TP-00799

TP-00799

NOAA FORM 76-35
(6-80)

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

DESCRIPTIVE REPORT

Map No.	*Edition No.*
TP-00799	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
ANCHOR POINT

19 75 TO 19 81

REGISTERED IN ARCHIVES

DATE

*U.S. GOVERNMENT PRINTING OFFICE 1980-665-115

NOAA FORM 76-36A (3-72) — U. S. DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY: [X] ORIGINAL [ ] RESURVEY [ ] REVISED

SURVEY TP- 00799

MAP EDITION NO. (1)

MAP CLASS Final

JOB PH- CM-7412

PHOTOGRAMMETRIC OFFICE: Coastal Mapping Division, Atlantic Marine Center, Norfolk, VA

OFFICER-IN-CHARGE: Roy K. Matsushige

LAST PRECEEDING MAP EDITION

TYPE OF SURVEY: [ ] ORIGINAL [ ] RESURVEY [ ] REVISED

JOB PH- _____

MAP CLASS _____

SURVEY DATES: 19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE		2. FIELD	
Aerotriangulation - North Sect.	Oct. 6, 1975	Premarking	May 6, 1975
Compilation - North Sect	May 3, 1976		
Amendment I	Aug. 17,1976		
Amendment II	Jan. 14,1977		

II. DATUMS

1. HORIZONTAL: [XX] 1927 NORTH AMERICAN — OTHER (Specify)

2. VERTICAL: [XX] MEAN HIGH-WATER [ ] MEAN LOW-WATER [X] MEAN LOWER LOW-WATER [ ] 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 METHOD: Analytic (North Half)	BY	S. Solbeck	Mar 1976
	LANDMARKS AND AIDS BY	J. Perrow, Jr.	Mar 1976
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat	PLOTTED BY	S. Solbeck	Apr 1976
	CHECKED BY	J. Perrow, Jr.	Apr 1976
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	F. Mauldin	Dec 1977
	CHECKED BY	L. O. Neterer	Nov 1977
INSTRUMENT: Wild B-8	CONTOURS BY	N.A.	
SCALE: 1:20,000	CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	F. Mauldin	Jan 1978
	CHECKED BY	J. Byrd	Feb 1978
METHOD:	CONTOURS BY	N.A.	
	CHECKED BY	N.A.	
SCALE: 1:20,000	HYDRO SUPPORT DATA BY	F. Mauldin	Jan 1978
	CHECKED BY	J. Byrd	Feb 1978
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	J. Byrd	Feb 1978
6. APPLICATION OF FIELD EDIT DATA	BY	W. Connally/I. Perkinson	Jan/Mar 82
	CHECKED BY	C. Blood	May 1982
7. COMPILATION SECTION REVIEW	BY	C. Blood	Apr 1984
8. FINAL REVIEW	BY	J. Byrd	Jul 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 DAUGHERTY	MAY 86

NOAA FORM 76-36A — SUPERSEDES FORM C&GS 181 SERIES

*U.S. GOVERNMENT PRINTING OFFICE-1977-765-092

NOAA FORM 76-36B
(3-72)

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

TP-00799

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC 8E 152.71 mm
Wild RC 10 C 88.47 mm

TYPES OF PHOTOGRAPHY LEGEND
(C) COLOR
(P) PANCHROMATIC
(I) INFRARED

TIME REFERENCE
ZONE: Alaska — [xx] STANDARD
MERIDIAN: 150th — [ ] DAYLIGHT

TIDE STAGE REFERENCE
[X] PREDICTED TIDES
[xx] REFERENCE STATION RECORDS
[xx] TIDE CONTROLLED PHOTOGRAPHY

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
75C(C)6298-6300	Jul.5,1975	08:51	1:60,000	9.0 ft. above MLLW
75E(C)0021-0027	Jul.5,1975	11:52	1:30,000	12.9 ft. above MLLW
75E(I)0898-0903*	Jul.9,1975	14:53	1:30,000	16.7 ft. above MLLW
75E(I)0585-0588*	Jul.8,1975	14:50	1:30,000	14.25 ft. above MLLW
75E(I)0697-0700**	Jul.9,1975	09:49	1:30,000	2.32 ft. above MLLW
76E(I)3963-3967**	Jun.11,1976	08:26	1:30,000	0.20 ft. above MLLW
				Mean tide range = 15.4 ft Seldovia

REMARKS
A tide gauge was observed at Seldovia for the infrared photography. The Mean High Water at Seldovia is 17.0 ft. above the MLLWL.

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 MLLW was compiled graphically from the above tide coordinated infrared 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
TP-00798	No Survey	TP-00802	No Survey

REMARKS

NOAA FORM 76-36B
(3-72)

*U.S. GOVERNMENT PRINTING OFFICE:1977-765-092

NOAA FORM 76-36C
(3-72)

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

TP-00799

HISTORY OF FIELD OPERATIONS

I. [XX] FIELD INSPECTION OPERATION [ ] FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		R. Melby	June 1975
2. HORIZONTAL CONTROL	RECOVERED BY	R. Melby	June 1975
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	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	July 1975
	LOCATED (*Field Methods*) BY	R. Melby	July 1975
	IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION: [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [XX] NO INVESTIGATION — BY		
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
N.A.

