**Diagnostic Chart No. 8862-2.**

**Form 501**

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

**DEPARTMENT OF COMMERCE**

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Topographic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>Ph-34(48)</td>
</tr>
<tr>
<td>Office No.</td>
<td>and T-9939</td>
</tr>
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</table>

**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>Alaska</th>
</tr>
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<tbody>
<tr>
<td>General locality</td>
<td>Aleutian Islands</td>
</tr>
<tr>
<td>Locality</td>
<td>Kanaga Island, West part.</td>
</tr>
</tbody>
</table>

**1952-54**

**CHIEF OF PARTY**

S.B. Grenell, Chief of Field Party  
L.J. Reed, Div. of Photo., Wash., D.C.

**LIBRARY & ARCHIVES**

**DATE**  March 31, 1953
DATA RECORD

T-9932 and T-9937, 38, 39

T-9932 = SHIP ROCK
T-9937 = ANNOY ROCK
T-9938 = OHUNI BAY
T-9939 = SENTRY ROCK

Project No. (II): Ph-34(48) Quadrangle Name (IV):

Field Office (II): Ship EXPLORER
Chief of Party: S.B. Grenell

Photogrammetric Office (III): Washington, D.C.
Radial Plot = Lester C. Lande
Officer-in-Charge: Louis J. Reed
Compilation = Louis J. Reed

Instructions dated (II) (III):
FIELD = 8 Apr 48, 19 Mar 52, 20 Feb 53, and
Ltr No 22/MEK, 3-2-EX, dated 8 Mar 52, subject:
"Modification of Instructions"
OFFICE = 14 Oct 53

Method of Compilation (III): Reading Plotter

Manuscript Scale (III): 1:20,000
Stereoscopic Plotting Instrument Scale (III): 1:20,000

Scale Factor (III):

Date received in Washington Office (IV): 20 MAY 1954
Date reported to Nautical Chart Branch (IV): 23 JUL 1954
Applied to Chart No. 9145 Date: 9/27/54 Date registered (IV): 9 MAY 1957

Publication Scale (IV):

Geographic Datum (III): NA 1927

Vertical Datum (III):
Mean sea level except as follows:
Elevations shown as (2S) refer to mean high water
Elevations shown as (2) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III):
Lat.: Long.: Adjusted

X:

Plane Coordinates (IV): State: Zone:
Y=#

Universal Transverse Mercator Grid, Zone 1, with 1,000m interval

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.

*Refer to combined descriptive report for T-9935, 6.7 and T-9942.
Areas contoured by various personnel
(Show name within area)

"A": T-9932 and 38, western halves of, by Clarence E. Misfeldt on the Reading Plotter, model A.
"B": T-9937 and 38, by Louis Levin on the Reading and balance of Plotter, model B.
T-9932 and 39
DATA RECORD

Field Inspection by (II): S.B. Grenell, Ship EXPLORER Date: 1953, 1954

Planetary contouring by (II): None Date:

Completion Surveys by (II): None Date:

Mean High Water Location (III) (State date and method of location):

The shoreline on this project was compiled following indications of the shoreline on photographs as produced during 1953 field inspection. Therefore the MHHL is dated "1953".

Projection and Grids ruled by (IV): Austin Riley Date: 12/10/53

Austin Riley

Projection and Grids checked by (IV): H. D. Wolfe Date: 12/11/53

H. D. Wolfe

Control plotted by (III): N. S. Schultz, J. P. Battley, Date: 1/8/54

January 1954

Control checked by (III): N. S. Schultz, J. P. Battley, G. B. Willey, H. J. Murray Date: Completed

1/18/54

Radial Plot or Survey by (III): S. G. Blankenbaker, H. J. Murray Date: Completed

1/21/54

Control extension by (III):

Stereoscopic Instrument compilation (III): Louis Levin and

Contour Clarence E. Wiesfeldt 18 Feb 54

Manuscript delineated by (III): John B. McDonald Date: 7 May 54

Photogrammetric Office Review by (III): Louis J. Reed Date: 14 May 54

Elevations on Manuscript checked by (III): Louis J. Reed Date: 14 May 54

Form T-Page 3
Camera (kind or source) (III): USC&GS 9-lens camera, model "B", f = 5.25 inches

