

T 12508

T- 12508

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey Shoreline.....
Job No.PH-6013..... Map No. T-12508.....
Classification No. Final Map Edition No. ..1.....

LOCALITY

State Alaska.....
Cook Inlet
General Locality Kalgin Island to Anchorage.....
Locality Kenai River.....

1966 TO 1977

REGISTRY 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 Atlantic Marine Center, Norfolk, VA		SURVEY TP T-12508 MAP EDITION NO. (1) MAP CLASS Final Map JOB PH. 6013	
OFFICER-IN-CHARGE Jeffrey G. Carlen, CDR		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Aerotriangulation 3/26/64 Compilation, Amend 1 to Supp 5 4/05/73 Aerotriangulation 8/13/73 Compilation, Amend 2 to Supp 5 1/31/74 Compilation, Supplement 6 11/26/76		Field 6/6/66 Field 8/8/66 Field 3/30/73	
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 Polyconic		4. GRID(S) STATE Alaska ZONE 4	
5. SCALE 1:10,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	
DATE			
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY		M. McGinley 9/74	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY		Keating 9/74 Keating 9/74	
3. STEREOSCOPIC INSTRUMENT. PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 SCALE: 1:20,000 CONTOURS BY CHECKED BY		R. White L. Neterer 12/74 12/74 L. Neterer A. Rauck 12/74 12/74 N.A. N.A.	
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: Smooth drafted CONTOURS BY CHECKED BY SCALE: 1:10,000 HYDRO SUPPORT DATA BY CHECKED BY		J. Desch D. Butler 1/75 12/76 F. Margiotta 1/75 & 1/77 N.A. N.A. J. Desch D. Butler 1/75 1/77 F. Margiotta 1/75 & 1/77	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		F. Margiotta 1/75 & 1/77	
6. APPLICATION OF FIELD EDIT DATA Partial BY		D. Butler 1/77	
Partial CHECKED BY		F. Margiotta 1/77	
7. COMPILATION SECTION REVIEW BY		F. Margiotta 1/77 & 1/77	
8. FINAL REVIEW BY		J. Byrd/C. Blood 2/86	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		J. Byrd 9/86	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		P. Dempsey Oct. 1986	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		E. DAUGHERTY Dec '86	

T-12508
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "L", "E" & RC-10 "C"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		X(C) COLOR X(P) PANCHROMATIC X(I) INFRARED		ZONE Alaska	<input checked="" type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES <input checked="" type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN 150th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
*67L(P)3655-3657	6/23/67	10:53	1:40,000	3.6 ft. below MLLW	
**67L(I)3516 - 3520	6/22/67	14:15	1:20,000	13.9 ft. above MLLW	
**72E(C)4921	7/05/72	09:15	1:20,000	14.4 ft. above MLLW	
##75E(I)0636 - 0637	7/08/75	15:30	1:30,000	18.4 ft. above MLLW	
##75E(I)0777 - 0779	7/09/75	11:15	1:30,000	1.0 ft. below MLLW	
#75C(C)6276 - 6279	7/05/75	08:27	1:60,000	7.6 ft. above MLLW	

REMARKS

*Bridge and compilation photos (# for revision)
**Hydro support photos (##hydro support photos for revision)

2. SOURCE OF MEAN HIGH-WATER LINE:

##The mean high water line was revised from the above listed photographs at 18.4 ft. above MLLW.

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

##The mean lower low water line was revised from the above listed photographs at 1.0 ft. below MLLW.

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 T-12507	EAST No Survey	SOUTH CM 7412 TP-00793 1:20,000	WEST No Survey
REMARKS			

T-12508
HISTORY OF FIELD OPERATIONSI. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	A. Wardwell	4/61 - 7/61
2. HORIZONTAL CONTROL	RECOVERED BY G. Saladin	4/61 - 7/61
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
3. VERTICAL CONTROL	RECOVERED BY NA	
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY NA	
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 BY	
	<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 NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
None2. VERTICAL CONTROL IDENTIFIED
NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

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)

