KASLOF TO BARREN ISLANDS	
Locality COAL POINT, HOMER SPIT	
1975 TO 1980	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY		SURVEY TP. 00806	
DESCRIPTIVE REPORT - DATA RECORD				<input checked="" type="checkbox"/> ORIGINAL		MAP EDITION NO. (1)	
				<input type="checkbox"/> RESURVEY		MAP CLASS Final	
				<input type="checkbox"/> REVISED		JOB RE CM-7412	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division AMC, Norfolk, VA				LAST PRECEDING MAP EDITION			
OFFICER-IN-CHARGE Roy K. Matsushige				TYPE OF SURVEY		JOB PH. _____	
				<input type="checkbox"/> ORIGINAL		MAP CLASS _____	
				<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 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 1:5,000				STATE		ZONE	
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY METHOD: Analytic (North Half)				S. Solbeck		Mar 1976	
LANDMARKS AND AIDS BY				J. Perrow, Jr.		Mar 1976	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat				S. Solbeck		Mar 1976	
CHECKED BY				J. Perrow, Jr.		Mar 1976	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION				J. Moler		Apr 1979	
CHECKED BY				F. Mauldin		Apr 1979	
INSTRUMENT: Wild B-8				CONTOURS BY		N.A.	
SCALE: 1:5,000				CHECKED BY		N.A.	
4. MANUSCRIPT DELINEATION PLANIMETRY BY				J. Moler		Jul 1979	
CHECKED BY				R. Kravitz		Aug. 1979	
METHOD: Smooth drafted and				CONTOURS BY		N.A.	
graphic				CHECKED BY		N.A.	
SCALE: 1:5,000				HYDRO SUPPORT DATA BY		J. Moler	
				CHECKED BY		R. Kravitz	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				R. Kravitz		Aug 1979	
6. APPLICATION OF FIELD EDIT DATA BY				L. Williams		Jun 1981	
CHECKED BY				C. Blood		Aug 1981	
7. COMPILATION SECTION REVIEW BY				C. Blood		Aug 1981	
8. FINAL REVIEW BY				C. Blood/J. Byrd		Aug 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. JACOBSEN		MAY 86	

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00806
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC 8 E 152.71 mm Wild RC110Z 153.14 mm		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT
<input checked="" type="checkbox"/> PREDICTED TIDES				Alaska	
<input checked="" type="checkbox"/> REFERENCE STATION RECORDS				MERIDIAN	
<input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				150th	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
75Z(C) 6951-6954*	Jul. 9, 1975	13:56	1:15,000	17.8 ft. above MLLW	
75E(I) 0877-0880*	Jul. 9, 1975	13:56	1:15,000	17.8 ft. above MLLW	
76E(I) 4283-4286**	Jun. 25, 1976	07:45	1:15,000	1.87 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 1:15,000 color photographs using stereo instrument methods. Compilation was supplemented by graphic methods using the MHW black and white (ratio) photographs 75 Z(C) 6951-6954.

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

**The MLLW line was compiled graphically from the above tide coordinated infrared ratio photographs.

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

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

5. FINAL JUNCTIONS

NORTH TP-00803 TP-00804	EAST TP-00804	SOUTH TP-00803 TP-00804	WEST TP-00803
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REMARKS The MLLWL junction with TP-00803 does not match. Photos for TP-00803 are above MLLW. This 1:5,000 scale TP sheet lies within the eastern area of TP-00803 and the western area of TP-00804.

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

TP-00806

HISTORY OF FIELD OPERATIONS

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

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Melby	June 1975
2. HORIZONTAL CONTROL	RECOVERED BY R. Melby ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY R. Melby and L. Riggers	June 1975
3. VERTICAL CONTROL	RECOVERED BY N.A. ESTABLISHED BY N.A. PRE-MARKED OR IDENTIFIED BY N.A.	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY R. Melby LOCATED (Field Methods) BY R. Melby IDENTIFIED BY None	July 1975 July 1975
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		2. VERTICAL CONTROL IDENTIFIED	
Paneled		N.A.	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
75Z(C)6954	HOMER EAST BASE 2, 1965 (Sub Point)		
75Z(C)6952	DUNE, 1964		

