

T-12357

T- 12357

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. T-12357	Edition No. 1
Job No. PH-6301 PART 2	
Map Classification FINAL MAP	
Type of Survey SHORELINE	
LOCALITY	
State ALASKA	
General Locality COOK INLET SOUTHERN PART	
Locality RED RIVER	
19 ₆₆ TO 19 ₇₉	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
DESCRIPTIVE REPORT - DATA RECORD		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, Norfolk, VA		SURVEY TP. <u>12357</u> MAP EDITION NO. <u>Q1</u> MAP CLASS <u>Final map</u> JOB <u>PH- 6301 Part 2</u>	
OFFICER-IN-CHARGE Jeffrey G. Carlén		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB <u>PH- _____</u> MAP CLASS <u>_____</u> SURVEY DATES: 19 <u> </u> TO 19 <u> </u>	
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		Lloyd	Oct 1975
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY		Lloyd	Oct 1975
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 SCALE: 1"20,000 CONTOURS BY		C. Blood	Jul 1978
4. MANUSCRIPT DELINEATION PLANIMETRY BY METHOD: smooth drafted CHECKED BY SCALE: 1:20,000 CONTOURS BY CHECKED BY HYDRO SUPPORT DATA BY		N.A. N.A. C. Blood L.O. Neterer, Jr. N.A. N.A. C. Blood	-- -- Aug 1978 Aug 1978 -- -- July 1978
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		L.O. Neterer, Jr.	Aug 1978
6. APPLICATION OF FIELD EDIT DATA BY		I. Perkinson	Dec 1979
7. COMPILATION SECTION REVIEW BY		F. Margiotta	Jan 1980
8. FINAL REVIEW BY		C. Blood/J. Byrd	Nov 1986
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		J. Byrd	Jan 1987
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		P. Dempsey	Feb. 1987
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		E. L. DAUGHERTY	APR '87

T-12357
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8"E" f1=152.71mm Wild RC9"M" f1= 88.20mm		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE	
<input checked="" type="checkbox"/> PREDICTED TIDES				10th <input checked="" type="checkbox"/> STANDARD	
<input type="checkbox"/> REFERENCE STATION RECORDS				MERIDIAN	
<input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				150th <input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
70E(C) 7201-7204*	July 25, 70	11:38	1:40,000	5.1 ft above MLLW	
70E(C) 7225, 7226*	"	11:56	1:40,000	4.3 "	
70E(C) 7350-7351 **	"	14:00	1:20,000	4.3 "	
70E(C) 7381-7386 **	"	14:23	1:20,000	4.9 "	
70E(C) 7377-7380**	"	14:15	1:20,000	4.8 "	
70M(P) 258-262***	Jul 20, 70		1:60,000	No tide data	

REMARKS * Compilation photography ** hydro support photography *** bridge photography

2. SOURCE OF MEAN HIGH-WATER LINE:

* The mean high water line was compiled from the above compilation photography.

3. SOURCE OF MEAN 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-12358	No survey	T-12356

REMARKS

* Area foul with rocksand kelp extend south of manuscript T-12357.

T-12357

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION Premarking ☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	E. Taylor	June 1970
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None E. Taylor J.B.M.
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	N.A. N.A. N.A.
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None None None
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

Premarked

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
70M-258	SPRING, 1970		
70M-246	" "		

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)

1-form 152, and 1-geodetic traverse report, pathfinder, 1970

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-12357
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	A. Patrick	June 1979
2. HORIZONTAL CONTROL	RECOVERED BY R. Speer	"
	ESTABLISHED BY R. Speer	"
	PRE-MARKED OR IDENTIFIED BY None	
3. VERTICAL CONTROL	RECOVERED BY None	
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None	
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY L. Roberts	June 1979
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
		None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
70E(C) 7382	Red 1979		

3. PHOTO NUMBERS (Clarification of details)

25 Jul 70E(C) 7381, 7382, 7385, and 7386.

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)

Field edit report, form 76-40 (submit field position control on this form not aids and landmarks), field edit ozalid film, field edit ozalid paper.

