T P - 00802

T P- 00802

NOAA FORM 76-35
(6-80)

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

DESCRIPTIVE REPORT

Map No. TP-00802	*Edition No.* 1
Job No. CM-7412	
Map Classification FINAL MAP - FIELD EDITED	
Type of Survey SHORELINE	

LOCALITY

State ALASKA

General Locality COOK INLET, EAST SIDE
CAPE KASILOF TO BARREN ISLANDS

Locality MOUTH OF KACHEMAK BAY

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- 00802

MAP EDITION NO. (1)

MAP CLASS : Final

JOB XX- CM-7412

PHOTOGRAMMETRIC OFFICE: Coastal Mapping Division, AMC, 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		
Aerotriangulation - South Sect.	Oct. 4, 1976		
Compilation - South Sect.	Aug. 2, 1979		

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	BY	S. Solbeck	Mar 1976
METHOD: Analytic (North half)	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 COMPILATION	PLANIMETRY BY	I. Perkinson	Jan 1977
	CHECKED BY	J. Byrd	Jan 1977
INSTRUMENT: Wild B-8	CONTOURS BY	N.A.	
SCALE: 1:20,000	CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	I. Perkinson	Mar 1977
	CHECKED BY	J. Byrd	Mar 1977
METHOD:	CONTOURS BY	N.A.	
	CHECKED BY	N.A.	
SCALE: 1:20,000	HYDRO SUPPORT DATA BY	I. Perkinson	Mar 1977
	CHECKED BY	J. Byrd	Mar 1977
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	J. Byrd	Mar 1977
6. APPLICATION OF FIELD EDIT DATA	BY	W. Connally/M. Mozgala	Jan/Mar 1982
	CHECKED BY	C. Blood	May 1982
7. COMPILATION SECTION REVIEW	BY	C. Blood	May 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-00803

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild RC 8E 152.71 mm
Wild RC 10Z 153.14 mm

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

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

TIDE STAGE REFERENCE
[XX] PREDICTED TIDES
[XX] REFERENCE STATION RECORDS
[XX] TIDE CONTROLLED PHOTOGRAPHY

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
75E(C)0017-0019*	Jul.5,1975	11:52	1:30,000	12.9 ft. above MLLW
75E(C)0058-0060*	Jul.5,1975	12:30	1:30,000	12.4 ft. above MLLW
75E(I)0911-0914*	Jul.9,1975	15:05	1:30,000	16.3 ft. above MLLW
75Z(C)7491-7492*	Aug.10,1975	13:40	1:30,000	16.6 ft. above MLLW
76E(I)4059-4061**	Jun.12,1976	08:50	1:30,000	1.95 ft. below MLLW
76E(I)3976-3978**	Jun.11,1976	08:40	1:30,000	0.94 ft. above MLLW
				Mean tide range 15.4 ft. Seldovia

REMARKS Bridge and/or compilation photograph centers are not shown on the manuscript. A tide gage was read at Seldovia during the time of infrared photograph exposure. The Mean High Water at Seldovia is 17.0 ft. above MLLW.

2. SOURCE OF MEAN HIGH-WATER LINE:

*The MHWL was compiled from office interpretation of the above listed 1:30,000 color photographs using stereo instrument methods. Compilation was supplemented by graphic methods using the MHW tide coordinated infrared (ratio) photographs.

Black and white ratio photographs 75 Z(C) 7491, 7492 were used graphically.

3. SOURCE OF ~~MEAN LOW-WATER~~ 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	EAST	SOUTH	WEST
TP-00800	TP-00806 TP-00804	TP-00807	TP-00802

REMARKS This TP sheet lies within the northeast area of TP-00802. The 1:5,000 scale TP-00806 lies within the east central area of this manuscript. There is not a MLLWL junction with the north side of TP-00806 which shows the MLLWL above MLLW.

*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-00802

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION

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

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS *(Clarification of details)*

N.A.