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
75Z(C)6754	END, 1968		

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 [XX] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [XX] NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

1 - Form 152, 1 - Form 76-40

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

NOAA FORM 76-36C
(3-72)

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

TP-00799

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		R. L. Land	Jul/Aug 1981
2. HORIZONTAL CONTROL	RECOVERED BY	J. Gordon	Jul/Aug 1981
	ESTABLISHED BY	J. Gordon	Jul/Aug 1981
	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	F. Ohlinger	Jul/Aug 1981
	LOCATED *(Field Methods)* BY	None	
	IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION: ☐ COMPLETE ☒ SPECIFIC NAMES ONLY ☐ NO INVESTIGATION — BY	F. Ohlinger	Jul/Aug 1981
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	F. Ohlinger	Jul/Aug 1981
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None	

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) 3964 - 76 E(I) 3965
75 E(I) 0697

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

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

Master Field Edit Print
Field Edit Report

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

NOAA FORM 76-36D
(3-72)

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

TP-00799

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. 1978	Class III Manuscript	Mar. 13, 1978	Feb. 21, 1980
Field edit applied. Compilation Complete	May. 1982	Class I Manuscript	July 1982	
Final Review	July 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 Aid to Be Charted

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: July 1982
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 567 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA *(except for Geographic Names Report)* AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:

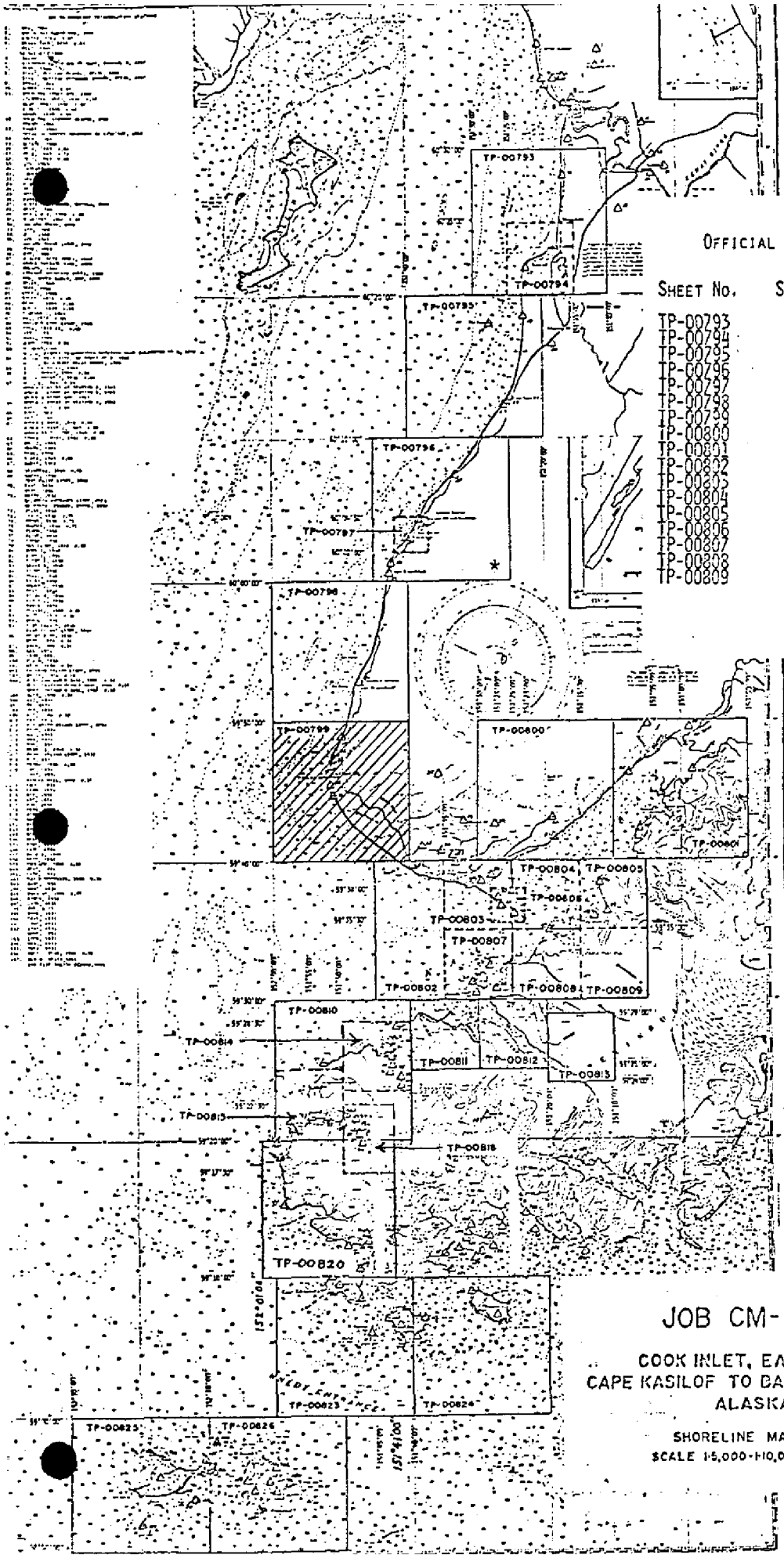
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

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

	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
SECOND EDITION	TP - _____ (2)	PH - _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
THIRD EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
	TP - _____ (3)	PH- _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
FOURTH EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
	TP - _____ (4)	PH - _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL

NOAA FORM 76-36D

*U.S. GOVERNMENT PRINTING OFFICE:1977-765-092



Official Mileage for Cost Accounts

Sheet No.	Sq. Mi.	Sheet No.	Sq. Mi.
TP-00793	7	TP-00810	17
TP-00794	3	TP-00811	
TP-00795	6	TP-00812	
TP-00796	8	TP-00813	
TP-00797	2	TP-00814	
TP-00798	6	TP-00815	
TP-00799	2	TP-00816	
TP-00800	5		
TP-00801	15		
TP-00802	13		
TP-00803	5	TP-00820	16
TP-00804	2		
TP-00805	6		
TP-00806	6	TP-00823	
TP-00807	6	TP-00824	
TP-00808	8	TP-00825	
TP-00809	2	TP-00826	
		TOTAL	195

REVISED 9/23/75 E.W.
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-00799

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 area north of Kachemak Bay from latitude 59°40' north to latitude 59°50' including Anchor Point.

