<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Shoreline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Job No.</td>
<td>PH-6715</td>
</tr>
<tr>
<td>Map No.</td>
<td>T-13193</td>
</tr>
<tr>
<td>Classification No.</td>
<td>1</td>
</tr>
<tr>
<td>Edition No.</td>
<td>1</td>
</tr>
<tr>
<td>Field Edited Map</td>
<td></td>
</tr>
</tbody>
</table>

**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>Alaska</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Locality</td>
<td>Middleton Island</td>
</tr>
<tr>
<td>Locality</td>
<td>Middleton Island, SW</td>
</tr>
</tbody>
</table>

**1967 TO 1969**

**REGISTRY IN ARCHIVES**

**DATE**
**DESCRIPTIVE REPORT - DATA RECORD**

**PHOTOGRAMMETRIC OFFICE**

Coastal Mapping Division
Atlantic Marine Center, Norfolk, Virginia

**OFFICER-IN-CHARGE**

Jeffrey G. Carlen, Cdr., NOAA

**I. INSTRUCTIONS DATED**

<table>
<thead>
<tr>
<th>1. OFFICE</th>
<th>2. FIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridging</td>
<td>7/26/67</td>
</tr>
<tr>
<td>Compilation</td>
<td>9/08/67</td>
</tr>
</tbody>
</table>

**II. DATUMS**

1. **HORIZONTAL:**

   - 1927 NORTH AMERICAN

2. **VERTICAL:**

   - MEAN HIGH-WATER

**III. HISTORY OF OFFICE OPERATIONS**

<table>
<thead>
<tr>
<th>OPERATIONS</th>
<th>NAME</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. AEROTRIANGULATION</td>
<td>Robert E. Kelly</td>
<td>8/67</td>
</tr>
<tr>
<td>2. CONTROL AND BRIDGE POINTS</td>
<td>F. Wilson</td>
<td>8/67</td>
</tr>
<tr>
<td>3. STEREOSCOPIC INSTRUMENT COMPOSITION</td>
<td>J. Steinberg</td>
<td>8/67</td>
</tr>
<tr>
<td>4. MANUSCRIPT DELINEATION</td>
<td>F. P. Margiotta</td>
<td>10/67</td>
</tr>
<tr>
<td>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</td>
<td>C. H. Bishop</td>
<td>11/67</td>
</tr>
<tr>
<td>6. APPLICATION OF FIELD EDIT DATA</td>
<td>C. H. Bishop</td>
<td>11/67</td>
</tr>
<tr>
<td>7. COMPILATION SECTION REVIEW</td>
<td>R. R. White</td>
<td>3/70</td>
</tr>
<tr>
<td>8. FINAL REVIEW</td>
<td>B. L. Barge</td>
<td>3/70</td>
</tr>
<tr>
<td>9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH</td>
<td>C. H. Bishop</td>
<td>6/77</td>
</tr>
<tr>
<td>10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH</td>
<td>D. Brant</td>
<td>7/77</td>
</tr>
<tr>
<td>11. MAP REGISTERED - COASTAL SURVEY SECTION</td>
<td>R. Cato</td>
<td>10/77</td>
</tr>
</tbody>
</table>

**NOAA FORM 70-36A SUPERSEDES FORM C&GS 181 SERIES**

* U.S. G.P.O. 1972-769382/582 REG.#6
T-13193

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(s): Wild RC-3 "L" and "K"

TIDE STAGE REFERENCE

ZONE: Alaska - Hawaii

TIME REFERENCE

MERIDIAN: 150th

STANDARD

STAGE OF TIDE

NUMBER AND TYPE | DATE | TIME | SCALE | STAGE OF TIDE
--- | --- | --- | --- | ---
*67 L(O) 3814 thru 3818 | 7/02/67 | 11:31 | 1:20,000 | 4.7 ft. above MLW
*67 L(O) 3838 thru 3942 | 7/07/67 | 08:54 | 1:20,000 | 2.8 ft. above MLW
*67 L(O) 3854 thru 3856 | 7/07/67 | 09:02 | 1:20,000 | 2.8 ft. above MLW
67 L(I) 4174 and 4175 | 7/10/67 | 14:32 | 1:20,000 | 8.2 ft. above MLW
67 L(I) 4188 thru 4192 | 7/10/67 | 14:44 | 1:20,000 | 8.2 ft. above MLW
69 K(I) 4144 and 4145 | 8/15/69 | 09:37 | 1:20,000 | 0.5 ft. below MLW
69 K(I) 4163 thru 4166 | 8/15/69 | 10:33 | 1:20,000 | 1.0 ft. above MLW

REMARKS

*Bridge and compilation photography.