None

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(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. B. Melby	6/73
2. HORIZONTAL CONTROL	RECOVERED BY R. B. Melby	6/73
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY R. B. Melby	6/73
3. VERTICAL CONTROL	RECOVERED BY NA	
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY NA	
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	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
		NA	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
67L3656	AUDREY, 1961		
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: <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 (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)			
2 Forms 152			
1 Form Tellurometer Observation			

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

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Alderman	8/76
2. HORIZONTAL CONTROL	RECOVERED BY G. Kosinski	8/76
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
3. VERTICAL CONTROL	RECOVERED BY NA	
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY NA	
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 None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
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: <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 (Sketch books, etc. DO NOT list data submitted to the Geodesy Division) 1 Field Edit Ozalid (partially edited) 1 Field Edit Report (for partial edit)			

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(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. Randall	Jul-Aug '77
2. HORIZONTAL CONTROL	RECOVERED BY None	
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
3. VERTICAL CONTROL	RECOVERED BY NA	
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY NA	
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 M. Molchan	Jul/Aug '77
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED None		2. VERTICAL CONTROL IDENTIFIED NA	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS (Clarification of details) 75 E(I) 0637, 0777-0778			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS None			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division) 1-Field edit report 1-Film field edit ozalid			

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NOAA FORM 76-36D
(3-72)

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

T-12508
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compiled from 1962 photography and furnished for hydro.	5/64	Superseded	unknown	unknown
Recompiled on new base using new bridge and 1975 photography.	1/75	Class III Manuscript	3/25/75	3/24/75
Partial field edit applied - 3 rocks, 2 lights	12/76	Class III Manuscript	3/30/77	4/4/77
1977 Field edit applied, compilation complete.	1/78	Class I Manuscript	2/1/78	2/1/78
Final Review	2/86	Final Map		

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		2/6/78	

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: February 6, 1978

3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT 76-48 ☒ COMPUTER READOUTS.
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS ~~367~~ 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

JOB PH-6013 SHORELINE MAPPING COOK INLET ALASKA KALGIN ISLAND TO ANCHORAGE 1:20,000 & 1:10,000 SCALE

REVISED 8-24-76 RWW

Sheet No.	SQ. Miles
T-11998	4
11999	6
12000	9
12001	5
12002	3
12003	2
12004	2
12005	1