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>38997</td>
<td>19 Aug</td>
<td>13:25</td>
<td>1:20,000</td>
<td>2.0 ft below MHHW or 2.2 ft above MLLW</td>
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<tr>
<td>39010</td>
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</tbody>
</table>

Tide (III)

Reference Station: Sweeper Cove
Subordinate Station: Lash Bay

Washington Office Review by (IV): K. N. Mak
M. Charity T-9932

Final Drafting by (IV): M. Charity T-9938
M. Charity T-9939

Drafting verified for reproduction by (IV): Wm. O. Kelley

Proof Edit by (IV):

Date: 27 Dec, 1954
6-4-56
7-3-56
9-24-56

Land Area (Sq. Statute Miles) (III): T-9932 = 5 sq mi; T-9938 = 18 sq mi; 39 = 13 sq mi
Shoreline (More than 200 meters to opposite shore) (III): T-9932 = 9 mi; 38 = 28 mi; 39 = 13 mi
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): three (on T-9939)
Number of Temporary Photo Hydro Stations established (III): sixty (37 on T-9938; 23 on T-9939)

Remarks:
Summary to Accompany Descriptive Report
T-9932, T-9938 and T-9939

T-9932, T-9938 and T-9939 are three topographic surveys covering the western portions of Kanaga Island from Cape Chunu eastward to longitude 177° 20'. The feature, Ship Rock, a small rocky islet, occurs on the easterly limits of T-9932. These maps were compiled on the 9-lens Reading Plotter. Field operations preceding compilation included field inspection, recovery and establishment of horizontal control and the determination of elevations required to control a stereo-instrument project vertically. Compilation was at a scale of 1:20,000. Contours were drawn at a 50-foot interval with 25-foot interval supplemental contours. The maps were not field edited.

A cloth-backed lithographic print of each map at manuscript scale and the combined descriptive report will be registered and permanently filed in the Bureau Archives.
FIELD INSPECTION REPORT

2-20 See separate report with title on cover page typed as follows: In general files, Div. of Photogrammetry. (Separate Report for 1953 and 1954 Season) covers field work for T-9932

FIELD INSPECTION REPORT

FOR MAPS

T-9932
T-9937 (part)
 thru T-9939

Project CS-218, Ph-34
Kanaga Island, Alaska

Ship EXPLORER

S. B. Grenell, Commanding
PHOTOGRAMMETRIC PLOT REPORT
Ph-34 Kanaga Island (western half)

21. Area covered:

The [redacted] topographic manuscripts included in the photogrammetric plot are as follows:

T-9932  T-9937  T-9938  T-9939  T-9933  T-9940

T-9933 and T-9940 were ordered as a supplement so as to make use of two office-identified control stations (CLIFF, 1953, and KNOB, 1953) as well as to afford a strong junction of the plots when the eastern portion of the island is mapped in the future.

22. Method:

The vinylite manuscripts were ruled at a scale of 1:20,000 with polyconic projections and 1000 meter UTM, Alaska Zone I grids. The horizontal control was plotted on the manuscripts by referencing to the polyconic projection. The sheets were joined by holding the corresponding UTM grid lines. Small discrepancies were reduced to a negligible minimum in the proximity of the land areas to be mapped. Polyconic projections only were ruled on T-9933 and T-9940, and these sheets were joined to the others by holding corresponding projection lines.

The following nine lens metal-mounted photographs were used in the plot:

38997, 38998  39000  39001  39002  39003
39004  39005  39006  39007  39009  39010

The templates were prepared using vinylite stock. In each case master calibration templet No. 36269 was used. The transforming errors proved to be minimal.

Closure and adjustment to control was very good. See 23, Adequacy of Control.

23. Adequacy of Control:

The control index included in this report shows the density and distribution of horizontal control. A list showing the measured differences in millimeters between the radial plot positions and the geographic positions of the horizontal control is also included. Of the 24 stations 2 were discarded, 11 held, 3 held within 0.2 mm., 5 within 0.3 mm., 2 within 0.4 mm., and 1 within 0.6 mm. The two discarded stations are Venus, 1953, and Lyric, 1953. The field party did not consider Venus, 1953 to be
identified well enough to be used as horizontal control, while Lyric 1953 was shown by the plot to be misidentified. Station Rigel, 1953 held within 0.3, but was not considered as usable for horizontal control by the field party, as was Babe, 1953 (held within 0.4 mm.). Spica, 1953, the other station held within 0.4 mm., showed on only two photographs. Its photo location is dubious. A position of a dock corner was scaled from Nautical Chart 9121, scale 1:7500, and was used as a horizontal control point. The station held within 0.6 mm., though no great effort was made to hold it. Two nearby stations, Knob, 1943 and Cliff, 1943 were office-identified. Both held. See Item 21. Topographic stations Ale and Hep subpoint held, while Cub was within 0.2 mm. All but 5 of the 24 stations used are of second or third order accuracy.