2. SOURCE OF MEAN HIGH-WATER LINE:

The MHW line was graphically compiled from field edit delineation on ratio prints of Photos 67 L(O) 3815 and 3856.

3. SOURCE OF MEAN LOWER LOW-WATER LINE:

The MLW line was graphically compiled from the 1967 color photography, then verified and revised where necessary when the 1969 low-water infrared photography became available.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER | DATE(S) | SURVEY COPY USED | SURVEY NUMBER | DATE(S) | SURVEY COPY USED
--- | --- | --- | --- | --- | ---
5. FINAL JUNCTIONS

NORTH | T-13191 | EAST | T-13194 | SOUTH | No Contemporary Survey | WEST | No Contemporary Survey

REMARKS
HISTORY OF FIELD OPERATIONS

1. **FIELD INSPECTION OPERATION**
   - OPERATION: CHIEF OF FIELD PARTY
     - RECOVERED BY: NA
     - ESTABLISHED BY: NA
     - PRE-MARKED OR IDENTIFIED BY: NA
     - NAME: R. B. Melby
     - DATE: 5-6/67

2. **HORIZONTAL CONTROL**
   - RECOVERED BY: R. B. Melby
   - ESTABLISHED BY: R. B. Melby
   - PRE-MARKED OR IDENTIFIED BY: R. B. Melby
   - NAME: R. B. Melby
   - DATE: 5-6/67

3. **VERTICAL CONTROL**
   - RECOVERED BY: NA
   - ESTABLISHED BY: NA
   - PRE-MARKED OR IDENTIFIED BY: NA
   - NAME: R. B. Melby
   - DATE: 5-6/67

4. **LANDMARKS AND AIDS TO NAVIGATION**
   - RECOVERED (Triangulation Stations) BY: None
   - LOCATED (Field Methods) BY: None
   - IDENTIFIED BY: None

5. **GEOGRAPHIC NAMES INVESTIGATION**
   - COMPLETE
   - SPECIFIC NAMES ONLY
   - NO INVESTIGATION
   - TYPE OF INVESTIGATION
   - CLARIFICATION OF DETAILS BY: R. B. Melby
   - DATE: 5-6/67

6. **PHOTO INSPECTION**
   - CLARIFICATION OF DETAILS BY: NA

7. **BOUNDARIES AND LIMITS**
   - SURVEYED OR IDENTIFIED BY: NA

II. SOURCE DATA

1. **HORIZONTAL CONTROL**
   - PREMARKED
   - PHOTONUMBER: 67 L 3839
   - STATION NAME: IDLE, 1967
   - PHOTONUMBER: 67 L 3841
   - STATION NAME: EATON, 1967

2. **VERTICAL CONTROL IDENTIFIED**
   - PHOTONUMBER: None
   - STATION DESIGNATION: None

3. **PHOTO NUMBERS (Clarification of details)**
   - 64 S(C) 6969, 6971, 6972 and 6980 (1:10,000 scale transparencies)

4. **LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED**
   - PHOTONUMBER: None
   - OBJECT NAME: None

5. **GEOGRAPHIC NAMES:**
   - REPORT: Yes
   - NONE

6. **BOUNDARY AND LIMITS:**
   - REPORT: Yes
   - NONE

7. **SUPPLEMENTAL MAPS AND PLANS**
   - None

8. **OTHER FIELD RECORDS** (Sketch books, etc. DO NOT list data submitted to the Geodetic Division)
   - Field Inspection Report
   - 2 CSI Cards
### HISTORY OF FIELD OPERATIONS