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 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 1975. The infrared photographs were used to supplement the color compilation photography.

Analytic aerotriangulation was adequately provided by the Washington Science Center for the north part of the project 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, February 1978. Refer to the compilation report, Item #31 and NOAA Form 76-36B for specific usage of the photography.

Field edit was conducted July 1981 by hydrographic personnel assigned to the NOAA ship RAINIER. Field edit for this manuscript is complete and was applied to the manuscript by the Coastal Mapping Unit, Atlantic Marine Center in May 1982.

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-00799

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, 796, 798, 799, 800, 801, 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.

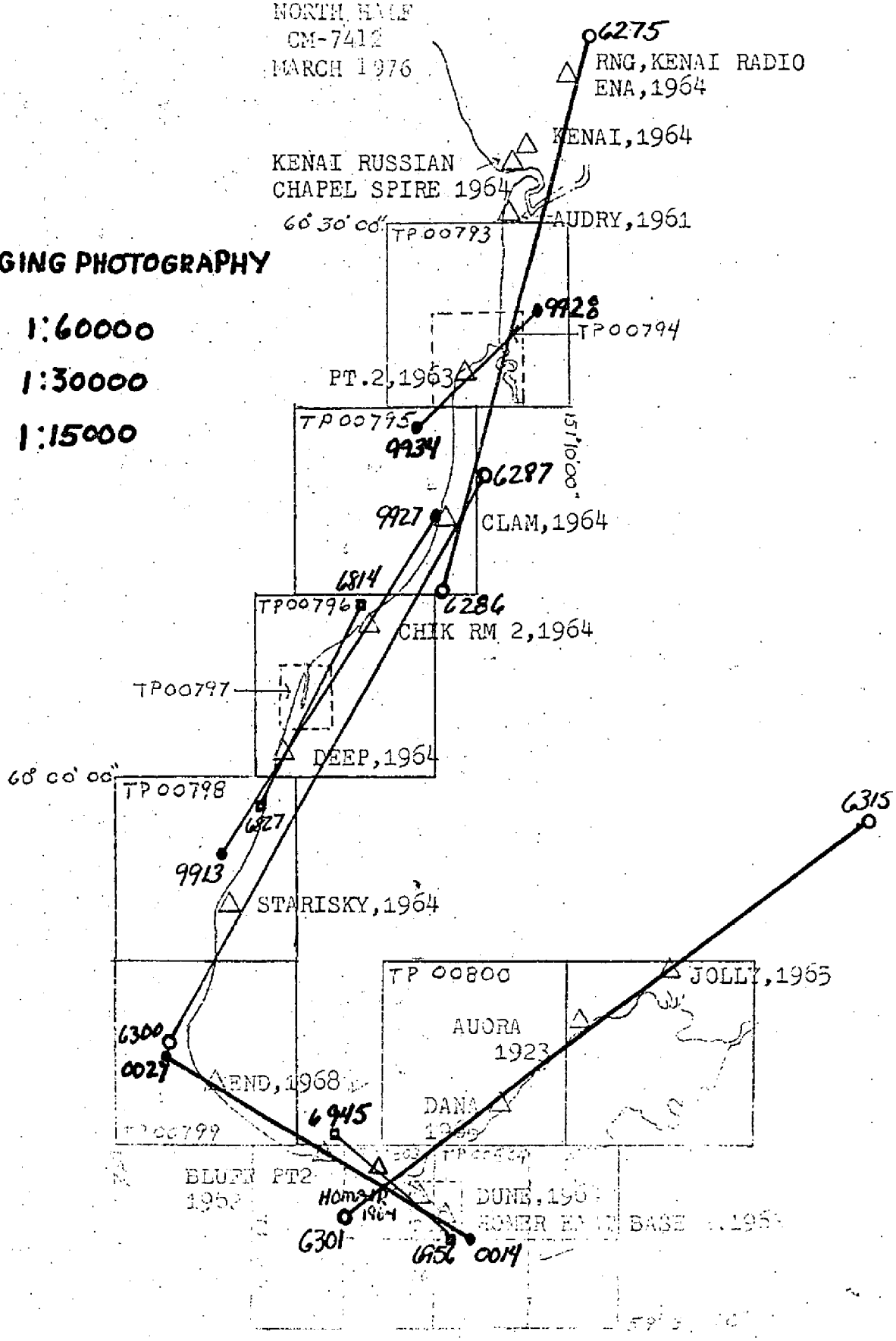
Respectfully submitted,

Stephen H. Solbeck

Approved and forwarded:

John D. Perrow, Jr.
Chief, Aerotriangulation Section

AEROTRIANGULATION SKETCH
COOK INLET, ALASKA
NORTH HALF
CM-7412
MARCH 1976

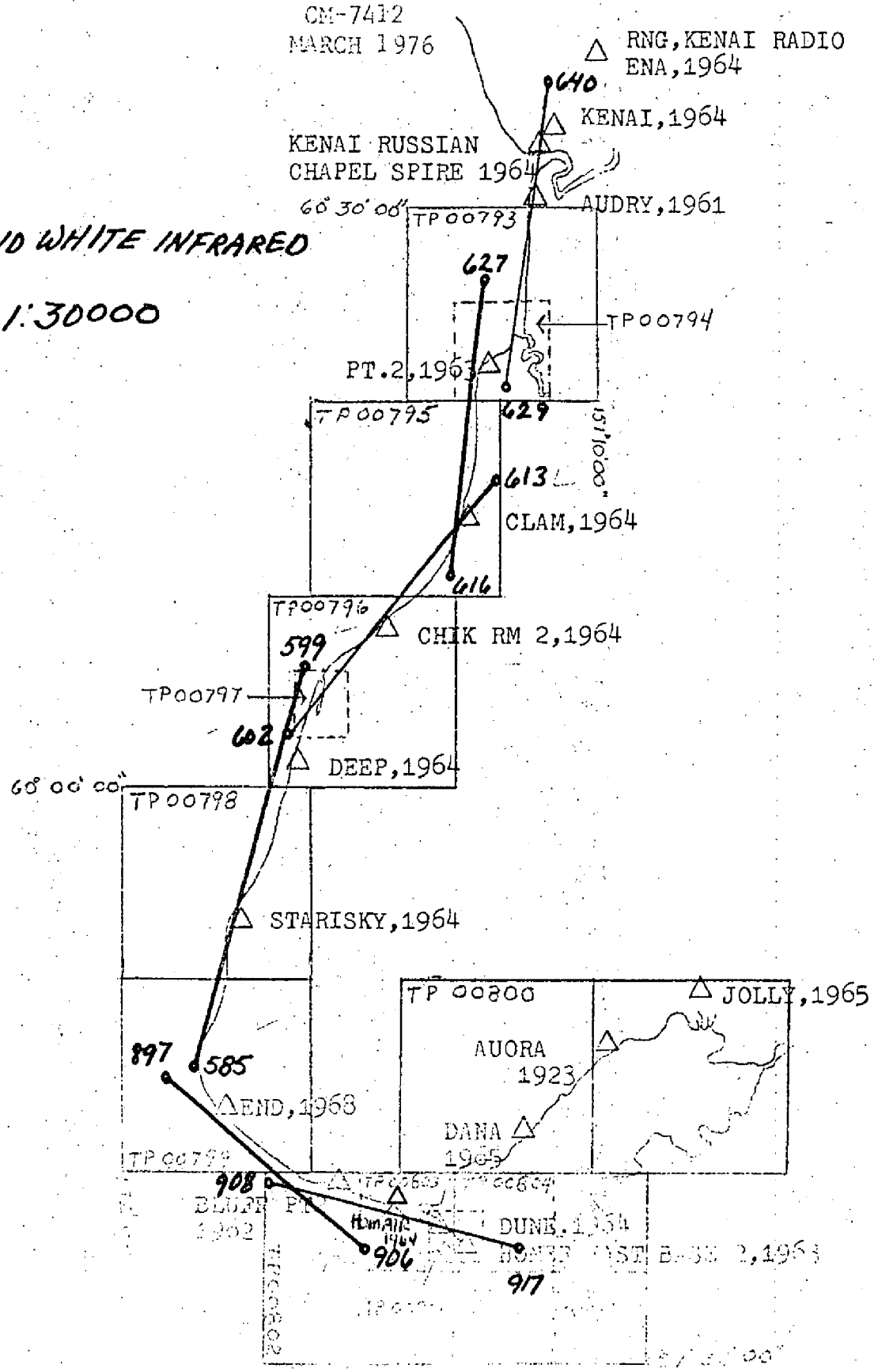


COLOR BRIDGING PHOTOGRAPHY

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

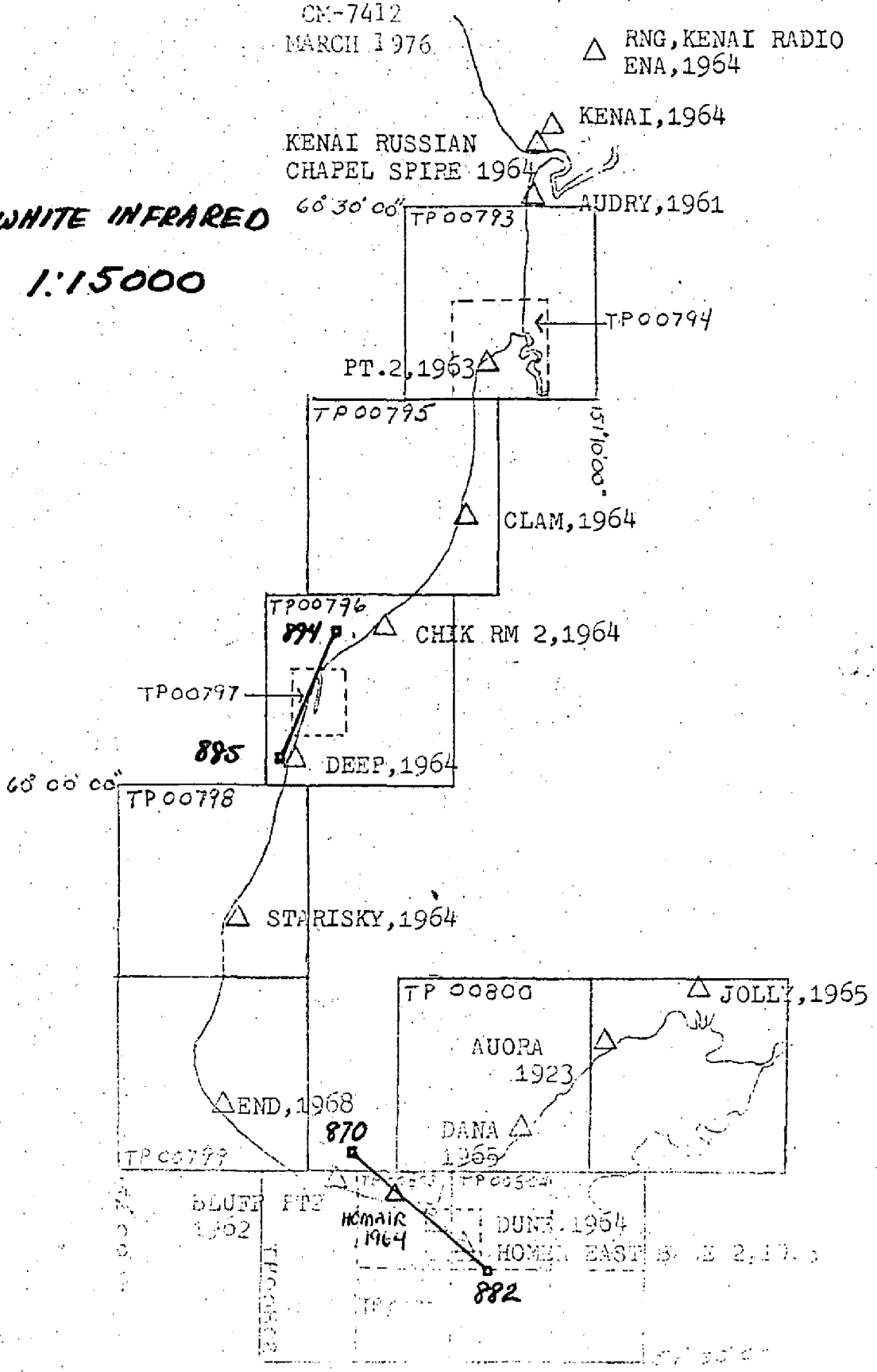
AEROTRIANGULATION SKETCH
COOK INLET, ALASKA
