

T-12360

T 12360

<b>NOAA FORM 76-35</b> (6-80)		
<b>U.S. DEPARTMENT OF COMMERCE</b> NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY		
<b>DESCRIPTIVE REPORT</b>		
<i>Map No.</i> T-12360	<i>Edition No.</i> 1	
<i>Job No.</i> PH-6301 PART 2		
<i>Map Classification</i> FINAL MAP		
<i>Type of Survey</i> SHORELINE		
<b>LOCALITY</b>		
<i>State</i> ALASKA		
<i>General Locality</i> COOK INLET SOUTHERN PART		
<i>Locality</i> RIGHT ARM, NORTH OF		
<table border="1"><tr><td>1966 TO 19 79</td></tr></table>		1966 TO 19 79
1966 TO 19 79		
<b>REGISTERED IN ARCHIVES</b>		
<b>DATE</b>		

NOAA FORM 76-36A (3-72)	U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP. <u>12360</u>  MAP EDITION NO. (1) MAP CLASS Final Map JOB PH. <u>6301 pt 2</u>
DESCRIPTIVE REPORT - DATA RECORD			

PHOTOGRAMMETRIC OFFICE  Coastal Mapping Division, Norfolk, VA	LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED
OFFICER-IN-CHARGE  Jeffrey G. Carlen	JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__

I. INSTRUCTIONS DATED	
1. OFFICE	2. FIELD
Aerotriangulation      June 27, 1975 Compilation              Oct 9, 1975 "      Amend I              May 20, 1976 "      Amend II              Jan 28, 1977	

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 type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL	OTHER (Specify)
3. MAP PROJECTION  Transverse Mercator	4. GRID(S) STATE      ZONE Alaska      5
5. SCALE 1:20,000	STATE      ZONE

III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION      BY METHOD: Analytic      LANDMARKS AND AIDS BY	S. Solbeck	Sept 1975
2. CONTROL AND BRIDGE POINTS      PLOTTED BY METHOD: Coradomat      CHECKED BY	S. Solbeck "	Sept 1975 "
3. STEREOSCOPIIC INSTRUMENT      PLANIMETRY BY COMPILATION      CHECKED BY INSTRUMENT: Wild B-8      CONTOURS BY SCALE: 1:20,000      CHECKED BY	F. Mauldin L. Neterer, Jr. N.A. N.A.	Dec 1978 " -- --
4. MANUSCRIPT DELINEATION      PLANIMETRY BY CHECKED BY METHOD: Smooth drafted      CONTOURS BY CHECKED BY SCALE: 1:20,000      HYDRO SUPPORT DATA BY CHECKED BY	J. Moler C. Blood N.A. N.A. J. Moler C. Blood	Jan 1979 Feb 1979 -- -- Jan 1979 Feb 1979
5. OFFICE INSPECTION PRIOR TO FIELD EDIT      BY	"	"
6. APPLICATION OF FIELD EDIT DATA      BY CHECKED BY	I. Perkinson J. Roderick	Dec 1979 Jan 1980
7. COMPILATION SECTION REVIEW      BY	"	"
8. FINAL REVIEW      BY	C. Blood/J. Byrd	Dec 1986
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH      BY	J. Byrd	Jan 1987
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH      BY	E. P. Dempsey	Feb. 1987
11. MAP REGISTERED - COASTAL SURVEY SECTION      BY	E. L. DAUGHERTY	APR '87

T-12360  
**COMPILATION SOURCES**

**1. COMPILATION PHOTOGRAPHY**

CAMERA(S) Wild RC-8"E" FL=152.71mm Wild RC-9"M" FL=88.20mm		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Alaska <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	
				MERIDIAN 150th	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
70E(C) 7211, 212, 7215, 216*	July 25,70	11:46	1:40,000	5.0 ft above MLLW	
70E(C) 7362, 7363**	"	14:06	1:20,000	4.6 "	
70M(P) 252-255	July 20,70		1:60,000	No tide data	

REMARKS \*Compilation photography \*\*Hydro photography \*\*\*Bridged photography

**2. SOURCE OF MEAN HIGH-WATER LINE:**  
\*=The mean high water line was compiled from the compilation photography.

**3. SOURCE OF ~~MEAN LOW-WATER~~ OR MEAN LOWER LOW-WATER LINE:**  
None compiled.

**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
No survey	T-12361	*T-12317 PH6301 Pt 1	T-12359

REMARKS  
\*The junction between T-12360 and T-12317 was not made due to the lack of adequate photocoverage for sheet T-12360.

