**U. S. COAST AND GEODETIC SURVEY**  
**DEPARTMENT OF COMMERCE**

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Shoreline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>Ph-16b</td>
</tr>
<tr>
<td>Office No.</td>
<td>T-9566</td>
</tr>
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</table>

**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>ALASKA</th>
</tr>
</thead>
<tbody>
<tr>
<td>General locality</td>
<td>Kenai Peninsula</td>
</tr>
<tr>
<td>Locality</td>
<td>Seldovia Bay</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date</th>
<th>1943-56</th>
</tr>
</thead>
</table>

**CHIEF OF PARTY**

Field: G. A. Nelson  
Office: L. W. Swanson

**LIBRARY & ARCHIVES**

DATE: May 1963
DATA RECORD

PH164

Project No. (II): 2770

Quadangle Name (IV):

Field Office (II): Ship EXPLORER

Chief of Party: G. A. Nelson

Photometric Office (III): Washington, D.C.

Officer-in-Charge: L. W. Swanson

Instructions dated (II) (III): 22 August 1956

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.0

Date received in Washington Office (IV): 1-0-56

Date reported to Nautical Chart Branch (IV): 10-11-56

Applied to Chart No. Date: Date registered (IV): 7/25/52

Publication Scale (IV): Publication date (IV): MHW

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows:

Elevations shown as (2) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III):

Lat.: Long.: ADJUSTED

Unadjusted

Plane Coordinates (IV):

State: Zone:

Y= X=

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

When entering names of personnel on this record give the surname and initials, not initials only.
Areas contoured by various personnel
(Show name within area)
(ii) (iii)

Inapplicable
DATA RECORD

Field Inspection by (II):  C. W. Clark  
Date:  May 1956

Planetary contouring by (II):  Inapplicable  
Date:

Completion Surveys by (II):  Inapplicable  
Date:

Mean High Water Location (III) (State date and method of location):  
Identified in field on 1953 photographs

Projection and Grids ruled by (IV):  A. Riley  
Date:

Projection and Grids checked by (IV):  A. Riley  
Date:

Control plotted by (III):  W. Taylor  
Date:  13 Sept. 1956

Control checked by (III):  G. Amburn  
Date:  13 Sept. 1956

Radial Plot or Stereoscopic J. Battley  
Date:  17 Sept. 1956

Control extension by (III):

Planimetry

Stereoscopic Instrument compilation (III):

Contours

Manuscript delineated by (III):  G. Amburn  
Date:  27 Sept. 1956

Photogrammetric Office Review by (III):  E. Ramey  
Date:  3 October 1956

Elevations on Manuscript checked by (II) (III):  Inapplicable  
Date:
PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>41120 thru 41123</td>
<td>7-24-1953</td>
<td>14:24 thru 14:26</td>
<td>1:10,000</td>
<td>9.3</td>
</tr>
<tr>
<td>41127 thru 41129</td>
<td>7-24-1953</td>
<td>14:33 thru 14:34</td>
<td>1:10,000</td>
<td>9.3</td>
</tr>
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</table>

Tide (III) MHW - MLLW = 17.0 ft. Diurnal

Reference Station: Seldovia (Kachemak Bay) Alaska

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>15.1</td>
<td>17.5</td>
</tr>
</tbody>
</table>

Washington Office Review by (IV): Date:

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III):

Shoreline (More than 200 meters to opposite shore) (III):

Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Recovered: Identified:

Number of BMs searched for (II):

Recovered: Identified:

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:
### TIDE COMPUTATION

**Project No.** Ph- T- 9566

**Reference Station** SELDOVIA (KACHEMAK BAY)

**Mean Range** 15.4

**Diurnal** 17.8

**Ratio of Ranges** 1:0

#### Time and Date of Exposure:
- **Date of Field Inspection:** 5-18-56

#### Tide Data:

<table>
<thead>
<tr>
<th>Time</th>
<th>Height</th>
<th>Height x Ratio of Ranges</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Tide</td>
<td>Ht. H.T. or L.T.</td>
<td>Tabular correction</td>
</tr>
<tr>
<td>Low Tide</td>
<td>Stage of tide above MLW</td>
<td></td>
</tr>
<tr>
<td>Duration of Rise or Fall</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Time:

<table>
<thead>
<tr>
<th>Time</th>
<th>h. m.</th>
<th>Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Tide</td>
<td>11.7</td>
<td></td>
</tr>
<tr>
<td>Low Tide</td>
<td>2.7</td>
<td></td>
</tr>
</tbody>
</table>