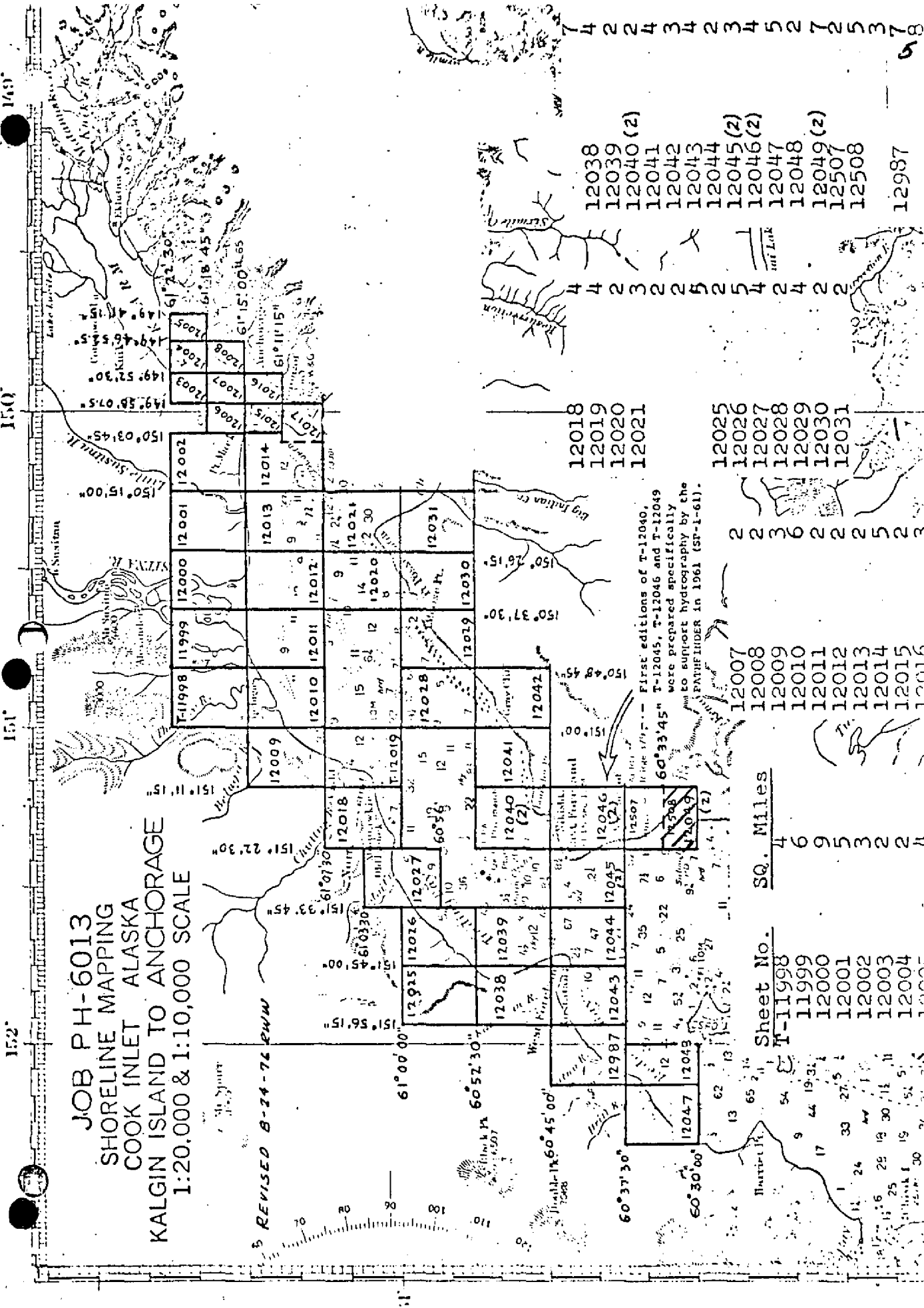
Sheet No.	SQ. Miles
12007	4
12008	6
12009	9
12010	5
12011	3
12012	2
12013	2
12014	2
12015	2
12016	1

12018
12019
12020
12021

12025
12026
12027
12028
12029
12030
12031

12038
12039
12040 (2)
12041
12042
12043
12044
12045 (2)
12046 (2)
12047
12048
12049 (2)
12507
12508
12987

First editions of T-12040, T-12045, T-12046 and T-12049 were prepared specifically to support hydrography by the NAVY in 1961 (SP-1-61).



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

T-12508

This 1:10,000 scale Final shoreline map is one of 44 maps designated as project PH-6013 Cook Inlet, Kalgin Island to Anchorage, Alaska. T-12507 and T-12508 at 1:10,000 replaced and superseded the "cancelled" T-12049 (2) a 1:20,000 second edition post earthquake map.

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 in the 1961 field season consisted of recovery of horizontal control and limited field inspection. Field work in 1966 consisted of premarking of horizontal control for aerotriangulation.

This area was flown in June 1967 with the RC-8 "L" camera in panchromatic at 1:40,000 scale and also in June 1967 in infrared at 1:20,000 scale. The area was reflown in July 1972 with the RC-8 "E" camera in color at 1:20,000 scale.

Photography that was flown for job CM-7412 in July 1975 using the RC-8 "E" camera in infrared at 1:30,000 scale, and the RC-10 "C" camera in color at 1:60,000 scale, covered this area and was used to revise the map.

Bridging was performed in the Washington office in September 1974.

T-12508 was compiled at the Norfolk office in January 1975.

Field edit was performed for T-12508 during 1976 field season. Field edit data was applied at AMC in January 1977.

Final Review was performed at AMC in February 1986. T-12508 was forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

T-12508

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

9/9/74

PHOTOGRAMMETRIC PLOT REPORT
Job PH-6013
Cook Inlet
East Foreland Area
Alaska

21. Area Covered

This project covers the eastern shoreline of Cook Inlet from Kenai to just north of Number Three Bay. Included are seven T-sheets: T-12040(2), T-12041, T-12042, T-12045(2), T-12046(2), and ~~T-12049(2)~~ at 1:20,000 scale, and T-12507, T-12508, at 1:10,000 scale.