NORTH HALF
CM-7412
MARCH 1976

BLACK AND WHITE INFRARED
75 E (R) 1:30000
MHW



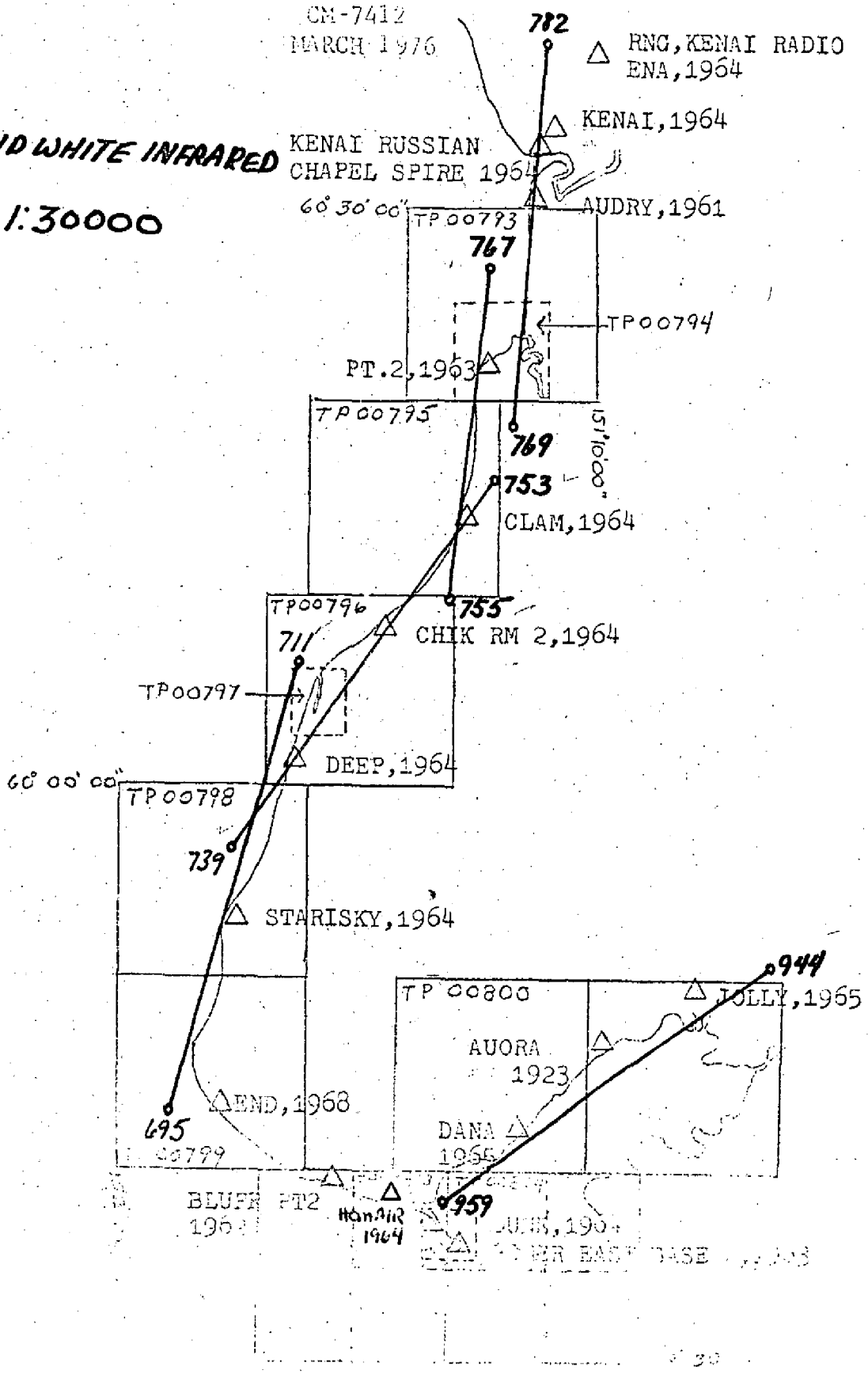
AEROTRIANGULATION SKETCH
COOK INLET, ALASKA
NORTH HALF
CM-7412
MARCH 1976

BLACK AND WHITE INFRARED
75 E(R) 1:15000
MHW

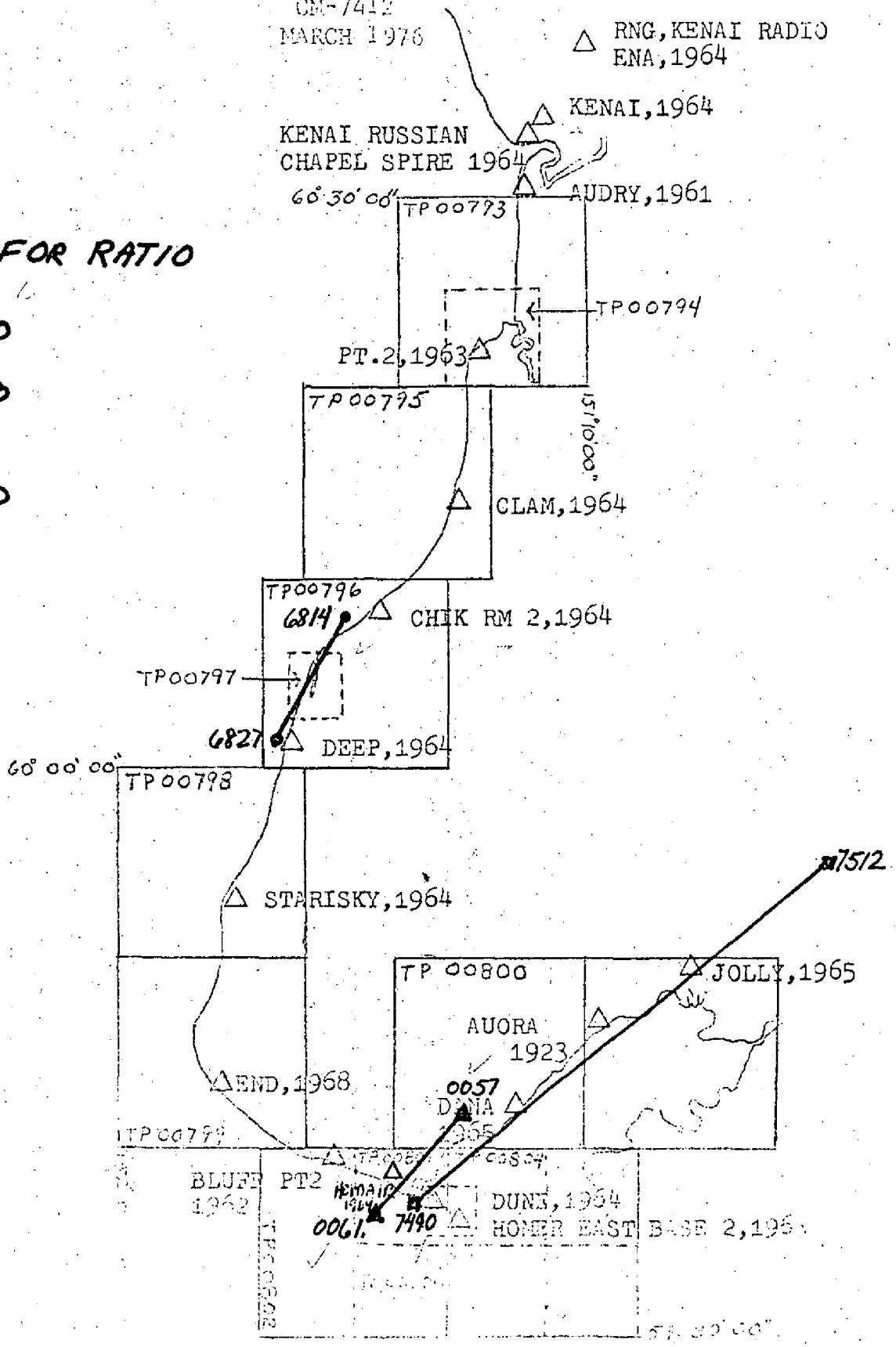


AEROTRIANGULATION SKETCH
COOK INLET, ALASKA
NORTH ELF
CM-7412
MARCH 1976

BLACK AND WHITE INFRARED
75E(R)
1:30000
MLLW



AEROTRIANGULATION SKETCH
COOK INLET, ALASKA
NORTH HALF
CM-7412
MARCH 1976



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 RM 1 1956~~ (DUNE 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 UNLITED 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