A junction with the Ph-34 plot of Tanaga Island was made on T-9937. One cut from photo 39007 held Bird, 1943, while a three-way intersection was obtained on a pass-point on a tip of Tanaga Island.

The plot is considered to be very good and the numerous pin-point intersections were pleasing to behold.

25. Photography:

All 1952 photography was used. The coverage is adequate and the clarity very good save possibly for some unavoidably obscured shadowed areas along the northern coastline.

Submitted by: Howard J. Murray

Howard J. Murray

Approved by: L. C. Lande

L. C. Lande
Ph-34 KANAGA ISLAND (western part)

List of horizontal control stations showing difference in millimeters between radial plot position and plotted position.

<table>
<thead>
<tr>
<th>Station</th>
<th>Order</th>
<th>Measured difference (mm.)</th>
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</thead>
<tbody>
<tr>
<td>SIDE, 1943</td>
<td>Third</td>
<td>Held</td>
</tr>
<tr>
<td>MART, 1943</td>
<td>Second</td>
<td>Held</td>
</tr>
<tr>
<td>BIRD, 1943</td>
<td>Third</td>
<td>Held (1 ray)</td>
</tr>
<tr>
<td>CHU, 1943</td>
<td>Second</td>
<td>Held</td>
</tr>
<tr>
<td>Deneb S. pt 1, 1923</td>
<td>Third</td>
<td>0.2</td>
</tr>
<tr>
<td>Babe, 1953</td>
<td>Third</td>
<td>0.4</td>
</tr>
<tr>
<td>Nub, 1943</td>
<td>Second</td>
<td>Held</td>
</tr>
<tr>
<td>End, 1943</td>
<td>Third</td>
<td>Held</td>
</tr>
<tr>
<td>*Pluto, 1953</td>
<td>Third</td>
<td>0.2</td>
</tr>
<tr>
<td>Hive, 1943</td>
<td>Third</td>
<td>Held</td>
</tr>
<tr>
<td>Hep S. pt.</td>
<td>Less than third</td>
<td>0.3</td>
</tr>
<tr>
<td>Venus, 1953</td>
<td>Third</td>
<td>Misidentified</td>
</tr>
<tr>
<td>Tom, 1943</td>
<td>Third</td>
<td>0.3</td>
</tr>
<tr>
<td>Spica, 1953</td>
<td>Third</td>
<td>0.4</td>
</tr>
<tr>
<td>Rigel, 1953</td>
<td>Third</td>
<td>0.3</td>
</tr>
<tr>
<td>Lyric, 1953</td>
<td>Third</td>
<td>Misidentified</td>
</tr>
<tr>
<td>Cliff, 1943</td>
<td>Third</td>
<td>Held</td>
</tr>
<tr>
<td>Knob, 1943</td>
<td>Third</td>
<td>Held</td>
</tr>
<tr>
<td>Ship, 1943</td>
<td>Second</td>
<td>0.3</td>
</tr>
<tr>
<td>Twin, 1943</td>
<td>Second</td>
<td>Held</td>
</tr>
<tr>
<td>Otter, 1953</td>
<td>Third</td>
<td>0.3</td>
</tr>
<tr>
<td>Ale</td>
<td>Less than third</td>
<td>Held</td>
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<tr>
<td>Cub</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td><strong>Dock</strong></td>
<td>&quot;</td>
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</tbody>
</table>

**PLUTO, 1953 is same station as TOP, 1943**

**Position scaled from Nautical Chart 9121, scale 1:7500**
31. Delineation:

Shoreline and relief were delineated simultaneously on the Reading Plotters as indicated on page 2 of this report. The entire area of all four quads has been mapped; there are no holidays.

32. Control: Adequate — see side-heading 23, this report.

33. Supplemental Data: Refer to side-heading 14, Field Report.

34. Contours and Drainage:

The photos were of good quality for contouring purposes and no areas of questionable contours remain.