<table>
<thead>
<tr>
<th>Operation</th>
<th>Name</th>
<th>Date</th>
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<tbody>
<tr>
<td>Chief of Field Party</td>
<td>John B. Watkins, Jr.</td>
<td>6-8/69</td>
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<tr>
<td>Horizontal Control</td>
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<tr>
<td>Vertical Control</td>
<td></td>
<td>NA</td>
</tr>
<tr>
<td>Landmarks and Aids to Navigation</td>
<td></td>
<td>NA</td>
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<tr>
<td>Geographic Names Investigation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Photo Inspection</td>
<td>J. M. Wintenmyre</td>
<td>Aug. 1969</td>
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<tr>
<td>Boundaries and Limits</td>
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<td>NA</td>
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### SOURCE DATA

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<th>Horizontal Control Identified</th>
<th>Vertical Control Identified</th>
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<tbody>
<tr>
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### PHOTO NUMBERS (Clarification of details)

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<th>Photo Number</th>
<th>Station Name</th>
<th>Photo Number</th>
<th>Station Designation</th>
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<tr>
<td>67 L(C) 3815</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>3856</td>
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### LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None identified. Form 567 was prepared by the Ship FAIRWEATHER. A copy is bound with this Descriptive Report. It was not duplicated by Photogrammetry.

<table>
<thead>
<tr>
<th>Photo Number</th>
<th>Object Name</th>
<th>Photo Number</th>
<th>Object Name</th>
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</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

### GEOGRAPHIC NAMES:

- Report: None
- None

### BOUNDARY AND LIMITS:

- Report: None

### SUPPLEMENTAL MAPS AND PLANS

None

### OTHER FIELD RECORDS (Sketch books, etc. DO NOT list date submitted to the Geodasy Division)

- Field Edit Report
- Field Edit Ozalid
**T-13193 RECORD OF SURVEY USE**

### I. MANUSCRIPT COPIES

<table>
<thead>
<tr>
<th>Compilation Stages</th>
<th>Date</th>
<th>Remarks</th>
<th>Date Manuscript Forwarded</th>
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<tr>
<td>Compilation complete, pending field edit.</td>
<td>10/67</td>
<td>Class III Manuscript Superseded</td>
<td>12/67</td>
</tr>
<tr>
<td>Field edit applied. Compilation complete.</td>
<td>3/70</td>
<td>Class I Manuscript Superseded</td>
<td></td>
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<tr>
<td>Foul limits revised.</td>
<td>1/77</td>
<td>Class I Manuscript Superseded</td>
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<tr>
<td>Final Review</td>
<td>6/77</td>
<td>Final</td>
<td>6/77</td>
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### II. LANDMARKS AND AIDS TO NAVIGATION

#### 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

<table>
<thead>
<tr>
<th>Number</th>
<th>Chart Letter</th>
<th>Date Forwarded</th>
<th>Remarks</th>
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<tr>
<td>1</td>
<td></td>
<td>9/69</td>
<td>Form 567 forwarded by Ship FAIRWEATHER. Copy bound with this report. Not duplicated by Photogrammetry.</td>
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#### 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; **
2. **DUPLICATE BRIDGING REPORT; **
3. **COMPUTER READOUTS. **
4. **CONTROL STATION IDENTIFICATION CARDS; **
5. **FORM NOS. 567 SUBMITTED BY FIELD PARTIES. **
6. **SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. **
7. **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)

<table>
<thead>
<tr>
<th>Second Edition</th>
<th>Survey Number</th>
<th>Job Number</th>
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<tbody>
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<td></td>
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SUMMARY

PROJ. PH-6715 is comprised of four 1:10,000 scale shoreline maps covering Seldovia Island, Alaska, approximately 12 miles southwest of Montague Island, in the Gulf of Alaska. It is within the area affected by the earthquake of March 1964.

The purpose of the project is to provide photo-hydrographic support for contemporary hydrographic surveys and up-to-date shoreline for nautical charts.

The inspection in May and June 1967 was not complete. No shoreline water line was classified. The foreshore and intertidal areas were clarified, some additional horizontal control was established, horizontal control was required for baseline, photography used by the field inspector as 1:10,000 scale color transparencies taken in August 1966.

