

T-13176

T-13176

NOAA FORM 76-35 (3-76)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
<b>DESCRIPTIVE REPORT</b>	
<i>Map No.</i> T-13176	<i>Edition No.</i> 1
<i>Job No.</i> PH-6709	
<i>Map Classification</i> FINAL CLASS III	
<i>Type of Survey</i> SHORELINE	
<b>LOCALITY</b>	
<i>State</i> ALASKA	
<i>General Locality</i> SHELIKOF STRAIT	
<i>Locality</i> DAKAVAK BAY	
<div style="border: 1px solid black; padding: 5px; display: inline-block;">19 67 TO 19</div>	
<b>REGISTRY IN ARCHIVES</b>	
<b>DATE</b>	

NOAA FORM 76-36A (3-72)	U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TP. T-13176
		<input checked="" type="checkbox"/> ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD		<input type="checkbox"/> RESURVEY	MAP CLASS Final Class III
		<input type="checkbox"/> REVISED	JOB PH- 6709

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

I. INSTRUCTIONS DATED	
1. OFFICE	2. FIELD
Aerotriangulation Sept 26, 1967	Premarking Feb 10, 1967
Compilation May 6, 1968	
Compilation Nov 6, 1970	

II. DATUMS	
1. HORIZONTAL:	<input checked="" type="checkbox"/> 1927 NORTH AMERICAN
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
3. MAP PROJECTION	4. GRID(S)
polyconic	STATE Alaska ZONE 5
5. SCALE 1:10,000	STATE _____ ZONE _____

III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY I. Saperstein		Apr 1968
METHOD: Analytic LANDMARKS AND AIDS BY	None	
2. CONTROL AND BRIDGE POINTS PLOTTED BY A. Bethea		Aug 1968
METHOD: Calcomp CHECKED BY L. Van Scoy		Aug 1968
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY L. Neterer		Jun 1971
COMPILATION CHECKED BY R. White		Jun 1971
INSTRUMENT: Wild B-8 CONTOURS BY NA		--
SCALE: 1:15,000 CHECKED BY NA		--
4. MANUSCRIPT DELINEATION PLANIMETRY BY R. White		Jun 1971
CHECKED BY R. White		Jun 1971
METHOD: smooth drafted CONTOURS BY NA		--
CHECKED BY NA		--
SCALE: 1:10,000 HYDRO SUPPORT DATA BY R. White		Jun 1971
CHECKED BY R. White		Jul 1971
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY R. White		Jul 1971
6. APPLICATION OF FIELD EDIT DATA BY L. Williams		Apr 1981
CHECKED BY C. Blood		Apr 1981
7. COMPILATION SECTION REVIEW BY C. Blood		Apr 1981
8. FINAL REVIEW BY J. Byrd		Mar 1987
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY J. Byrd		Apr 1987
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY P. Dempsey		Aug 1987
11. MAP REGISTERED - COASTAL SURVEY SECTION BY F.L. OAO GAERTY		AUG-87

T-13176

COMPILATION SOURCES

<b>1. COMPILATION PHOTOGRAPHY</b>					
CAMERA(S) Wild RC-8"L" FL = 151.77mm Wild RC-9"M" FL = 88.20mm		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Alaska MERIDIAN 150th <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
67L(C) 4208-4212 67L(C) 4497&4498 67M(P) 929-931	7/11/67 7/27/67 7/11/67	10:20 10:27	1:30,000 1:30,000 1:60,000	1.3 ft below MLLW 1.8 ft above MLLW Not applicable	
REMARKS					
<b>2. SOURCE OF MEAN HIGH-WATER LINE:</b> compiled from the above listed photographs					
<b>3. SOURCE OF MEAN LOW-WATER LINE:</b> compiled from the above listed photographs.					
<b>4. CONTEMPORARY HYDROGRAPHIC SURVEYS</b> (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
<b>5. FINAL JUNCTIONS</b>					
NORTH no survey	EAST T-13177	SOUTH no survey	WEST CM-7607 TP-00621 (1:20,000)		
REMARKS none					

