**Diag. Chrt. No. 3863-2.**

**U. S. COAST AND GEODETIC SURVEY**

**DEPARTMENT OF COMMERCE**

**DESCRIPTIVE REPORT**

---

**Type of Survey** Shoreline (Photogrammetric)

**Field No.** Ph-314  **Office No.** T-11555

---

**LOCALITY**

**State** Alaska

**General locality** Aleutian Islands

**Locality** Kanaga Bay

---

**1954**

**CHIEF OF PARTY**

S.B. Grenell, Chief of Field Party

L.W. Swanson, Div. of Photo. Wash., D.C.

---

**LIBRARY & ARCHIVES**

**DATE** May 12, 1958
DATA RECORD

T - 11555

Project No. (II): Fh-34

Quadrangle Name (IV): Kanaga Bay

Field Office (II): Ship Explorer

Chief of Party: S. B. Greneill

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

Officer-in-Charge: L. W. Swanson

Instructions dated (II) (III): 21 October 1954

Copy filed in Division of Photogrammetry (IV)
Office Files

Method of Compilation (III): Kelsh Plotter "A"

Manuscript Scale (III): 1:5000

Stereoscopic Plotting Instrument Scale (III): 1:2,700

Scale Factor (III):

Date received in Washington Office: JUL 1 1955

Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): 1927 N.A. Datum

Vertical Datum (III): Mean sea level except as follows:
Elevations shown as (25) 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): Perch, 1954

Adjusted

Unadjusted Field Conc.

Lat.: 51-34-47.787 Long.: 177-12-20.275

Adjusted

Unadjusted Field Conc.

Plane Coordinates (IV):

State:

Zone:

Y=

X=

Roman numerals indicate whether the item is to be entered by (II) 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.
detailed
Areas covered by various personnel
(Show name within area)
(II) (III)

Shoreline detailed by J. D. Perrow, Jr.
DATA RECORD
T-11555

Field Inspection by (II): Shoreline Inspection by C. W. Clark and H. A. Garcia
Date: 1953 Season
1954 Season

Planetable contouring by (II): None
Date:

Completion Surveys by (II): None
Date:

Mean High Water Location (III) (State date and method of location):
Field Inspection during 1954 Season

Projection and Grids ruled by (IV): A. Riley
Date: Oct. 1954

Projection and Grids checked by (IV): A. Riley
H. Wolfe
Date: Oct. 1954

Control plotted by (III): C. E. Cook
Date: Dec. 1954

Control checked by (III): J. D. Perrow, Jr.
Date: Dec. 1954

Radial Plot or Stereoscopic
Control extension by (III): None
Date:

Planimetry
Stereoscopic Instrument compilation (III): J. D. Perrow, Jr.
Date: Dec. 1954

Manuscript delineated by (III): J. B. McDonald
Date: Dec. 1954

Photogrammetric Office Review by (III): L. J. Reed
Date: Dec. 1954

Elevations on Manuscript
checked by (II) (III): None
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>2859 thru 2862</td>
<td>9-6-54</td>
<td>16:08</td>
<td>1:15,000</td>
<td>3.4 ft.</td>
</tr>
</tbody>
</table>

Tide (III)

Reference Station: Sweeper Cove, Adak
Subordinate Station: Kanaga Bay

Washington Office Review by (IV):

Final Drafting by (IV): M. Day
Drafting verified for reproduction by (IV): Wood Helvin

Land Area (Sq. Statute Miles) (III): 2
Shoreline (More than 200 meters to opposite shore) (III): 7
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (II): None
Number of Triangulation Stations searched for (II): None
Number of BMS searched for (II): None
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

See field report in descriptive report T-9925 and T-9926

Recovered: Identified:

Form T-Page 4
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>LATITUDE OR Y-COORDINATE</th>
<th>LONGITUDE OR X-COORDINATE</th>
<th>15&quot; squares DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS M</th>
<th>N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perch 1954</td>
<td>NA 1927</td>
<td>51-43-1476.9</td>
<td>177-12-389.2</td>
<td>86.1 (377.5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rear 1943</td>
<td>&quot;</td>
<td>51-42-892.3</td>
<td>177-12-70.9</td>
<td>428.7 (186.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front 1943</td>
<td>&quot;</td>
<td>51-42-653.5</td>
<td>177-11-1034.8</td>
<td>170.7 (117.3)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
FIELD INSPECTION REPORT

Included in Descriptive Report

for T-9925 and T-9926
31. **DELINEATION**

Kelsh Plotter B was used in the delineation of the map manuscript.

32. **CONTROL**

Identification of control was satisfactory. Because of the location of control, a central model was set first in order to leave pass points in addition to existing control to aid in setting the outer models. Field computed positions for all topographic and hydrographic stations, as well as triangulation stations, were used as control. See Paragraph 38 for stations not held.

All models were leveled on the MHW line.

33. **SUPPLEMENTAL DATA**

Boat Sheet EX-2454-6, with Shoreline from a 1932 Navy Survey, was used as an aid to locate offshore rocks on the photographs.