I. MANUSCRIPT COPIES				
COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	Aug 1, 78	Class III manuscript	Aug 29, 78	Aug 29, 78
Field edit applied compilation complete	Dec 1979	Class I manuscript		
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: _____
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 NO. 76-364 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
X 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	

PROJECT PH-6301

(PART-2)

SHORELINE MAPPING

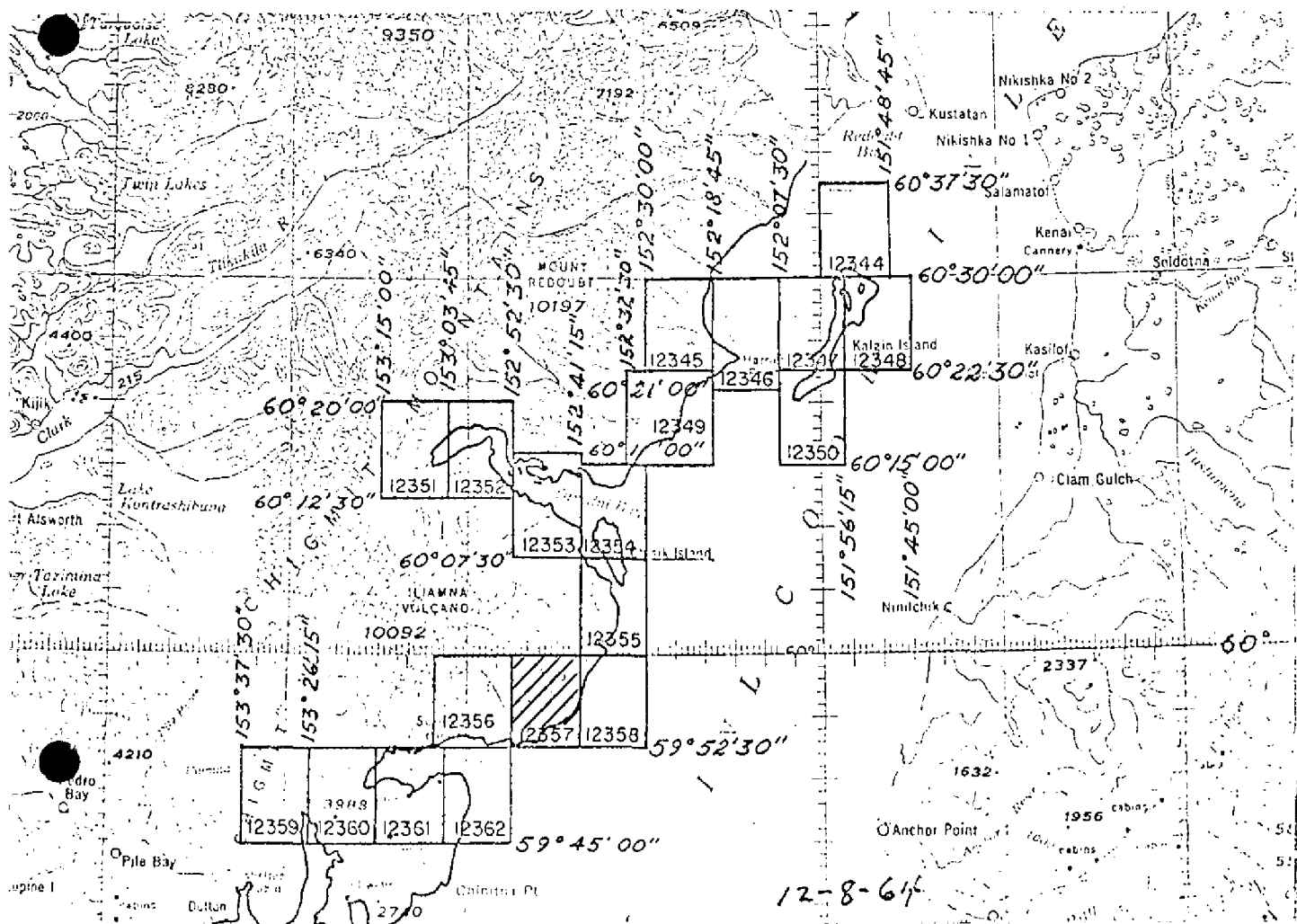
Scale 1:20000
ALASKA

COOK INLET

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Area Sq. Mile	Lin. Mile Shoreline	Sheet No.	Area Sq. Mile	Lin. Mile Shoreline
T-12344	2	4	T-12354	11	22
T-12345	3	6	T-12355	8	16
T-12346	3	6	T-12356	3	6