I.  FIELD INSPECTION OPERATION  FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	N. Austin	Jun/Jul 80
2. HORIZONTAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	NA	
	S. Konrad	Jun 80
	NA	
3. VERTICAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	D. Actor	May 80
	NA	
	NA	
4. LANDMARKS AND AIDS TO NAVIGATION RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	NA	
	S. Konrad	May 80
	N. Austin	May 80
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	D. Actor	Jun/Jul 80
7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY	NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED: None  
2. VERTICAL CONTROL IDENTIFIED: None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)  
67L(C) 4208-4211  
67L(C) 4497 and 4498

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  
Waterfall (landmark)

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
67L(C) 4208	Waterfall		
67L(C) 4209	Waterfall		
67L(C) 4210	Waterfall		

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

7. SUPPLEMENTAL MAPS AND PLANS  
1 film copy of manuscript with field edit changes. No notes on paper copy.

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)  
Field Edit report and duplicate copy.  
Field Edit Data Volume - T-13176  
Computer readout for rock and control station positions  
Folder of approved tides. Use 4.68 ft plane of reference

PH-6709

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**HISTORY OF FIELD OPERATIONS**

I.  FIELD RESECTION OPERATION    premarking     FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	G. Short	Jul 1967
2. HORIZONTAL CONTROL	RECOVERED BY J. Miller	Jul 1967
	ESTABLISHED BY G. Short	Jul 1967
	PRE-MARKED OR IDENTIFIED BY J. Miller	Jul 1967
3. VERTICAL CONTROL	RECOVERED BY NA	
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED ( <i>Triangulation Stations</i> ) BY None	
	LOCATED ( <i>Field Methods</i> ) 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	BY
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED paneled		2. VERTICAL CONTROL IDENTIFIED NA	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
*67M 929	PEDMAR, 1967		

3. PHOTO NUMBERS (*Clarification of details*)  
None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  
None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

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

7. SUPPLEMENTAL MAPS AND PLANS  
None

8. OTHER FIELD RECORDS (*Sketch books, etc. DO NOT list data submitted to the Geodesy Division*)  
1 Form 152  
\*Premarked station fell outside of project limits. Station data is included with T-13176 since the station is closest to this sheet.

I. MANUSCRIPT COPIES			DATE MANUSCRIPT FORWARDED	
COMPILATION STAGES			MARINE CHARTS	HYDRO SUPPORT
DATA COMPILED	DATE	REMARKS		
Compilation complete; pending field edit	Jun 1971	Class III manuscript	7/26/71	4/2/75
Field edit applied Compilation complete	Jun 1983	Class I manuscript		
Final Review	Mar 1987	Final Map	June 1987	

**II. LANDMARKS AND AIDS TO NAVIGATION**

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		June 1987	Landmarks for charts
1		June 1987	Nonfloating aids for charts

