

T-12044

T-12044

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-12044
Classification No. Final Map Edition No. .1

LOCALITY

State Alaska
Cook Inlet
General Locality Kalgin Island to Anchorage
Locality West Foreland

1966 TO 1976

REGISTRY IN ARCHIVES

DATE

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 TR T-12044 MAP EDITION NO. (1) MAP CLASS Final Map JOB PH-6013	
DESCRIPTIVE REPORT - DATA RECORD PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Atlantic Marine Center, Norfolk, VA 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 9/15/66 Compilation, Supplement 5 3/20/73 Compilation, Amend. 1 to Supp. 5 4/05/73 Compilation, Amend. 2 to Supp. 5 1/31/74				Field 6/6/66 Supplement 1 8/8/66			
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 checked="" 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 1:20,000				STATE ZONE			
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY P. Hawkins 4/67 METHOD: Stereoplanigraph LANDMARKS AND AIDS BY							
2. CONTROL AND BRIDGE POINTS PLOTTED BY L. O. Neterer, Jr. 11/73 METHOD: Coordinatograph CHECKED BY C. Blood 11/73							
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY R. White 3/74 COMPILATION CHECKED BY A. L. Shands 3/74 INSTRUMENT: Wild B-8 SCALE: 1:20,000 CONTOURS BY NA CHECKED BY NA							
4. MANUSCRIPT DELINEATION PLANIMETRY BY A. L. Shands 3/74 CHECKED BY G. Vanderhaven 4/74 METHOD: Smoothdrafted SCALE: 1:20,000 CONTOURS BY NA CHECKED BY NA HYDRO SUPPORT DATA BY A. L. Shands 3/74 CHECKED BY G. Vanderhaven 4/74							
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY G. Vanderhaven 4/74							
6. APPLICATION OF FIELD EDIT DATA BY J. Roderick 1/77 CHECKED BY Jim Byrd 1/77							
7. COMPILATION SECTION REVIEW BY Jim Byrd 1/77							
8. FINAL REVIEW BY J. Byrd/C. Blood 7/86							
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. L. DAUGHERTY Dec. 86							

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-12044
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "L"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR X (P) PANCHROMATIC (I) INFRARED		ZONE Alaska	<input checked="" type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN 150th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
66L6632 - 66L6634	8/14/66	08:00	1:40,000	0.3 ft. below MLLW	

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from the above listed photographs.

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

The mean lower low water line was delineated from the above listed 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
T-12039	T-12045(2)	None	T-12043

REMARKS

T-12044

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	A. Wardwell	4/61 - 7/61
2. HORIZONTAL CONTROL	G. Saladin	4/61 - 7/61
RECOVERED BY	None	
ESTABLISHED BY	None	
PRE-MARKED OR IDENTIFIED BY	None	
3. VERTICAL CONTROL	NA	
RECOVERED BY	NA	
ESTABLISHED BY	NA	
PRE-MARKED OR IDENTIFIED BY	NA	
4. LANDMARKS AND AIDS TO NAVIGATION	None	
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	None	
CLARIFICATION OF DETAILS BY		
7. BOUNDARIES AND LIMITS	NA	
SURVEYED OR IDENTIFIED BY		

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)

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

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

T-12044

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Melby	1966
2. HORIZONTAL CONTROL	RECOVERED BY D. Wilson and M. Chalfant	1966
	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 <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

None

2. 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

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-12044
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. E. Alderman, CAPT, NOAA	7-8/76
2. HORIZONTAL CONTROL	RECOVERED BY G. E. Leigh, ENS, NOAA	7-8/76
	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 NA	
	LOCATED (Field Methods) BY NA	
	IDENTIFIED BY NA	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input checked="" type="checkbox"/> NO INVESTIGATION	NA
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	NA
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED NA		2. VERTICAL CONTROL IDENTIFIED NA	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS (Clarification of details) 14AUG66L6633			
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) Raw Field Edit Data, OPR-469-FA-76, Vol. 1 Field Edit Reports, OPR-469-FA-76 Field Edit Ozalid, Map T-12044, Master copy and film copy Field Edit Fix computations for Map T-12044 Field Edit Report, Map T-12044			

