**NOAA FORM 76-35**

**U.S. DEPARTMENT OF COMMERCE**
**NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION**
**NATIONAL OCEAN SURVEY**

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Shoreline</th>
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<tbody>
<tr>
<td>Job No.</td>
<td>PH-6410</td>
</tr>
<tr>
<td>Map No.</td>
<td>T-12709</td>
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<tr>
<td>Classification No.</td>
<td>Incomplete</td>
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**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>Alaska</th>
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<tbody>
<tr>
<td>General Locality</td>
<td>Montague Island</td>
</tr>
<tr>
<td>Locality</td>
<td>Putnam Point, Green Island</td>
</tr>
</tbody>
</table>

| 1964 TO 19 |

**REGISTRY IN ARCHIVES**

**DATE**

**U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901**

*CLASS III MANUSCRIPT*
# DESCRIPTIVE REPORT - DATA RECORD

**T - 12709**

## PROJECT NO. (III):

PH-6410

## FIELD OFFICE (III):

None

## CHIEF OF PARTY

OFFICER-IN-CHARGE

Atlantic Marine Center, Norfolk, Va.

J. Bull - Director

## INSTRUCTIONS DATED (II) (III):

<table>
<thead>
<tr>
<th>Field</th>
<th>Aug. 21, 1964</th>
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<tbody>
<tr>
<td>Office</td>
<td>Feb. 8, 1965</td>
</tr>
<tr>
<td>Field</td>
<td>Feb. 18, 1965</td>
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<tr>
<td>Office, Amendment I</td>
<td>Feb. 19, 1965</td>
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<tr>
<td>Field</td>
<td>Apr. 2, 1965</td>
</tr>
<tr>
<td>Office</td>
<td>Dec. 6, 1965</td>
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<tr>
<td>Office Amendment I</td>
<td>Jan. 1966</td>
</tr>
<tr>
<td>Field</td>
<td>Mar. 15, 1966</td>
</tr>
<tr>
<td>Office Amendment I</td>
<td>Apr. 26, 1966</td>
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## METHOD OF COMPILATION (III):

Kelsh Plotter

## STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:6,000 pantographed to 1:10,000

## MANUSCRIPT SCALE (III):

1:10,000

## DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

DATE REGISTERED (IV):

AUG 1978

## VERTICAL DATUM (III):

MHW

## GEOGRAPHIC DATUM (III):

N.A. 1927

## REFERENCE STATION (III):

TREY 1933

## LAT.:

60° 13'16.11" (1428.1M) 147° 28' 15.056" (231.8M)

## LONG.:

147° 28' 15.056" (231.8M)

## PLANE COORDINATES (IV):

\[ Y = 2,278,780.28 \text{ Ft.} \quad X = 232,629.18 \text{ Ft.} \]

STATE

Alaska

ZONE

3

Roman numerals indicate whether the item is to be entered by (I) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.
## Descriptive Report - Data Record

### T-12709

<table>
<thead>
<tr>
<th>Field Inspection by (III):</th>
<th>Date:</th>
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<tbody>
<tr>
<td>None</td>
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</table>

** Mean High Water Location (III) (State Date and Method of Location):**

Air Photo Compilation – Aug. 15, 1964

*No Mean Lower Low-Water Line is delineated on this map.*

### Projection and Grids Ruled by (IV):

<table>
<thead>
<tr>
<th>A. E. Roundtree</th>
<th>Date: Nov. 1965</th>
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### Projection and Grids Checked by (IV):

<table>
<thead>
<tr>
<th>R. S. Kornspan</th>
<th>Date: Nov. 1965</th>
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### Control Plotted by (III):

<table>
<thead>
<tr>
<th>K. G. Boyle</th>
<th>Date: March 1966</th>
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### Control Checked by (III):

<table>
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<tr>
<th>L. O. Neterer, Jr.</th>
<th>Date: March 1966</th>
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### Radial Plot or Stereoscopic Control Extension by (III):

<table>
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<th>D. O. Norman</th>
<th>Date: Nov. 1965</th>
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### Stereoscopic Instrument Compilation (III):

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<tr>
<td></td>
<td>Contours Inapplicable</td>
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### Manuscript Delineated by (III):

<table>
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<tr>
<th>B. H. Barnes</th>
<th>Date: April 1966</th>
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### Scribing by (III):

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### Photogrammetric Office Review by (III):

<table>
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<tr>
<th>Compilation: C. H. Bishop and B. Wilson</th>
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### Remarks:

FIELD EDIT CANCELLED 3/06/75
**DESCRIPTIVE REPORT - DATA RECORD**

**T-12709**

**CAMERA (KIND OR SOURCE) (III):**

U.S.C.&G.S. Type "S"