A new planigraph bridge was run at the Seldovia Office, August 1967, using color photography taken in July 1967.

Initial compilation was done at the Atlantic Marine Center in October 1967 and classified "ADVANCE" because it was prepared by field inspection. Under present policy, classification would be "ADVANCE" because, even though the classification is incomplete, it was inconclusive. Site controlled color photography taken in July 1967 at half-tide, or less, was used for interior details, foreshore area classification, soundings, mean lower low water line, and rocks. Because of uplift caused by the earthquake and the structure of the foreshore and subtidal area, office interpretation of the photographs was difficult. Interpretation of the mean lower low water line was especially difficult. The roughness of the sea and the time of photography caused more breakage action over the subtidal seas, making them more difficult to interpret. In some places, where breakage indicated on the color photographs taken at a 3-foot stage of tides, no rocks were apparent on infrared photographs taken at a minus 1-foot tide. The mean high water line was typically compiled from office interpretation, using tide-controlled high water infrared photography taken in July 1967.
Field edit was done in the summer of 1969 by the Ship FAIRWEATHER and applied to the manuscripts at the Atlantic Marine Center in March 1970. The entire mean high water line was identified on the 1967 color photography by the field editor. Field clarification of this line was not in agreement with office interpretation - the entire mean high water line was corrected on the manuscripts. Foul lines were revised and rocks not found by the field editor were deleted. The only rock height data given by the field editor was for Map T-13192.

Final review was done at the Atlantic Marine Center in June 1977. Comparison with the contemporary hydrographic surveys revealed that topographic information on the smooth sheets for these surveys was transferred from the manuscripts before field edit application. When field edit was applied, numerous changes were made which have not been carried forward to the smooth sheets of the hydrographic surveys.

The original manuscripts were compiled on vinylite sheets on a format 4 minutes in latitude by 5 minutes in longitude. They were forwarded to the Rockville Office for preparation of registration copies.
FIELD INSPECTION REPORT
Project Ph-6715
Middleton Island, Alaska
May-June 1967

3. HORIZONTAL CONTROL:

Horizontal control was established by triangulation and electronic traverse methods to locate the stations required for the control of the aerial triangulation and hydrographic surveys. Four marked stations were established and four previously located intersection stations were redetermined. Two no-check position traverse stations were located by the usual steel tape traverse methods. They are reference marks.

Five of the horizontal stations were panelled with white, opaque plastic triangles for photo-identification. Form 152 control station identification forms were completed for each station.

4. VERTICAL CONTROL

Vertical control consisted of establishing a tide staff for the control of the mean high water photography. The tidal datum of 1966 (\textit{a} MIDDLETON, 1933) was the basis for the vertical datum to determine the mean high water value on the tide staff. A connection was made with the bench marks set in 1933. A 24 hour tide observation series on the tide staff was completed. The data is being forwarded to Chief, Tides.

5. OFFSHORE FEATURES

The entire foreshore area was visually inspected by a field party. Along the eastern shore of the island are extensive ledge-like features consisting of hard clay, hard clay with boulders or a sand, gravel, boulder conglomerate. No solid bedrock was detected on the island. Certain foreshore areas were strewn with smooth detached boulders. Hard clay ledge-like features are apparent along the west shore of the island.

The composition of the foreshore has been indicated on the field, color transparencies.

Submitted by
Robert B. Melby
Supervisory survey technician C&GS

Approved
G.L. Short
CDR, USESSA
Cmdg. Ship
PATHFINDER
U.S. COAST & GEODETIC SURVEY
JAMES C. TISON, DIRECTOR
HORIZONTAL CONTROL
PROJECT SP-5-67 (PH 6715)
MIDDLETON ISLAND, ALASKA
G.L. SHORT CHIEF OF PARTY
MAY 1967
PHOTOGRAMMETRIC PLOT REPORT
Job PH-6715
Middleton Island, Alaska

August 21, 1967

21. Area Covered

The area covered consists of Middleton Island, Alaska, and includes T-sheets T-13191 thru T-13194.