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)*

1 ea. Master field edit print (film)
2 ea. field edit reports

☆ 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-00802

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	None	
	LOCATED (*Field Methods*) BY	None	
	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
75E(C)0021	BLUFF POINT 2, R.M.4, 1956		

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

☆ 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-00802

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.	Mar. 7,1977	Class III Manuscript	Mar.13,1978	Feb.21,1980
Field edit applied, compilation complete.	May 1984	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
			None

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

III. FEDERAL RECORDS CENTER DATA

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

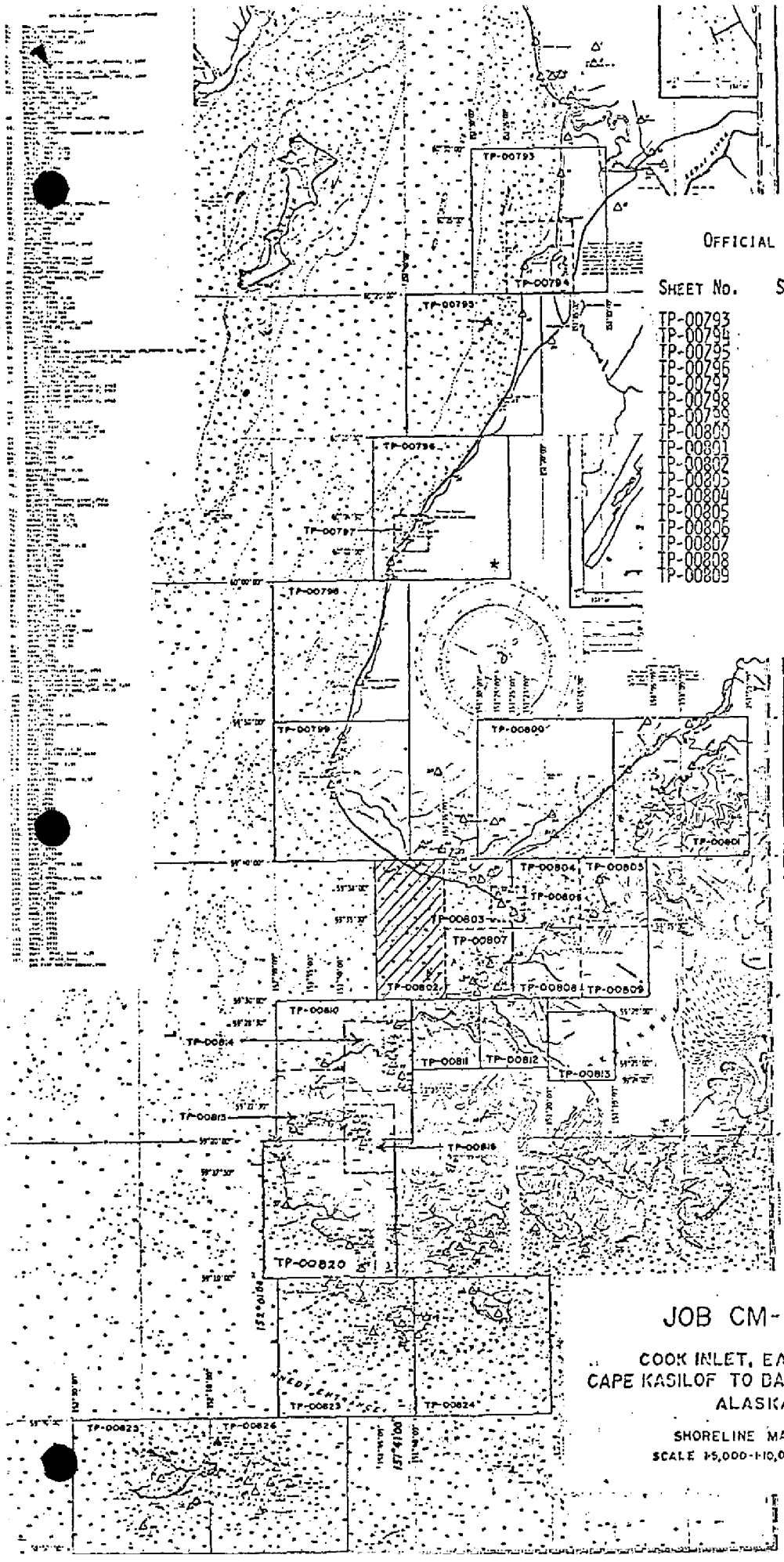
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

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

	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	9	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	14
TP-00804	2		
TP-00805	2		
TP-00806	6	TP-00823	
TP-00807	8	TP-00824	
TP-00808	8	TP-00825	
TP-00809	2	TP-00826	
		TOTAL	145

REVISED 9/23/76 2 sht
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-00802

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 North side of Kachemak Bay from longitude 151°35' west to longitude 151°45 including Bluff Point.