T-12360  
**HISTORY OF FIELD OPERATIONS**

1.  FIELD INSPECTION OPERATION  FIELD EDIT OPERATION  
INSPECTION premarking

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	E. Taylor	June 1970
2. HORIZONTAL CONTROL	RECOVERED BY: None ESTABLISHED BY: E. Taylor PRE-MARKED OR IDENTIFIED BY: J.S.M., D.C.S., R.C.R.	-- June 1970 "
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 <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: None	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
Premarked		None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
70M-252	CLEAR, 1970		

3. PHOTO NUMBERS (Clarification of details)  
None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  
None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES:  REPORT  NONE  
 6. BOUNDARY AND LIMITS:  REPORT  NONE

7. SUPPLEMENTAL MAPS AND PLANS  
None

8. OTHER FIELD RECORDS (Sketch books, etc. **DO NOT** list data submitted to the Geodesy Division)  
 1-form 152 with field contact photo 70M-252 and 1 Geodetic Traverse Report, Pathfinder, 1970.

T-12360

HISTORY OF FIELD OPERATIONS

I. <input type="checkbox"/> FIELD INSPECTION OPERATION		<input checked="" type="checkbox"/> FIELD EDIT OPERATION	
OPERATION	NAME	DATE	
1. CHIEF OF FIELD PARTY	A. Patrick	July 1979	
2. HORIZONTAL CONTROL	RECOVERED BY	None	
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	None	
3. VERTICAL CONTROL	RECOVERED BY	None	
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED ( <i>Triangulation Stations</i> ) BY	None	
	LOCATED ( <i>Field Methods</i> ) BY	None	
	IDENTIFIED BY	M. Willis	July 1979
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input checked="" type="checkbox"/> NO INVESTIGATION		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	M. Willis	July 1979
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.	
<b>II. SOURCE DATA</b>			
1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
None		None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS ( <i>Clarification of details</i> )			
70E(C) 7363			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS			
None			
8. OTHER FIELD RECORDS ( <i>Sketch books, etc. DO NOT list data submitted to the Geodesy Division</i> )			
1 Field Edit Report, 1 film field edit ozalid, 1 paper field edit ozalid			

**I. MANUSCRIPT COPIES**

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	Jan 1979	Class III manuscript	Mar 5, 1979	Mar 5, 1979
Field edit applied compilation complete	Dec 1979	Class I manuscript	Jan 29, 80	Jan 29, 80
Final Review	Nov 1986	Final Map	2-11-87	

**II. LANDMARKS AND AIDS TO NAVIGATION** None

**1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH**

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

2.  REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: None
3.  REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: None

- III. FEDERAL RECORDS CENTER DATA**
1.  BRIDGING PHOTOGRAPHS;  DUPLICATE BRIDGING REPORT;  COMPUTER READOUTS.
2.  CONTROL STATION IDENTIFICATION CARDS;  FORM NOS <sup>76-40</sup> ~~XXX~~ SUBMITTED BY FIELD PARTIES.
3.  SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:
4.  DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: \_\_\_\_\_

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

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



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

T-12360

This 1:20,000 scale Final shoreline map is one of nineteen 1:20,000 scale maps designated as project PH-6301 Part II, Southern Part, Cook Inlet, Alaska.

The purpose of this map was to provide contemporary shoreline in support of hydrographic operations and to aid in chart revision.

Field work prior to compilation during the 1970 field season consisted of recovery and premarking of horizontal control for aerotriangulation.

