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

**DESCRIPTIVE REPORT**

<table>
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<th>Type of Survey</th>
<th>Topographic</th>
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<tr>
<td>Field No.</td>
<td>Ph-34(48)</td>
</tr>
<tr>
<td>Office No. and</td>
<td>T-9935, 36,37</td>
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**LOCALITY**

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<tr>
<th>State</th>
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<tr>
<td>General locality</td>
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<tr>
<td>Locality</td>
<td>Tanaga Island</td>
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<table>
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<tr>
<th>Date</th>
<th>March 31, 1958</th>
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<tbody>
<tr>
<td>Chief of Party</td>
<td>S. B. Grenell, Chief of Field Party</td>
</tr>
<tr>
<td></td>
<td>L. J. Reed, Div. of Photo., Wash., D.C.</td>
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**LIBRARY & ARCHIVES**

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CONFIDENTIAL

THIRD PASSED AT 1300H-PHIL 1755
New 073144
Z Nov 15

From: Chief of Naval Operations
To: Headquarters, United States Air Force

Subj: Classification Clearance; USSAF request for

Rec (a) USSAF Publication "Map and List of Security Review
Areas for the Classification of Aerial Photography"

1. Readdressed and forwarded for review and recommendations. The
original security classification for subject maps was established
on 2 October 1942 in compliance with reference (a).

2. The Chief of Naval Operations intersperses no objections to
declassification of the subject maps. The need for changing
details shown is not considered necessary to permit declassification.
By copy of this endorsement the U. S. Coast and Geodetic Survey is
advised that all the physical improvements on the islands of Anchitsa,
Kiska and Tangan are now the property of the Alaskan Chain Clean-up
Contractor who will probably remove many of the structures now shown
on the attached drawings.

3. In order to avoid unnecessary delay in replying to enclosure (1)
it is recommended that the Chief of Staff, United States Air Force
reply directly to the originator.

E. B. McKinney
By direction

Copies to:

COMMINAL
COMALSECCH

U.S. Coast and Geodetic Survey,
Dept. of Commerce, Washington, D. C.

T-5598
T-5599
T-8636
T-9135

CONFIDENTIAL
Alaskan Command, APO 942, Seattle, Washington

To: Chief, Bureau of Aeronautics, Department of Navy, Washington 25, D. C.

1. The Commander-in-Chief, Alaska, interposes no objection to the downgrading of subject manuscripts, T-5536 (Amchitka Island), T-5599 (Amchitka Island), T-9636 (Kiska Island), and T-9935 (Tanaga Island) to unclassified.

2. As there is no present or foreseeable requirement for the land and facilities shown on subject manuscripts, and as all physical improvements on the islands of Amchitka, Kiska, and Tanaga are now the property of the Aleutian Chain clean-up contractor, no detail or installations need be deleted from subject manuscripts prior to declassification.

3. The U. S. Coast & Geodetic Survey should be advised that many of the existing structures shown on the enclosed drawings will probably be removed by the Aleutian Chain clean-up contractor.

For the Commander-in-Chief:

T. R. Stoughton
Electrical Central, USA
Chief of Staff

5 Decks
n/e

If enclosure No. ______ is withdrawn (or not attached) the classification of the correspondence will be downgraded to

MAIL LOGGED
BY AER-13-5
OCT 18 1955
DATA RECORD

Project No. (II): Ph-34(48) Quadrangle Name (IV):
T-9935 = CAPE AMAGALIK
T-9936 = SOUTH BAY
T-9937 = ANNOY ROCK
T-9942 = CAPE SASMIX

Field Office (II): C&GS 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 1tr No 22/EX, 3-2-EX, dated 8 Mar 52, subj: Modification of Instructions.

OFFICE = 14 Oct 53

Method of Compilation (III): Shoreline south side Tanaga Bay and all contours compiled on Reading Plotter. Shoreline (balance) by Graphic compilation.