#### Time at Ref. Sta.:

- **High Tide at Ref. Sta.**
- **Time Difference**
- **Corrected Time at Subordinate Station**

#### Time at Subordinate Station:

- **Low Tide at Ref. Sta.**
- **Time Difference**
- **Corrected Time at Subordinate Station**

#### Feature Bares:
- **Stage of Tide Above MLW**
- **Feature Above MLW**

#### Table:

<table>
<thead>
<tr>
<th>Time</th>
<th>H. T. or L. T.</th>
<th>Required Time</th>
<th>Interval</th>
<th>Ht. H. T. or L. T.</th>
<th>Tabular correction</th>
<th>Stage of Tide Above MLW</th>
<th>Feature Bares</th>
<th>Stage of Tide Above MLW</th>
<th>Feature Above MLW</th>
<th>Feature Above MLW</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:18</td>
<td>10:15</td>
<td>1:57</td>
<td></td>
<td>14.4</td>
<td>2.7</td>
<td>11.5</td>
<td></td>
<td>Feature Bares</td>
<td>Stage of Tide Above MLW</td>
<td>Feature Above MLW</td>
</tr>
</tbody>
</table>

**Computed by** ____________________________  **Checked by** ____________________________
FIELD INSPECTION REPORT

This report covers Surveys T-3432, T-3603, T-9560, T-9566, T-9568, and T-9742 and is filed as part of the Descriptive Report for T-3432.
PHOTOGRAMMETRIC PLOT REPORT

This report covers surveys T-3432 and T-9566 and is filed as part of the Descriptive Report for T-3432.
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR x-COORDINATE</th>
<th>LONGITUDE OR y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWDER 1956</td>
<td>Field Comp.</td>
<td>NA</td>
<td>59 25 24.142</td>
<td>151 42 53.618</td>
<td>747.0 (1109.7)</td>
<td>845.5 (1004.6)</td>
</tr>
<tr>
<td>ELBOW, 1956</td>
<td>&quot;</td>
<td>1927</td>
<td>59 24 52.756</td>
<td>151 42 56.778</td>
<td>1632.5 (2242.2)</td>
<td>895.6 (508)</td>
</tr>
<tr>
<td>GOOSE, 1956</td>
<td>&quot;</td>
<td></td>
<td>59 23 53.872</td>
<td>151 41 30.595</td>
<td>1667.1 (1896)</td>
<td>482.8 (4640)</td>
</tr>
<tr>
<td>GABE, 1956 (Topo)</td>
<td>Form 524</td>
<td></td>
<td>59 25</td>
<td>151 44</td>
<td>1649.7 (2070)</td>
<td>372.6 (573.3)</td>
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<tr>
<td>POWDER, 1956</td>
<td>Sub.Sta.No. 1</td>
<td></td>
<td>59 25</td>
<td>151 42</td>
<td>733.2 (1123.5)</td>
<td>841.9 (104.1)</td>
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<tr>
<td>POWDER, 1956</td>
<td>Sub.Sta.No. 3</td>
<td></td>
<td>59 25</td>
<td>151 42</td>
<td>732.5 (1124.2)</td>
<td>828.6 (117.8)</td>
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<tr>
<td>ELBOW, 1956</td>
<td>Sub.Sta.No. 2</td>
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<td>59 24</td>
<td>151 42</td>
<td>1637.4 (2193)</td>
<td>875.5 (71.3)</td>
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<tr>
<td>GOOSE, 1956</td>
<td>Sub.Sta.No. 1</td>
<td></td>
<td>59 23</td>
<td>151 41</td>
<td>1697.1 (159.6)</td>
<td>497.6 (149.7)</td>
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<tr>
<td>CRGWN, 1956</td>
<td></td>
<td></td>
<td>59 26 02.635</td>
<td>151 43 02.929</td>
<td>81.5 (1775.2)</td>
<td>46.2 (899.7)</td>
</tr>
<tr>
<td>FLINT, 1956</td>
<td></td>
<td></td>
<td>59 24 27.028</td>
<td>151 41 36.193</td>
<td>836.3 (1020.4)</td>
<td>571.0 (375.6)</td>
</tr>
</tbody>
</table>
31. **Delineation**

Features were delineated on plastic work sheets by stereoscopic examination of nine-lens photographs using field inspection photographs as a guide. The work sheets were then adjusted to the scale of the map manuscripts for the compilation.