T-12347	8	16	T-12357	7	14
T-12348	4	8	T-12358	2	4
T-12349	5	10	T-12359	3	6
T-12350	4	9	T-12360	4	7
T-12351	4	9	T-12361	10	19
T-12352	10	21	T-12362	4	8
T-12353	11	22			

Totals - Area 106 sq. mile; Shoreline 213 sq. mile



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

T-12357

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 August 1978.

Field edit was acquired for T-12357 during the 1979 field season. Field edit was applied at AMC in January 1980.

Final review was accomplished at the Atlantic Marine Center in November 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-12357

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 1:40,000 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

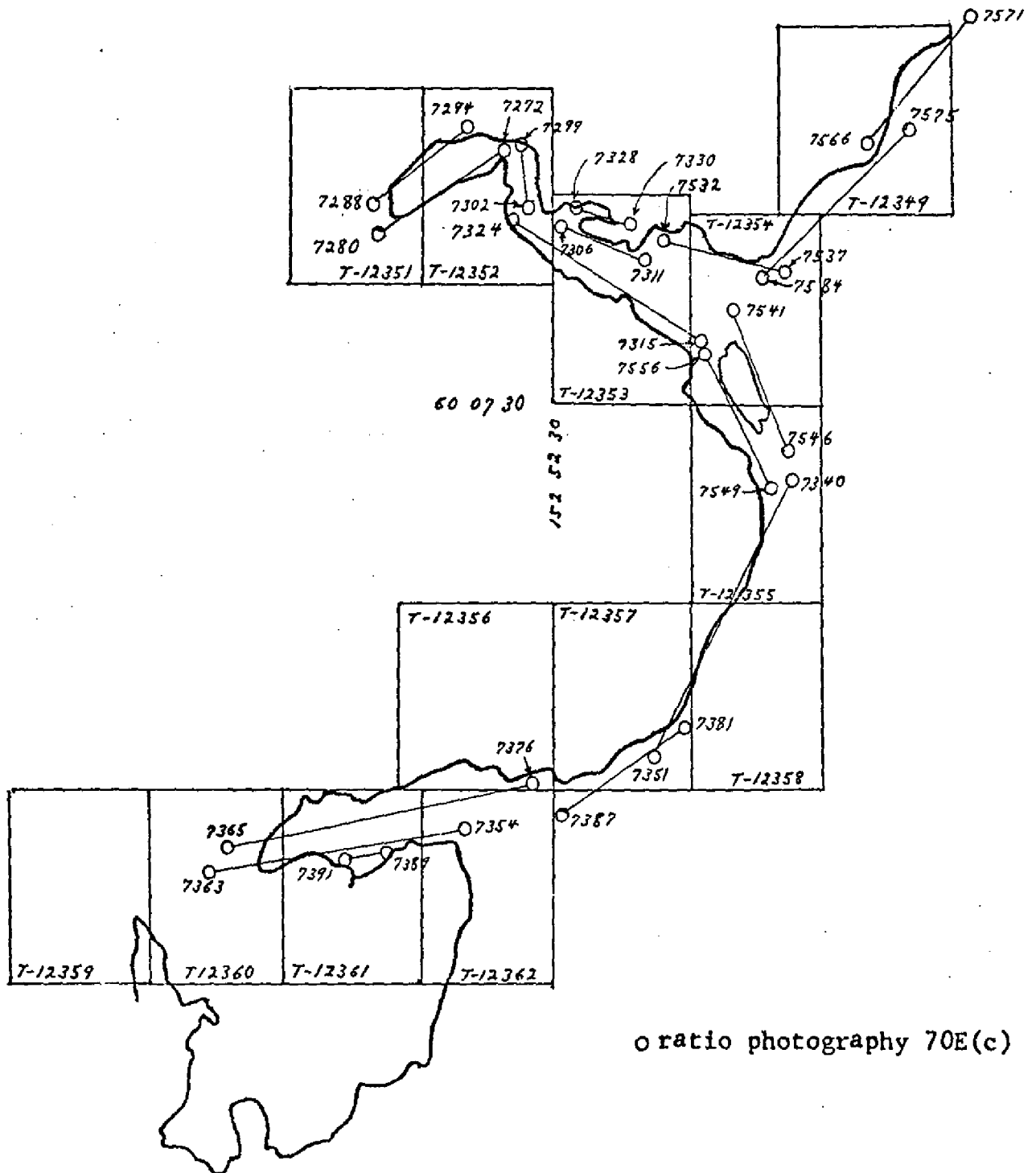
Approved and forwarded:

