# Descriptive Report

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>T-13170</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Job No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH-6709</td>
</tr>
</tbody>
</table>

**Map Classification**
- FINAL FIELD EDITED MAP

**Type of Survey**
- SHORELINE

## Locality

- **State**: ALASKA
- **General Locality**: SHELIKOF STRAIT
- **Locality**: KINAK BAY

---

**1967 TO 1975**

---

**Registry in Archives**

**Date**
### Descriptive Report - Data Record

#### Photogrammetric Office
Coastal Mapping Division, AMC, Norfolk, Virginia

**Officer-in-Charge:** Jeffrey G. Carlen

#### Instructions Dated

<table>
<thead>
<tr>
<th>Activity</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerotriangulation</td>
<td>09/26/67</td>
</tr>
<tr>
<td>Compilation</td>
<td>05/06/68</td>
</tr>
<tr>
<td>Compilation</td>
<td>11/06/70</td>
</tr>
</tbody>
</table>

#### Field
- Premarking: Feb 10, 1967

#### Datums

<table>
<thead>
<tr>
<th>Datum Type</th>
<th>Description</th>
<th>Other (Specify)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Horizontal</td>
<td>1927 North-American</td>
<td></td>
</tr>
<tr>
<td>2. Vertical</td>
<td>Mean high-water</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mean low-water</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mean lower low-water</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mean sea level</td>
<td></td>
</tr>
</tbody>
</table>

#### Map Projection
- Polyconic

#### Grids
- State: Alaska
- Zone: 5

#### Scale
- 1:10,000

#### History of Office Operations

<table>
<thead>
<tr>
<th>Operation</th>
<th>Method</th>
<th>Name</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Aerotriangulation</td>
<td>Analytic</td>
<td>I. Saperstein</td>
<td>Apr 1968</td>
</tr>
<tr>
<td>2. Control and Bridge Points</td>
<td>Calcomp</td>
<td>A. Betha</td>
<td>Jul 1968</td>
</tr>
<tr>
<td>4. Manuscript Delineation</td>
<td>Planmetry</td>
<td>F. Margiotta</td>
<td>Apr 1971</td>
</tr>
<tr>
<td>5. Office Inspection Prior to Field Edit</td>
<td>Smooth drafted</td>
<td>R. White</td>
<td>Apr 1971</td>
</tr>
<tr>
<td>6. Application of Field Edit Data</td>
<td></td>
<td>R. White</td>
<td>Apr 1971</td>
</tr>
<tr>
<td>7. Compilation Section Review</td>
<td></td>
<td>F. Margiotta</td>
<td>Jun 1976</td>
</tr>
<tr>
<td>9. Data Forwarded to Photogrammetric Branch</td>
<td></td>
<td>J. Byrd</td>
<td>Apr 1987</td>
</tr>
<tr>
<td>10. Data Examined in Photogrammetric Branch</td>
<td></td>
<td>P. Margiotta</td>
<td>Jun 1976</td>
</tr>
<tr>
<td>11. Map Registered - Coastal Survey Section</td>
<td></td>
<td>E. L. Daugherty</td>
<td>Aug 1977</td>
</tr>
</tbody>
</table>
### Compilation Sources

**Camera(s):**
- Wild RC-9"M" FL=88.20mm
- Wild RC-8"L" FL=151.77mm

**Tide Stage Reference**
- Predicted Tides
- Reference Station Records
- Tide Controlled Photography

<table>
<thead>
<tr>
<th>Number and Type</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>67L(C)4611-4615</td>
<td>7/27/67</td>
<td>13:18</td>
<td>1:30,000</td>
<td>4.2 ft above MLLW</td>
</tr>
<tr>
<td>67H(P)932-935</td>
<td>7/11/67</td>
<td></td>
<td>1:60,000</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Remarks**

2. Source of Mean High-Water Line:

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

3. Source of Mean Lower Low-Water Line:

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

4. Contemporary Hydrographic Surveys

(List only those surveys that are sources for photogrammetric survey information.)

