

T-12346

T- 12346

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. T-12346	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 HARRIET POINT	
19 ₆₆ TO 19 ₇₄	
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 NO. T-12346 MAP EDITION NO. (1) MAP CLASS Final Map JOB PH. 6301 Pt. 2	
OFFICER-IN-CHARGE Jeffrey G. Carlen, CDR		LAST PRECEEDING 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 Aug. 20, 1973 Compilation Dec. 10, 1973			
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 Transverse Mercator		4. GRID(S) STATE Alaska ZONE 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		R. Kelly Aug 1973	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY		Allen Aug 1973 Allen Aug 1973	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY		L. O. Neterer, Jr. Mar 1974 R. R. White Mar 1974	
INSTRUMENT: Wild B-8 SCALE: 1:30,000		CONTOURS BY N.A. CHECKED BY N.A.	
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY		Irene Perkinson Apr 1974 G. R. Vanderhaven Apr 1974	
METHOD: Smooth drafted SCALE: 1:20,000		CONTOURS BY N.A. CHECKED BY N.A.	
HYDRO SUPPORT DATA BY		Irene Perkinson Apr 1974 G. R. Vanderhaven Apr 1974	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		David Butler Jun 1975	
6. APPLICATION OF FIELD EDIT DATA BY		F. Margiotta Jun 1975	
7. COMPILATION SECTION REVIEW BY		F. Margiotta Jun 1975	
8. FINAL REVIEW BY		C. Blood/J. Byrd Sept 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-12346
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8"L" and RC-9"M"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				Alaska	
				MERIDIAN	150th
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
* 67M 842 and 843	Jul.9,1967	07:50	1:60,000	0.1 ft. below MLLW	
** 66 L(C) 6039 thru 6042	Jul.17,1966	07:21	1:20,000	2.8 ft. below MLLW	
** 70 E(C) 7532 thru 7534	Jul.26,1970	12:42	1:20,000	6.6 ft. above MLLW	
** 70 E(C) 7571 thru 7573	Jul.26,1970	13:08	1:20,000	6.2 ft. above MLLW	

REMARKS
*Compilation and bridge photography.
***Hydro support photography.

2. SOURCE OF MEAN HIGH-WATER LINE:

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

3. SOURCE OF MEAN LOWER LOW-WATER LINE:

*The mean lower low water line was compiled from the above listed compilation 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
PH-6013 T-12047	T-12347	No Survey	*T-12345 and T-12349

REMARKS
*MLLW line removed from T-12349.

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

T-12346

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION Premarking ☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	N.E. Taylor	Jun 1967
2. HORIZONTAL CONTROL	RECOVERED BY B.C.E.	Jun 1967
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY B.C.E.	Jun 1967
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 BY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY None	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
Paneled			
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
67M 842	HARRY, 1944		
3. PHOTO NUMBERS (Clarification of details)			
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			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)			

NOAA FORM 76-36C
(3-72)

* U.S. GPO: 1977-765-092/1105 Region 6

ESSA FORM 76-36c
(2-70)U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

Map T-12346

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	CDR C.A. Burroughs	June, 1974
2. HORIZONTAL CONTROL	RECOVERED BY Fairweather personnel	June, 1974
	ESTABLISHED BY	
	PRE-MARKED OR IDENTIFIED BY	
3. VERTICAL CONTROL n.a.	RECOVERED BY	
	ESTABLISHED BY	
	PRE-MARKED OR IDENTIFIED BY	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY Fairweather personnel	June, 1974
	LOCATED (Field Methods) BY	
	IDENTIFIED BY	
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 Ltjg. P. Chelgren	June, 1974
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY n.a.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

n.a.

2. VERTICAL CONTROL IDENTIFIED

n.a.

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

66L(c)6038 thru 6042, 70E(c)7532 thru 7534, and 7570 thru 7573

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

n.a.

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)

Map T-12346 (Field Edit copy); and the Field Edit Report, OPR-469-FA-74, Map T-12346.

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete, pending field edit.	April 1974	Class III Manuscript	Apr. 26, 1974	Apr. 26, 1974
Field edit applied. Compilation complete.	June 1975	Class I Manuscript	Jul. 8, 1975	Jul. 9, 1975
Final Review	Sept 1986	Final Map	2-11-87	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER (pages)	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		Jul. 16, 1975	Aid to be Charted

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: July 16, 1975
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	
	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	

5

COOK INLET

E

100

1.



12-8-64

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

T-12346

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 1967 field season consisted of recovery and premarking of horizontal control for aerotriangulation.

This map area was photographed in July 1967 with the RC-9 "M" camera at 1:60,000 scale using panchromatic film. This map area was photographed in July 1966 with the RC-8 "L" camera at 1:20,000 scale using color film. The map area was also photographed in July 1970 with the RC-8 "E" camera at 1:20,000 scale using color film.

Aerotriangulation was completed at the Washington office in August 1973.

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

Field edit was acquired for T-12346 during the 1974 field season. Field edit was applied at AMC in June 1975.

Final review was accomplished at the Atlantic Marine Center in September 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-12346

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
August 1973

21. Area Covered

The area covered by this report is the western shoreline along Cook Inlet from Redoubt Bay to Tuxedui Bay, also included was Kalgin Island. T-sheets 12344 thru 12350 cover the area.

22. Method

Three strips of photography were bridged by analytic aerotriangulation methods. Strip #1, covering Kalgin Island, was 1:40,000 color, Strips #2 & #3 covering the western shore of Cook Inlet was 1:60,000 black and white panchromatic.