**PHOTOGRAPHS (III):**

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tbody>
<tr>
<td>616-6161 &amp; 6162</td>
<td>8/15/64</td>
<td>9:09</td>
<td>1:30,000</td>
<td>5.5 ft. above M.L.L.W.</td>
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**PREDICTED TIDE (III):**

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<th>REFERENCE STATION:</th>
<th>CORDOVA, ALASKA</th>
<th>DIURNAL</th>
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<tr>
<td>RATIO OF RANGES</td>
<td>10.0</td>
<td>12.4</td>
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<td>MEAN RANGE</td>
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<td>EXTREME RANGE</td>
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<th>PORT CHALMERS, ALASKA</th>
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<tbody>
<tr>
<td>RATIO OF RANGES</td>
<td>9.3</td>
<td>11.7</td>
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<tr>
<td>MEAN RANGE</td>
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<td>EXTREME RANGE</td>
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**WASHINGTON OFFICE REVIEW BY (IV):**

**PROOF EDIT BY (IV):**

**NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):** None

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**NUMBER OF BM(S) SEARCHED FOR (II):** None

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**NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):** None

**NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):** None

**REMARKS:**
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<th>Completion Date</th>
<th>Remarks</th>
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<td>10/68</td>
<td>Incomplete manuscript</td>
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<tr>
<td>Field edit cancelled.</td>
<td>8/06/75</td>
<td>Incomplete manuscript</td>
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<tr>
<td>Final Review</td>
<td>8/77</td>
<td>Class III manuscript</td>
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*A few corrections were made prior to registration.*

*Charts 6/8/78*
SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORTS

T-12662 through T-12666, T-12671, T-12699, T-12700 and T-12702 through T-12721

Project PH-6410 was originally designated 21423(3). It consists of fourteen maps at 1:10,000 scale and fourteen maps at 1:20,000 scale. Its purpose was to provide up-to-date shoreline for hydrography and for nautical chart construction. Map T-12701, 1:20,000 scale, originally a part of the project, was cancelled.

This project covers Montague Island, Green Island and Little Green Island bordered by Prince William Sound and the Gulf of Alaska. The area was significantly affected by the earthquake of March 27, 1964. Uplifts of as much as 32 ft. have been recorded. This action created new shoreline and alongshore features. The new features, in many instances, appear to be composed of loosely consolidated materials. The configuration of some features as recorded on the August, 1964 photographs could have changed significantly since photography as a result of natural weathering and settling forces.

Photograph coverage was not sufficient to allow the delineation of two previously charted offshore islands at lat. 60° 06.7', long. 147° 36.1' (THE NEEDLE) and lat. 60° 11.9', long. 147° 27.1' and a rock at lat. 60° 17.3', long. 147° 28.0'. All three of which lie within the project limits.

Field work prior to compilation was limited to the recovery establishment and identification of horizontal control necessary for bridging.

The original project, designated 21423(3), was bridged at the Washington Science Center by analytic methods in February, 1965. This bridge did not yield a sufficiently satisfactory solution and resulted in a Preliminary Classification for all compilation derived from it. This compilation took place at the Portland Photogrammetric Office during March and April, 1965. All preliminary data including the base maps and ratio photography was later destroyed.

Incomplete maps were produced at the Atlantic Marine Center from a new bridge run in November, 1965. Compilation was by Kelsh instrument and graphic methods.
Details were delineated on the north margins of T-12716 and T-12718. This was necessary because of a lack of map coverage in these areas.

Map T-12701, a 1:20,000 scale map, was cancelled.

A partial field edit was done on maps T-12671 and T-12699 in May 1975. A complete edit was done for the details shown on T-12664 at the same time. Field edit was cancelled for all the remaining maps in the project. However, the field editor did give the height of three rocks and the identification of a small gravel beach area on T-12714, which was applied.

Final review was performed at the Atlantic Marine Center. The original base manuscripts were forwarded to the Rockville office in September, 1977 for final registration.
FIELD INSPECTION
REPORT
T-12709
PROJECT PH-6410
MONTAGUE ISLAND ALASKA

There was no field inspection before compilation.
Photogrammetric Plot Report No. 2
Montague Island, Alaska
PH-6410
November 1965

This report supersedes the plot report on Montague Island dated February 1965.

21. Area Covered

This report pertains to Montague and Green Islands, Alaska (Zone 3). The sheets covered are T-12660 through T-12666, T-12671 and T-12699 through T-12721.

22. Method

Four strips were bridged by analytic aerotriangulation. Three of the strips had been bridged in January 1965, but the control furnished at that time was inadequate. New control has since been furnished and it was necessary to remeasure only the models in which the new control appeared.

Strips #1, #3, and a strip covering Green Island were adjusted to ground in the normal manner. Strip #2 was adjusted to ground with common points transferred from Strip #1. Common points were also transferred from Strip #1 to the 1:30,000 scale photography that is to be used by compilation. The common points are 180 micron drill holes and there are four per model.

