9935 9936
9937 9942

9936 9942

9935 9937

Diag. Cht. No. 8863-2.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-34(48) *Office No.* T-9935,36,37 and T-9942

LOCALITY

State Alaska

General locality Aleutian Islands

Locality Tanaga Island

1947 53

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

DATE March 31, 1958

8-1870-1 (1)

CONFIDENTIAL

Op-441/mfh
Ser 0731P44
2 NOV 1[illegible]

THIRD ENDORSEMENT on COMALSEAFRON ltr No. FF15-1/44/N1-1 ser 0499 of 13 Sep 1955

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

Subj: Classification Clearance; USCGS request for

Ref: (a) USAAF 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 interposes 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 Amchitka, Kiska and Tanaga are now the property of the Aleutian Chain Cleanup 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

AUTH[illegible]
Carolyn E. Russell, [illegible]
Administrative [illegible]

Copies to:
CINCAL
COMALSEAFRON
BUAER
U. S. Coast and Geodetic Survey,
Dept. of Commerce, Washington, D. C.

T-5598
T-5599
T-8636
T-9935

CONFIDENTIAL

Ltr, ALSEAFRON, Navy No. 127, (Box 14), c/o FM, Seattle, Wash, Subj: "Classification Clearance; USC&GS request for", 13 Sep 1955

AL1ER-9 333.5 1st Ind / OCT 1955

HEADQUARTERS ALASKAN COMMAND, APO 942, Seattle, Washington

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

TO: Chief of Naval Operations, Department of Navy, Washington 25, D. C.

1. The Commander-in-Chief, Alaska interposes no objection to the downgrading of subject manuscripts, T-5598 (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

T. R. STOUGHTON
Brigadier General, USA
Chief of Staff

5 Incls
n/c

If Inclosure No. 1-5 is withdrawn (or not attached) the classification of this correspondence will be downgraded to Unclassified

MAIL LOGGED BY AER-12-5
OCT 18 1955

5101803

DATA RECORD

T-9935, 36, *37, and 9942 — *see p. 4 Remarks

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

T-9935 = CAPE AMAGALIK
T-9936 = SOUTH BAY
T-9937 = ANNOY ROCK
T-9942 = CAPE SASMIK

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

Photogrammetric Office (III): Washington, D.C. Officer-in-Charge:

Radial Plot = Lester C. Lande
Compilation = Louis J. Reed

Instructions dated (II) (III): Copy filed in Division of Photogrammetry (IV)

FIELD = 8 Apr 48, 19 Mar 52, 20 Feb 53, and ltr No 22/MEK, S-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 (III): 1:20,000

Scale Factor (III): 1:1

Date received in Washington Office (IV): 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 (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:

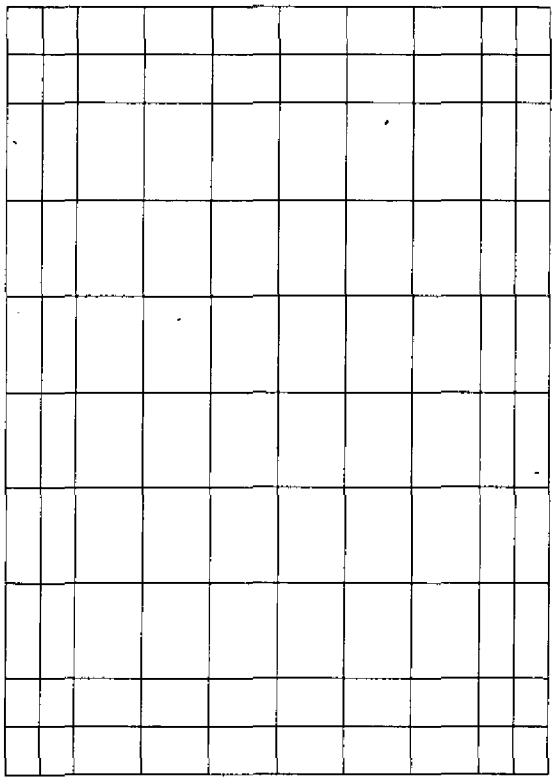
Y= X=

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.

M-2618-12(4)



Areas contoured by various personnel
(Show name within area)
(I) (II) (III)

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".
Shoreline is essentially of date of the photography from which compiled. [illegible]

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

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

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

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

Radial Plot ~~[illegible]~~ Control extension by (III): Samuel D. Blankenbaker and Howard J. Murray Date: 18 Dec 53

Stereoscopic Instrument ~~[illegible]~~ delineation (III): Planimetry by: Louis Levin Date: 26 Feb 54
Contours Date:

Manuscript ~~[illegible]~~ compiled by (III): John B. McDonald = All contours and shoreline south side Tanaga Bay. Date: 28 Apr 54
Balance of shoreline by Graphic Compilation Br. 20 Dec 53

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

M-2618-12(4)

Camera (kind or source) (III): USC&GS 9-lens camera, model "B", f = 8.25inches

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide

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.