22. Method

A stereoplanigraph bridge consisting of five models, 67-L(C)-3832, 3834, 3836, 3838, 3840 and 3841, was run to provide points for B-8 compilation. Also provided were points to ratio both color and infrared photography in the immediate area. The bridge was controlled and adjusted on five horizontal stations.

23. Adequacy of Control

Control was adequate and complied with job instructions. All horizontal control held within National Map Accuracy Standards. All control is 1957 unadjusted field positions.

24. Supplemental Data

None

25. Photography

Photography was adequate as to coverage, overlap and definition.

Submitted by:

Robert B. Kelly

Robert B. Kelly

Approved by:

John D. Perrow, Jr
# DESCRIPTIVE REPORT CONTROL RECORD

**MAP NO.** T-13193  
**JOB NO.** PH-6715  
**GEODETTIC DATUM** NA 1927

<table>
<thead>
<tr>
<th>STATION NAME</th>
<th>SOURCE OF INFORMATION (Index)</th>
<th>AEROTRIANGULATION POINT NUMBER</th>
<th>COORDINATES IN FEET</th>
<th>GEOGRAPHIC POSITION</th>
<th>REMARKS</th>
<th>FORWARD</th>
<th>BACK</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOR, MIDDLETON ISLAND</td>
<td>Unadj. Field</td>
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<td>x= 59 25 20.56</td>
<td>φ 59 25 20.56</td>
<td></td>
<td>636.2</td>
<td>(1220.5)</td>
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<tr>
<td>RADIO MDO, 1965</td>
<td>Unadj. Field</td>
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<td>y= 146 20 53.50</td>
<td>λ 146 20 53.50</td>
<td></td>
<td>843.7</td>
<td>(102.5)</td>
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<tr>
<td>ETON, R.M. 1, 1967</td>
<td>Unadj. Field</td>
<td></td>
<td>y= 146 21 07.766</td>
<td>λ 146 21 07.766</td>
<td></td>
<td>122.5</td>
<td>(823.7)</td>
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<td>ETON, 1967</td>
<td>Unadj. Field</td>
<td></td>
<td>x= 59 24 46.54</td>
<td>φ 59 24 46.54</td>
<td></td>
<td>1440.2</td>
<td>(416.5)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>y= 146 21 46.56</td>
<td>λ 146 21 46.56</td>
<td></td>
<td>734.5</td>
<td>(212.0)</td>
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<td></td>
<td></td>
<td></td>
<td>x= 59 24 46.010</td>
<td>φ 59 24 46.010</td>
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<td>1423.8</td>
<td>(432.9)</td>
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<td>y= 146 21 47.309</td>
<td>λ 146 21 47.309</td>
<td></td>
<td>746.3</td>
<td>(200.2)</td>
</tr>
</tbody>
</table>

**COMPUTED BY** A. C. Rauck, Jr.  
**DATE** 9/06/67  
**COMPUTATION CHECKED BY** C. H. Bishop  
**DATE** 9/06/67  
**LISTED BY**  
**DATE**  
**LISTING CHECKED BY**  
**DATE**  
**HAND PLOTTING BY**  
**DATE**

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.
COMPILATION REPORT

Map Manuscripts T-13191, T-13192, T-13193 and T-13194
Project PH-6715
Middleton Island, Alaska
November 1967

31. **DELINEATION:**

The Wild B-8 plotter was used to drop additional pass points and to delineate interior details. Shoreline and offshore details were compiled by graphic methods.

32. **CONTROL:**


33. **SUPPLEMENTAL DATA:**

None.

34. **CONTOURS AND DRAINAGE:**

Contours are inapplicable.

There are no large streams on this island. Some of the more prominent small streams were delineated from office interpretation of the photographs.

35. **ALONGSHORE AND SHORELINE DETAILS:**

Field inspection was limited to clarification of interior details and character of the foreshore area; no location of the mean high water line was done by the field inspector. The mean high water line was compiled graphically from office interpretation of infrared photographs taken at mean high water. Determination of the waterline from these photographs was extremely doubtful along a large percentage of the shoreline. It should be checked at frequent intervals by the field editor.

An approximate mean lower low water line was delineated from office interpretation of ratio prints of color photographs taken at one-half tide or less.
Foul areas around the island appear to be extensive. Foul lines of a general nature were delineated without going into great detail. Limits and character of foul areas shown should be verified by the hydrographer.