22. Method

Three strips of 1:40,000 scale panchromatic photography (strips 18, 19, and 20) were bridged on the Wild STK-1 in order to obtain pass point positions and exact scale ratios to be used during compilation.

Strip 20 was adjusted on four field identified triangulation stations with checks obtained from two additional triangulation stations and two tie points. Strip 18 was adjusted on four field identified triangulation stations with two tie points as checks. Strip 18 was adjusted on six tie points. All adjustments were performed on the IBM 6600. All sheets were ruled and plotted on the Calcomp.

Ratios at 1:20,000 scale were ordered for the entire project with additional 1:10,000 scale ratios for the area covering sheets T-12507 and T-12508. Ratios at 1:20,000 scale of the bridging photography were also ordered for the portion of the project not covered by the offshore photography.

The horizontal control utilized in the adjustments held within National Map Accuracy.

24. Supplemental Data

Vertical control for bridging only was obtained from local USGS quads.

25. Photography

Photography was adequate as to overlap, definition, and coverage.

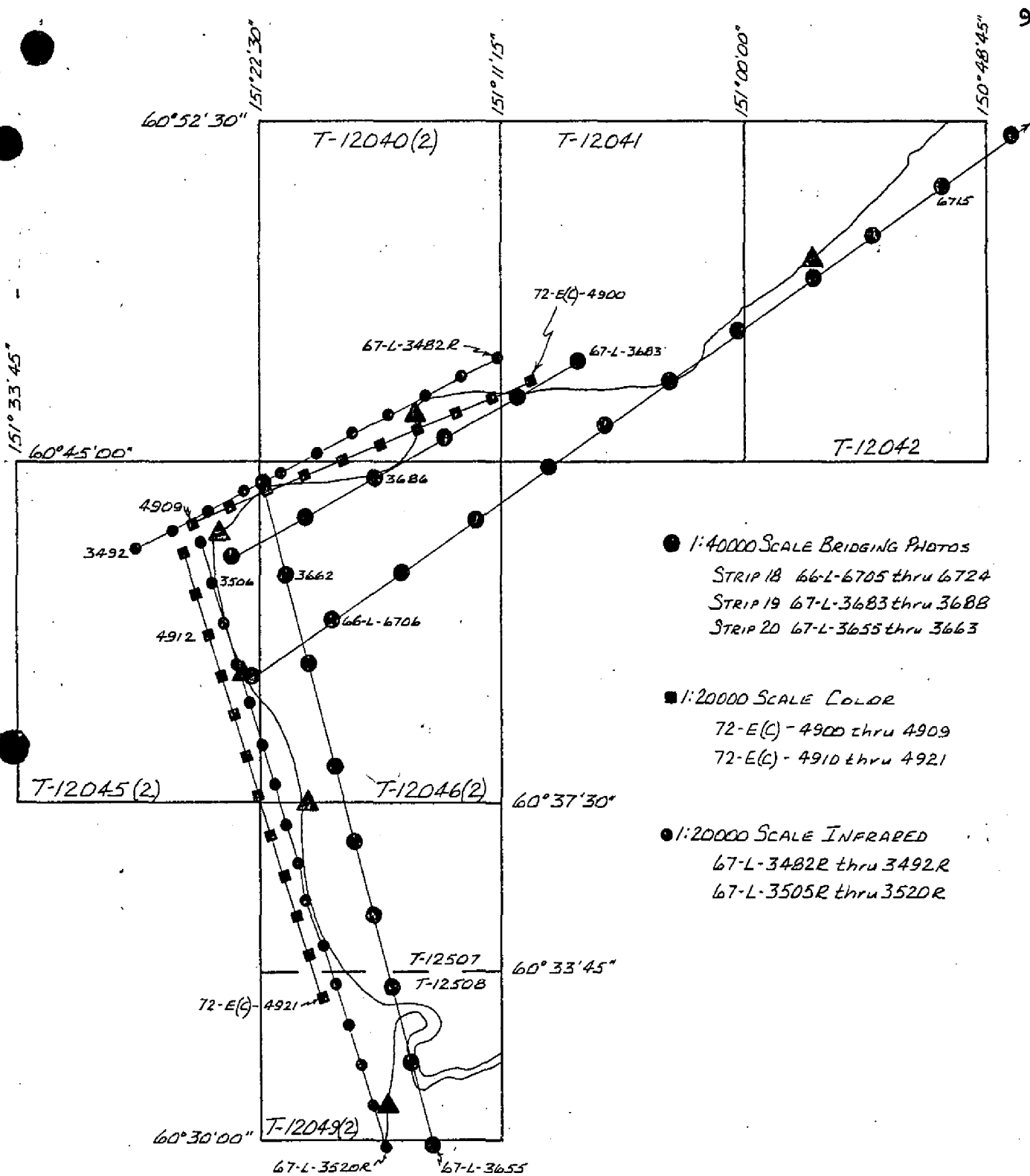
Approved by:

John D. Perrow

John D. Perrow, Jr.
Chief, Aerotriangulation Section

Submitted by:

Michael L. McGinley
Michael L. McGinley



JOB PH-6013
 COOK INLET
 EAST FORELAND AREA
 ALASKA

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	PH-6013	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODETTIC DATUM		ORIGINATING ACTIVITY		REMARKS
					COORDINATES IN FEET STATE ZONE	N.A. 1927	GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE	Center, Coastal Mapping, Norfolk, V.	
AUDREY, 1961			G.P., Vol. 5 P. 855		$\chi =$	ϕ 60 30 50.5588			
					$y =$	λ 151 16 37.4448			
KENAI, RUSSIAN CHAPEL, SPIRE, 1964			P. 3 of 3 Homer to Soldotna		$\chi =$	ϕ 60 33 14.10326			
					$y =$	λ 151 16 03.14465			
KENAI, RUSSIAN ORTHODOX CHURCH SPIRE, 1964			P. 3 of 3 Homer to Soldotna		$\chi =$	ϕ 60 33 12.89275			
					$y =$	λ 151 15 55.54519			
KENAI RIVER RANGE FRONT LIGHT, 1975					$\chi =$	ϕ 60 33 02.389			
					$y =$	λ 151 15 36.508			
KENAI RIVER RANGE REAR LIGHT, 1975					$\chi =$	ϕ 60 33 05.308			
					$y =$	λ 151 15 29.940			
					$\chi =$	ϕ			
					$y =$	λ			
					$\chi =$	ϕ			
					$y =$	λ			
					$\chi =$	ϕ			
					$y =$	λ			
					$\chi =$	ϕ			
					$y =$	λ			
					$\chi =$	ϕ			
					$y =$	λ			
COMPUTED BY	A. C. Rauck, Jr.	DATE	10/03/74	COMPUTATION CHECKED BY	J. Desch	DATE	10/04/74		
LISTED BY		DATE		LISTING CHECKED BY		DATE			
HAND PLOTTING BY		DATE		HAND PLOTTING CHECKED BY		DATE			

COMPILATION REPORT

T-12508

31 - DELINEATION

Delineation was accomplished using the Wild B-8 stereoplotter. Photography was adequate. The manuscript was revised in December 1976 from 1975 infrared photography.

The original 1:20,000 scale compilation of this map was accomplished in May 1964 from 1962 photography. It is superseded by this 1:10,000 scale survey on a new base using the 1967 bridge/compilation photos. The 72 E(C) photographs could not be used because the 1967 pass points could not be identified for transfer to them.

32 - CONTROL

See the attached Photogrammetric Plot Report dated September 9, 1974.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

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 and mean lower low waterline and some interior details were revised graphically, December 1967, in accordance with 1975E infrared tide coordinated photography flown for project CM-7412.

36 - OFFSHORE DETAILS

None.

37 - LANDMARKS AND AIDS

No charted landmarks were noted during compilation. The charted range markers were not identified during compilation.

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

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

40 - HORIZONTAL AND VERTICAL ACCURACY

No statement.