23. Adequacy of Control:

The new control was adequate, however, it was not possible to identify the sub-points of RIVER 2, 1955, or VIC, 1933, on the bridging photography. The use of these stations was not necessary for a satisfactory adjustment.

Sub-point "A" of JUAN, 1965, would not hold with its companion station, sub-point "B". Each sub-point was used in a preliminary straight line adjustment of the strip and sub-point "B" was found to fit well with the other control stations in the strip, while sub-point "A" was so far out of line that we strongly suspect a misidentification.
24. Supplemental Data

Approximate elevations were taken from U.S.G.S. topographic quadrangles to satisfy the requirements of the horizontal-vertical strip adjustment program.

25. Photography

The photography was adequate.

Respectfully submitted:

[Signature]
Don O. Norman

Approved and forwarded:

[Signature]
Henry P. Eichert
Acting Chief, Aerotriangulation Section
STRIP #1

JUAN, 1965
△ sub station "A"  -45.1  +23.9  △ used in adjustment
△ sub station "B"  -1.0  -0.1  △ used as check

CLOUD, 1933
△ sub station "A"  +8.8  +5.5
△ sub station "B"  +1.1  +1.3

CUB, 1933
△ sub station "A"  -7.0  +1.9
△ sub station "B"  +1.5  -3.7

PERCH, 1933 RM #3
△ sub station "A"  -1.9  +0.1
△ sub station "B"  -0.2  -1.1

LAGOON, 1933
△ sub station "A"  -0.2  +3.0
△ sub station "B"  +3.6  +11.9

WHITE, 1902
△ sub station "A"  +14.0  +5.2
△ sub station "B"  +0.5  -0.9

STRIP #2 (adjusted on tie points from Strip #1)

△ 14401  +0.4  -0.3
△ 14402  -0.8  +0.8
△ 14403  +0.9  -1.2
△ 14404  -0.4  +0.4

STRIP #3

ROCKY, 1933
△ sub station "A"  -2.0  -2.0
△ sub station "B"  0.0  0.0

GRAVE, 1933
△ sub station "A"  0.0  0.0
△ sub station "B"  -1.8  -1.0

STORK, 1933
△ direct  +2.1  -1.6
△ sub station  +0.1  0.0

GREEN ISLAND

TREY, 1933
△ sub station "A"  0.0  0.0
△ sub station "B"  -0.3  +1.6

SIX, 1933 RM #2
△ sub station "A"  -1.9  +0.6
△ sub station "B"  0.0  0.0

GREEN, 1933
△ sub station "A"  0.0  0.0
△ sub station "B"  -0.4  +2.4
AEROTRIANGULATION SKETCH
MONTAGUE ISLAND
PH-6410
November, 1965

△ control used in adjustment
### DESCRIPTIVE REPORT CONTROL RECORD

#### MAP NO.
- **T-12709**

#### JOB NO.
- **PH-6410**

#### GEOMETRIC DATUM
- **NA 1927**

#### ORIGINATING ACTIVITY
- **Coastal Mapping**

#### SOURCE OF INFORMATION (Index)
- **G.P.Quad.**
- **60147**

#### GEOGRAPHIC POSITION
- **φ Latitude**
- **λ Longitude**
- **COORDINATES IN FEET**
- **STATE**
- **ZONE**

<table>
<thead>
<tr>
<th>STATION NAME</th>
<th>COORDINATES</th>
<th>REMARKS</th>
</tr>
</thead>
</table>
| LARGE, 1905  | x = 60 17 21.469
            | y = 147 27 57.388 | 664.5 (1192.5) |
| PIN, 1905    | x = 60 15 15.64
            | y = 147 30 23.78 | 484.1 (1372.9) |

#### COMPUTED BY
- **A. C. Rauck, Jr.**
  - **DATE:** 1/22/68

#### COMPUTATION CHECKED BY
- **B. Wilson**
  - **DATE:** 8/21/68

#### LISTED BY
- **DATE**

#### LISTING CHECKED BY
- **DATE**

#### HAND PLOTTING BY
- **DATE**

**SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.**
COMPILATION REPORT
T-12709

31. **DELINEATION:**

   The Kelsh Plotter was used. Photography was satisfactory. There was no field inspection.

32. **CONTROL:**

   See Photogrammetric Plot Report.

33. **SUPPLEMENTAL DATA:**

   None.

34. **CONTOURS AND DRAINAGE:**

   Drainage was delineated from office interpretation of the photography. Contours are inapplicable.

35. **SHORELINE AND ALONGSHORE DETAILS:**

   All details were delineated from office interpretation of the photography.

36. **OFFSHORE DETAILS:**

   An offshore bare rock shown on Chart 8515 is beyond photograph coverage. It is believed to be at the position of LARGE 1905, an undescribed station, and should be investigated by the hydrographer.