36. OFFSHORE DETAILS:

Several images on the photographs were delineated as rocks awash on Maps T-13192, T-13193 and T-13194. The hydrographer should determine if these are actually rocks awash or just breakers.

37. LANDMARKS AND AIDS:

The field editor is requested to investigate landmarks and aids.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

All junctions between sheets are satisfactory. See Form 76-368, Item 5, for each map.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with USGS Quadrangle MIDDLETON ISLAND (B-7), ALASKA, scale 1:63,360, dated 1955.
47. **COMPARISON WITH NAUTICAL CHARTS:**

A comparison was made with Chart 8551, scale 1:200,000, 12th edition, dated May 17, 1965. The area adjacent to the shoreline is apparently much more shoal than is indicated on this chart. Infrared photographs taken at mean high water indicate that the mean high water line is further offshore on the manuscript than on the chart.

**ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:**

None.

**ITEMS TO BE CARRIED FORWARD:**

None.

Submitted by:

Charles H. Bishop
Charles H. Bishop
Cartographer
November 1967

Approved:

Albert C. Rauck, Jr.
Chief, Compilation Section, AMC
ADDENDUM TO THE COMPILATION REPORT
T-13193

41. FIELD EDIT:

The mean high water line was identified on the photos by the field editor, kelp and foul lines were sketched on the Field Edit Ozalid, and additional rocks were approximately positioned on the ozalid. These changes were applied graphically to the manuscript. No rock data (height, time, and date) were given by the field editor.

A copy of the Form 567 submitted by the Ship FAIRWEATHER was included with the field edit data. This was not duplicated by Photogrammetry.

Charles H. Bishop
Final Reviewer
June 15, 1977
May 6, 1977

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6715 (Middleton Island, Alaska)

T-13193

Gulf of Alaska

Middleton Island

Approved by:

Charles E. Harrington
Staff Geographer, C51x2
### PHOTOGRAMMETRIC OFFICE REVIEW

**T-13193**

<table>
<thead>
<tr>
<th>1. PROJECTION AND GRIDS</th>
<th>2. TITLE</th>
<th>3. MANUSCRIPT NUMBERS</th>
<th>4. MANUSCRIPT SIZE</th>
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</thead>
<tbody>
<tr>
<td>CHB</td>
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**CONTROL STATIONS**

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<tr>
<th>5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY</th>
<th>6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)</th>
<th>7. PHOTO HYDRO STATIONS</th>
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<tr>
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<table>
<thead>
<tr>
<th>8. BENCH MARKS</th>
<th>9. PLOTTING OF Sextant fixes</th>
<th>10. PHOTOGRAMMETRIC PLOT REPORT</th>
<th>11. DETAIL POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHB</td>
<td>CHB</td>
<td>Bridge - W.O.</td>
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**LONGSHORE AREAS** *(Nautical Chart Data)*

<table>
<thead>
<tr>
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<th>13. LOW-WATER LINE</th>
<th>14. ROCKS, SHOALS, ETC.</th>
<th>15. BRIDGES</th>
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<tbody>
<tr>
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<table>
<thead>
<tr>
<th>16. AIDS TO NAVIGATION</th>
<th>17. LANDMARKS</th>
<th>18. OTHER LONGSHORE PHYSICAL FEATURES</th>
<th>19. OTHER LONGSHORE CULTURAL FEATURES</th>
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</thead>
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**PHYSICAL FEATURES**

<table>
<thead>
<tr>
<th>20. WATER FEATURES</th>
<th>21. NATURAL GROUND COVER</th>
<th>22. PLANETABLE CONTOURS</th>
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<tbody>
<tr>
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<table>
<thead>
<tr>
<th>23. STEREOSCOPIC INSTRUMENT CONTOURS</th>
<th>24. CONTOURS IN GENERAL</th>
<th>25. SPOT ELEVATIONS</th>
<th>26. OTHER PHYSICAL FEATURES</th>
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**CULTURAL FEATURES**