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

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

NOAA FORM 76-36C
(3-72)

TP-00806

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

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	W. Mobley	June 1980
2. HORIZONTAL CONTROL	RECOVERED BY J. Talbot	May 1980
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
3. VERTICAL CONTROL	RECOVERED BY N.A.	
	ESTABLISHED BY N.A.	
	PRE-MARKED OR IDENTIFIED BY N.A.	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY J. Talbot	
	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 R. Hastings	June 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) 76 E(I) 4283 thru 4286			
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 Port of Homer, Proposed development plan; Figure IV. 3-1 Steel grid plan and Homer Electric Association Inc. Power cable map.			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division) Field Edit Report Submerged groin sketch Master Field Edit Print 2 Form 76-40			

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 1979	Class III Manuscript superceded	Oct. 17, 1979	Feb. 21, 1980
Field edit applied. Compilation complete	Aug. 1981	Class I Manuscript	Aug 1981	
Final Review	Aug. 1985	Final Map	mar 1986	mar 1986

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		mar 1986	Nonfloating Aids for Charts
1		mar 1986	Landmarks for Charts

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: Aug 19813. ☐ 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 16-40 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:

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

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

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

OFFICIAL MILEAGE FOR COST ACCOUNTS

SHEET No.	Sq. Mi.	SHEET No.	Sq. Mi.
TP-00793	17	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-00803		TP-00820	
TP-00804			
TP-00805			
TP-00806			
TP-00807		TP-00823	
TP-00808		TP-00824	
TP-00809		TP-00825	
		TP-00826	
		TOTAL	145

REVISED 9/23/75 R.W.
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-00806

This 1:5,000 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 area is limited to Homer Spit.

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 June 1975.

Photograph coverage was adequately provided by natural color and infrared tide coordinated photographs at 1:15,000 scale. The RC-10(Z) camera was used to expose the natural color film required for the aerotriangulation, compilation photographs taken July 1975. The RC-8 (E) camera was used for the infrared black-and-white photographs taken July 1975 and June 1976. The infrared low water and mean high water photographs were used to supplement the color compilation photography. Ratio photographs taken with the RC-10(Z) camera using color film taken July 1975, printed as black and white, were used graphically.

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 photointerpretation, was performed by the Coastal Mapping Unit at the Atlantic Marine Center in August 1979. Refer to the compilation report, item #31 and NOAA Form 76-36B for specific usage of the photography.

Field edit was conducted in June 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 August 1981.

Final review was performed at the Atlantic Marine Center in August 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-00806

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 G.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, ⁷⁹⁶798⁷⁹⁹ 800, 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.

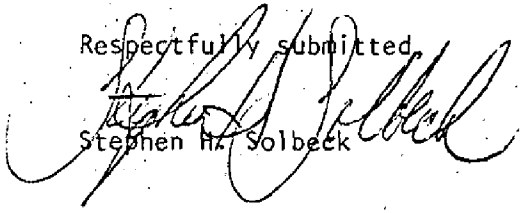
24. Supplemental Data

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

COOK INLET, ALASKA

NORTH HAVEN

CR-7412

MARCH 1976

KENAI RUSSIAN
CHAPEL SPIRE 1964

 $60^{\circ} 30' \text{ cm}$

TP 00793

6275
RNG, KENAI RADIO
ENA, 1964

KENAI, 1964

LAUDRY, 1961

TP 00793

9928

TP00794

PT. 2, 1963

TP00795

4934

606287

9927 •

CLAM, 1964

1814

TP00796

6286

CHIK RM 2,1964

TP00797.

DEEP. 1954

60° 00' 00"

TP 00798

477

9913

STARISKY, 1964

TP 00800

~~Δ~~ JULY, 1965

AUCRA

1925

DANA

~~1953~~

BLUFN PT2

195.