46 - COMPARISON WITH EXISTING MAPS

A comparison has been made with the following USGS Quadrangle: KENAI (C-4), ALASKA, Scale 1:63,360, dated 1952.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean Survey Chart: C&GS No. 8553, scale 1:194,154, 13th Edition, dated February 26, 1972.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

Joanne Desch

Joanne Desch
Cartographic Technician
January 1975

David P. Butler

David Butler
Cartographic Technician
December 1976

Approved:

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

APPENDIX B

FIELD EDIT REPORT

MAP T-12508

KENAI RIVER

Field edit of map T-12508 was started in August, 1976 by LTJG G.P. Kosinski and ENS N.G. Millett of the NOAA Ship FIARWEATHER. Field work is incomplete on this ozalid for the following two reasons: first, the project limits for the hydrographic surveys of Cook Inlet do not include this area, and higher priority was assigned to the manuscripts in the regions where current (1976) FAIRWEATHER surveys were conducted; this indirectly caused the second reason, that there was not sufficient time and tide range at the end of the project to do an adequate job of examining the area for rocks, shoals, and changes to the ozalid. It is felt that the remaining work can be easily accomplished when the planned 1:20000 hydrographic survey near Cape Kasilof in Cook Inlet is conducted in the future. Rather than have future field parties start from scratch, the annotated ozalid and this report are submitted for information and storage.

Several prominent rocks indicated by the compiler have been assigned heights and times. An abstract of times of hydrography is attached. Visual three-point sextant fixes (with check) were used to located four offshore rocks in the northwest corner of the area. Signals used include offshore oil platforms located by the NOAA Ship RAINIER in 1975, triangulation stations in the area, and prominent features scaled from this map and the adjoining 1:10000 ozalid, T-12507.

There is a charted aero beacon at $60^{\circ}36.1'N$, $151^{\circ}12.6'W$, which actually is found on the adjoining manuscript, T-12507; its existence was neither verified nor disproved, and future field parties are advised that this item remains to be investigated.

Enclosed with this report is a complete list of signals used with program RK-409, Geodetic Three Point Fix, employed to compute the rock locations; descriptions of KENAI RIVER FRONT RANGE and KENAI RIVER REAR RANGE; and the following table that lists the positions of the offshore rocks located by sextant fix. Raw field edit data, in the form of sextant angles and taped or estimated distances, are found in the sketchbook, volume one, submitted with the Field Edit Reports, OPR-469-PA-76.

Respectfully submitted:

Gregory P. Kosinski
Gregory P. Kosinski, LTJG, NOAA

FIELD EDIT REPORT

OPR-429-RA-77
PH-6013
T-12508(2)

SOUTHERN COOK INLET
ALASKA
KENAI RIVER

2 FIELD PARTIES

July 20, 1977 - August 12, 1977
(JD 201 - 224)

51 METHODS

Field edit operations for T-12508(2) commenced prior to hydrographic survey operations H-9707, RA-10-2-77 in order to locate possible uncharted dangers to navigation and to establish visual control for the survey.

Two parties were involved in the field edit. A skiff was used at both high and low tides to locate dangers to navigation, confirm MHWL and to locate and build photo signals. The following information was gathered using a four wheel drive vehicle as the mode of transportation:

- 1) Height of the bridge crossing the river
- 2) Location of aids to navigation
- 3) Location of a submerged sewer pipeline at the mouth of the river
- 4) Confirmation of marsh limits

All field notes on shoreline and topographic detail have been transferred from black and white matte ratio photographs 75E(I)-0637, 0777, 0778 and 0779 to chronapaque photographs 75E(I)-0637, 0777, and 0778. All verified features are noted in purple ink, corrections and additions in red and all deletions in green ink.

Questions on the film Master Field Edit Ozalid have been answered in purple while corrections and additions have been transferred directly from the photographs to the Master Field Edit Ozalid.

The field editor's position was maintained by orientation of the photographs to the shoreline and associated topographic features. Heights of rocks in the Kenai River were estimated from a skiff at close range. Heights of five rocks south of Kalifonsky Beach bounded by Lat. $60^{\circ} 30' 00''$ N to $60^{\circ} 31' 00''$ N, Long. $151^{\circ} 16' 00''$ W to $151^{\circ} 18' 00''$ W were determined at low water from the shore. Three of the five rocks identified in this area were close to the MLLW line and were observed at close range. A fourth rock at Lat. $60^{\circ} 30' 48''$ N, Long. $151^{\circ} 17' 18''$ W (annotated as a Rock that Bares 1', 2358Z JD 203, 77) was seen approximately 400 meters offshore through binoculars. A fifth rock located at Lat. $60^{\circ} 30' 51''$ N, Long. $151^{\circ} 17' 35''$ W is addressed to the hydrographer, however, hydrography was not run in this area. The rock was visible to the field editor with the aid of binoculars. The rock is listed as "Rk Bares Approx. 6', 2357Z JD 203, 77." Although the rock was observed from a distance (between 650 - 750 meters) it was felt a height approximation of +1 foot could accurately be made by comparing the rock height above water