<table>
<thead>
<tr>
<th>27. ROADS</th>
<th>28. BUILDINGS</th>
<th>29. RAILROADS</th>
<th>30. OTHER CULTURAL FEATURES</th>
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<tbody>
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**BOUNDARIES**

<table>
<thead>
<tr>
<th>31. BOUNDARY LINES</th>
<th>32. PUBLIC LAND LINES</th>
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<td>CHB</td>
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</tbody>
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**WISCELLANEOUS**

<table>
<thead>
<tr>
<th>33. GEOGRAPHIC NAMES</th>
<th>34. JUNCTIONS</th>
<th>35. LEGIBILITY OF THE MANUSCRIPT</th>
</tr>
</thead>
<tbody>
<tr>
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<table>
<thead>
<tr>
<th>36. DISCREPANCY OVERLAY</th>
<th>37. DESCRIPTIVE REPORT</th>
<th>38. FIELD INSPECTION PHOTOGRAPHS</th>
<th>39. FORMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHB</td>
<td>CHB</td>
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<td>CHB</td>
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</tbody>
</table>

**REVIEWER**

- **Charles H. Bishop**
  - 11/67

**SUPERVISOR, REVIEW SECTION OR UNIT**

- **Albert C. Rauck, Jr.**
  - 3/09/70
  - 3/10/70

**REMARKS** *(See attached sheet)*

**FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT**

- Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

**COMPILED**

- **R. White**
  - 3/09/70

**SUPERVISOR**

- **Albert C. Rauck, Jr.**
  - 3/09/70

**Reviewer**

- **B. L. Barge**
  - 3/10/70

**FIELD EDIT APPLIED FROM:** Field Edit Ozalid

**COLOR RATIOS:** 67 L 3815 and 67 L 3856.
FIELD EDIT REPORT
OPR-487
MIDDLETON ISLAND

Field edit of OPR-487, Middleton Island, was accomplished during the period of June - August, 1969.

METHODS
Field edit was accomplished during hydrographic survey operations, where practical. Sextant cuts, estimated distances, and bearings were used to locate offshore detail.

The highwater line was determined by walking the entire beach line and was sketched on the color ratio photos in violet ink.

The elevations of landmarks to be charted were determined by sextant angles and ground elevations taken from UCGS quadrangle charts.

Corrections to the T sheets were made on the field edit sheets with black pen and violet pencil. Notes on the photos are in violet ink.

The following are the T sheets and photos with field edit data:

<table>
<thead>
<tr>
<th>T sheets</th>
<th>Photos</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-13191</td>
<td>67-L-3815</td>
</tr>
<tr>
<td>T-13192</td>
<td>67-L-3856</td>
</tr>
<tr>
<td>T-13193</td>
<td>67-L-3858</td>
</tr>
<tr>
<td>T-13194</td>
<td>67-L-3860</td>
</tr>
<tr>
<td></td>
<td>67-L-3862</td>
</tr>
</tbody>
</table>
ADEQUACY OF COMPILATION

The compilation is generally good. However, on the west side and south end of the island the many individual rocks shown on the T sheets are included in vast foul areas. The offshore limits of the foul areas were determined during survey operations. To investigate anything inshore of this limit was considered too dangerous.

The survey shows the shoal bar off the north tip of the island to be slightly different in size and location than compiled.

The kelp areas on the west side of the island are much more extensive than compiled. These are shown as determined from the survey.

The MHWL was sketched on the color ratio photos. The ship shown on the beach line on the west side of the island is the COLDBROOK.

RECOMMENDATIONS

It is recommended that the T sheets be corrected as noted on the photos and field edit sheets. Thus corrected, the T sheets should be accepted for advance manuscripts.

Approved and forwarded:

[Signature]

James M. Wintermyre
LCDR., USESSA
**NONFLOATING AIDS OR LANDMARKS FOR CHARTS**

**MIDDLETON ISLAND, ALASKA**  
**SEPT., 1969**

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated.