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**

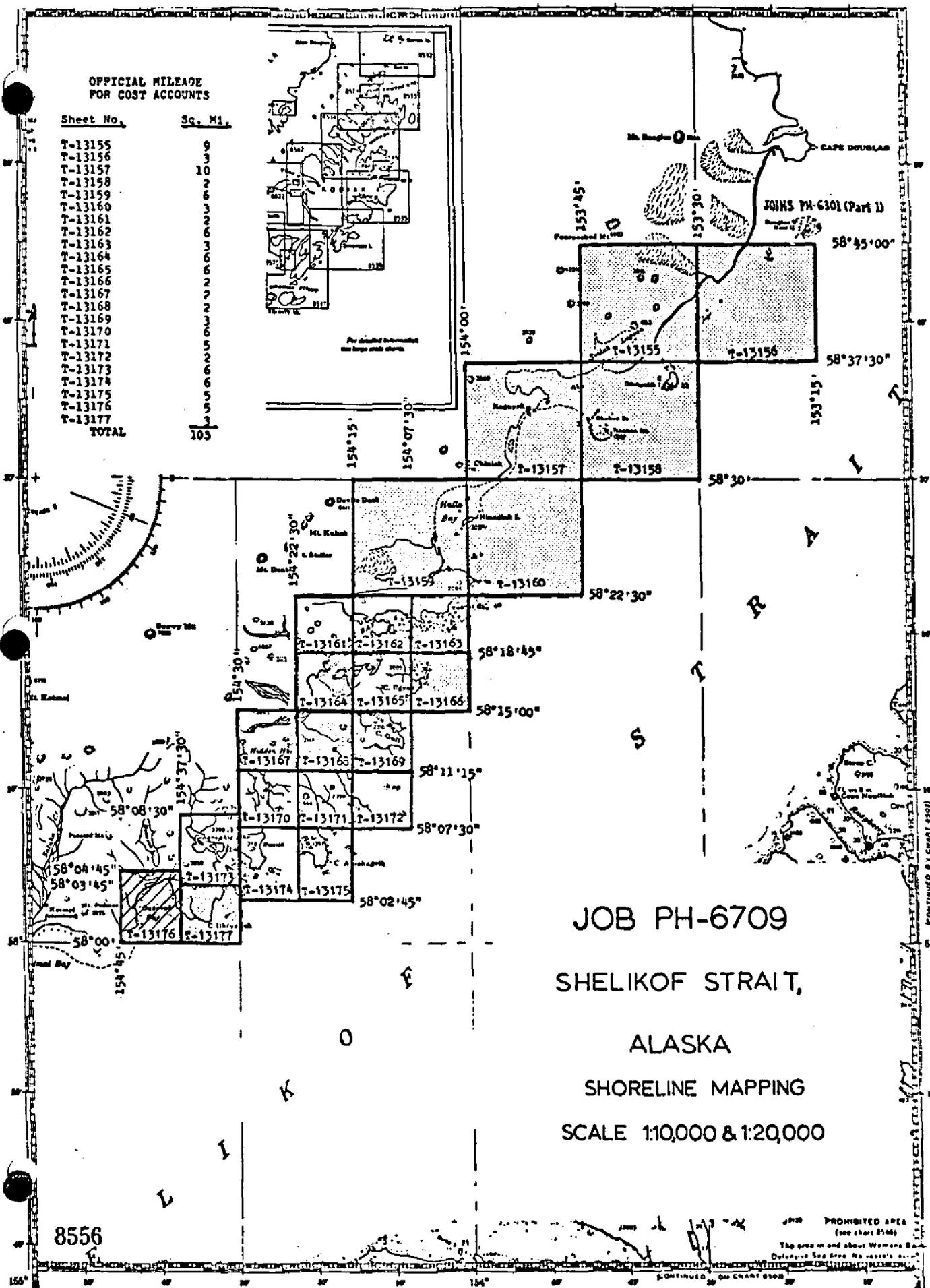
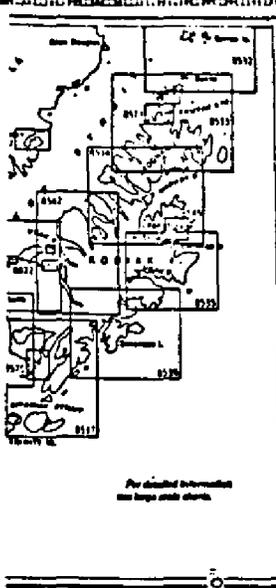
1.  BRIDGING PHOTOGRAPHS;  DUPLICATE BRIDGING REPORT;  COMPUTER READOUTS.  
 2.  CONTROL STATION IDENTIFICATION CARDS;  FORM NOS. 76-40 562 SUBMITTED BY FIELD PARTIES.  
 3.  SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:  
 4.  DATA 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	JOB NUMBER	TYPE OF SURVEY	
	TP - _____ (2)	PH - _____	<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	JOB NUMBER	TYPE OF SURVEY	
	TP - _____ (3)	PH - _____	<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	JOB NUMBER	TYPE OF SURVEY	
	TP - _____ (4)	PH - _____	<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