~~Home~~

6301

165

DUNE, 196

FOUR EIGHT BASE 1, 1963

0014

63/5

COLOR BRIDGING PHOTOGRAPHY

- 75 C (c) 1:60000
- 75 E (c) 1:30000
- 75 Z (c) 1:15000

AEROTRIANGULATION SKETCH

COOK INLET, ALASKA

NORTH HALE

CM-7412

MARCH 1976

RNG, KENAI RADIO
ENA, 1964

KENAI, 1964

KENAI RUSSIAN
CHAPEL SPIRE 1964

LAUDRY, 1961

60° 30' 00"

TP 00793

BLACK AND WHITE INFRARED

75 E (R)

1:30000

MHW

627

TP00794

PT. 2, 1963

7P00795

429

15

6132

CLAM, 1964

11

TP00796

CHEK RM 2,1964

599

TP00797

602

△ DEEP, 1964

60 00 00

TP 00798

STARISKY, 1964

897

4585

ΔEND, 1968

TP 00794

TP 00200

AUORA
1923

DANA: 1965.

△ JOLLY, 1965

ELUFF: PE
1962

1000

DUNE, 1964

HOARD TST 8:33 2, 1963

9/7

Topic:

200

AEROTRIANGULATION SKETCH

COOK INLET, ALASKA

NORTH HALF

CM-7412

MARCH 1976

△ RNG, KENAI RADIO
ENA, 1964

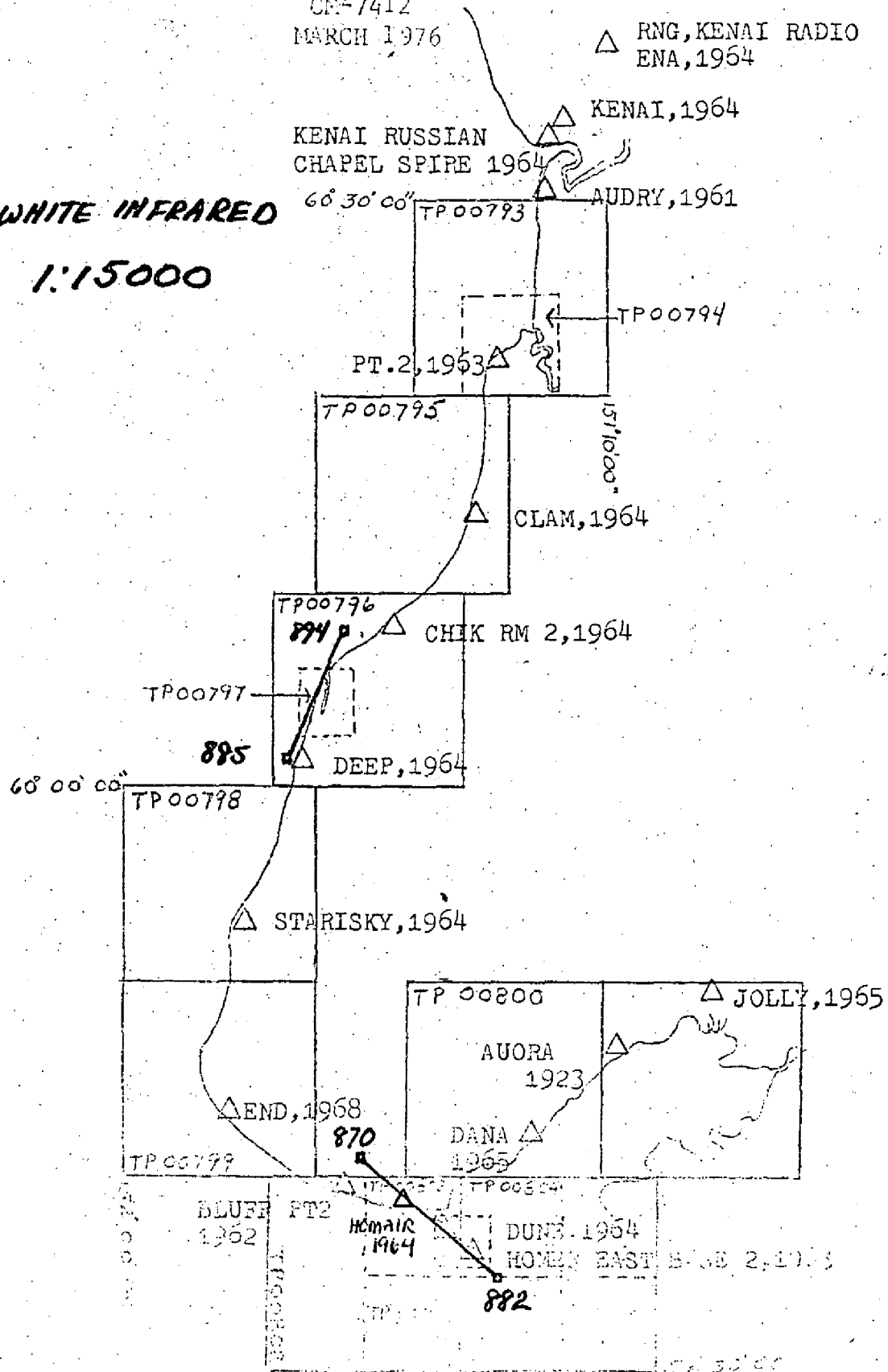
△ KENAI, 1964

KENAI RUSSIAN
CHAPEL SPIRE 1964

△ AUDRY, 1961

BLACK AND WHITE INFRARED

75 E(R) 1:15000

MHW

AEROTRIANGULATION SKETCH

COOK INLET, ALASKA

NORTH HALF

CM-7412

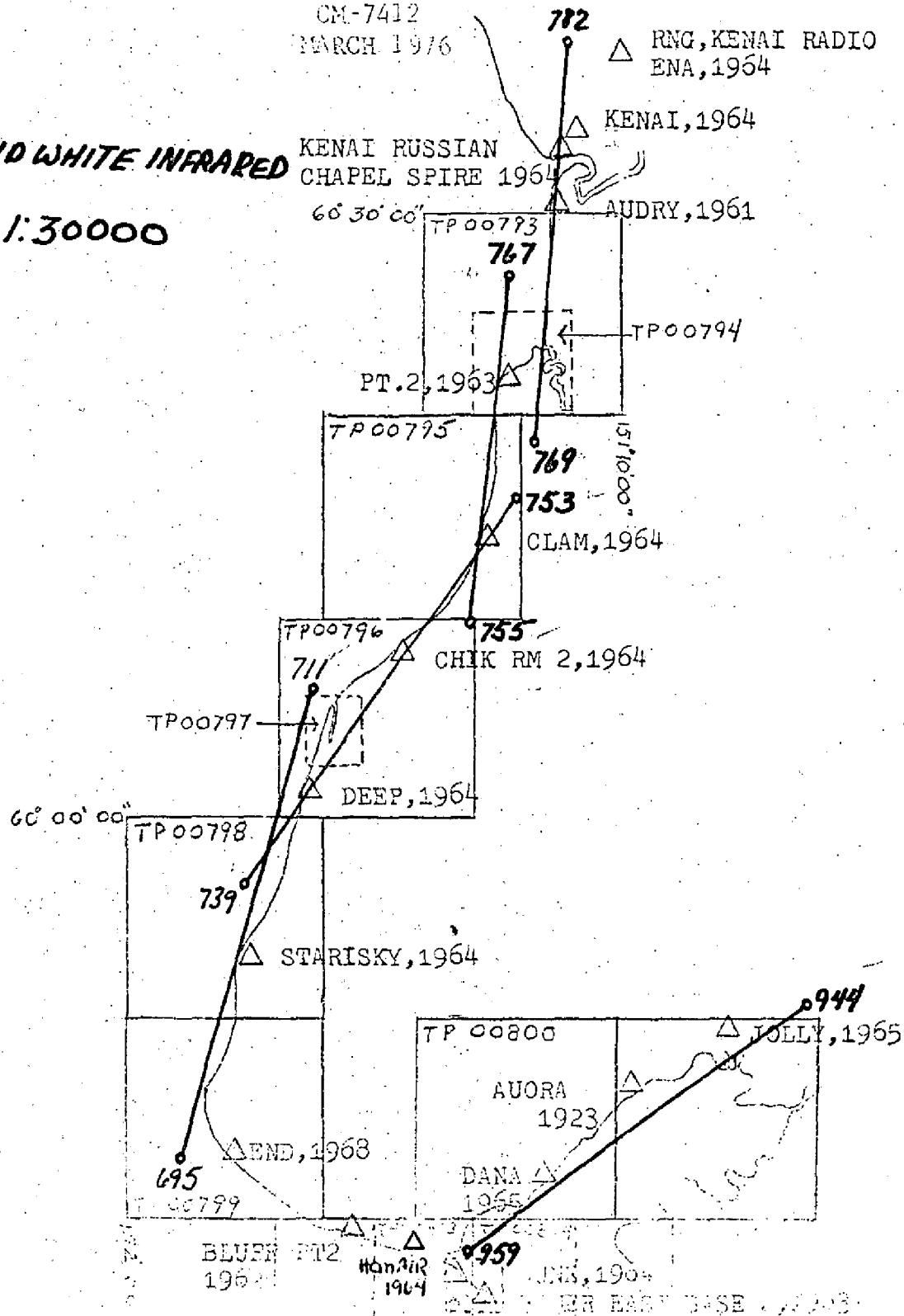
MARCH 1976

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

68° 30' 00"

△ AUDRY, 1961

TP 00793

TP 00794

PT. 2, 1963

TP 00795

57° 10' 00"

△ CLAM, 1964