			X error (ft)	Y error (ft)
STRIP #4	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 RBCO LT 1956)	-6.364	-.260
	949802	(#9)	-1.658	-.083
	949803	(#9)	+.336	-.287
	17801	(#3)	-3.734	+2.154
	301101	(HOM AIR 1964 SUB PT)	-.465	+.356
OMITTED	952100	(DUNE, 1964)	-2.808	+6.592
OMITTED	954101	(HOMER EASTBASE 2, 1965 SUB PT)	-13.966	+20.221
OMITTED	954110	(HOMER SPIT LIGHT 1964)	-6.957	+10.535
	304110	(VOR HOMER RADIO MON. 1964)	-1.881	+9.363
	305101	(DANA 1965 SUB PT)	+.705	+2.009
	307101	(AURORA 1923 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 (ft)
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	-.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)	+1.302	-.043
	931801	(#1)	-1.325	-3.232
	281101	(PT 2, 1963 SUB PT)	-5.609	+.708
	232801	(#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)	+1.207	+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	-1.034
	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

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-00799	CM-7412	N.A. 1927	Coastal Mapping Unit, AMC, Norfolk, VA

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE Alaska ZONE 4	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
ANCHOR POINT, 1908	Quad. 59151 Page 1	000031	x=	φ 59 48 48.383	
			y=	λ 151 49 41.810	
LEE, 1968	Accession # G-14164	000032	x=	φ 59 47 46.433	
			y=	λ 151 50 49.857	
BOB, 1968	Accession # G-14164	33	x=	φ 59 47 23.576	
			y=	λ 151 51 22.538	
PINK, 1968	Accession # G-14164	000035	x=	φ 59 45 29.536	
			y=	λ 151 51 36.071	
END, 1968	Accession # G-14164	300,00	x=	φ 59 44 50.893	
			y=	λ 151 51 08.261	
ANCHOR POINT LIGHT, 1975	Form 28D Field Position		x=	φ 59 46 11.1175	
			y=	λ 151 51 53.3536	
NEW 2, 1981 (Field Position)	Vol 3 Pages 16-17 39-40, 43-45		x=	φ 59 42 52.220	
			y=	λ 151 48 38.514	
MILLARD, 1981 (Field Position)	Vol 3 Pgs. 29-30		x=	φ 59 42 00.054	
			y=	λ 151 46 45.905	
TP-13 (Field Position)	Vol 3 Pg. 33		x=	φ 59 41 09.914	
			y=	λ 151 44 36.646	
TP-10 (Field Position)	Vol 4 Pg. 13		x=	φ 59 46 10.101	
			y=	λ 151 51 53.359	

COMPUTED BY	DATE	COMPUTATION CHECKED BY	DATE
A. C. Rauck, Jr.	6/8/76	F. Mauldin	6/6/76
LISTED BY	DATE	LISTING CHECKED BY	DATE
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE

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

COMPILATION REPORT

TP-00799

31 - DELINEATION

Delineation was accomplished by using stereo instrument and graphic methods. The Wild B-8 stereoplotter was used to delineate alongshore and interior detail based upon office interpretation of the 1:60,000 and 1:30,000 scale bridging/compilation color photographs and to locate common detail points to control the infrared photography. Supplemental tide coordinated infrared photographs at 1:30,000 scale for both MHW and MLLW were used to compile the MLLW and MHW lines. The MLLW infrared photographs were taken a year later than the compilation photography but enough common points were found to control the application of the MLLW line.

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 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 methods as described in item #31.

37 - LANDMARKS AND AIDS

Within the limits of this manuscript there were no landmarks and one non-floating aid. The one aid is a triangulation station.

TP-00799

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:
Seldovia (D-5), Alaska, scale 1:63,360, dated 1961
Seldovia (C-5), 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, 10th edition, dated Mar. 13, 1976
No. 16640, scale 1:200,00, 13th edition, dated May 25, 1974.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

Fay T Mauldin

Fay T. Mauldin
Cartographer
January 25, 1978

Approved:

James Byrd for

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

ADDENDUM TO COMPILATION REPORT

TP-00799

FIELD EDIT

NGS Position for Anchor Point Light is believed to be the old 1973 position; the light was rebuilt in 1975, and the 1975 position is correct.

Triangulation station Bob 1968 had no recovery card from Field Edit. Bob 1968 is located at Lat. 59°47'23.576" and Long. 151°51'22.538", but the Field Editor sent a Bob 1981 located at Lat. 59°28'06.30361" and Long. 151°29'05.69506". The Bob 1981 is located on TP-00812.

March 22, 1984

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP - 00799

Anchor Point

Anchor Point (locality)

Anchor River

Cook Inlet

Diamond Creek

Laida Spit

Travers Creek

Troublesome Creek

Approved by;

Charles E. Harrington

Charles E. Harrington
Chief Geographer
Nautical Charting Division

FIELD EDIT REPORT

OPR-P114-RA-81

CM-7412

TP-00799

ALASKA

SOUTHERN COOK INLET

ANCHOR POINT

1 FIELD UNIT

17 JUNE 1981 - 18 AUGUST 1981

(JD 168 - 230)

51. METHODS

Field edit of TP-00799 was accomplished between 17 June (168) and 18 August (230), by driving the beach and from a 16-foot skiff close inshore. Transportation consisted of two and three-wheeled vehicles with access to the beach at Anchor Point Light and Whiskey Gulch. Beach access by skiff was limited by the foul and unprotected nature of the beach. RAINIER skiff RA-7 (2127) was outfitted with Miniranger console 715 and used to delineate and locate offshore foul limits and rocks by range/azimuth methods. Similarly, RAINIER Launch RA-4 (2124) located rocks using Raydist equipment and range/range methods. Azimuths were provided by theodolite located over Third Order Class I shore stations. All position data has been plotted on the master ozalid with the appropriate correctors applied.