OFFICIAL MILEAGE  
FOR COST ACCOUNTS

Sheet No.	Sq. M1.
T-13155	9
T-13156	10
T-13157	10
T-13158	10
T-13159	10
T-13160	10
T-13161	10
T-13162	10
T-13163	10
T-13164	10
T-13165	10
T-13166	10
T-13167	10
T-13168	10
T-13169	10
T-13170	10
T-13171	10
T-13172	10
T-13173	10
T-13174	10
T-13175	10
T-13176	10
T-13177	10
<b>TOTAL</b>	<b>103</b>



JOB PH-6709  
 SHELIKOF STRAIT,  
 ALASKA  
 SHORELINE MAPPING  
 SCALE 1:10,000 & 1:20,000

8556

PROHIBITED AREA  
 (see chart 8546)  
 The area in and about Wetmore Bay  
 is a National Wildlife Refuge. No  
 landing is permitted in this area.

CONTINUED ON CHART 8500

CONTINUED ON CHART 8500

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

T-13176

This 1:10,000 scale Final Class III (Partial edit) shoreline map is one of twenty-three maps designated as project PH-6709, Shelikof Strait, Cook Inlet, Alaska. Six maps are 1:20,000 scale and seventeen maps are 1:10,000 scale.

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. The map area was also photographed in July 1967 with the RC-8 "L" camera at 1:30,000 scale using color film.

Aerotriangulation was completed at the Washington Office in April 1968.

This map was compiled at the Norfolk Office in July 1971.

Field edit was acquired for T-13176 during the 1980 field season. Field edit was applied at AMC in 1981.

Final review was accomplished at the Atlantic Marine Center in March 1987. 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 Class III Map. The original base manuscript and all related data were forwarded to the Washington Science Center for final registration.

## FIELD INSPECTION

T-13176

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.



- h. Map T-13176(PH-6709) represents conflicting data. This map depicts detail compiled from photographs controlled using pre-1976 geodetic data and 1980 field information based on adjusted geodetic data.
- i. Users of PH-6709 data must be alerted about the geodetic adjustment. Users will be required to effect a datum adjustment before this data is used in the production of charts, other maps or surveys, etc.

2. Actions Required. Because of the 1976 geodetic adjustment, the following actions are required and to be taken immediately:

- a. Make appropriate report documentation for each map of PH-6709 indicating that map detail is based on geodetic control positions prior to the 1976 adjustment and add this statement to each map: "The National Geodetic Survey readjusted the geodetic network in 1976. This map is based on geodetic control positions prior to the adjustment." Because CM-7607 is based on adjusted control, a map notation is not required. However, for the one map junctioning with PH-6709, report documentation addressing the datum conflict is required.
- b. Field data developed in 1980 was applied to T-13176(PH-6709). Data applied based on 1980 field geodetic positions are to be removed. This will generally include geodetic stations and rocks. Data applied based on map detail/photo image points are adequate and will remain in the photogrammetric records, e.g.; area limits, items graphically applied, items intersected using radial plot principals.
- c. Field data and records acquired that are based on 1980 geodetic field control and affecting T-13176 are to be transferred to the hydrographic record for H-9887 and H-9896 through N/CG2321. It will be necessary to prepare duplicate field records to remain with photogrammetric data.
- d. A map copy of T-13176, after it is updated, will be required to complete H-9887/H-9896 and is to be routed through N/CG2321 to N/CG24.

3. Miscellaneous. A request has been made by N/CG24 for an updated copy of T-13176 before 4/20/83. If compliance with this request cannot be met, please inform this office immediately. Completion schedule for final review is pending and will be addressed by subsequent instructions.

cc:  
N/CG2342  
N/CG24  
N/MOA221 ✓

## COMPILATION REPORT

T-13176

31. DELINEATION:

Compilation was by the Wild B-8 method using color photography taken July 27, 1967. The photography was adequate.