NOAA FORM 76-36C
(3-72)

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONT-12044
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.	3/74	Class III Manuscript Superseded	None	4/16/74
Field edit applied. Compilation complete.	1/77	Class I Manuscript	2/11/77	2/11/78
Final Review	7/86	Final Map		

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 NOS 567 SUBMITTED BY FIELD PARTIES.
 3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
 ACCOUNT FOR EXCEPTIONS:

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

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

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

NOAA FORM 76-36D

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

REVISED 8-24-76 RHN
REVISED 3-11-77 AG

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SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

T-12044

This 1:20,000 scale Final shoreline map is one of 44 maps designated as project PH-6013 Cook Inlet, Kalgin Island to Anchorage, 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 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 future aerotriangulation.

This area was photographed in August 1966 with the RC-8 "L" camera using panchromatic film at 1:40,000 scale.

Aerotriangulation was performed in the Washington office in April 1967 and January 1974.

This map was compiled at the Norfolk office in April 1974.

Field edit was performed for T-12044 during the 1976 field season. Field edit data was applied at AMC in January 1977.

Final review was performed at the Atlantic Marine Center in July 1986.

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-12044

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.

PHOTOGRAMMETRIC PLOT REPORT
Job PH-6013
Cook Inlet, Alaska

April 13, 1967

21. Area Covered

The area covered by this report extends from the Redoubt Bay-East Foreland area to Anchorage, Alaska. Included in this area are T-sheets 11998 thru 12001, 12009 thru 12012, 12018, 12019, 12021, 12025 thru 12030, 12038, 12039, 12042 thru 12044, 12047, 12048 and 12987.

22. Method

Five strips were bridged on the C-8 and C-5 stereoplanigraph. Strip #1 (66-L-6602 thru 6623) was adjusted on four triangulation stations with tie points used as checks. Strip #2 (66-L-6629 thru 6634) was adjusted on two triangulation stations plus tie points from Strip #1. Strip #3 (66-L-6641 thru 6653) was adjusted on three triangulation stations plus ties. Strip #4 (66-L-6667 thru 6677) was adjusted on three triangulation stations plus ties. Strip #9 (66-L-6713 thru 6725) was adjusted on three triangulation stations.

23. Adequacy of Control

The control, being premarked, was very good insofar as being able to see it clearly; however, in several cases, the 1:40,000 scale photography completely missed the stations. It should be noted that all strips were adjusted with minimum control, and as such, no positive proof can be provided that the adjustments are correct other than by means of tie points and residuals of adjustment. The tie points and residuals do indicate a good adjustment on all strips. Strip #4 had to be terminated at station SIT 1966 due to lack of control beyond this point. (Port McKenzie could not be seen on the 1:40,000 scale photography.) Attempts were made to provide a tie point for the terminal station on the east end of this strip by bridging three models south of Anchorage, dropping points onto Strip #4. This met with complete failure. Strip #6 had to be terminated on the southern end at station GRAY CLIFF 1909 since the station at East Foreland was not covered by the 1:40,000 scale photography.

24. Supplemental Data

Local USGS quads were used to provide vertical control used in the bridging adjustment.

The coverage of 1966 photography falls short of being sufficient to show the shallow mud areas which are near lower-low water level in the area of the Susitna River Delta. To provide for the delineation of the limiting line of this feature, scale points have been selected which are common to 61K photography which does show the limiting line. Ratios of these photographs will be provided for the graphic delineation of the limiting line only. The compiler should select whatever additional points are necessary for correct delineation. A holiday exists on some of the shoreline along Strip #9. A flight of 60W photography provides coverage and three ratio photos were provided for compilation of this area.

All points on the bridged plates were drilled by PUG methods. Plate 66-L-6719 was broken after bridging. A new plate was provided but it does not contain any drilled points. It is suggested that the models on either side be compiled and pass points be dropped on this plate for compilation.