to seagulls resting atop the rock. Greenwich Mean Time (local time +9 hours) was used and noted at the time the heights of all rocks were obtained.

All of the field edit data was transferred from the matte photos and Field Copy paper ozalids to the chronapaque photos and film Master Field Edit Ozalid within one week of collection. All photo signals were located by no less than three rays with good intersecting angles. For information on photo control refer to the separates section of Hydrographic Report H-9707, RA-10-2-77.

52 ADEQUACY OF COMPILATION

The compilation of manuscript T-12508(2) was complete and accurate. No changes were made to the MHWL. The MLLWL was compiled by hydrographic survey operations H-9707, OPR-429-RA-77 and is not addressed in this report. For further information on this subject refer to Descriptive Report H-9707.

53 MAP ACCURACY

There were four areas involving additions or corrections to features. The first was a one mile section of marsh north of Kalifonsky Beach. The marsh limits bounded by Lat. $60^{\circ} 32' 00''$ N to $60^{\circ} 33' 00''$ N were walked and noted on photograph 0637. The white images within the marsh are elevated grassy areas that do not cover at high water and should not be included as marsh. The second is three previously uncharted rocks that were noted on photo 0778. All three rocks were transferred to the Master Field Edit Ozalid and are identified as:

- 1) Rk Bares 2' 2240Z JD 201, 77@ Lat. $60^{\circ} 32' 01''$ N
Long. $151^{\circ} 15' 06''$ W
- 2) Rk Awash 2247Z JD 201, 77@ Lat. $60^{\circ} 31' 40''$ N
Long. $151^{\circ} 14' 54''$ W
- 3) Rk Bares 4' 2230Z JD 201, 77@ Lat. $60^{\circ} 33' 04''$ N
Long. $151^{\circ} 15' 17''$ W
(on prior survey H-8789 but
not on T-sheet)

The third is a submerged gasline crossing at the southernmost bend of the river from Lat. $60^{\circ} 31' 15''$ N to Lat. $60^{\circ} 31' 26''$ N
Long. $151^{\circ} 14' 24''$ W Long. $151^{\circ} 14' 12''$ W

The location of the gasline was assumed to lie between the "Warning: Submerged Gasline Crossing" signs on either side of the river and was

noted on photo 75E(1)0788. The linear image of the old pipeline ditch further confirmed the position. Finally, a submerged sewer outfall which extends from a small building 100 meters offshore toward Chinula Point was located. The City Engineer confirmed its position (no plans available) and stated that the last six meters are exposed at low tide. The field editor returned to the small building at low tide and observed the exposed end of the pipeline 100 meters from the building. The pipeline was noted on the Master Field Edit Ozalid just to the right of being on range with Chinula Point. It is recommended that all of the above features be added to the T-sheet.

54 RECOMMENDATIONS

NONE

55 MISCELLANEOUS (Bridge)

There is one bridge crossing the Kenai River at the head of navigation which is included on T-12508(2). This fixed span concrete two lane highway bridge has a clearance of 28' 8" (at 1704Z August 12, 1977, JD 224) from the lowest point on the bridge span to the water.

56 MISCELLANEOUS (Nonfloating Aids)

NOAA Form 76-40 requesting confirmation of an Aero Beacon at Lat. $60^{\circ} 33.5' N$, Long. $151^{\circ} 14.9' W$ was found by RAINIER to be at Lat. $60^{\circ} 33' 36.965'' N$, Long. $151^{\circ} 15' 08.997'' W$. The beacon is not a prominent feature from sea.