<table>
<thead>
<tr>
<th>Survey Number</th>
<th>Date(s)</th>
<th>Survey Copy Used</th>
<th>Survey Number</th>
<th>Date(s)</th>
<th>Survey Copy Used</th>
</tr>
</thead>
</table>

5. Final Junctions

<table>
<thead>
<tr>
<th>North</th>
<th>East</th>
<th>South</th>
<th>West</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-13167</td>
<td>T-13171</td>
<td>T-13174</td>
<td>T-13173</td>
</tr>
</tbody>
</table>

**Remarks**
none
**NOAA FORM 76-36C**

**HISTORY OF FIELD OPERATIONS**

1. **FIELD INSPECTION OPERATION** Pre-marking  □ FIELD EDIT OPERATION

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. CHIEF OF FIELD PARTY</td>
<td>G. Short</td>
<td>June 1967</td>
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</table>

2. **HORIZONTAL CONTROL**

<table>
<thead>
<tr>
<th>RECOVERED BY</th>
<th>ESTABLISHED BY</th>
<th>PRE-MARKED OR IDENTIFIED BY</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
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<td>None</td>
</tr>
</tbody>
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3. **VERTICAL CONTROL**

<table>
<thead>
<tr>
<th>RECOVERED BY</th>
<th>ESTABLISHED BY</th>
<th>PRE-MARKED OR IDENTIFIED BY</th>
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</thead>
<tbody>
<tr>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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</table>

4. **LANDMARKS AND AIDS TO NAVIGATION**

<table>
<thead>
<tr>
<th>RECOVERED (Triangulation Stations) BY</th>
<th>LOCATED (Field Method) BY</th>
<th>IDENTIFIED BY</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
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5. **GEOGRAPHIC NAMES INVESTIGATION**

<table>
<thead>
<tr>
<th>TYPE OF INVESTIGATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPLETE BY</td>
</tr>
<tr>
<td>SPECIFIC NAMES ONLY</td>
</tr>
<tr>
<td>□ NO INVESTIGATION</td>
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6. **PHOTO INSPECTION**

<table>
<thead>
<tr>
<th>CLARIFICATION OF DETAILS BY</th>
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<tr>
<td>None</td>
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7. **BOUNDARIES AND LIMITS**

<table>
<thead>
<tr>
<th>SURVEYED OR IDENTIFIED BY</th>
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<tbody>
<tr>
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8. **SOURCE DATA**

1. **HORIZONTAL CONTROL IDENTIFIED**

<table>
<thead>
<tr>
<th>PHOTO NUMBER</th>
<th>STATION NAME</th>
<th>PHOTO NUMBER</th>
<th>STATION DESIGNATION</th>
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</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
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<td></td>
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2. **VERTICAL CONTROL IDENTIFIED**

<table>
<thead>
<tr>
<th>PHOTO NUMBER</th>
<th>STATION NAME</th>
<th>PHOTO NUMBER</th>
<th>STATION DESIGNATION</th>
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</thead>
<tbody>
<tr>
<td>NA</td>
<td>None</td>
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</table>

3. **PHOTO NUMBERS (Clariification of details)**

<table>
<thead>
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<th>None</th>
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</table>

4. **LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED**

<table>
<thead>
<tr>
<th>PHOTO NUMBER</th>
<th>OBJECT NAME</th>
<th>PHOTO NUMBER</th>
<th>OBJECT NAME</th>
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<tbody>
<tr>
<td>None</td>
<td>None</td>
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5. **GEOGRAPHIC NAMES:** □ REPORT □ NONE

<table>
<thead>
<tr>
<th>REPORT</th>
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<tbody>
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6. **BOUNDARY AND LIMITS:** □ REPORT □ NONE

<table>
<thead>
<tr>
<th>REPORT</th>
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<tbody>
<tr>
<td>□</td>
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7. **SUPPLEMENTAL MAPS AND PLANS**

<table>
<thead>
<tr>
<th>None</th>
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8. **OTHER FIELD RECORDS (Sketch books, etc. DO NOT flat data submitted to the Geodvey Division)**

<table>
<thead>
<tr>
<th>None</th>
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NOAA FORM 76-36C

*U.S. GOVERNMENT PRINTING OFFICE: 1974 - 788-078*
### History of Field Operations

<table>
<thead>
<tr>
<th>Operation</th>
<th>Name</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chief of Field Party</td>
<td>R. Alderman</td>
<td>May 1975</td>
</tr>
<tr>
<td><strong>Field Inspection Operation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Horizontal Control</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Vertical Control</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Landmarks and Aids to Navigation</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td><strong>Field Edit Operation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geographic Names Investigation</td>
<td>Thomas &amp; Anderly</td>
<td>May 1975</td>
</tr>
<tr>
<td>Photo Inspection</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Boundaries and Limits</td>
<td>NA</td>
<td></td>
</tr>
</tbody>
</table>