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (II): 1:20,000

Scale Factor (III): 1:11

Date received in Washington Office (III): APR 29 1954

Date reported to Nautical Chart Branch (IV): MAY 5 1954

Applied to Chart No. Date: Date registered (IV): 11 June 1957

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

Geographic Datum (III): NA 1927

Vertical Datum (III):

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (S) refer to sounding datum
I.e., mean low water or mean lower low water

Reference Station (III):

Lat.: Long.: Adjusted

X =

Y =

Plane Coordinates (IV):
State:
Zone:

Universal Transverse Mercator Grid, Zone 1, 1,000m intervals.

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.

Form T: Page 1
Areas contoured by various personnel
(Show name within area)

100% compiled by Louis Levin on the Reading Plotter, model "B".
DATA RECORD

Field Inspection by (II):  S.B. Grennell (EXPLORER)  Date: 1953

Planetable contouring by (II):  None  Date:

Completion Surveys by (II):  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 shoreline is dated "1953".

Projection and Grids ruled by (IV):  Austin Riley on the Reading Ruling Machine  15 Oct 53

Projection and Grids checked by (IV):  Howard D. Wolfe  19 Oct 53

Control plotted by (III):  Neil S. Shultz  8 Nov 53

Control checked by (III):  Jeter P. Battley  13 Nov 53

Radial Plot:  Samuel D. Blankenbaker
and Howard J. Murray  18 Dec 53

Compilation by (III):  Planimetry
Stereoscopic Instrumentation (III):  by: Louis Levin  26 Feb 54

Compilations by (III):  John B. McDonald = All
contours and shoreline south side Tanaga Bay.
Balance of shoreline by Graphic Compilation Br.  20 Dec 53

Photogrammetric Office Review by (III):  Louis J. Reed  30 Apr 54

Shoreline compilation checked by Roscoe J. French
and Charles Theurer (Graphic Compilation Br. work)  20 Dec 54

Elevations on Manuscript
checked by (II) (III):

Form T-Page 3
See Photo & Control sketch and Photograph list, pages 11 and 12 respectively, of the Radial Plot Report found in the Descriptive Report to accompany T-9921 thru T-9923.

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<tr>
<th>Tide (III)</th>
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<td>Reference Station:</td>
<td>Sweeper Cove, Adak Island</td>
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<tr>
<td>Subordinate Station:</td>
<td>Tanaga Bay, Lash Bay</td>
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<tr>
<td>Subordinate Station:</td>
<td>Hot Springs Bay</td>
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<tr>
<td>Washington Office Review by (IV):</td>
<td>K. N. Maki, R. Kelly</td>
</tr>
<tr>
<td>Final Drafting by (IV):</td>
<td>M. Day</td>
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<tr>
<td>Drafting verified for reproduction by (IV):</td>
<td>Wm. O. Hallum</td>
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<td>Land Area (Sq. Statute Miles) (III):</td>
<td>See remarks below (1)</td>
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<td>Shoreline (More than 200 meters to opposite shore) (III):</td>
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<td>Recovered:</td>
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<td>Number of BMs searched for (II):</td>
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<td>Number of Recoverable Photo Stations established (III):</td>
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<td>Number of Temporary Photo Hydro Stations established (III):</td>
<td>See remarks below (2)</td>
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Remarks:

(1)

Land area = \[ \frac{T-9935}{14 \text{ sq mi}} \] \[ \frac{T-9936}{37 \text{ sq mi}} \] \[ \frac{T-9937}{3 \text{ sq mi}} \] \[ \frac{T-9942}{2 \text{ sq mi}} \]

Shoreline = 19 miles 28 miles 17 miles 6 miles

(2)

Numerous hydro stations were located with a theodolite and positions were computed by the field party. No 524 cards were submitted but the stations are dated 1953 and are shown on the manuscripts with a 2.5mm black circle. All dated stations without 524 cards are in this category.