34. **CONTOURS AND DRAINAGE**

Not applicable.

35. **SHORELINE AND ALONGSHORE DETAILS**

The shoreline has been shown as approximate MHW line in an area near Indian Point because of overhanging cliffs.

36. **OFFSHORE DETAILS**

See Paragraph 33.

37. **LANDMARKS AND AIDS TO NAVIGATION**

A Form 567 has been submitted recommending five landmarks in the area covered by the map manuscript. A copy of this form has been included in this report.

38. **CONTROL FOR FUTURE SURVEYS**

Form 524 has been submitted for recoverable topographic station, COG, 1954.

Kelsh Plotter positions for two hydrographic stations did not agree with the field computed positions. Photogrammetric positions are:

- Dub 51°-42'-1590 M 177°-11'-1002 M
- Nil 51°-42'-1174 M 177°-12'-96 M

See Field Inspection Report, Page 10.
39. **JUNCTIONS**

    The map manuscript was photographically reduced and detail transferred
to T-9940, scale 1:20,000.

40. **HORIZONTAL AND VERTICAL ACCURACY**

    Not applicable.

47. **COMPARISON WITH NAUTICAL CHARTS**

    Chart No. 9121  1:7500  1947, corr. 1952

48. **GEOGRAPHIC NAMES**

    See appended sheet.

Approved by:                                                                 Submitted by:

[Signature]

C. Theurer                                                                 C. E. Cook
NOTES TO THE HYDROGRAPHER

The following hydrographic stations are located on the map manuscript:

<table>
<thead>
<tr>
<th>Station</th>
<th>Description</th>
<th>Photo No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>White tripod</td>
<td>2860</td>
</tr>
<tr>
<td>Bon</td>
<td>White tripod</td>
<td>2859</td>
</tr>
<tr>
<td>Dub</td>
<td>W.W. outer face of 15' pinnacle 2860</td>
<td>326V2860</td>
</tr>
<tr>
<td>Fez</td>
<td>W.W. on SW face of higher part of rock</td>
<td>2861</td>
</tr>
<tr>
<td>Gus</td>
<td>W.W.</td>
<td>2861</td>
</tr>
<tr>
<td>Jim</td>
<td>W.W.</td>
<td>2862</td>
</tr>
<tr>
<td>Kip</td>
<td>W.W.</td>
<td>2862</td>
</tr>
<tr>
<td>Nil</td>
<td>W.W. on large and northerly of several boulders</td>
<td>2861</td>
</tr>
<tr>
<td>Mob</td>
<td>W.W. on SE point of bluff</td>
<td>2862</td>
</tr>
<tr>
<td>Pix</td>
<td>W.W. on low rock at point of grass</td>
<td>2861</td>
</tr>
<tr>
<td>Ram</td>
<td>W.W. on point of cliff</td>
<td>2860</td>
</tr>
<tr>
<td>Tap</td>
<td>White tripod</td>
<td>2860</td>
</tr>
</tbody>
</table>

Recoverable topographic stations are listed on Form 524 and Form 567.
<table>
<thead>
<tr>
<th>Name on Survey</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kenaga Bay</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Angora Pt.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Memorial Pt.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Totem Rock</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Kayak Cove</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Indian Pt.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Wreck Reef</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Range Pt.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Shallow Pt.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

Names approved
8-18-53
A.J.W.
NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Seattle, Washington 29 October 1954

J. D. Walker

<table>
<thead>
<tr>
<th>STATE</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE°</th>
<th>LONGITUDE°</th>
<th>METHOD OF LOCATION</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bn W</td>
<td>White day beacon shown on rocky islet SW side Argonne Channel</td>
<td>51-48.7</td>
<td>176-19.5</td>
<td>N.A.</td>
<td>Unknown</td>
<td>Bay of Island 9120</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bn</td>
<td>Day beacon on W. side Kanaga Bay</td>
<td>51-42.6</td>
<td>177-12.2</td>
<td>1927</td>
<td>Unknown</td>
<td>Kanaga Bay 1941</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bn</td>
<td>Day beacon, rear object of entering range, Kanaga Bay</td>
<td>51-42.5</td>
<td>177-12.2</td>
<td>1943</td>
<td>Triang. 1943</td>
<td>9121</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sign Board</td>
<td>Front object of entering range, Kanaga Bay</td>
<td>51-42.4</td>
<td>177-11.9</td>
<td>Unknown</td>
<td>Unknown</td>
<td>9121</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bn</td>
<td>Day beacon on point at east side of entrance to Kanaga Bay</td>
<td>51-42.4</td>
<td>177-11.6</td>
<td>1943</td>
<td>9121</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>WHITE CROSS ON ROCK</td>
<td>Front object for second range entering Kanaga Bay</td>
<td>51-42.8</td>
<td>177-11.8</td>
<td>Unknown</td>
<td>Unknown</td>
<td>9121</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bn</td>
<td>Day beacon, rear object for second range entering Kanaga Bay</td>
<td>51-42.8</td>
<td>177-11.6</td>
<td>Unknown</td>
<td>Unknown</td>
<td>9121</td>
<td></td>
</tr>
<tr>
<td></td>
<td>WIND GUAGE</td>
<td>Wind guage at former weather station, Kanaga Bay</td>
<td>51-42.6</td>
<td>177-11.5</td>
<td>1943</td>
<td>9121</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RADIO TOWER</td>
<td>S'ly of two radio towers at former weather station, Kanaga Bay</td>
<td>51-43.0</td>
<td>177-11.8</td>
<td>1943</td>
<td>9121</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>R. MAST</td>
<td>Radio mast at site of former weather station, Kanaga Bay</td>
<td>51-43.1</td>
<td>177-11.8</td>
<td>1943</td>
<td>9121</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LORAN TOWER</td>
<td>Charted loran tower on NW side Cape Adak, Adak Island</td>
<td>51-59.4</td>
<td>176-36.7</td>
<td>1943</td>
<td>9193</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by David M. Whipp