32. CONTROL:

See Photogrammetric Plot Report dated April 1968.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable. Drainage was compiled from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

All details were compiled from office interpretation of the photographs.

36. OFFSHORE DETAILS:

None.

37. LANDMARKS AND AIDS:

There were no charted nonfloating aids or landmarks and none were noted during stereoscopic instrument compilation.

38. CONTROL FOR FUTURE SURVEY:

None.

39. JUNCTIONS:

Junctions have been made with T-13173 to the east, north of latitude 58 02' 45" and T-13177 to the east, south of latitude 58 02' 45". There is no contemporary survey to either the south, west, or north.

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40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with USGS Quadrangles MT. KATMAI (A-2), ALASKA and MT. KATMAI (A-3), ALASKA, both at 1:63,360 scale and dated 1951. Extensive ledge areas have been shown on the manuscript that were not mapped on the quadrangles.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with NOS Chart 8556 scale 1:350,000, 3rd edition, dated October 23, 1967.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

*Charles E. Blood*  
*for*Richard R. White  
Cartographic Technician  
June 9, 1971

Approved:

*Charles E. Blood*  
*for*Albert C. Rauck, Jr.  
Chief, Coastal Mapping Division, AMC

## ADDENDUM TO THE COMPILATION REPORT

T-13176

FIELD EDIT

Map detail originally compiled by photogrammetric methods is based on geodetic control positions prior to the 1976 NGS adjustment. Field edit data that was based on map detail/photo image points was adequate and included as part of the manuscript. Edit data based on 1980 field geodetic positions were not used due to the fact that it was based on the 1976 NGS adjustment of approximately -0.02 second in latitude and +0.84 second in longitude. The unused data consisted of four control stations and numerous rocks.

Field data and records acquired based on 1980 geodetic field control that affect this manuscript have been transferred to the hydrographic record for H-9887 and H-9896. Duplicate field records have been prepared to remain with the photogrammetric data.

The field editor recommended new photography to correctly delineate the MHWL. Some of the extensive shoreline erosion mentioned by the field editor can be accounted for by the 14 meter shift in longitude. The datum shift does not, however, explain the difference in the MHWL in the northern part of Dakavak Bay.

Foul areas on the western side of the bay and at mid-bay as well as the MLLWL at the tidal flat in the northern part of the bay were resolved on the hydrographic survey rather than on this manuscript.

After the application of the 1980 field edit to this manuscript, features offshore from the MHWL would not junction with T-13177 to the east. T-13177 was field edited in 1975 with shallow and foul limits shown. T-13176 was field edited in 1980 with ledge shown. Photographs 67L(C) 4498 and 67L(C) 4509 were used to make a satisfactory junction. Ledge was continued on T-13177 and foul limits were continued on T-13176.

One new landmark (WATERFALL) was identified by the editor and positioned by photogrammetric methods.

T-13176

The following Field Edit Positions based on 1980 field geodetic control were removed from this manuscript:

<u>Control Stations</u>	<u>Rocks (within sheet limits)</u>
URSUS, 1980	Position # 6001
FLEECE, 1980	Position # 6002
DOLLY, 1980	Position # 6003
ENSIGN, 1980	Position # 6004
	Position # 6005
	Position # 6006
	Position # 6007
	Position # 6008
	Position # 6009
	Position # 6010
	Position # 6011
	Position # 6012
	Position # 6013
	Position # 6014
	Position # 6015
	Position # 6016
	Position # 6017
	Position # 6018
	Position # 6019

Rocks (on manuscript border)

Position # 6020  
 Position # 6021  
 Position # 6022  
 Position # 6023  
 Position # 6024  
 Position # 6025  
 Rock # 6026 was field located but  
 fell beyond sheet limits

Position #6030 WATERFALL (landmark) was not used. A photogrammetric position was used instead.