Field work prior to compilation consisted of the recovery and identification of the horizontal control necessary for the aero-triangulation of the project and establishing and monitoring tide gages while the photography was being taken for the tide coordinated infrared photographs. This activity was completed in August 1975.

Photographic coverage was adequately provided by natural color and infrared tide coordinated photographs. The RC-8 (E) camera was used to expose the natural color film required for the 1:30,000 scale aerotriangulation, compilation photographs taken July 1975. The RC-8 (E) camera was used for the infrared black and white 1:30,000 scale photographs taken July 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 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 March 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 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-00802

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.

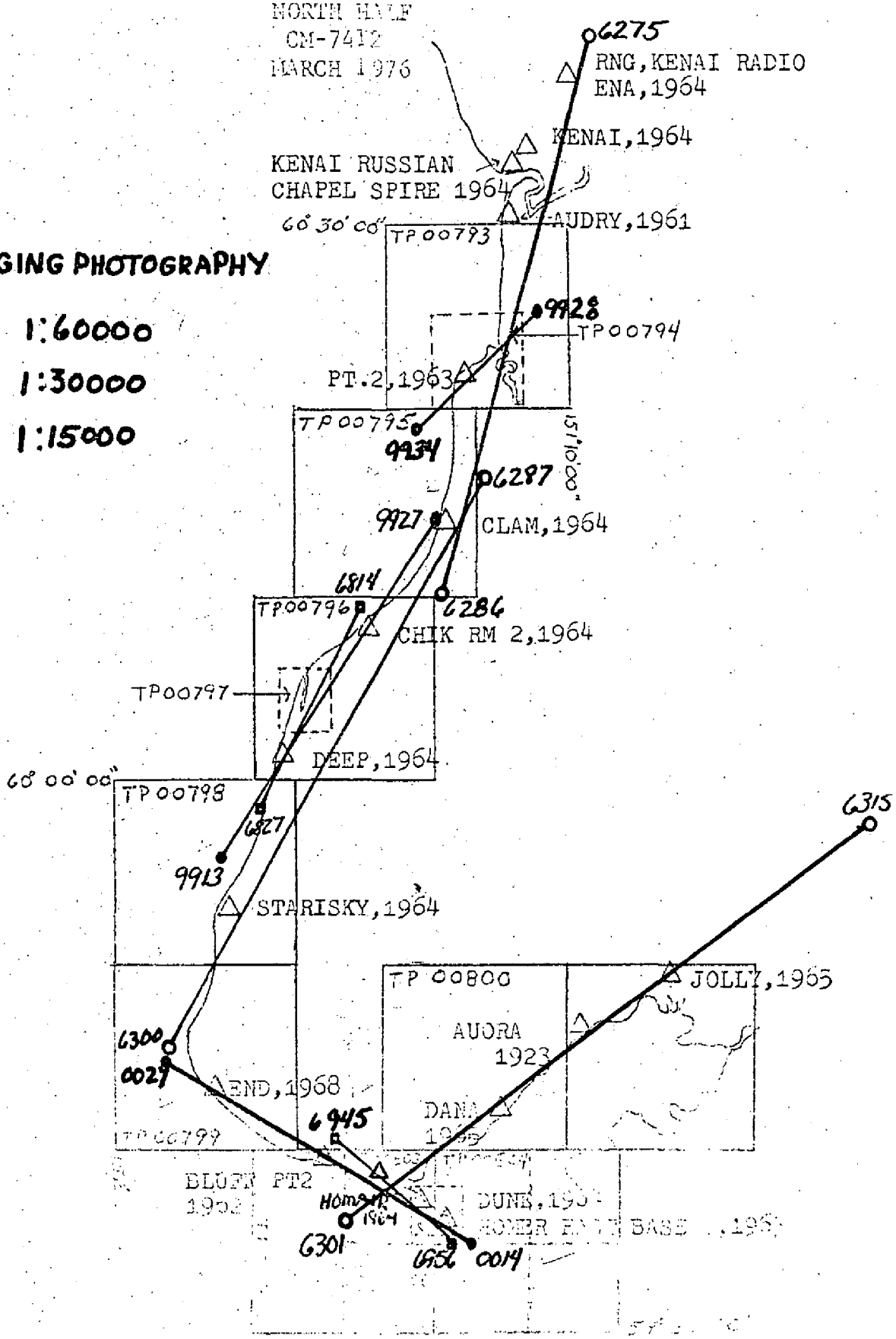
Respectfully submitted,

Stephen H. Solbeck

Approved and forwarded:

John D. Perrow, Jr.
Chief, Aerotriangulation Section

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

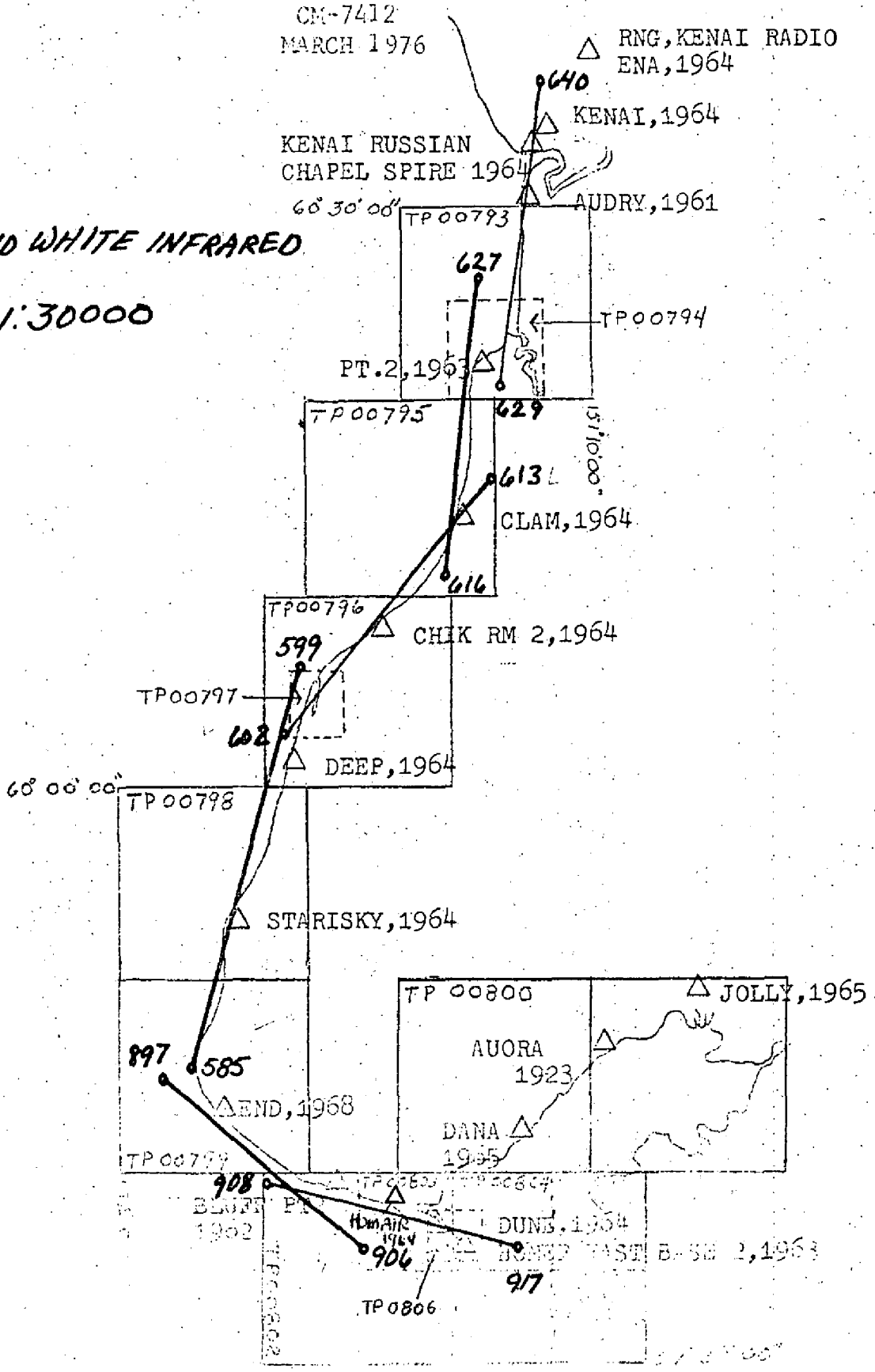


COLOR BRIDGING PHOTOGRAPHY

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

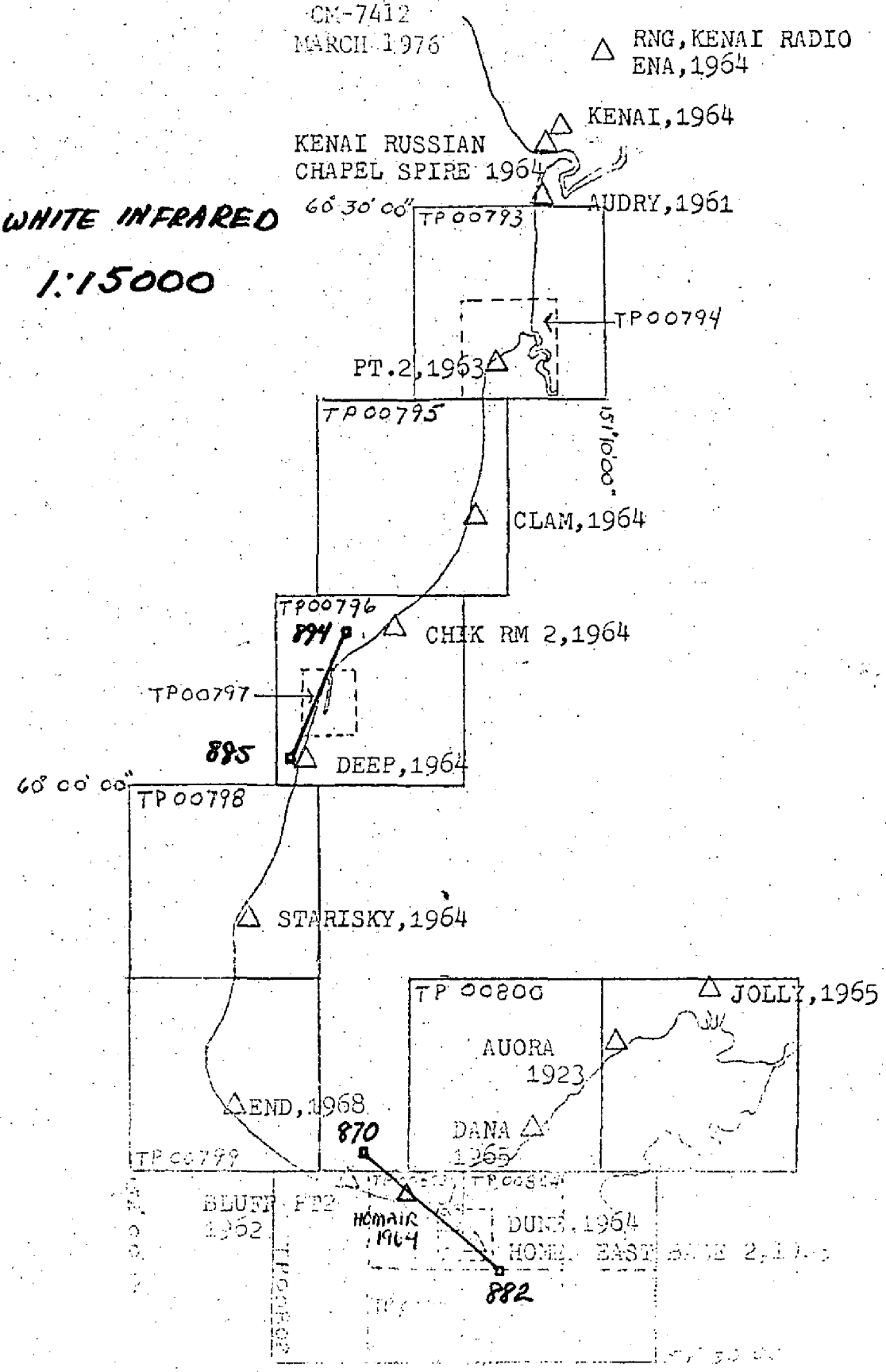
AEROTRIANGULATION SKETCH
COOK INLET, ALASKA
NORTH HALF
CM-7412