<table>
<thead>
<tr>
<th>STATE</th>
<th>Alaska, Aleutian Islands - Andreanof Islands</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>HIVF RK</td>
<td>Highest point of grass-topped, beehive shaped pinnacle on the W. side entrance Kanaga Bay (25 ft. high)</td>
</tr>
<tr>
<td>WRECK</td>
<td>Wreck of &quot;Swallow&quot; on W. side entrance Kanaga Bay (25 ft. high). Consists of bridge and forward half of ship.</td>
</tr>
<tr>
<td>SIGNED BOARD</td>
<td>&quot;No trespassing&quot; signboard on grass-topped rock islet</td>
</tr>
<tr>
<td>TANK</td>
<td>Abandoned wooden water tank on top of bluff (visible only W. thru N.E.)</td>
</tr>
<tr>
<td>MAST</td>
<td>Radio mast (abandoned) on hill N. of former weather station (153 ft. above MHW)</td>
</tr>
<tr>
<td>W. GABLE</td>
<td>Wily gable of unoccupied house or cabin on NW shore Kanaga Bay</td>
</tr>
<tr>
<td>CABIN WINDOW</td>
<td>Window, center of seaward side of cabin</td>
</tr>
<tr>
<td>TOWER (STILLO)</td>
<td>Abandoned tower resembling silo</td>
</tr>
<tr>
<td>TOWER (STILLO)</td>
<td>Abandoned radar tower</td>
</tr>
</tbody>
</table>
PHOTOGRAMMETRIC OFFICE REVIEW

1. Projection and grids  

2. Title  

3. Manuscript numbers  

4. Manuscript size  

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy  

6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)  

7. Photo hydro stations  

8. Bench marks  

9. Plotting of sextant fixes  

10. Photogrammetric plot report  

11. Detail points  

ALONGSHORE AREAS

12. Shoreline  

13. Low-water line  

14. Rocks, shoals, etc.  

15. Bridges  

16. Aids to navigation  

17. Landmarks  

18. Other alongshore physical features  

19. Other along-shore cultural features  

PHYSICAL FEATURES

20. Water features  

21. Natural ground cover  

22. Planetary contours  

23. Stereoscopic instrument contours  

24. Contours in general  

25. Spot elevations  

26. Other physical features  

CULTURAL FEATURES

27. Roads  

28. Buildings  

29. Railroads  

30. Other cultural features  

BOUNDARIES

31. Boundary lines  

32. Public land lines  

MISCELLANEOUS

33. Geographic names  

34. Juncions  

35. Legibility of the manuscript  

36. Discrepancy overlay  

37. Descriptive Report  

38. Field inspection photographs  

39. Forms  

Reviewer  

Supervisor, Review Section or Unit  

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. 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.

Compiler  

Supervisor  

43. Remarks:
61. **General:**

Several rocks visible on the photographs were added along the west shore of the bay, and a sunken rock at Swallow Point from T-9940.

No field inspection photographs were available for the area between the wrecks on the west side of the bay entrance westward to the margin of the map manuscript, so that no check could be made with respect to elevations of rocks and islets.

62. **Comparison with Registered Surveys:**

There are no prior topographic surveys of the area by this Bureau.

63. **Comparison with Maps of Other Agencies:**

USE, Kanaga Island (Sheet 5) 1:25,000 1943

This map has only a generalized shoreline and no foreshore features.

The southern radio tower near the wharf on the east shore no longer exists.

64. **Comparison with Contemporary Hydrographic Surveys:**

H-8144 (EX. 2454b) 1:20,000 1954 Kanaga Bay

Only a small scale film negative of the boat sheet was available. No hydrographic work was done on foreshore, so that the photogrammetric shoreline and foreshore features of T-11555 are to be used for charting.

65. **Comparison with Nautical Charts:**

9121 1:7,500 April 1947, corr. August 1952

The shoreline on T-11555 supersedes that on the chart, but the foreshore did not receive a detailed inspection.

66. **Accuracy:**

This shoreline survey has utilized all field inspection data and meets the National Standards of Accuracy.

Reviewed by:

[Signature]

Lena T. Stevens