GEOGRAPHIC NAMES

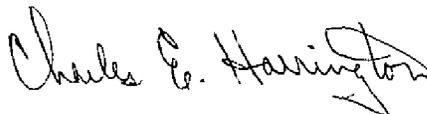
FINAL NAME SHEET

PH-6709 (Shelikof Strait, Alaska)

T-13176

Alaska Peninsula  
Dakavak Bay  
Shelikof Strait

Approved:



Charles E. Harrington  
Chief Geographer  
Nautical Charting Division  
Charting and Geodetic Services

FIELD EDIT REPORT  
T-13176  
DAKAVAK BAY, ALASKA  
OPR-P146-DA-80  
NOAA SHIP DAVIDSON

June - July 1980

INTRODUCTION

Field Edit on manuscript T-13176 was completed by David I. Actor, Ens., NOAA. The map manuscript T-13176 covers an area from Latitude 58/01/30 N to Latitude 58/04/00 N. and Longitude 154/37/30 W to Longitude 154/45/00 W. The map manuscript includes portions of field sheets H-9886 and H-9887, and was used in support of this hydrography.

METHODS

Field Edit was conducted in accordance with Project Instructions OPR-P146-DA-80 Shelikof Strait, Alaska, and the Manual of Coastal Mapping Field Procedures, Chapter 11. Features were located by three-point sextant fix with check angle, three point sextant fix with check azimuth, Range-Azimuth with a check range, and by twin T-2 cuts with a check angle. One position, 6030 (base of waterfall) was photopicked. The MHWL was determined by taped distances and magnetic bearings from triangulation stations (see signal list).

Equipment used is as follows:

- Tamaya Sextant
- Wild T-2 Theodolite, S/N 19302
- Leitz TMI-A Theodolite, S/N 1885
- Miniranger Transponder codes 1 and 3
- Miniranger R/T units, S/N 719) See appended baseline calibration
- Miniranger Console, S/N 707 )

For Range-Azimuth with check range, the skiff, outfitted with console (output in whole meters) and R/T unit, was maneuvered up to the object being positioned, and rates were recorded simultaneously as an azimuth was observed to the R/T unit. Azimuths were observed from station URSUS, 1980 RMI (Signal No. 015) while miniranger transponders were located on URSUS, 1980 (009) (Code 1) and ENSIGN 1980 (006) (Code 3). A check to ensure the miniranger system's ability to fall within the acceptable limits of the baseline calibration ( $\pm 5$  meters for hydrography and  $\pm 5$  meters for field edit on a 1:10,000 scale sheet) was conducted at the end of the day (JD 197). The object used for calibration was rock position 6001, for which rates were computed using RK300, Utility Computations Program, on the DAVIDSON's on board PDP8E computer. The check indicated that minimum standards were met. Computations for three-point sextant fix with check angle, twin T-2 cuts, and range-azimuth with check range were accomplished using RK330, Utility Computations Program. Position 6030 (photopicked position at base of waterfall) was computed from meters to seconds of latitude and longitude using RK301, visual station table maker. Copies of computations are appended. Checks for twin T-2 cuts with check angle and three-point sextant fix with check azimuth were accomplished by means of a three-arm protractor. The twin T-2 cuts were observed from station PEDMAR RM 2, 1967 (016) and station URSUS, 1980 (009).

<u>Position Number</u>	<u>Julian Date</u>	<u>Type of Control</u>
6001 - 6010	196	T-2 intersection, three-point fix with check angle, three-point fix with check azimuth
6011 - 6026	197	Range-Azimuth with check range
6027 - 6029, 6031	158	Taped distance with magnetic bearing (computed to true bearing) from triangulation stations
6030	158	Photo picked position

Positions 6020 thru 6026 are actually located on TP-00621, but, were fixed and used on this T-sheet (T-13176) to aid hydrography for DA10-4-80 (H-9896). These positions are also present on adjacent T-sheet TP 00621, 1:20,000 scale.