25. Photography

Photography was adequate as to definition and overlap but was not adequate as to coverage. The 1:40,000 scale photos did not cover either the shoreline or the marked control on the east end of Strip #4 or the southwest end of Strip #9. A portion of the shoreline along the part of Strip #9 which was bridged also lacks coverage.

Submitted by:

Paul Hawkins

Paul Hawkins

Approved by:

John D. Perrow, Jr.

John D. Perrow, Jr.

Photogrammetric Plot Report
Cook Inlet, Alaska
Job PH-6013
January 1974

21. Area Covered

The area covered by this report is along the coast at West Foreland Cook Inlet, Alaska. This area is covered by four 1:20,000 scale sheets TP-12038, TP-12039, TP-12043, and TP-12044.

22. Method

One strip of 1:40,000 scale panchromatic photography was bridged by analytic methods. Sketch #1 shows the flight line of the photography and the placement of the control used in this adjustment. This strip was adjusted in April 1967 but part of the bridging photography was lost. Points were transferred from the old bridge photography to this bridge using the same photography to control the northwest end of the strip. Data for plotting the points were furnished to AMC to be plotted by manual methods.

23. Adequacy of Control

The control was adequate.

24. Supplemental Data

The data from the 1967 bridge were used to control the northwest end of the strip.

25. Photography

The photography was adequate. Ratios were ordered on January 3, 1974.

Respectfully submitted,

Ivey O. Raborn
Ivey O. Raborn

Approved and forwarded:

John D. Perrow, Jr.
John D. Perrow, Jr.
Chief, Aerotriangulation Section

COMPILATION REPORT

T-12044

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter. 1:40,000 scale panchromatic photography was used. The quality and coverage of the photography was adequate.

32. CONTROL:

See the attached Photogrammetric Plot Report dated April 13, 1967.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. Drainage was delineated by office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

Alongshore details and the mean high water line were delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

The mean lower low water line was delineated from the photographs at 0.3 ft. below mean lower low water.

36. OFFSHORE DETAILS:

This foreshore area is delineated as foul with rocks.

37. LANDMARKS AND AIDS:

No charted landmarks or aids were noted 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-5), ALASKA, scale 1:63,360, dated 1958.

47. COMPARISON WITH NAUTICAL CHARTS:

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

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

A. Shands

A. Shands
Cartographer
March 7, 1974

Approved:

Albert C. Rauck, Jr.

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

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6013 (Cook Inlet)

T-12044

Cook Inlet

Knutruin Rock

Kustatan

Redoubt Bay

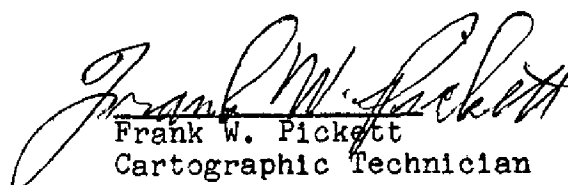
Trading Bay

West Foreland

Approved by:


A. J. Wraight
Chief Geographer

Prepared by:


Frank W. Pickett
Cartographic Technician

FIELD EDIT REPORT

MAP T-12044

WEST FORELAND

JULY-AUGUST 1976

Field work on map T-12044 was completed by LTJG G.P. Kosinski, LTJG M. Sullivan, and ENS N. Millett during July and August, 1976. The foreshore area is very rugged, with large rocks and boulders extending well offshore, except along the extreme southwestern shoreline, where scattered rocks and boulders were found on the mud/silt tidal flat. Bluffs of charting value extend along the coastline. Field inspections of the shoreline were made at various stages of the tide by skiff.