The positions given have been checked after listing by [Signature]

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<table>
<thead>
<tr>
<th>STATE</th>
<th>ALASKA</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>METHOD OF LOCATION AND SURVEY No.</th>
<th>DATE OF LOCATION</th>
<th>CHART AFFECT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED &amp; WHITE TOWER</td>
<td>MIDDLETON IS. H. MARKER</td>
<td></td>
<td>59° 27′</td>
<td>126° 19′</td>
<td>N.A.</td>
<td>TRANSMISSION 1968</td>
<td>✓</td>
</tr>
<tr>
<td>WHITE TOWER</td>
<td>MAST, 1965 (LIGHTED)</td>
<td></td>
<td>59° 27′</td>
<td>126° 19′</td>
<td></td>
<td>1968</td>
<td>✓</td>
</tr>
<tr>
<td>WHITE TOWER</td>
<td>VOR, MIDDLETON IS. RADIO MDO</td>
<td></td>
<td>59° 27′</td>
<td>126° 19′</td>
<td>843.70</td>
<td></td>
<td>1965</td>
</tr>
<tr>
<td>AIRPORT BEACON</td>
<td>AIRPORT BEACON, MIDDLETON ISLAND</td>
<td></td>
<td>59° 27′</td>
<td>126° 19′</td>
<td>843.70</td>
<td></td>
<td>1965</td>
</tr>
<tr>
<td>CENTER BEACON</td>
<td>TAIL SUPPORT FOUNDATION</td>
<td></td>
<td>59° 27′</td>
<td>126° 19′</td>
<td>843.70</td>
<td></td>
<td>1965</td>
</tr>
</tbody>
</table>

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This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-35, 2-39, 6-36, 7-18 to 22 Inclusive, and Fig. 79. Positions of charted aids and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* Tabulate seconds and meters
REVIEW REPORT
T-13193
SHORELINE
June 15, 1977

61. GENERAL STATEMENT:

See Summary, which is Page 6 of this Descriptive Report.

No comparison print was made for this map.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with a copy of Survey T-4819, 1:20,000 scale, dated July 1933. Differences in the mean high water line and mean lower low water line indicate that the earthquake of March 1964 caused uplift in this area.

In the area compared, T-13193 supersedes T-4819 for nautical chart construction purposes. T-4819 is the latest prior registered survey of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with USGS Quadrangle MIDDLETON ISLAND, ALASKA, 1:63,360 scale, dated 1955. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with copies of the smooth sheets for the following contemporary hydrographic surveys: H-9047 (FA 10-01-69) and H-9049 (FA 20-1-69).

The origin of the mean high water line, mean low water line, and foul limits on these surveys is a copy of T-13193 in the Class III stage of compilation. The entire MHWL, part of the MLLWL, and most of the foul line were changed by field edit. These changes had not been applied to the hydrographic smooth sheets at the time copies were made.

Several rocks were added by the hydrographer. Two are visible on the photographs at the positions indicated on the smooth sheets and were added to T-13193. Others are not visible on the photographs at the positions indicated by the hydrographer and are not shown on T-13193.
It appears that the hydrographer's positions on some rocks are in error. Because the elevation of these rocks are well above the charting datum, they should be visible on infrared photographs taken at 1.0 ft. above MLLW, but they are not. Three specific instances are:

<table>
<thead>
<tr>
<th>Position</th>
<th>Rock Elev.</th>
<th>Approx. distance and direction from nearest rock that possibly could satisfy the elev. given</th>
<th>Hydro Survey</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Lat. 58° 23' 06.0&quot; Long. 146° 22' 59.2&quot;</td>
<td>(11)</td>
<td>100 meters SW</td>
<td>H-9049</td>
</tr>
<tr>
<td>2. Lat. 58° 23' 01.6&quot; Long. 146° 22' 13.6&quot;</td>
<td>(8)</td>
<td>110 meters E</td>
<td>H-9049</td>
</tr>
<tr>
<td>3. Lat. 59° 23' 20.0&quot; Long. 146° 23' 00.0&quot;</td>
<td>(4)&amp;(5)</td>
<td>50 meters W</td>
<td>H-9047</td>
</tr>
</tbody>
</table>

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 16700 (8551), 1:20,000 scale, 17th edition, dated September 8, 1976. No significant differences were noted.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted:

Charles H. Bishop
Cartographer
June 15, 1977

Approved for forwarding:

Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch  Chief, Coastal Mapping Division