A copy of the signal list is appended to this report. All stations meet third-order accuracy standards or greater except for temporary station MOOSE, 1980 (013) which is 4th order. MOOSE, 1980 was only used for a MHWL measurement (position 6028, JD 158).

The cronopague ratio photos were taken into the field (the matte ratio photos were very grainy and of inferior quality) and used to clarify detail on the paper ozalid. All original data was recorded on the field copy ozalid or notepaper and transferred to a sounding volume.

The Field Edit Sheet was inked as follows:

Violet: Verification of general notes  
 Red: Additions  
 Green: Deletions

Photographs are referenced from the field edit sheet to the specific photo involved. These general notes are in violet only. Information that was determined by hydrographic means is referenced on the field edit sheet in red as "See Hydro."

#### Adequacy of Compilation

The map compilation of shoreline was possibly accurate when the photos were flown 13 years ago (July, 1967), but, the shoreline has been subject to changes since then. As illustrated by the MHWL measurements (positions 6027 thru 6031) the shoreline exhibits changes which may be accounted for by erosion due to wave action (consistent swell pattern out of the southwest). Specific areas are around station FLEECE, 1980 where the soil consists of loosely packed dirt, pumice, and rock; and around station DOLLY, 1980, where soil conditions consist of sand and pumice with vegetation which is subject to shifting due to water and weather. Map compilation of ledge and rocky areas is fair. It is understandable that the composition is only fairly accurate (as to detail) being that the photographs are terrible, i.e. glare cuts out photographic visibility of the significant foul areas on this T-sheet. Also, there are many artifacts on the photos which were mistaken for rocks which required field investigation to disprove their existence.

Map Accuracy

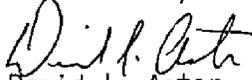
The MHWL has been checked and indicates changes ranging from 10 to 20 meters. The MHWL may be considered adequate, even with these changes due to wind and weather. The photos are simply too old and should be updated for shoreline compilation. Changes in the MHWL of the above magnitude may be expected in a large portion of the project area. An accurate delineation of the shoreline by the field editor would require numerous fixes or plane table work and substantial time. The more appropriate course is new photos and photographic compilation. The MLLW is adequately delineated by hydrographic data from 58/02/00 N on the eastern shore, extending north around the perimeter of the bay to 58/03/10 N on the western shore. The remainder of the shoreline on this T-sheet could not be sounded for MLLW delineation due to ledge and foul areas. The significant rocky area in the central southwestern area of Dakavak Bay also is adequately defined by the hydrographic data. The other significant rocky area in the southwest part of T-13176 (southern most position 6012) is adequately defined by field edit data provided on T-13176 and in this report. The foul limit in this area varies from 30 to 100 meters off the outermost rocks dependent upon the severity of the hazards present. The foul limit in this area was delineated by these distances off located hazards and later confirmed by the surrounding and adjacent hydrographic sounding lines.

All stream inflows at Dakavak Bay on T-13176 were observed during field edit operations and confirmed as to their existence and correct classification on the manuscripts.

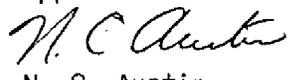
RECOMMENDATIONS

This manuscript may be considered complete with the corrections compiled from the field edit and with the following note; new photography should be flown for a more accurate delineation of the MHWL.

Submitted by:

  
David I. Actor  
ENS, NOAA

Approved and forwarded by:

  
N. C. Austin  
CDR, NOAA  
Commanding Officer



REVIEW REPORT  
SHORELINE  
T-13176

61. GENERAL STATEMENT:

See the summary included with this Descriptive Report. The National Geodetic Survey readjusted the geodetic network in 1976. This map is based on a geodetic datum that existed prior to that adjustment.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Not applicable.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A contemporary Hydrographic Survey for this map was not available for comparison at time of final review.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the NOS chart 16576, 1:80,000 scale, dated November 16, 1985, 1st edition.

This 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. L. Byrd, Jr.*

James L. Byrd, Jr.  
Final Reviewer

Approved for forwarding:

*Billy H. Barnes*

Billy H. Barnes  
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