TP 00796

6814

△ CHIK RM 2, 1964

TP 00797

6827

△ DEEP, 1964

68° 00' 00"

TP 00798

△ STARISKY, 1964

TP 00800

△ JOLLY, 1965

AUORA
1923

△ END, 1968

0057

DANA

1965

TP 00799

TP 00801

TP 00802

TP 00803

BLUFF PT 2
1962HONER EAST
1964

DUNE, 1964

0061

7490

HONER EAST BASE 2, 1964

57° 30' 00"

COLOR FOR RATIO

75Z(c)

• 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 RTR 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	- .053
	949803 (#9)	+ .336	- .287
	17801 (#3)	-3.734	+2.154
	301101 (HOMAIR 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 VOR HOMER)	-6.957	+10.535
	304110 (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)	+1.606	+ .551
918801 (#2)	- .012	-1.965
919801 (#2)	+3.772	-1.728
920801 (#2)	+ .565	-1.202

			X error (ft)	Y error (ft)
STRIP #5 (CONT)	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	- .555
	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)	+1.362	- .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 5 1964)	+ .015	- .024
948110	(HOMER RADIO RANGE CENTER TOWER 1956)	+ .289	- 5.417
949110	(HOMER AERO 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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	GEODETIC DATUM		COORDINATES IN FEET STATE <u>Alaska</u> ZONE <u>4</u>	GEOGRAPHIC POSITION		ORIGINATING ACTIVITY	REMARKS