This map area was photographed in July 1970 with the RC-9 "M" camera at 1:60,000 scale using panchromatic film. The map area was also photographed in July 1970 with the RC-8 "E" camera at 1:40,000 and 1:20,000 scale using color film.

Aerotriangulation was completed at the Washington office in June 27, 1975.

This map was compiled at the Norfolk office in February 1979.

Field edit was acquired for T-12360 during the 1979 field season. Field edit was applied at AMC in January 1980.

Final review was accomplished at the Atlantic Marine Center in December 1986. 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

T-12360

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and premarking of the horizontal control necessary for the aerotriangulation of the project.

Photogrammetric Plot Report  
Cook Inlet, Alaska  
PH-6301

21. Area Covered

The area covered by this report is the western shoreline along Cook Inlet, Alaska, from Chinita Bay to Tuxedni Bay. This area is covered by 13 1:20,000 sheets; T-12349, T-12351-12362.

22. Method

Three strips of 1:60,000 scale black-and-white panchromatic photography were bridged by analytic aerotriangulation methods.

Common points were located on the bridging photography and the 1:20,000 color photography being used for ratio purposes. In addition, common points were located on the bridging and 1:30,000 photography being used for compilation. Tie points were used on all three strips to insure an adequate junction of all photography during the strip adjustment. Ratio prints were ordered. The T-sheet manuscripts were plotted on the Coradomat.

23. Adequacy of Control

Control checked within map accuracy standards, but due to the fact that this area is within the 1964 earthquake zone, some local stations could have moved.

Station F00, 1970, could not be held in the strip adjustment and this is believed to be the cause.

On September 3, 1975, Geodesy informed this office that not enough data was available to make any significant changes on the horizontal control in this area.

24. Supplemental Data

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

25. Photography

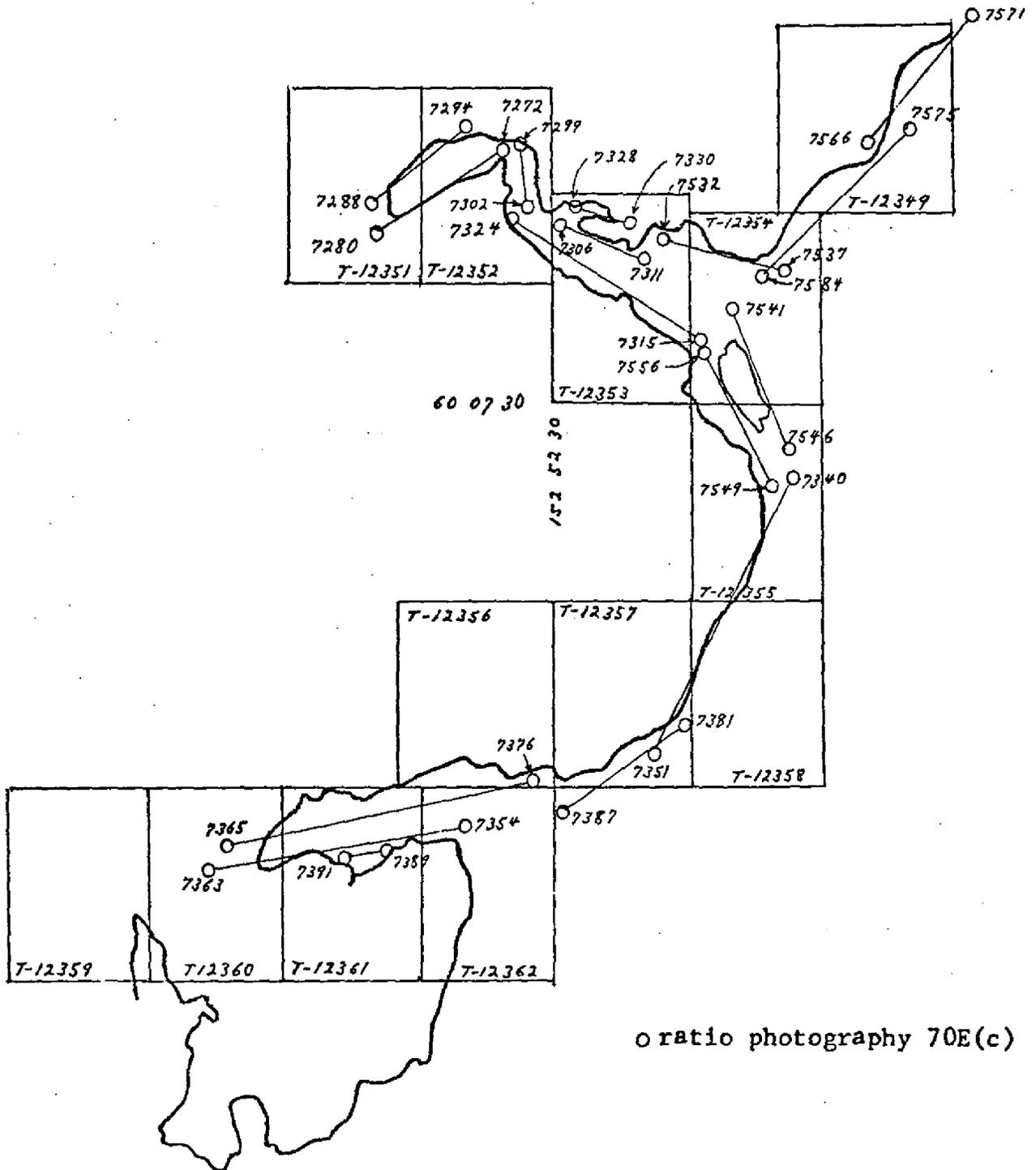
The coverage, overlap, and quality of the photography was adequate for the job.