The photographs of this area are of limited usefulness due to poor tide coordination, poor clarity, and layout problems. Also, as the beach is subject to frequent changes, the compilation was dated. However, one rock was located on photographs NOS 11 JUN 76 ER-3964 and 3965, and an airfield was delineated on photograph NOS 09 JULY 75 ER-697.

All field edit was done at low or negative tides. Heights of rocks were estimated at close range. Heights are given in feet above the current water level, times are in UTC (Zulu), and the dates are Julian. All notes on the master field edit ozalid are color-coded as follows:

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

Landmarks and aids for charts were investigated from seaward.

Hydrographic Surveys H-9967 and H-9840 include all the shoreline within the limits of TP-00799. H-9967 was completed concurrently with the field edit on this sheet. H-9840 was completed in 1979.

52. ADEQUACY OF COMPILATION

The additions and deletions necessary to render TP-00799 complete and adequate are noted on the master field edit ozalid and photographs 3964, 3965, and 697. However, no detail or compilation inshore of the foul limits or MLLWL could be verified due to the lack of useful photographs and time limitations. All notes are self-explanatory. All compilation questions have been answered. The mean high water line was verified by visual inspection.

53. MAP ACCURACY

Due to frequent changes in beach topography, no feasible test of map accuracy was conducted. A taped distance to the MHWL was found from Station Pink and is noted on the ozalid.

54. RECOMMENDATIONS

It is recommended that TP-00799 be revised in accordance with the information presented herein.

Further, because of the extent of foul areas and offshore rocks and the volume of traffic around Anchor Point, it is recommended that new aerial photography be conducted and compiled to supplement this report.

56. MISCELLANEOUS

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

All triangulation stations within the limits of TP-00799 were visited. Recovery notes, descriptions, and other information are included in the separates following the text.

Respectfully submitted,

Roger A. Morin

for Franklin E. Ohlinger
LTJG, NOAA

Approved and forwarded,

Ralph J. Land

Ralph J. Land, CDR, NOAA
Commanding Officer

REVIEW REPORT
TP-00799
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. quadrangles:
Seldovia (D-5), Alaska, scale 1:63,360, dated 1961
Seldovia (C-5), Alaska, scale 1:63,360, dated 1961..

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with H-9958 dated January 26, 1983 and H-9997 dated Dec. 23, 1982. There were no major conflicts.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with 9th edition Chart 16640, 1:200,000 scale, dated May 25, 1974 and the 18th edition Chart 16640, 1:200,000 scale dated November 29, 1980. A comparison was also made with the 10th edition Chart 16645, 1:82,662 scale dated March 13, 1976 and the 14th edition Chart 16645, 1:82,662 scale, dated July 30, 1983. A comparison between these charts indicates that an offshore rock was added to current charts from the unreviewed Class III Chart Maintenance Print submitted to Marine Charts March 1978. The intended purpose of showing this offshore rock on the 1978 Chart Maintenance Print was to advise the Hydrographer of potential hazard. The Hydrographer was expected to determine whether or not the rock existed. It was never intended for charting purposes because the photointerpretation of the rock did not render positive identification. The field investigation of the rock revealed it to be nonexistent by the field editor at the time the hydrography was performed, July, 1981. The non-existent rock is annotated on the Final Map Chart Maintenance Print.

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-00799

Submitted by,

James L. Byrd, Jr.
Final Reviewer

Approved for forwarding,

Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved,

Chief, Photogrammetric Section,
Rockville

Chief, Photogrammetry Branch,
Rockville

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

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

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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)

☒ TO BE CHARTED
☐ TO BE REVISED
☐ TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
Coastal Mapping Unit AMC, Norfolk, VA	Alaska	Cook Inlet, East Side Cape Kasilof to Barren Is.	Jan.1982

The following objects HAVE ☒ HAVE NOT ☐ been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
OPR-P114	CM-7412	TP-00799	N.A. 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
LIGHT	(ANCHOR POINT LIGHT, 1975)	59 46	11.118	151 51	53.354	Not. Vis.	V-Vis 8-81	16643 16645

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	**NAME**	**ORIGINATOR**
OBJECTS INSPECTED FROM SEAWARD	R. Land	☐ PHOTO FIELD PARTY ☒ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED	F. Ohlinger	FIELD ACTIVITY REPRESENTATIVE
	W. Connally	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		☐ REVIEWER ☐ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

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

I. NEW POSITION DETERMINED OR VERIFIED

Enter the applicable data by symbols as follows:

F - Field	P - Photogrammetric
L - Located	Vis - Visually
V - Verified	
1 - Triangulation	5 - Field identified
2 - Traverse	6 - Theodolite
3 - Intersection	7 - Planetable
4 - Resection	8 - Sextant

A. Field positions* require entry of method of location and date of field work.

EXAMPLE: F-2-6-L
8-12-75

*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.

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

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

**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.

TYPE OF ACTION	NAMES OF RESPONSIBLE PERSONNEL	ORIGINATOR
POSITIONS DETERMINED AND/OR VERIFIED BY FIELD AND OFFICE ACTIVITIES	NO FIELD EDIT-CLASS III MAP K. BAKER NOT DIGITIZED G. FROMM	FIELD REPRESENTATIVE OFFICE COMPILER DIGITIZER DATA PROCESSER