					N.A. 1927			ϕ LATITUDE	λ LONGITUDE		
TP-00806	CM-7412									Unit, AMC, Norfolk, VA	
DUNE, 1964			List of Control Homer to Soldotna, AL	952100	X=			ϕ 59 37 15.72054			
					Y=			λ 151 27 12.45620			
HOMER EAST BASE 2, 1965			List of Control Homer to Soldotna, AL	954100	X=			ϕ 59 36 05.79672			
					Y=			λ 151 24 54.69153			
HOMER SPIT LIGHT, 1964			List of Control Homer to Soldotna, AL	954110	X=			ϕ 59 36 04.18598			
					Y=			λ 151 24 26.88306			
HOMER EAST BASE, 1910			List of Control Homer to Soldotna, AL	000061	X=			ϕ 59 36 05.00300			
					Y=			λ 151 24 54.69800			
HOMER SPIT, SALTY DAWG SALOON, TOWER, 1975			Kachemak Bay Field G.P.	000169	X=			ϕ 59 36 09.210			
					Y=			λ 151 25 09.279			
HOMER BREAKWATER LIGHT, 1975			Kachemak Bay Field G.P.	000168	X=			ϕ 59 26 16.458			
					Y=			λ 151 24 45.809			
					X=			ϕ			
					Y=			λ			
					X=			ϕ			
					Y=			λ			
					X=			ϕ			
					Y=			λ			
					X=			ϕ			
					Y=			λ			
COMPUTED BY A. Rauck				DATE 6/8/76				COMPUTATION CHECKED BY J. Minton			DATE 11/4/76
LISTED BY A. Rauck				DATE 6/8/76				LISTING CHECKED BY J. Minton			DATE 11/4/76
HAND PLOTTING BY None				DATE				HAND PLOTTING CHECKED BY			DATE