Submitted by,  
*Stephen H. Solbeck*  
Stephen H. Solbeck

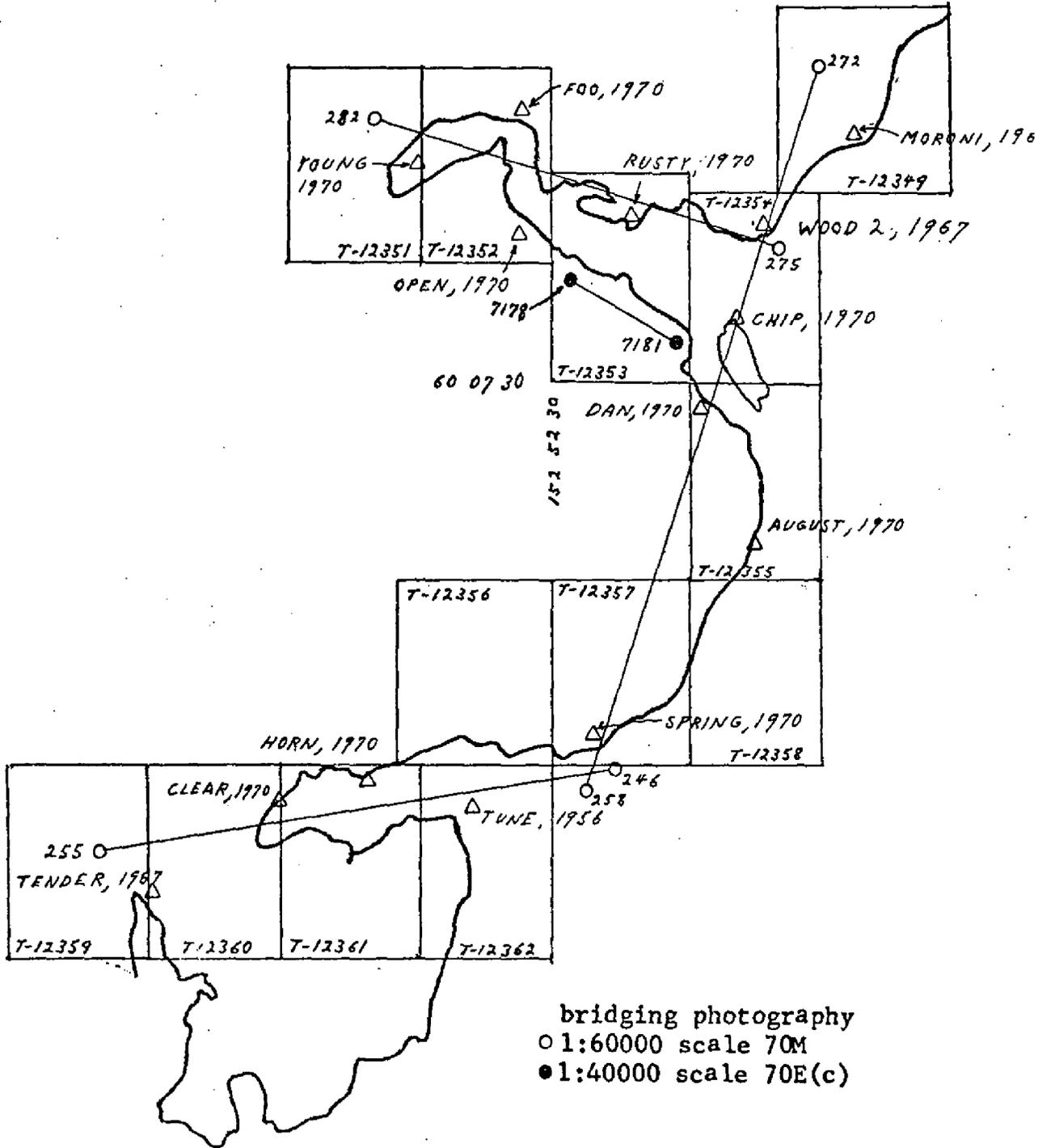
Approved and forwarded:  
*John D. Perrow, Jr.*  
John D. Perrow, Jr.  
Chief, Aerotriangulation Section