MARCH 1976

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



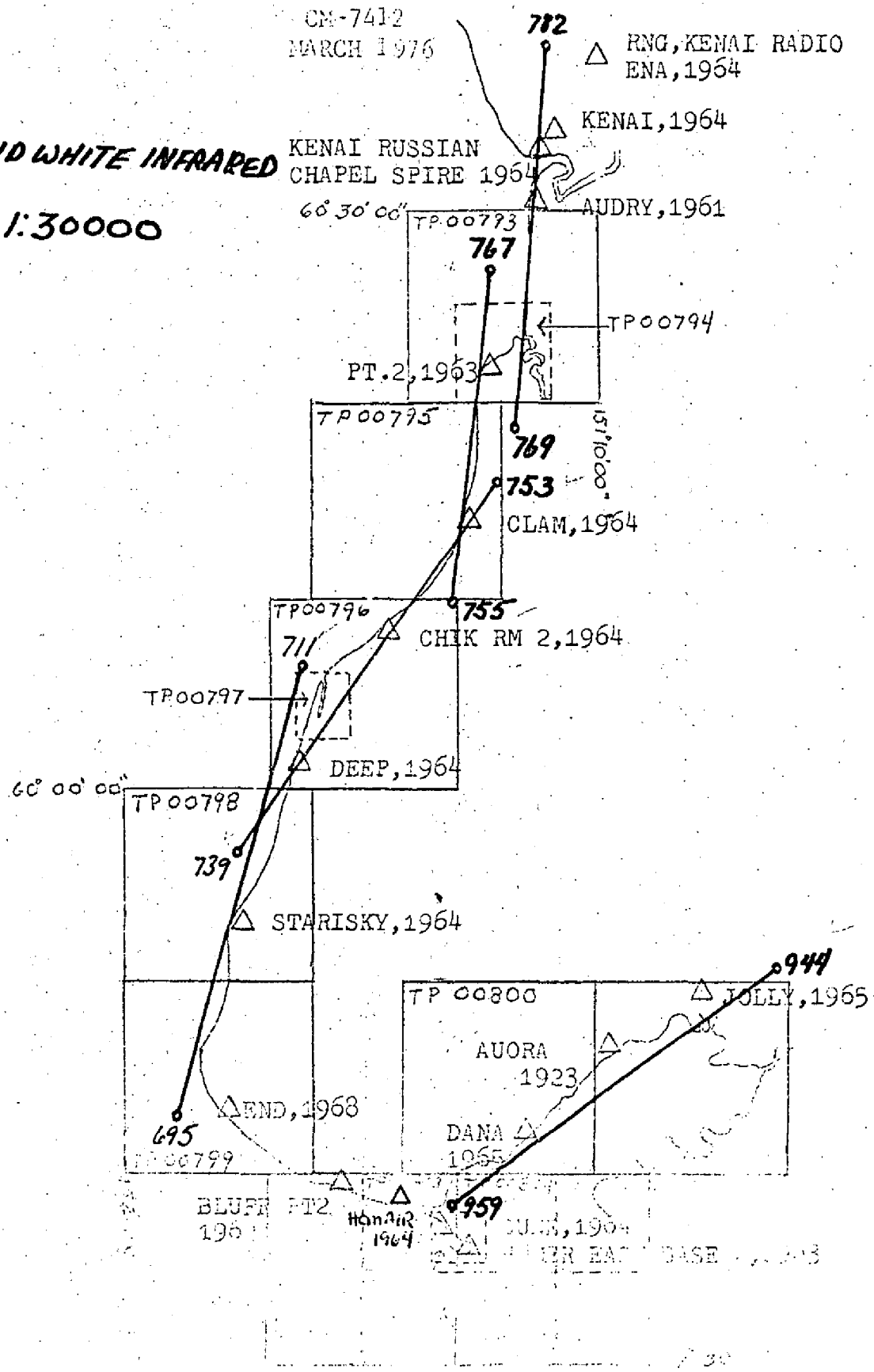
AEROTRIANGULATION SKETCH
COOK INLET, ALASKA
NORTH HALF
CM-7412
MARCH 1976

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



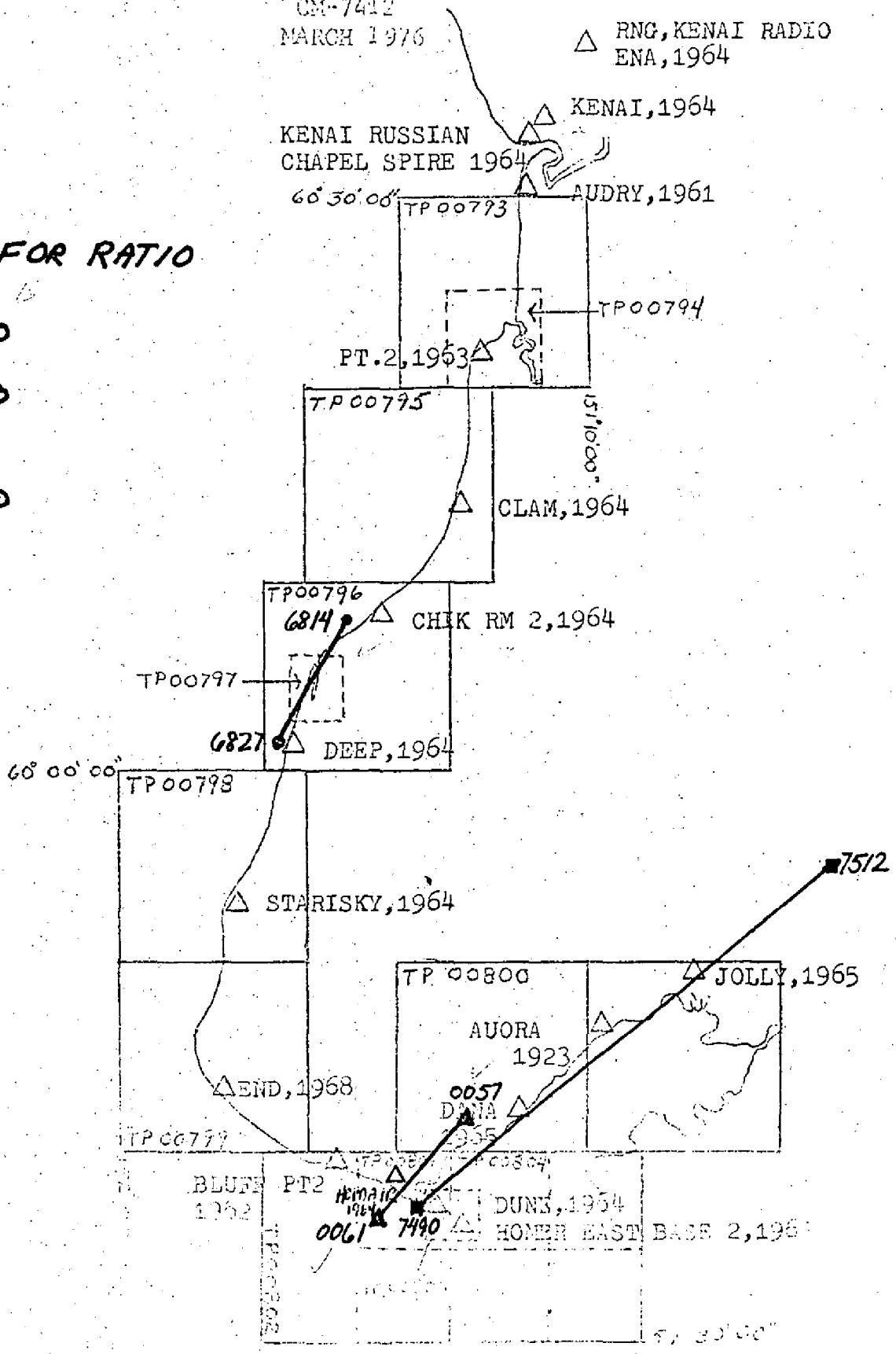
AEROTRIANGULATION SKETCH
COOK INLET, ALASKA
NORTH HALF
CM-7412
MARCH 1976

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



AEROTRIANGULATION SKETCH

COOK INLET, ALASKA
NORTH HALF
CM-7412
MARCH 1976



COLOR FOR RATIO
75 Z(c)
• 1:15000
■ 1:30000
75 E(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 4, 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 AERO LT 1956)	-6.364	-.260
	949802	(#9)	-1.658	-.083
	949803	(#9)	+.336	-.287
	17801	(#3)	-3.734	+2.154
	301101	(HOMAIR 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	+.125
	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
	917801	(#5)	+1.307	+1.566

			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-00802	CM-7412	N.A. 1927	Coastal Mapping Unit, AMC, Norfolk, VA