### Source Data

| Horizontal Control Identified    | NA         |           |
| Vertical Control Identified      | NA         |           |

### Photo Numbers

- 671-6519, 4609, 4613, 4617

### Landmarks and Aids to Navigation Identified

None

### Geographic Names

- Report: None

### Boundary and Limits

- Report: None

### Supplemental Maps and Plans

None

### Other Field Records

- Field edit report
- Field edit ozalid
### I. MANUSCRIPT COPIES

<table>
<thead>
<tr>
<th>DATA COMPILED</th>
<th>DATE</th>
<th>REMARKS</th>
<th>DATE MANUSCRIPT FORWARDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compilation complete, pending field edit</td>
<td>4/14/71</td>
<td>Class III manuscript Superseded</td>
<td>1/11/80 5/14/71 4/2/75</td>
</tr>
<tr>
<td>Field edit applied, Compilation complete</td>
<td>6/18/76</td>
<td>Class I manuscript</td>
<td>1/11/80 8/4/76</td>
</tr>
<tr>
<td>Final Review</td>
<td>Feb. '87</td>
<td>Final Map</td>
<td>June 1987</td>
</tr>
</tbody>
</table>

### II. LANDMARKS AND AIDS TO NAVIGATION

None

### III. FEDERAL RECORDS CENTER DATA

1. [ ] BRIDGING PHOTOGRAPHS; [ ] DUPLICATE BRIDGING REPORT; [ ] COMPUTER READOUTS.
2. [ ] CONTROL STATION IDENTIFICATION CARDS; [ ] FORM NOS. SUBMITTED BY FIELD PARTIES.
3. [ ] SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.

### IV. SURVEY EDITIONS

<table>
<thead>
<tr>
<th>SURVEY EDITION</th>
<th>SURVEY NUMBER</th>
<th>JOB NUMBER</th>
<th>TYPE OF SURVEY</th>
<th>MAP CLASS</th>
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<tbody>
<tr>
<td>SECOND</td>
<td></td>
<td></td>
<td>REVISIONED</td>
<td>II. III. IV. V. FINAL</td>
</tr>
<tr>
<td>THIRD</td>
<td></td>
<td></td>
<td>RESURVEY</td>
<td>II. III. IV. V. FINAL</td>
</tr>
<tr>
<td>FOURTH</td>
<td></td>
<td></td>
<td>REVISED</td>
<td>II. III. IV. V. FINAL</td>
</tr>
</tbody>
</table>

NOAA FORM 76-36D
JOB PH-6709
SHELIKOF STRAIT,
ALASKA
SHORELINE MAPPING
SCALE 1:10,000 & 1:20,000
SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT
T-13170

This 1:10,000 scale Final 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 April 1971.

Field edit was acquired for T-13170 during the 1975 field season. Field edit was applied at AMC in June 1976.

Final review was accomplished at the Atlantic Marine Center in February 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 Field Edited Map. The original base manuscript and all related data were forwarded to the Washington Science Center for final registration.
FIELD INSPECTION
T-13170

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
Job PH-6709
Shelikof Strait, Alaska

April 1968

21. Area Covered

The area of this report covers the western shore of Shelikof Strait, Alaska, and consists of seven (7) 1:20,000 scale T-sheets, T-13154 thru T-13160 and seventeen (17) 1:10,000 scale T-sheets T-13161 thru T-13177.

22. Method

Strips 1, 2, 3 and 4 were bridged by analytic aerotriangulation methods. Strips 211, 212, 222, 223, 232, 233, 241 and 281 were bridged by stereoplanigraph using tie points located by the analytic bridge. Strips 224, 231, 242 and 243 were not bridged, but sufficient points have been located to set the models. Photographs 4576 and 4578 on sheet T-13174 are to be compiled graphically using points to be transferred from the color plates to the ratio prints. This is a water model and may be difficult to set.

The attached sketch of the strips bridged shows the placement of triangulation used in the final strip adjustments. Closures to control are shown for each strip on the IBM readout, along with all bridge points on Alaska Zone 5 plane coordinates.

23. Adequacy of Control

Horizontal control is adequate to control strips 1, 2, 3 and 4. All color photographs that were bridged used tie points and horizontal control. This was adequate. All horizontal control was premarked with the exception of DAKAVAK, 1967 and KINAK, 1967. RC-9 photography on strip 2 was flown before the above stations were panelled. KINAK, 1967 was transferred on the FUG from strip 4 to strip 2. DAKAVAK, 1967 was outside the limits of strip 1 and 4 and it was impossible to transfer the point from the color photography due to a poor area. DAKAVAK, 1967 was therefore omitted from the adjustment of strip 2.