37. **LANDMARKS AND AIDS:**

   None.

38. **CONTROL FOR FUTURE SURVEYS:**

   None.

39. **JUNCTIONS:**

   Junctions have been made with T-12710 to the east and T-12712 to the south. There is no contemporary survey to the west and north.
40. HORIZONTAL AND VERTICAL ACCURACY:
   No statement.

46. COMPARISON WITH EXISTING MAPS:
   Comparison has been made with USGS Quadrangle
   SEWARD (B-2), ALASKA, scale 1:63,360, dated 1952.

47. COMPARISON WITH NAUTICAL CHARTS:
   Comparison has been made with C&GS Chart 8515
   1:81,436 scale, dated November, 1935 revised February
   14, 1949 and discrepancies noted on the FIELD EDIT
   OZALID.

   ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:
   None.

   ITEMS TO BE CARRIED FORWARD:
   None.

Submitted by:

[Signature]
C. Blood
Cartographic Technician

Approved:

[Signature]
Albert C. Rauk, Jr.
Chief, Coastal Mapping Section
GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-6410 (Montague Island, Alaska)
T-12709

/ Gibbon Anchorage
/ Green Island
/ Prince William Sound
/ Putnam Point

Approved by:

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

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

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<th>6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)</th>
<th>7. PHOTO HYDRO STATIONS</th>
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**BENCHMARKS**

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<th>8. BENCHMARKS</th>
<th>9. PLOTTING OF Sextant Fixes</th>
<th>10. PHOTOGRAMMETRIC PLOT REPORT</th>
<th>11. DETAIL POINTS</th>
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**ALONGSHORE AREAS (Nautical Chart Data)**

<table>
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<tr>
<th>12. SHORELINE</th>
<th>13. LOW-WATER LINE</th>
<th>14. ROCKS, SHOALS, ETC.</th>
<th>15. BRIDGES</th>
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**PHYSICAL FEATURES**

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<tr>
<th>16. AIDS TO NAVIGATION</th>
<th>17. LANDMARKS</th>
<th>18. OTHER ALONGSHORE PHYSICAL FEATURES</th>
<th>19. OTHER ALONGSHORE CULTURAL FEATURES</th>
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**WATER FEATURES**

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<tr>
<th>20. WATER FEATURES</th>
<th>21. NATURAL GROUND COVER</th>
<th>22. PLANETABLE CONTOURS</th>
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**STEREOSCOPIC INSTRUMENT CONTOURS**

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<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**

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

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**MISCELLANEOUS**

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<th>34. JUNCTIONS</th>
<th>35. ELIGIBILITY OF THE MANUSCRIPT</th>
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**DISCREPANCY OVERLAY**

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<tr>
<th>36. DISCREPANCY OVERLAY</th>
<th>37. DESCRIPTIVE REPORT</th>
<th>38. FIELD INSPECTION PHOTOGRAPHS</th>
<th>39. FORMS</th>
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**SUPERVISOR, REVIEW SECTION OR UNIT**

<table>
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<th>REVIEWER</th>
<th>SUPERVISOR</th>
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<tbody>
<tr>
<td>C. H. Bishop</td>
<td>A. C. Hauck, Jr.</td>
</tr>
<tr>
<td>B. Wilson</td>
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**FIELD EDIT CANCELLED**

8/06/75

**COMMENTS**

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.
REVIEW REPORT
T-12709
SHORELINE
August 18, 1977

61. GENERAL STATEMENT:

See Summary which is Pages 6a and 6b of this Descriptive Report.

An offshore rock on which triangulation station LARGE, 1905 is located lies north of the limits of photo coverage and was not delineated.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with T-3232, 1:20,000 scale, dated 1911, not adjusted to the 1927 North American Datum.

The differences observed in the shoreline and the alongshore details are attributable to the 1964 earthquake as well as advancements made in mapping methods and equipment.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quadrangle Seward (B-2), ALASKA, 1:63,360 scale, dated 1952.

This area experienced uplift resulting from the 1964 earthquake. The differences observed are attributable to that uplift.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No contemporary hydrographic surveys were conducted in the area.
65. **COMPARISON WITH NAUTICAL CHARTS:**

Comparison was made with Chart 16701, 1:80,000 scale, dated March 10, 1973, 11th edition.

Some kelp and rock charted north of Green Island are beyond photo coverage and could not be verified photogrammetrically. See Paragraph 62 for differences in shoreline and alongshore details.

66. **ADEQUACY OF RESULTS AND FUTURE SURVEYS:**

This map complies with the project instructions and meets the requirements for Bureau Standards and the National Standards of Map Accuracy.

Submitted by:
A. L. Shands

A. L. Shands
Final Reviewer

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