*Refer to Descriptive Report T-9922, 38 and 39 (combined) for additional information on T-9937
SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT
T-9935, T-9936, T-9937, and T-9942

T-9935 through T-9937, inclusive, and T-9942 are four topographic surveys covering the southern portion of Tanaga Island and the western end of Kanaga Island. These maps were compiled on the nine-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 entitled:

FIELD INSPECTION REPORT

FOR MAPS

T-9921 thru T-9923
T-9927 thru T-9931
T-9935 thru T-9937
and T-994

Project GS-218, Ph-34
Tanaga Island, Alaska

Ship EXPLORER
S.B. Grenell, Comdg
RADIAL PLOT REPORT

21-31

Please refer to the radial plot report contained on pages 8 thru 12 of the descriptive report to accompany T-9921 thru T-9923. That radial plot report covers the area of this report also.
31. Delineation:

Graphic methods were used to delineate the shoreline of the area of this report except for the shoreline on the south side of Tanaga Bay which was office delineated. Shoreline and rock data were compiled from metal-mounted office photos with the aid of a stereoscope and field inspection photos. The method involved a preliminary investigation of the photos and the radial plot to determine those areas of common scale in order to aid the compiler when inking the manuscript. Detailed and pass points of sea-level elevation were inked on the work sheet to hold to as control during the compilation. The proper density of detail points is dependent on scale and position of shoreline and islands. Offshore islands of any consequence have a minimum of two detail points to control their position. Where scale was not sufficiently close the work sheets were transferred with the electric projector, reflecting. The work sheets were detailed under the stereoscope and are therefore a stereoscopic interpretation of the MHHWL and foreshore aided by the field inspection information.

All contours were delineated on the instrument (Reading Plotter). Shoreline indications and other field inspection data on the field inspection photos was used as a guide during this delineation where steep cliffs were nearly on the shoreline. The entire land area on all four quads has been completed by this project.

32. Control:

See side-heading 23 on page 9 of the radial plot report. Both horizontal and vertical control were adequate for instrument compilation purposes.

33. Supplemental Data:

One graphic control survey exists in the area, No. 6974a. It is named "EAST SHORE, TANAGA BAY", has a scale of 1: 5,000, and is dated May 1944. It has been used for hydrographic control for 1953 work in the field, but the shoreline has now been delineated on the plotting instrument and should supersede it. Only minor changes are noted. Also reference side-heading 14 of the Field Inspection Report.

34. Contours and Drainage:

The photographs were of good quality for contouring purposes and there remain no areas of questionable contours.
35. Shoreline and Alondshore Details:

See side-heading 7, page 14 of the Field Inspection Report; also see side-heading 31 above. Field Inspection as provided on photos and on RS-426 were quite adequate and have been incorporated into this compilation.

36. Offshore Features:

Included as part of side-heading 35 above.

37. Landmarks and Aids:

According to side-heading 9, page 16 of the field inspection report, landmarks will be recommended in a future phase of field work, and no aids exist.

38. Control for Future Surveys:

Refer to side-heading 11, page 16 of the Field Inspection Report. Certain hydro and topo stations were located by field methods. Other stations identified in the field were located by graphic plotting.

Hydro Stations: No descriptions were furnished the compilation office, and all were transferred to office photos from field photos by prickling, the transfer being verified by a second compiler. Manuscript location was then accomplished by graphic methods.

Topo Stations: Those for which descriptions were written by the field party have 524 forms whether located by field or office methods. They include:

T-9935 = Blob, 1944 (field) Form 524 filed in Division of Photogrammetry general files.
T-9936 = None
T-9937 = Nek, 1953 (field)
T-9942 = Hat, 1953 (office)

39. Junctions:

The Map Layout Sketch, page 5, this report, shows all existing junctions. All are in agreement since all sheets of this Island were compiled as parts of the same project.

40. Horizontal and Vertical Accuracy:

It is considered that the four manuscripts of this report meet the requirements established by the standards of National Map Accuracy for maps having a scale of 1:20,000, and showing relief by means of a 50ft contour interval with 25ft supplemental contours used in relatively flat areas.
46. **Comparison with Existing Maps:**

Prior to this project, no accurate maps of Tanaga Island were ever compiled for comparison purposes at this time.

47. **Comparison with Nautical Charts:**

The following three charts exist but offer little of comparable value:


3. Alaska-Aleutian Islands, Harbors and approaches, Andreanof Islands, HOT SPRINGS BAY, No. 9121, 1:10,000, 2nd edition, last correction date of 25 August 1952.

48. **Geographic Name List:**

See next page, page 12.