Details shown include shoreline and alongshore features and some adjacent interior features. Interior features were not field-inspected.

32. **Control**

See the Photogrammetric Plot Report which is filed as part of the Descriptive Report for T-8482.

33. **Supplemental Data:** None

34. **Contours and Drainage:** Inapplicable.

35. **Shoreline and Alongshore Details:**

Field inspection was generally adequate for the delineation of shoreline. Some small areas were observed by shadow (Sub-heading 7 of Field Inspection Report). Bluffs and cliffs were not obvious on the photographs because of overhang and shadow. The field inspection notes were followed for the delineation of low-water line.

36. **Offshore Features**

The field inspection required some office interpretation (See Sub-heading 8 of the Field Inspection Report).

37. **Landmarks and Aids**

None in area.

38. **Control for Future Surveys**

One form 524 is filed for this survey.

39. **Junctions**

This survey junctions with T-8482 to the North and T-9560 to the West. No contemporary surveys are available to the East and South.
40. **Horizontal and Vertical Accuracy**

See the Photogrammetric Plot Report for a detailed discussion of accuracy. Except for offshore and foreshore features all areas are considered accurate.

41. through 45. Inapplicable.

46. **Comparison with existing maps**

<table>
<thead>
<tr>
<th>T-2880</th>
<th>1:10,000</th>
<th>1906 and 1908</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seldovia (B-5) Alaska (USGS)</td>
<td>1:63,360, 1953</td>
<td></td>
</tr>
</tbody>
</table>

Both these maps show an Indian Village in the southern part of Seldovia Bay which was neither field-inspected nor could be identified on the photographs. T-2880 shows considerable bluff which could not be identified on the photography. However, it is believed they are of little landmark significance. T-2880 also shows a rock awash at lat. 59°25.2' long. 151°42.9' which is not shown by this survey. Except for this rock, T-9566 agrees closely with these prior surveys.

47. **Comparison with nautical charts**

| 8593 | 1:20,000 corrected to 51-6/18 |

The same differences under Sub-heading 46 apply here. Piers shown on this chart at lat. 59°25.3' long. 151°42.9' did not exist at the time of the field inspection.

Items to be applied immediately: None

Items to be carried forward: Features below the plane of MHW are subject to revision by hydrographic surveys.

Submitted by:

Garnett S. Amburn
Cartographic Aide

Approved:

Everett H. Ramey
Chief, Graphic Compilation Unit
49. Notes for the hydrographer

Topographic stations: GABE 1956

Limits of foreshore, foul and kelp are approximate
(Sub-headings 8 and 9, Field Inspection Report).
48. Geographic Names:

Powder Island  
Seldovia  
Seldovia Bay  
*Seldovia River

*BGN decision

[Signature]  
Geographic Names Section  
25 May 1962
62. Comparison with Registered Topographic Surveys

See Item 46

63. Comparison with Maps of Other Agencies

Seldovia B-5 Alaska (USGS) 1:63,360, 1953

Because of the scale difference only a visual comparison can be made. T-8482 is more complete and supersedes the above survey for common area.

64. Comparison with Contemporary Hydrographic Surveys

H-8285, 1956, 1:10,000 (Wire Drag)

The shoreline from T-8566 was applied prior to the hydrographic survey and are in agreement.

65. Comparison with Nautical Charts

8589 1:20,000 Corrected to June 1951

See Item 46

66. Adequacy of Results and Future Surveys

Shoreline inspection is not complete in all areas. Lack of inshore inspection may have resulted in minor errors in office interpretation. Other than this, no deficiencies in accuracy were indicated.

Revised by:

L. C. Lunde

Approved by:

Chief, Cartographic Br.  Chief, Nautical Chart Div.


Shirley 11/29/62
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.

<table>
<thead>
<tr>
<th>CHART</th>
<th>DATE</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>8589</td>
<td>12/3/70</td>
<td>E. Frey</td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No. 9 No corrections. Consider fully replaced by 1968 U.S. coast photography</td>
</tr>
</tbody>
</table>

Full Part Before After Verification Review Inspection Signed Via Drawing No.

Full Part Before After Verification Review Inspection Signed Via Drawing No.

Full Part Before After Verification Review Inspection Signed Via Drawing No.

Full Part Before After Verification Review Inspection Signed Via Drawing No.

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