35. Shoreline and Alongshore Details:

Field Inspection was quite adequate and has been used as a guide during instrument delineation. Later, during the manuscript compilation phase, the delineation was checked by comparison and certain detailed information was applied to the sheets from the field photos. Compiled foul lines are a combination of field and instrument interpretation.

36. Offshore Details: Treated along with shoreline, 35 above.

37. Landmarks and Aids: None exist — refer side-heading 9, Field.

38. Control for Future Surveys:

Several hydro stations, but no topo stations, were field identified and located by the radial plot. Please refer to side-heading 11, page 11 of the Field Inspection Report.

39. Junctions: All junctions are in agreement.

40. Horizontal and Vertical Accuracy:

It is considered that these compilations meet the requirements established by National Map Accuracy Standards for maps having a scale of 1:20,000 and showing relief by means of a 50ft interval with supplemental contours (25ft) being used to better portray relatively flat areas.

46. Comparison with Existing Maps:

No accurate maps of Kanaga Island were ever made for comparison with the compilations of this survey.

47. Comparison with Nautical Charts:

The one existing chart of the same area does not have a scale of comparison value. The chart is:

"Preliminary Chart, Alaska-Aleutian Islands, KANAGA PASS AND APPROACHES, No. 9145, 1:40,000, 1st edition, April 1945, last correction date of 13 August 1951."
48. Geographic Name List:
    See next page, page 14.

49. Notes for the Hydrographer:
    Not applicable.

50. Compilation Office Review:
    See T-2 form, page 15.

41. **Final Shoreline Completion**: 1954 field inspection on photos 37716, 38999, and 39001 has been applied (July 54) to the north shore of T-9932 continuing 1953 inspection eastward to the next line. In the process, FOX, ND, COB, DOT, and EGG were plotted from 1954 theodolite stations and four other points TIP, BIG, YAP, and ZAM were positioned by the 1954 radial plot of the east half of the island.

Submitted by:

[Signature]

Orvis N. Dalbey, Chief,
9-lens Plotting Instrument Section

Approved by:

[Signature]

Louis J. Read, Chief
Stereoscopic Mapping Branch
Photogrammetric Engineer
<table>
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<td>CABIN Rock Point</td>
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<td>(Pincer Pt. is on T-9936)</td>
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<td>CHUNT BAY</td>
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<td>GOOIE HAT</td>
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<td>(Hill, for its shape)</td>
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<td>THE SIGNALS</td>
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<tr>
<td>Hulse Rock (50' rock)</td>
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<td>SENTRY ROCK</td>
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<td>L. Heck</td>
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PHOTOGRAMMETRIC OFFICE REVIEW

T-9938, 39, 32

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

(Nautical Chart Data)

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 alongshore 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. Junctions
35. Legibility of the manuscript
36. Discrepancy overlay
37. Descriptive Report
38. Field inspection photographs
39. Forms

40. Reviewer
Supervisor, Revision Section of Unit

Louis J. Reed, Chief
Stereoscopic Mapping Branch
Photogrammetric Engineer

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:
62. **Comparison with Registered Topographic Surveys:**

   There are no prior surveys for the area covered by these maps.

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

   The area covered by these maps is previously unsurveyed. A reconnaissance map, Adak, Alaska, published by the U. S. Geological Survey, at scale 1:250,000, dated 1951 is incomplete and is not adequate for comparative purposes.

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

<table>
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<th>H-8053</th>
<th>1:20,000</th>
<th>1953</th>
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<td>H-8055</td>
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<td>1953</td>
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   Surveys T-9932, T-9938 and T-9939 are in agreement with the hydrographic surveys.

65. **Comparison with Nautical Charts:**

   | 9145 | 1:40,000 corrected to 8/13/54 |
   | 8863 | 1:300,000 corrected to 1/14/52 |

   The maps and the charts are in general agreement with no conflicts. The shoreline configuration is much more detailed on the maps than on the charts.

66. **Adequacy of Results and Future Surveys:**

   These maps are complete and adequate for use in hydrographic surveys and the construction and maintenance of nautical charts. These maps comply with the National Standards of Map Accuracy.

Reviewed by:
K. N. Maki

APPROVED:

[Signatures and dates for approval]
### Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
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<th>REMARKS</th>
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<td>9/27/54</td>
<td>9145</td>
<td>Lt. McLean</td>
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* A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review. *