METHOD

Photographs and a copy of the field edit ozalid were examined in the field. At low stages of the tide, numerous sunken and bare rocks were discovered that were not indicated by the compiler. Detached positions were determined for each rock employing three-point sextant fixes with at least one check position (in most cases, many more), utilizing signals built over existing triangulation stations, prominent photo-identifiable rocks that were indicated on the ozalid by the compiler, or notable oil drilling platforms, whose locations were established by the NOAA Ship RAINIER in 1975, that are found in Cook Inlet. The photo signals were located by scaling the position from the film ozalid using the Sytar-Lockerbie scale. A complete list of signals used is appended. North of Knutruin Rock, some problems involving photo-signal misidentification were encountered, but the offshore platforms gave satisfactory results. Refer to the field edit computations for this manuscript; the sketch book, volume one, that contains raw field data; the film ozalid, indicating photo signals used; and the following Table of Field Edit Fixes for more details. Some detached positions were rejected, either as swingers or for not meeting the accuracy requirements of 1mm at the scale of the survey. In all but two cases, the rocks were relocated. Twice, when the 1 mm requirement was not met, the detached position was used to determine the limit of the foul zone. All rocks listed in the following table and on the ozalid have been completely confirmed.

The foul zone, as indicated on the ozalid, will not be confirmed by referring to the hydrographic records for H-9620 and H-9621. Numerous currents, eddies, and swirls that were impossible to accurately locate indicate the presence of submerged boulders. The field editor has estimated their offshore extent despite their probable conflict with sounded depths.

The mean lower low water line is not presented on the ozalid, but appears in the previously mentioned hydrographic records.

ADEQUACY OF COMPILATION

Compilation of this map is good. The photographs were reasonably clear and were helpful in locating several rocks. Refer to photo 66L6633.

RECOMMENDATIONS

It is recommended that this map be revised in accordance with the notes on the ozalid and be accepted as an advanced manuscript.

Respectfully submitted:

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

MAP T-12044
TABLE OF FIELD EDIT FIXES

<u>Fix Number</u>	<u>Object</u>	<u>Position</u>
180-04	Rock submerged 1 ft at 2045Z, day 180	60°42'41. ⁹²⁵⁸ 9528"N 151°42'10.4798"W
181-03	Rock bare 1 ft at 2054Z, day 181	60°42'56.7765"N 151°41'49.0775"W
181-04	Rock awash at 2112Z, day 181	60°42'40.8370"N 151°42'10.7135"W
182-01	Rock awash at 2106Z, day 182	60°42'35.140"N 151°44'41.807"W
182-02	Rock awash at 2119Z, day 182	60°42'34.690"N 151°44'16.559"W
182-03	Rock awash at 2126Z, day 182	60°42'24.451"N 151°44'03.814"W
182-04	Rock submerged 1 ft at 2138Z, day 182	60°42'34.171"N 151°44'39.773"W
182-05	Rock bare 2 ft at 2151Z, day 182	60°42'36.2014"N 151°44'00.9646"W
224-01B	Rock submerged 4 ft at 2049Z, day 224	60°43'13.132"N 151°41'55.436"W
224-04B	Rock awash at 2132Z, day 224	60°44'07.151"N 151°42'05.122"W
224-05B	Rock bares 1.5 ft. at 2142Z, day 224	60°44'11.700"N 151°42'08.116"W
225-01B	Rock submerged 5 ft at 2208Z, day 225	60°44'06.120"N 151°42'05.422"W

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REVIEW REPORT
T-12044

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 following contemporary Hydrographic Surveys:

H-9620, 1:20,000 scale, dated November 14, 1977

H-9621, 1:20,000 scale, dated June 1, 1978.

There were no major conflicts.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS chart:

16660, scale 1:194,154, 22nd edition, May 8, 1982

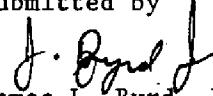
16662, scale 1:100,000, 1st edition, April 9, 1983.

The listed charts 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.

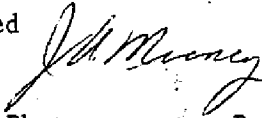
Submitted by

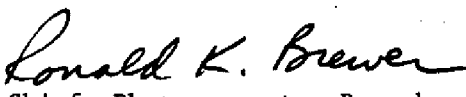

James L. Byrd, Jr.
Final Reviewer

Approved for forwarding


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Chief, Photogrammetric Section

Approved


Chief, Photogrammetry Production Sec.


Chief, Photogrammetry Branch