John D. Perrow, Jr.
John D. Perrow, Jr.

Chief, Aerotriangulation Section

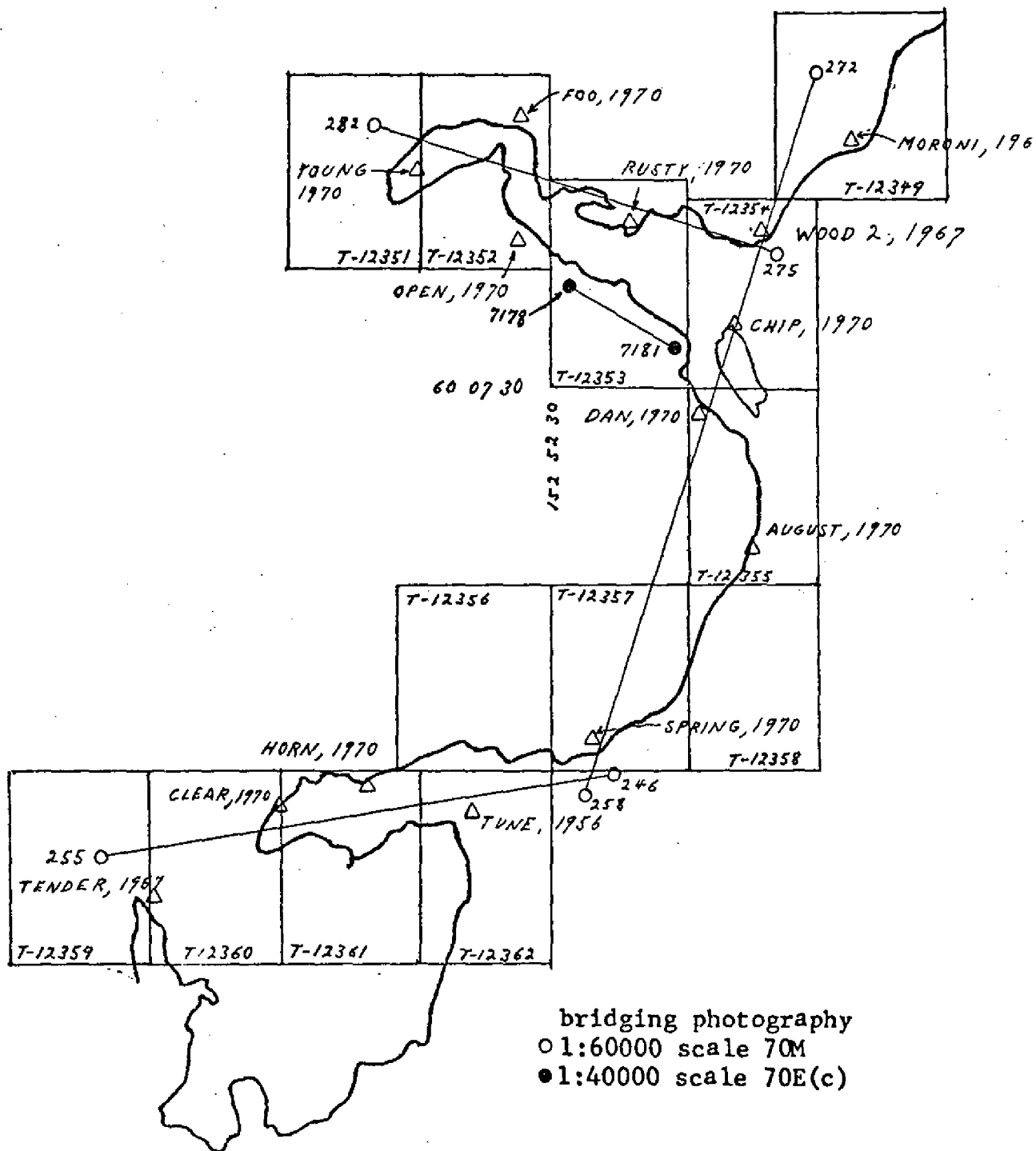
29 SEP 75

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

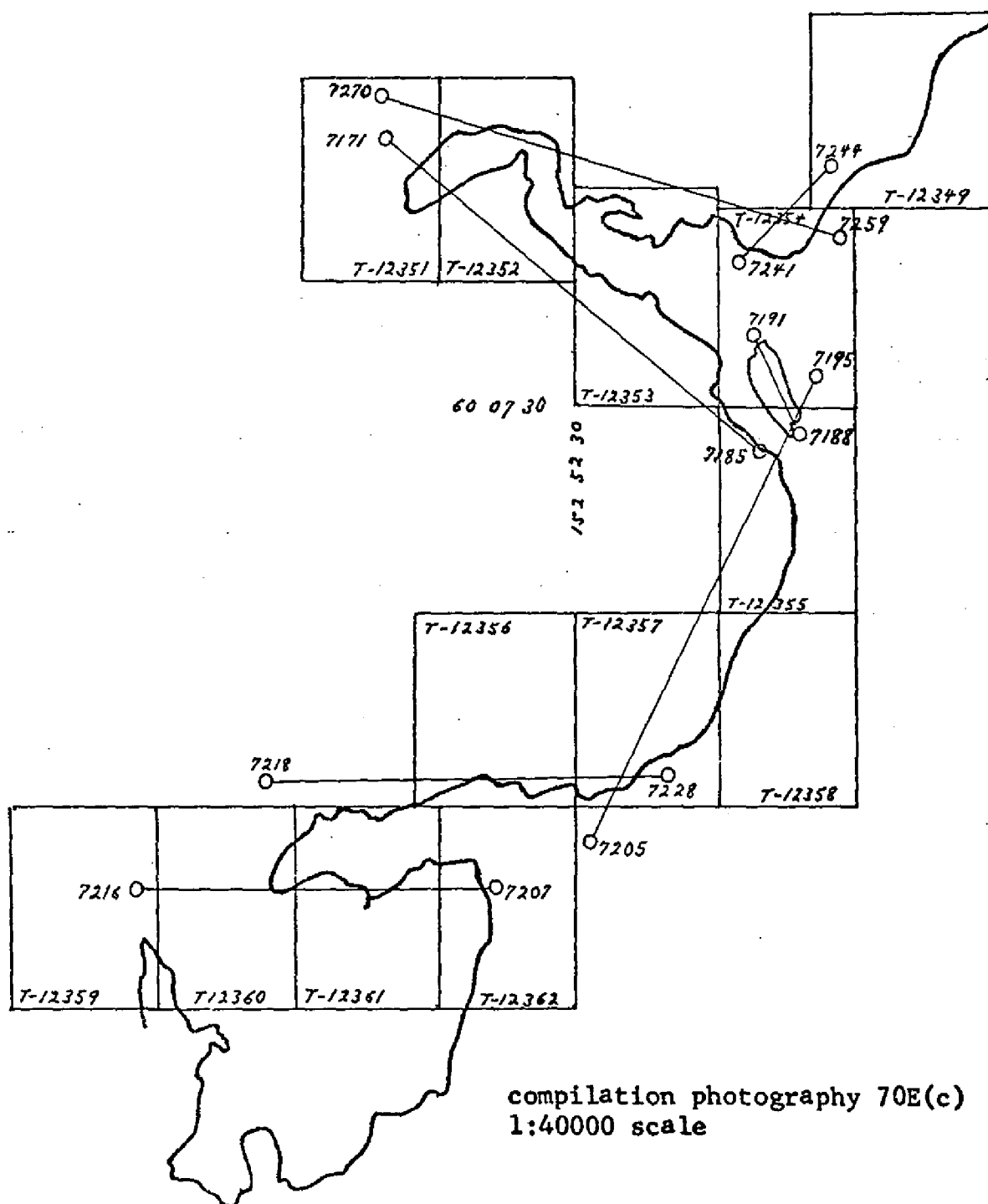


o ratio photography 70E(c)

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



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



COMPILATION REPORT

T-12357

31 - DELINEATION

Delineation was accomplished with the Wild B-8 stereoplotter using 1:40,000 scale photographs. Photograph coverage is 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 office edited from the ratioed photographs.

36 - OFFSHORE DETAILS

Areas, foul with rocks and kelp, are indicated offshore, which extend south of this map.

37 - LANDMARKS AND AIDS

There were no landmarks or aids to navigation noted during compilation.

38 - CONTROL FOR FUTURE SURVEYS

None

T-12357

39 - JUNCTIONS

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

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: SELDOVIA (D-8), 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:

Charles Blood

Charles Blood
Cartographic Technician
Date: August 1978

Approved:

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