DOUGLAS, 1964 could not be held in the adjustment of strip 3. The station is at the extreme edge of the photograph where film distortion is greatest.

24. Supplemental Data

Vertical control needed for the adjustment was taken from USGS quadrangles.
25. **Photography**

The definition and quality of the RC-9 "M" and RC-8 "L" color photography were fair and good respectively. Coverage was adequate to compile all sheets.

Ratio prints have been ordered from the 1:40,000 scale color photographs on black and white base that cover the 1:20,000 scale sheets. Ratio prints have also been ordered from the 1:30,000 scale color photographs on black and white base that cover the 1:10,000 scale sheets.

Respectfully submitted,

[Signature]

I. I. Saperstein

Approved and forwarded

[Signature]

Chief, Aerotriangulation Section
1. PEDMAR, 1967
2. DAKAVAK, 1967
3. KINAK, 1967
4. ATUSHAGVIK 2, 1967
5. KULIAK, 1908
6. HEAD, 1967
7. S.P. DIME, 1949
8. S.P. BRUCE 2, 1967
9. HOOK, 1967
10. CHINIAK, 1967
11. SWIKSHAK, 1967
12. OAK, 1908
13. SUKCI, 1967
14. DOUGLAS, 1967

AEROTRIANGULATION
SHELIKOF STRAIT,
ALASKA

> Control used in adjustment
○ Strips bridged analytically
● Strips bridged by stereoplotter
□ Strips not bridged; models to be sealed using points from analytic bridge.
TO: N/CG232 - George M. Ball  
N/MOA22 - A. Y. Bryson  

FROM: N/CG23 - Lawrence W. Fritz  

SUBJECT: Geodetic Datum, Jobs PH-6709 and CM-7607 Part II  

A horizontal datum conflict occurs between these jobs. This conflict was detected during an evaluation of 1980 field data developed for PH-6709. A complete review of project data for both jobs has been conducted to seek the proper course of action required to resolve this matter.

1. Review. The examination revealed the following:

a. Maps comprising each job are Class I and unreviewed.

b. Copies of unreviewed maps have been furnished in support of hydrography by N/MOA22.

c. N/CG232 has not released any data to N/CG22.

d. Aerotriangulation of each job checked well within the specified standards.

e. The National Geodetic Survey, in 1976, readjusted segments of the control network within the region of Alaska covered by these photogrammetric jobs. This action affected all geodetic stations used in these projects and resulted in an adjustment of approximately -.02 second in latitude and +.84 second in longitude to the stations.

f. The datum conflict occurs because base compilation of PH-6709 is based on aerotriangulated positions determined using geodetic station positions prior to the 1976 adjustment and CM-7607 compilation is controlled using post-1976 adjusted geodetic positions.

g. Conflict between jobs went unnoticed during aerotriangulation and compilation. Two reasons probably caused this; aerotriangulation operations were accomplished independently and meet standards, and the shoreline at the junction between jobs is oriented in an east-west direction and the major datum shift occurs in longitude.
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/CQ2321. 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/CQ2321 to N/CQ24.

3. Miscellaneous. A request has been made by N/CQ24 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/CQ2342
N/CQ24
N/MOA221
COMPILATION REPORT

T-13170

31. Delineation:

Delineation was by the Wild B-8 stereoplotter. The photography was adequate.

32. Control:

See Photogrammetric Plot Report dated April 1968.

33. Supplemental Data:

None.

34. Contours and Drainage:

Contours are not applicable to the project. Drainage was delineated on the Wild B-8 stereoplotter from office interpretation (stereoscopic) of the ratioed photographs.

35. Shoreline and Alongshore Details:

Alongshore details were delineated on Wild B-8 stereoplotter from office inspection of the ratioed photographs.

The mean high water line was office edited and refined from the ratioed photographs.

36. Offshore Details:

No unusual problems.

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:**

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

40. **HORIZONTAL AND VERTICAL ACCURACY:**

Refer to the Photogrammetric Report, dated April 1968.

46. **COMPARISON WITH EXISTING MAPS:**

A comparison was made with USGS Quadrangle MT. KATMAI (A-2) ALASKA, scale 1:63,360 dated 1951.