COMPILATION REPORT

TP-00806

31 - DELINEATION

Delineation was accomplished by stereo instrument and graphic compilation methods. The Wild B-8 stereoplotter with 1:15,000 scale color bridging photographs was used to delineate alongshore and interior detail, and to locate common image points to graphically control the 1:15,000 scale infrared photography. Supplemental tide coordinated infrared photographs for both MLLW and MHW were used to delineate the MHW and MLLW lines. Color film used in the RC 10(Z) camera was ratio printed in black and white and used to assist in delineating the MHW line where the infrared photography did not cover.

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 Reports, north half, dated March 1976.

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 were two charted aids for navigation and one charted landmark within the limits of this map.

TP-00806

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

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

Delineation junctioned well with joining manuscripts except for the area of low gradient mean lower low water line in the vicinity of latitude 59°38.0', longitude 151°27.0' with the 1:10,000 scale manuscript TP-00803. The mean lower low water line does not junction due to the different tide levels on the photography at the junction.

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 quadrangles:
Seldovia (C-4), Alaska, scale 1:63,360, dated 1961

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
with 1:10,000 scale inset of Homer Harbor small boat basin
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:

J. Byrd for
Jeffrey C. Moler
Cartographic Technician
July 10, 1979

Approved:

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

March 22, 1984

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP - 00806

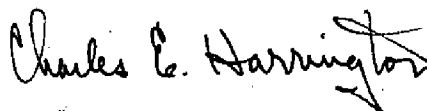
Archimandritof Shoals

Coal Point

Homer Spit

Kachemak Bay

Approved by;



Charles E. Harrington
Chief Geographer
Nautical Charting Division

FIELD EDIT REPORT

OPR-P114-RA-80

CM-7412

TP-00806

ALASKA

COOK INLET, EAST SIDE

CAPE KASILOF TO BARREN ISLANDS

1 FIELD UNIT

JUNE 28 - JUNE 30, 1980

(JD 180-182)

51 METHODS

Field edit operations began on June 28, 1980 (JD 180) and ended on June 30, 1980 (JD 182). Field edit began after hydrographic operations started on H-9877, but ended before operations began on H-9900. Hydrographic surveys H-9877 and H-9900 include all of the shoreline of TP-00806.

Inspection of the shoreline was made during both high and low water by vehicle and on foot. Landmarks for charts were investigated from seaward.

Heights of rocks were estimated at close range. Times noted were GMT (Alaska Daylight Time + 9 hours). Shoreline and topographic notes were annotated on black and white chronopaque photographs numbers NOS, 25 JUN 76 ER-4283, 4284, 4285, and 4286 and/or the Master Field Edit Print.

52 ADEQUACY OF COMPILATION

The compilation of TP-00806 was adequate at the time of photography. However, some changes have occurred since the photography was flown. The mean high water line on the westerly side and at the end of Homer Spit appears to have shifted inland a short distance. Measurements were taken from photo-identifiable prints and the correct mean high water line was drawn on the Master Field Edit Print.

The small boat harbor has been extensively remodeled since this sheet was compiled and plans are underway to start a major expansion of the marina in the Fall of 1980, with completion scheduled for the Fall of 1982. A construction diagram/plan of the planned facility is included with the field edit data. This work is being planned by the U.S. Army Corps of Engineers.

A steel grid has been constructed in the S.W. quadrant of the marina since the photography. A plan of this grid is included in the "Separates." Also included in the "Separates Following the Text" is a diagram of a submerged groin located SW of the City Pier. Both the grid and groin are located on the Master Field Edit Print. Plans for the grid were supplied by the Homer Harbormaster (business card attached). The groin was mapped by the Field Editor.