Feb. 6, 1987

GEOGRAPHIC NAMES

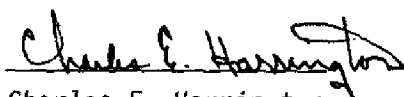
FINAL NAME SHEET

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

T-12357

Cook Inlet
Herbs Lagoon
Red River
Shelter Cove
Shelter Creek
Spring Lakes
Spring Point

Prepared by:



Charles E. Harrington

Staff Geographer

FIELD EDIT REPORT

Map T-12357

Red River

July, 1979

DESCRIPTION

The shoreline is comprised mainly of steep sand beaches, fronting marshes and river channels. The sand barrier is eroded or built up during winter storms and changes frequently. The shoreline at Spring Point and the point at latitude 59°52.5'N, longitude 152°51.8'W is made of boulders ranging in size from 1 to 4 feet. Large groups of rocks and boulders are scattered along the coast, many as far as 1.5 miles offshore.

METHOD

Field edit was done from skiffs and on foot. A foul limit around Spring Point was determined by hydrographic means. The data was submitted with the hydrography and was plotted (see FA-20-1S-79, H-9827 and FA-20-2-79, H-9828). Existing features were compared to the discrepancy print and to the aerial photographs. Changes and additions were depicted on the photographs. Rock heights, deletions and answers to questions posed by the stereo compiler were written on the discrepancy print. Discrepancies noted between the field edit data and the hydrographic data have been resolved.

ADEQUACY AND COMPLETENESS OF COMPILATION

The compilation of the manuscript was adequate.

MANUSCRIPT ACCURACY

The manuscript, as compiled, compared well with the items inspected.

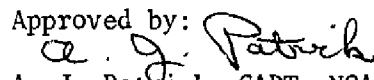
RECOMMENDATION

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

Submitted by:


Michael J. Willis, ENS, NOAA

Approved by:


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

REVIEW REPORT T-12357
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 was made with the the following Hydrographic
Surveys: H-9827 1:20,000 scale dated April 21, 1981
H-9828 1:20,000 scale dated April 13, 1981

There were no conflicts.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with NOS chart 16661, scale 1:100,000,
dated July 27, 1985.

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

J. Byrd Jr.
James L. Byrd, Jr.
Final Reviewer

Approved for forwarding

Billy H. Barnes
Billy H. Barnes

Chief, Photogrammetric Section, AMC

Approved

acty. Lucy O. Rahon, Jr.
Chief, Photogrammetric Production Sect.

AM. Byrd
Chief, Photogrammetry Branch