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET (STATE Alaska, ZONE 4)	GEOGRAPHIC POSITION (φ LATITUDE, λ LONGITUDE)	REMARKS
BLUFF POINT 2, R.M.4, 1956	Form 76-41 Bridge Control pg. 1	021101	x= 2,071,695.12 y= 192,527.54	φ λ	
BLUFF POINT 2, 1956	List of Control Homer to Soldotna	021100 AL pg. 1	x= y=	φ 59 39 37.64500 λ 151 39 44.97200	
			x= y=	φ λ	
			x= y=	φ λ	
			x= y=	φ λ	
			x= y=	φ λ	
			x= y=	φ λ	
			x= y=	φ λ	
			x= y=	φ λ	
			x= y=	φ λ	

COMPUTED BY	DATE	COMPUTATION CHECKED BY	DATE
A. C. Rauck, Jr.	6/8/76	F. Mauldin	6/17/76
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-00802

31 - DELINEATION

Delineation was accomplished by stereo instrument and graphic methods. The Wild B-8 stereoplotter was used to delineate alongshore and interior detail based upon office interpretation of the 1:30,000 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 MHW and MLLW lines. The MLLW infrared photographs were taken a year later than the compilation photography but enough common detail points to graphically control the application of the MLLW line were found.

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 or aids.

TP-00802

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 (C-4), 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:

Irene K. Perkinson
Cartographer
March 7, 1977

Approved:

J. Byrd, Jr.

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

ADDENDUM TO COMPILATION REPORT

TP-00802

The field edit for this sheet is complete. The rock symbol that was identified on this sheet at 59°39'10"N and 151°40'11"W, was searched for by Field Editor and by hydrographer; no such rock was found by either. The rock was removed from the Class I manuscript.

March 22, 1984

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP - 00802

Bidarki Creek

Bluff Point

Kachemak Bay

Approved by;

Charles E. Harrington

Charles E. Harrington
Chief Geographer
Nautical Charting Division

FIELD EDIT REPORT

OPR-P114-RA-81

CM-7412

TP-00802

ALASKA

SOUTHERN COOK INLET

BLUFF POINT

1 FIELD UNIT

17 JUNE 1981 - 17 JULY 1981

(JD 168 - 198)

51. METHODS

Field edit of TP-00802 was accomplished between 17 June (168) and 17 July (198) in conjunction with field edit on TP-00799. Beach transportation consisted of two and three-wheeled vehicles. Beach access was at Anchor Point Light and driving time to the area was 2½ hours. RAINIER Launch RA-4 (2124) was used to delineate offshore foul limits and locate rocks by range/range methods with Raydist equipment. All data has been corrected and plotted on the master field edit ozalid.

Photographs of this area were of limited usefulness and no data has been presented on them.

All field edit was done at negative tides by driving the beach or from the 29-foot launch. Heights are given in feet above the current water level, times are in UTC (Zulu), and dates are Julian. Heights of rocks were estimated at close range. The notes are color-coded as follows:

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

Landmarks/aids for charts were investigated from seaward.

Hydrographic Survey H-9958 includes all the shoreline within the limits of TP-00802. H-9958 was completed concurrently with field edit on this sheet.

52. ADEQUACY OF COMPILATION

The additions and deletions necessary to render TP-00802 complete and adequate are noted on the master field edit ozalid. All notes are self-explanatory.

No compilation inshore of the foul limits could be verified due to the lack of photographs and to the frequent topographic changes encountered on the foreshore. The mean high water line was verified by visual inspection. All compilation questions have been answered.

53. MAP ACCURACY

No formal test of map accuracy was conducted.

54. RECOMMENDATIONS

It is recommended that TP-00802 be revised in accordance with the information presented herein.

Further, because of the extent of offshore foul areas and rocks and the lack of verifiable foreshore compilation, 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 hydrographer. Any duplication of information was reviewed with only one source being retained.

All triangulation stations within the limits of TP-00802 were visited. Descriptions, recovery notes, and other information are included in the separates following the text.

Respectfully submitted,

Franklin E. Ohlinger
LTJG, NOAA

Approved and forwarded,

Ralph J. Land, CDR, NOAA
Commanding Officer

REVIEW REPORT
TP-00802
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 (C-4), 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-9877 dated Dec. 8, 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 and were removed from the Final Map.

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

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

TP-00802

Submitted by,

J. Byrd

James L. Byrd, Jr.
Final Reviewer

Approved for forwarding,

Billy H. Barnes

Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved,

John A. Murray

Chief, Photogrammetric Section,
Rockville

Ronald K. Brewer

Chief, Photogrammetry Branch,
Rockville

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. ____________

INSTRUCTIONS

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

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

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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