Common points were located on the bridging photography and the 1:20,000 color photography being used for ratio purposes. Tie points were used between strips #2 & 3 to provide adequate junction of photography. T-sheet manuscripts were plotted on the Coradomat.

23. Adequacy of Control

Control was adequate and checked within map accuracy standards.

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.

Submitted by,

Robert B. Kelly
Robert B. Kelly

Approved by:

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

COMPILATION REPORT

T-12346

31 - DELINEATION

Delineation was accomplished using the Wild B-8 stereoplotter with 1:60,000 scale panchromatic photography. The photography was adequate.

32 - CONTROL

See the attached Photogrammetric Plot Report, dated August 1973.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

Contours are not applicable. 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 delineated from the photographs.

36 - OFFSHORE DETAILS

No statement.

37 - LANDMARKS AND AIDS

A copy of Form 76-40 for 1 non-floating aid to navigation was forwarded to Rockville, MD office on July 16, 1975.

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 U.S. Geological Survey Quadrangle: QUADS-KENAI (B-6) & (B-7), Alaska, scale 1:63,360, dated 1958.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with National Ocean Survey Chart: 8553, scale 1:194,154, Dec. 29, 1973, 15th ed.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by

J. Byrd for
Irene Perkinson
Cartographer
April 5, 1974

Approved

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

Feb. 6, 1987

GEOGRAPHIC NAMES

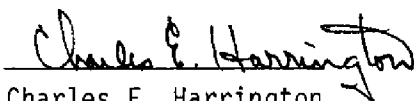
FINAL NAME SHEET

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

T-12346

Cook Inlet
Harriet Creek
Harriet Point
Redoubt Bay
Redoubt Creek

Prepared by:


Charles E. Harrington
Staff Geographer

FIELD EDIT REPORT

MAP T-12346

HARRIET POINT, ALASKA

JUNE 1974

Field edit of map T-12346 was done by Lt(jg) John A. Murphy, Lt(jg) Pamela R. Chelgren, and Lt(jg) Andrew M. Snella during June, 1974. Field inspection was made in small boats and on foot.

METHOD

Photographs and a copy of the field edit ozalid were examined in the field. Isolated rocks and foul areas were located by sextant fixes. Sextant fixes were transferred to boatsheet FA-20-1-74 (H-9435). Height data is referenced by fix number to the attached data sheets. Photographs are referenced for map T-12346. All times are based on the 135°W meridian.

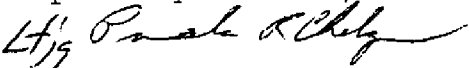
ADEQUACY OF COMPILATION

Compilation of the map is good. Comparison of hydrographic MLLW to photogrammetric MLLW will have to wait on final smooth tides. Note is made of the following addition: a rock (fix #035) at Latitude 60°25'06"N, Longitude 152°15'53"W. Field inspection of this map is complete.

RECOMMENDATIONS

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

Respectfully submitted,



Lt(jg) Pamela R. Chelgren, NOAA

FIELD EDIT REPORT
UPPER COOK INLET, ALASKA
OPR 469
SUMMER 1974

INTRODUCTION

Field edit reports are attached for the following maps:

T-12047	T-12345	T-12347	T-12350
T-12344	T-12346	T-12348	

Copies of the field edit ozalids were taken to the field. Only one copy of each photograph was furnished to the ship, so the processed cronapague photographs had to be used in the field. It is recommended that two copies, one processed and one unprocessed, of cronapague photographs be furnished to the ships for future projects. Sextant fixes were plotted on the film ozalids and transferred to the field edit ozalids. Height data for all rocks and shoreline is either written directly on the field edit ozalids, or referenced by fix number to the attached data sheets. Sextant fixes were transferred to boatsheets SU-20-1-67, SU-20-2-67, FA-20-1-74, and FA-20-3-74.

Notes have been made in violet on the ozalids, with deletions in green and signal information in orange. All times are based on the 135°W meridian.


Compilation of the maps is apparently good. There were no low water photographs furnished for Kalgin Island (T-12344, T-12347, T-12348, and T-12350). It is virtually impossible to verify photo identified rocks without the low water photographs used to compile the manuscripts. Objects not found in the field on a minus tide and not seen on the photographs made available, were deleted. These objects were quite possibly fishing floats as there are over fifty fishing floats and fishing scows anchored in the waters off Kalgin Island during the summer months. It is recommended in the future that all photographs used in the compilation of the manuscripts be furnished to the ships in the field. All discrepancies on the manuscripts are noted. In some areas comparison of the hydrographic MLLW line with the photogrammetric MLLW line will have to wait until the final smooth tides are available, as the large tides are very critical along flat, sloping beaches. It is recommended that the maps be revised in accordance with the notes on the ozalids and on the attached sheets before acceptance as advanced manuscripts. Field inspection of these maps is complete.

Respectfully submitted,



Lt(jg) Pamela R. Chelgren, NOAA

Approved and Forwarded:



Cdr. Charles A. Burroughs, NOAA
Commanding Officer
NOAA Ship FAIRWEATHER MSS-20

REVIEW REPORT
SHORELINE

T-12346

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 Hydrographic Surveys:
H-8435, 1:20,000 scale, February 22, 1978
H-8965, 1:20,000 scale, February 20, 1967.

There are no major conflicts.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with NOS chart 16662, scale 1:100,000, dated April 9, 1983.

There were no 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

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

Approved for forwarding

Billy H. Barnes
Billy H. Barnes

Chief, Photogrammetric Section, AMC

Approved

July O. Robinson
Chief, Photogrammetric Production Sec.

My. Beyer
Chief, Photogrammetry Branch

Chief, Photogrammetry Branch