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:

F. Margiotta  
Cartographic Technician  
April, 1971

Approved:

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

FINAL NAME SHEET

PH-6709 (Shelikof Strait, Alaska)

T-13170

Alaska Peninsula
Kinak Bay

Approved:

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

Map T-13170

Kinak Bay, Alaska

May, 1975

Field edit of map T-13170 was done by Lt. Thomas, Lt(jg) Anderly and Lt(jg) Gulley during May, 1975. Field inspection of the area was done at various stages of the tide by skiff and on foot.

METHOD

Photographs and a copy of the field edit ozalid were examined in the field. The mean high water line was corrected where it was found in error, and inked in on the photographs and film ozalids. All field edit data and corrections are noted on the photographs, film ozalid or paper ozalid. All times are based on GMT.

ADEQUACY OF COMPILATION

Compilation of this map is good. MHWL was corrected when found in error. Note:

- No rocks were visible at low water in the vicinity of 58°09.5'N, 154°26.8'W nor at 58°09.65'N, 154°26.5'W.

- A rock was found at 58°08.04'N, 154°27.47'W.

- No foul area found at 58°07.93'N, 154°25.1'W; however there is some evidence of shoaling in this area as seen on boatsheet H-9521.

Field inspection of this map is complete.

RECOMMENDATIONS

It is recommended that the map be revised in accordance with the notes on the photographs and ozalid, and that the map be accepted as an advance manuscript.
FIELD EDIT REPORT

Cape I1ktugitak to Douglas Reef, Alaska

OPR - 478

Summer 1975

Introduction

Field edit reports are attached for the following Job PH-6709 maps:

T-13155 through T-13175, and T-13177

Manuscript T-13176 was not field edited since the survey area did not include Dakavak Bay.

Copies of the field edit ozaids were taken into the field. All notes were made on these field ozaids. The matte ratio prints were used as a last resort in the field when the field ozaid did not provide enough information. The matte ratio prints were found to be of poor quality, very grainy and lacking clarity. These photographs were also hard to handle in the field because of paper curl and stiffness. The cronapaques were of slightly better quality (in clarity and definition) than the matte ratio prints, but they still left a lot to be desired because of their graininess.

Another problem encountered with these photographs was the stage of the tide at the time of photography. Many of the rocks shown on the manuscripts could not be found on the photographs because the tide was too high in these photographs. It would be of great help to have photographs taken at a lower tidal stage.

Apparently color photographs of the area are available. However, none were furnished. Color photographs are far superior to black and white photographs in clarity and definition, and with the added feature of color, are of greater value to the field editor. It is highly recommended that color photographs be furnished in the future.

Compilation of the maps is generally good. All notes were made in violet ink on the ozaids and cronapaques, with deletions in green ink and references to hydrography in red ink. All heights of rocks were estimated by the field editor. Where required, the MNL was located by measuring distances from photoidentifiable points, as noted on the photographs. All times are based on G.M.T.

Turbid water (due to glacial runoff) in several bays of the project area made it difficult to locate some of the rocks and shoal areas. Due to
the vast amount of area and shoreline involved, and to the fact that all hydrography was electronically controlled, it was impractical to establish visual signals to be used for field edit. Therefore, the hydrographic launches, and their electronic positioning equipment, were utilized to locate detached positions.

The dashed line symbol on the field edit ozalid was found rather confusing, since it depicts three different features: the approximate MLWL, foul limits, and ledge limits.

It is recommended that these maps be revised in accordance with the notes on the ozalids and cromapaques and on the attached sheets before acceptance as advanced manuscripts. Field inspection of these maps is complete, except as noted on the individual reports.

Respectfully Submitted:

Joanne Gulley
Lt(jg), NOAA

Approved and Forwarded:

Richard E. Alderman
CDR, NOAA
Commanding Officer,
NOAA Ship FAIRWEATHER (MSS-20)
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 comparison was made with Hydrographic Survey H-9521, 1:10,000 scale, dated June 1975. There were no major conflicts.

65. COMPARISON WITH NAUTICAL CHARTS:

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

The chart compared well with this manuscript.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the Project Instructions, and meets the requirements for National Standards of Map Accuracy.

Submitted by:

James L. Byrd, Jr.
Final Reviewer

Approved for forwarding:

Billy H. Barnes
Chief, Quality Assurance Group, AMC

Approved:

Chief, Photogrammetric Productions Sec.  Chief, Photogrammetry Branch
**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.

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