53 MAP ACCURACY

The map accuracy of TP-00806 was excellent. Three stations were used to check map accuracy. The inverse distances computed between the published geodetic positions and the geographic positions as compiled on NOAA Form 76-40 are:

<u>STATION</u>	<u>INVERSE</u> (meters)
HOMER BREAKWATER LIGHT 1975	0.494
HOMER SPIT LIGHT 1964	0.001
HOMER SPIT, SALTY DAWG SALOON, TOWER 1975	0.091

54 RECOMMENDATIONS

Matte ratio prints were not available for field use. As a result, extreme care was necessary while handling the chronopaques in the field. It is recommended that matte ratio prints be made available to the field party in the future as has been done in the past.

The expansion of the Homer boat basin planned by the Corps of Engineers and mentioned in paragraph 52 will render much of this manuscript obsolete. It is recommended that plans be made to re-map this area of the Homer Spit at the completion of construction, in two to three years' time.

56 MISCELLANEOUS

All triangulation stations within TP-00806 were visited. Station descriptions and recovery notes are included in the "Separates." All other pertinent information is also located 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-00806
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. quadrangles:
Seldovia (C-4), Alaska, scale 1:63,360, dated 1961

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with the contemporary hydrographic survey H-9877, 1:20,000 scale, dated December 8, 1982. The hiatus of H-9877, the area between latitudes 59°36.0' and 59°37.0' and west of longitude 151°24.3' to Homer Spit is covered by survey H-9900; the work was done in 1980. H-9900 was not available for comparison at the time of final review August 1985.

65 - COMPARISON WITH NAUTICAL CHARTS

Comparisons were made with the following NOS charts:
16645, scale 1:82,662, dated July 30, 1983
with 1:10,000 scale inset of Homer Harbor small boat basin
16645, scale 1:82,662, dated March 13, 1976
16640, scale 1:200,000, dated April 23, 1983.

The above listed charts compared well with this manuscript.

The field editor, in his report, recommended to remap the area of this manuscript because the area was being changed extensively at the time he was there, which will render this manuscript obsolete. The U.S. Army Corps of Engineers are planning the work that is being done, with a completion date set for the fall of 1982.

A Final Chart Maintenance Print indicating discrepancies 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-00806

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. Mearns*Chief, Photogrammetry Branch,
Rockville*Ronald K. Brewer*Chief, Photogrammetry Division,
Rockville

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	W. Mobley
POSITIONS DETERMINED AND/OR VERIFIED	J. Talbott
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	C. Blood
ACTIVITIES	C. Blood
INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE OF LOCATION: (Consult Photogrammetric Instructions No. 64.)	
<p>OFFICE</p> <p>I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75</p> <p>FIELD</p> <p>I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant</p> <p>A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75</p> <p>*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.</p>	
<p>FIELD (Cont'd)</p> <p>B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982</p> <p>II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75</p> <p>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75</p> <p>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</p>	

Replaces C&GS Form 567.

NON-FLUORESCENT AND/OR LANDMARKS FOR CHARTS

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

ORIGINATING ACTIVITY

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

XX <input type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED	REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Unit, AMC, Norfolk, VA	STATE Alaska	LOCALITY Cook Inlet, East Side Cape Kasloof to Barren Is.	DATE Aug
The following objects HAVE <input checked="" type="checkbox"/> BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.				

OPER PROJECT NO.	JOB NUMBER	SURVEY NUMBER
P114-RA-80	CM-7412	TP-00806

DATE

POSITION

LATITUDE		LONGITUDE	
°	'	°	'
D.M. Meters		D.P. Meters	

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)

OFFICE	FIELD
--------	-------

AFFECTED

(Homer Spit, Salty Dawg Saloon,
Tower, 1975)

09.210	151 25	09.279
--------	--------	--------

6 E(I) 4284	Triang. Rec.
June 25, 1976	May 1980

16640
16645

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	W. Mobley
POSITIONS DETERMINED AND/OR VERIFIED	J. Talbott
	C. Blood
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	C. Blood
ACTIVITIES	C. Blood
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64)	
OFFICE I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	FIELD (Cont'd) B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75
**FIELD POSITIONS are determined by field observations based entirely upon ground survey methods. **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.	

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

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

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

 FORM 4-68 (REV. 11-29-67) PREVIOUS EDITIONS ARE OBSOLETE