49. **Notes for the Hydrographer:**

Not applicable.

50. **Compilation Office Review:**

See T-2 form following, page 13.

Submitted by:

[Signature]

Orvis N. Dalbey, Chief,
Nine-Lens Plotting Instrument Section.

Approved by:

[Signature]

Louis J. Reed, Chief
Stereoscopic Mapping Branch
Photogrammetric Engineer
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<td>PACIFIC OCEAN</td>
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<tr>
<td>TANAGA ISLAND</td>
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</tbody>
</table>

Names approved 11-15-64.

L. Heck
PHOTOGRAMMETRIC OFFICE REVIEW

T. 9935, 36, 37, 42.

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.  

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:  

M.2523-12
62. Comparison with Registered Topographic Surveys.-

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>T-6974a</td>
<td>1:5,000</td>
<td>1944</td>
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<td>T-6975</td>
<td>1:10,000</td>
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<tr>
<td>R.S. 426, Sheets 5 and 6 of 6, 1:20,000 scale.</td>
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</table>

R.S. 426 is a revision survey compiled without field inspection as a preliminary shoreline survey for boat sheet use on hydrographic survey operations.

T-9935 thru T-9937 and T-9942 supersede all of the above listed prior surveys.

63. Comparison with Maps of Other Agencies.-The area covered by these maps is previously unsurveyed and no maps are available for comparative purposes other than reconnaissance maps of Gareloi Island and Adak, Alaska. These latter maps are incomplete and are published by the U.S. Geological Survey at scale 1:250,000, dated 1951.

64. Comparison with Contemporary Hydrographic Surveys.-

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Date</th>
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<tbody>
<tr>
<td>H-69114</td>
<td>1:720</td>
<td>1944</td>
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<tr>
<td>H-7006</td>
<td>1:10,000</td>
<td>1944</td>
</tr>
<tr>
<td>H-8051</td>
<td>1:20,000</td>
<td>1953</td>
</tr>
<tr>
<td>H-8053</td>
<td>1:20,000</td>
<td>1953</td>
</tr>
</tbody>
</table>

Surveys T-9935 thru T-9937 and T-9942 are in agreement with the latest hydrographic surveys. The topographic surveys provided shoreline and foreshore features for the 1953 dated hydrographic surveys. Some adjustments were made to rock elevations above the sounding datum on the basis of field inspection data. These changes were limited to one or two feet. Additional rock elevation data were included. All changes and additions were noted in red on the map manuscripts.

65. Comparison with Nautical Charts.-

<table>
<thead>
<tr>
<th>Number</th>
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<tbody>
<tr>
<td>9145</td>
<td>1:40,000</td>
<td>corrected to 8/13/51</td>
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<tr>
<td>9146</td>
<td>&quot;</td>
<td>&quot; 8/27/51</td>
</tr>
<tr>
<td>8863</td>
<td>1:300,000</td>
<td>&quot;</td>
</tr>
</tbody>
</table>

The maps and the charts are in general agreement only. 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:

Le Lande
Chief, Cartographic Branch
Photogrammetry Division

Chief, Cartographic Branch
Photogrammetry Division
13 March 1958

Chief, Coastal Surveys Division

Chief, Nautical Chart Branch
Chart Division
### Nautical Charts Branch

**Survey No.**

Record of Application to Charts

<table>
<thead>
<tr>
<th>Date</th>
<th>Chart</th>
<th>Cartographer</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/27/54</td>
<td>9/45</td>
<td>P.G. MacLaren</td>
<td>Before After Verification and Review</td>
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<tr>
<td></td>
<td></td>
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<td>Applied in full. T9936, T9937, T9942 before signature.</td>
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<tr>
<td></td>
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<td>Before After Verification and Review</td>
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<td>1956</td>
<td>9/46</td>
<td>Nelson (Segal's Unit)</td>
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<td>T. Wallace</td>
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<td>Completely applied to Reconstruction</td>
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<tr>
<td>12/21/58</td>
<td>16407</td>
<td>J. A. Paris</td>
<td>Before After Verification and Review</td>
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</tbody>
</table>

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.