29 SEP 75

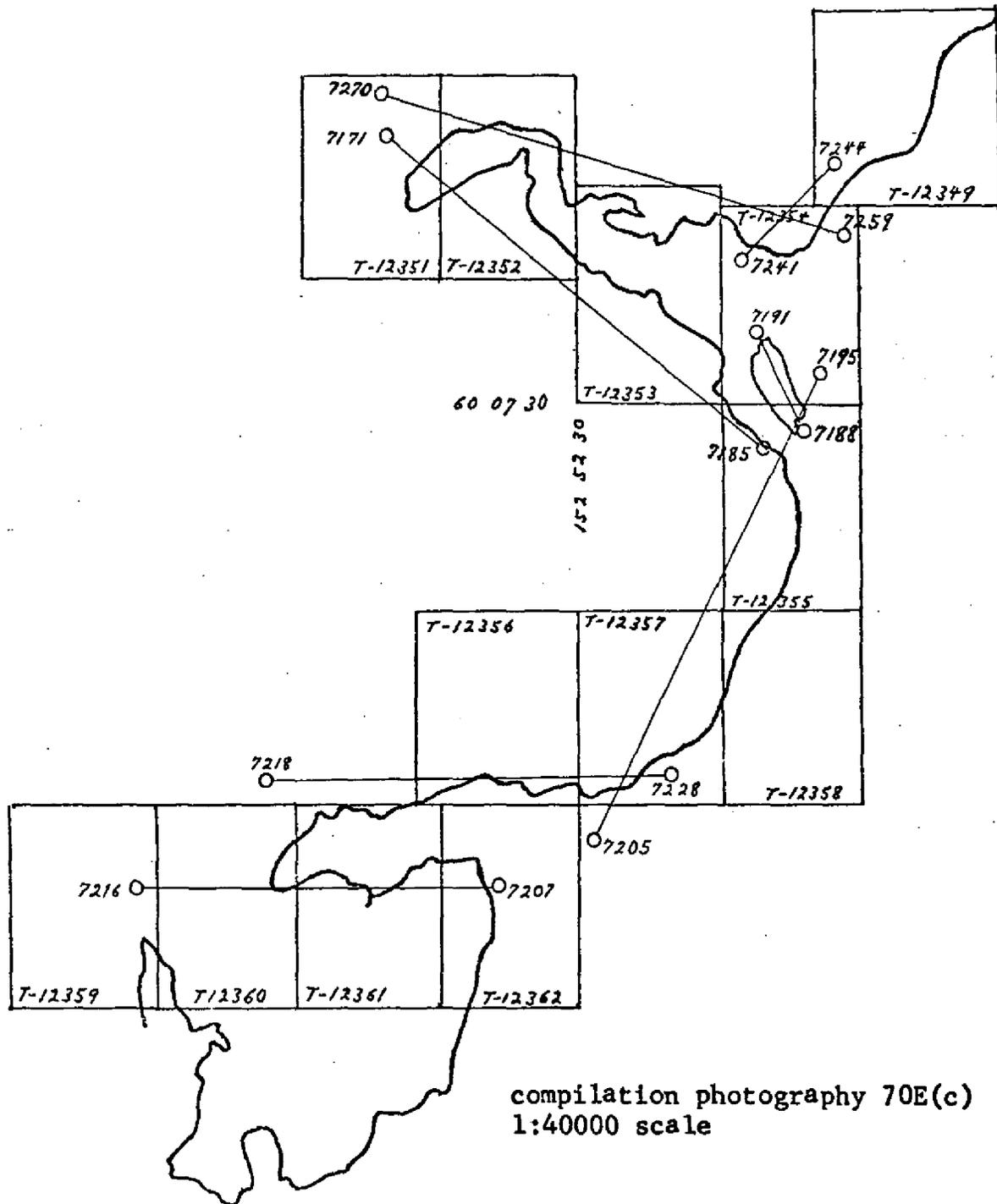
AEROTRIANGULATION SKETCH  
 COOK INLET ALASKA  
 PART-2  
 PH-6301  
 September, 1975



AEROTRIANGULATION SKETCH  
COOK INLET ALASKA  
PART-2  
PH-6301  
September, 1975



AEROTRIANGULATION SKETCH  
COOK INLET ALASKA  
PART-2  
PH-6301  
September, 1975



DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETTIC DATUM		ORIGINATING ACTIVITY	
		PH-6301 Part 2	N.A.S. 1927	Coastal Mapping Div. AMC	
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET		REMARKS
			STATE Alaska	ZONE 5	
CLEAR, 1970	Geodetic Traverse Report 1970 Pathfinder	Aero 252100	X=	$\phi$ 59 50' 18.738"	
			Y=	$\lambda$ 153 15' 25.687"	
SKIN, (no date)	Unadjusted field position, Form 28D, page 1	#12	X=	$\phi$ 59 45' 07.134"	
			Y=	$\lambda$ 153 24' 46.093"	
			X=	$\phi$	
			Y=	$\lambda$	
			X=	$\phi$	
			Y=	$\lambda$	
			X=	$\phi$	
			Y=	$\lambda$	
			X=	$\phi$	
			Y=	$\lambda$	
			X=	$\phi$	
			Y=	$\lambda$	
			X=	$\phi$	
			Y=	$\lambda$	
			X=	$\phi$	
			Y=	$\lambda$	
			X=	$\phi$	
			Y=	$\lambda$	
COMPUTED BY	A. C. Rauck, Jr.	DATE	COMPUTATION CHECKED BY		DATE
LISTED BY		DATE	LISTING CHECKED BY		DATE
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE

## COMPILATION REPORT

T-12360

31 - DELINEATION

Delineation was accomplished by using the Wild B-8 stereoplotter with 1:40,000 scale photography. The manuscript was not covered by photography in the southwest corner, thus the area was not delineated. Otherwise photography was adequate.

32 - CONTROL

See the attached Photogrammetric Plot Report, dated September 29, 1975.