A recommendation to remove the existing front and rear range markers located at the Kenai River mouth is included on the NOAA Form 76-40. For more complete information on this subject refer to Hydrographic Descriptive Report H-9707, OPR-429-RA-77. Both the original Form 76-40 from Norfolk and a new Form 76-40 including the new positions of the Aero Beacon and a recommendation to delete the existing Range markers are included in the "Separates Following the Text."

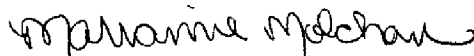
57 MISCELLANEOUS (Photo Identified Signals)

Field edit operations for PH-6013, T-12508(2) scale 1:10,000 included the identifying and locating of 17 visual signals for hydrographic survey operations RA-10-2-77, H-9707, OPR-429-RA-77.

Five of the signals were pass points and two were range markers located geodetically. The remaining ten visual signals were identified and located photogrammetrically on the Photo Signal Ozalid. The number

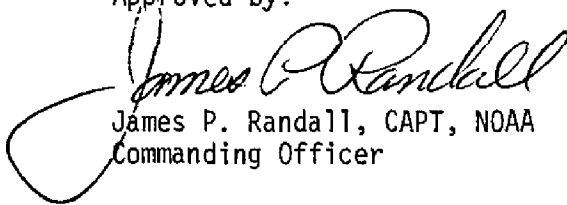
adjacent to the signal refers to the number of the corresponding signal on the Master Station List. Computations concerning the photo signals are listed in the "Separates Following the Text" of Descriptive Report H-9707.

Respectfully submitted,



Marianne Molchan, ENS
Field Edit Officer

Approved by:



James P. Randall, CAPT, NOAA
Commanding Officer

REVIEW REPORT
T-12508

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 SURVEY

A comparison was made with the following Hydrographic Surveys:
H-9907 RA 10-2-77 scale 1:10,000, dated July 24, 1978
H-8989 RF 10-1-64 scale 1:10,000, no date.

65 - COMPARISON WITH NAUTICAL CHART

A comparison was made with the following NOS Charts
16660 scale 1:194,154 (1:40,000 inset), 22nd edition, May 8, 1982
16662 scale 1:100,000 (1:50,000 inset), 1st edition, April 9, 1983.

There were no major conflicts.

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

John M. Murney
Chief, Photogrammetric Production Sec.

Ronald K. Brewer
Chief, Photogrammetry Branch

Replaces CGCS Form 567.

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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

ORIGINATING ACTIVITY

☒ TO BE CHARTED
☐ TO BE REVISED
☐ TO BE DELETEDREPORTING UNIT
(If Field Party, Ship or Office)
Coastal Mapping Div.
A.M.C. Norfolk, Va.STATE
AlaskaLOCALITY
Cook Inlet, Kalgin
Island to Anchorage

DATE

Jan. 1978

The following objects HAVE ☒ HAVE NOT ☐ been inspected from seaward to determine their value as landmarks.☐ HYDROGRAPHIC PARTY
☐ GEODETIC PARTY
☒ PHOTO FIELD PARTY
☐ COMPILATION ACTIVITY
☐ FINAL REVIEWER
☐ QUALITY CONTROL & REVIEW GRP.
☐ COAST PILOT BRANCH
(See reverse for responsible personnel)

OPR PROJECT NO.

JOB NUMBER

SURVEY NUMBER

DATUM

469

Ph-6013

T-12508

N.A. 1927

POSITION

LATITUDE

° / ' " D.M. Meters

LONGITUDE

° / ' " D.P. Meters

METHOD AND DATE OF LOCATION
(See instructions on reverse side)

OFFICE

FIELD

CHARTS
AFFECTED

° / ' " D.M. Meters

° / ' " D.P. Meters

° / ' " D.P. Meters

° / ' " D.P. Meters

° / ' " D.P. Meters

° / ' " D.P. Meters

° / ' " D.P. Meters

° / ' " D.P. Meters

° / ' " D.P. Meters

° / ' " D.P. Meters

LIGHT *

Kenai River Range Rear Light

60 33

05.308

151.18

29.940

F-V-VIS.

June, 1977

16660

LIGHT *

Kenai River Range Front Light

60 33

02.389

151.18

36.508

"

"

"

"

"

"

* Lights no longer mark safe entrance
Kenai River mouth.

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 Review.

[illegible]