33 - SUPPLEMENTAL DATA

None

34 - CONTOURS AND DRAINAGE

Contours are not applicable to the project. Drainage was delineated by using the Wild B-8 stereoplotter from compiler's interpretation of the photographs.

35 - SHORELINE AND ALONGSHORE DETAILS

Alongshore details were delineated using the Wild B-8 stereoplotter from compiler's interpretation of the photographs.

The mean high water line was graphically edited and refined from the ratioed photographs.

36 - OFFSHORE DETAILS

None

37 - LANDMARKS AND AIDS

There were no landmarks or aids within the limits of this manuscript noted during compilation.

38 - CONTROL FOR FUTURE SURVEYS

None

T-12360

39 - JUNCTIONS

See the attached Form 76-36B, item #5 of the Descriptive Report concerning junctions. Junctions are in agreement.

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report, dated September 29, 1975.

46 - COMPARISON WITH EXISTING MAPS

A comparison has been made with the U. S. Geological Survey Quadrangle: ILIAMNA (D-1), Alaska, scale 1:63,360, dated 1958.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the National Ocean Survey chart: No. 16640, scale 1:200,000 dated May 25, 1974, 13th ed.

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  
Date: January 30, 1979

Approved:

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

Feb. 6, 1987

## GEOGRAPHIC NAMES

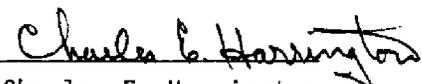
## FINAL NAME SHEET

PH-6301 (Cook Inlet, Alaska-Part 2)

T-12360

Chinitna River  
Clearwater Creek  
Marsh Creek  
Trail Creek

Prepared by:

  
Charles E. Harrington  
Staff Geographer

## FIELD EDIT REPORT

Map T-12360

Right Arm, North of

July, 1979

DESCRIPTION

At tides over 16 feet the mouth of the creek is navigable with small craft. After entering the channel, the creek is very navigable with channel depths of 4-8 feet. Saltwater intrusion and tidal effect stops within 0.5 miles of the mouth of the creek. Local residents refer to this drainage as "Clear Creek". The limit of investigation and motorized navigation is shown on the discrepancy print.

METHOD

Field edit was done with a zodiac, not on foot, due to the extensive marsh area and frequency of Kodiak bears; 9 bears were seen within 2 hours. One photo identifiable rock outcropping was noted on the discrepancy print and depicted on the corresponding photograph.

ADEQUACY AND COMPLETENESS OF COMPILATION

Compilation of the manuscript was adequate. Isolated sand bar development was evident at some creek bends. but was not significant. All marsh and scattered pond delineation was as per the photos.

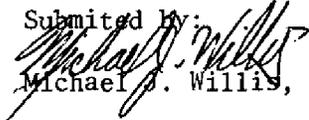
MANUSCRIPT ACCURACY

The manuscript, as compiled, compared very well with the area inspected.

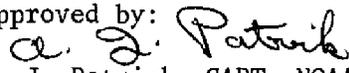
RECOMMENDATION

This manuscript should be accepted for charting purposes after the corrections have been made.

Submitted by:

  
Michael S. Willis, ENS, NOAA

Approved by:

  
A. J. Patrick, CAPT, NOAA  
Commanding Officer  
NOAA Ship Fairweather

REVIEW REPORT T-12360  
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

Not applicable.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison with Hydrographic Survey was not made. The area of this map is not covered by a Hydrographic Survey.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with NOS chart 16640, scale 1:200,000, dated April 23, 1983.

The chart compared well with this manuscript.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Submitted by

*B. H. Barnes for*  
James L. Byrd, Jr.  
Final Reviewer

Approved for forwarding

*Billy H. Barnes*  
Billy H. Barnes  
Chief, Photogrammetric Section, AMC

Approved

*Oct. J. O. Ralston, Jr.* Chief, Photogrammetric Production Sect.      *D. V. Boyer* Chief, Photogrammetry Branch