Tide (III)

diurnal

Ratio of Ranges	Mean Range	Spring Range
----	----	3.7
1.1	----	4.0
1.1	----	4.2
0.8	----	3.1

Reference Station: Sweeper Cove, Adak Island
Subordinate Station: Tanaga Bay, Lash Bay
Subordinate Station: Hot Springs Bay

Washington Office Review by (IV): K. N. Maki Date: 11-30-54

Final Drafting by (IV): R. Kelly T-9935, M. Charity T-9936, M. Charity T-9937, M. Day T-9942 Date: 6-28-56, 6-26-56, 2-20-56, 3-2-56

Drafting verified for reproduction by (IV): Wm O. Hallum Date: 9-20-56

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): See remarks below (1)
Shoreline (More than 200 meters to opposite shore) (III): See remarks below (1)
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (II): None
Number of Triangulation Stations searched for (II): Recovered: Identified: FORTY
Number of BMs searched for (II): None Recovered: Identified:
Number of Recoverable Photo Stations established (III): SEVEN
Number of Temporary Photo Hydro Stations established (III): See remarks below (2)

Remarks:

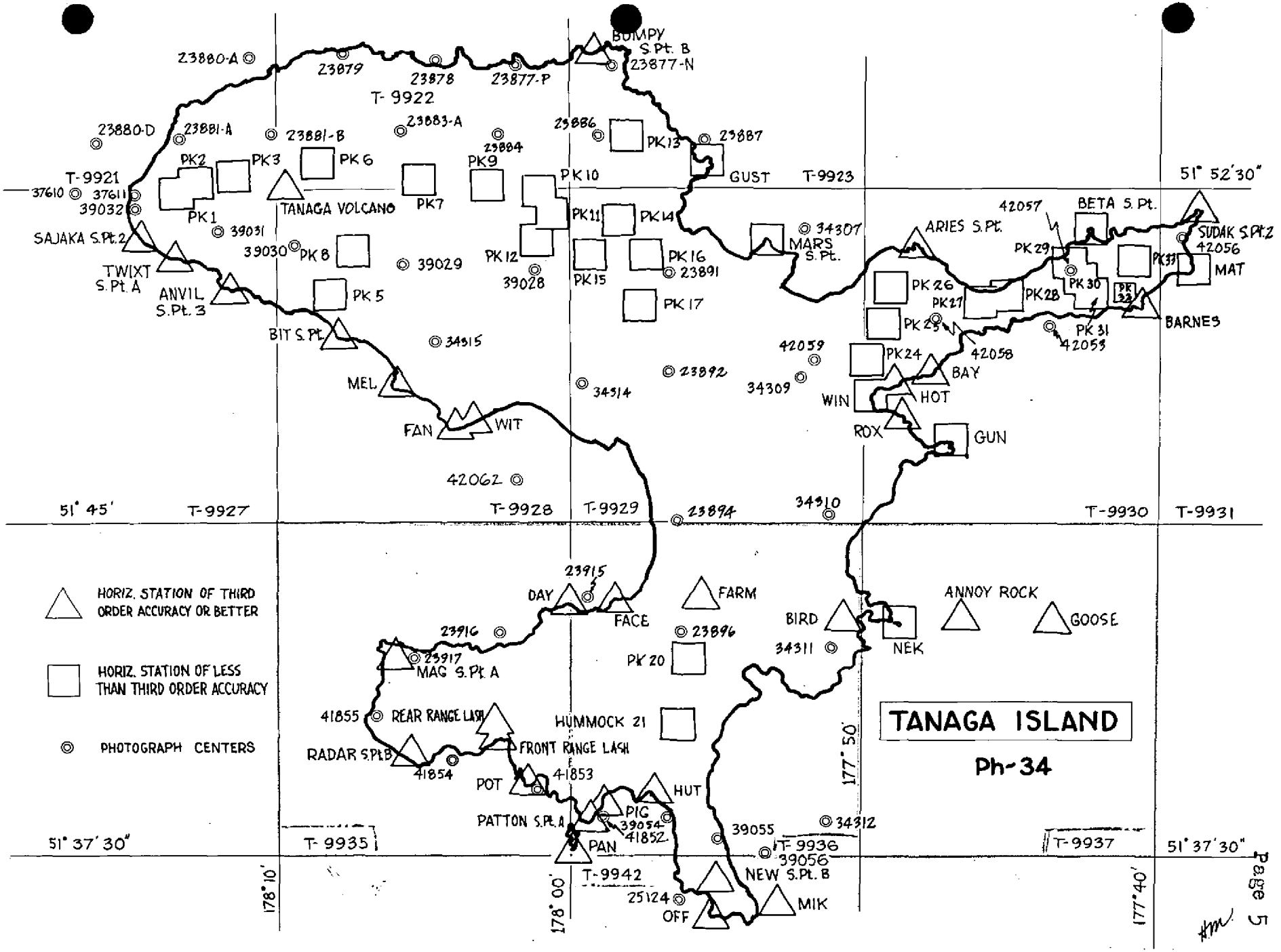
(1)

	T-9935	T-9936	*T-9937	T-9942
Land area =	14 sq mi	37 sq mi	3 sq mi	2 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-9932, 38 and 39 (combined) for additional information on T-9937


BUMPY S.Pt. B
23877-N
23880-A
23879
23878
23877-P
T-9922
23880-D
23881-A
23881-B
23883-A
23884
23886
PK13
23887
T-9921
37610
37611
39032
PK2
PK3
PK6
PK9
PK10
GUST
T-9923
51° 52'30"
PK1
TANAGA VOLCANO
PK7
PK11
PK14
34307
MARS S.Pt.
ARIES S.Pt.
42057
BETA S.Pt.
SUDAK S.Pt.2
42056
MAT
SAJAKA S.Pt.2
39031
39030
PK8
39029
PK12
39028
PK15
PK16
23891
PK29
PK30
PK33
TWIXT S.Pt.A
ANVIL S.Pt.3
PK5
PK17
PK26
PK28
PK27
PK25
PK31
42053
BARNES
BIT S.Pt.
34315
42059
PK24
42058
BAY
MEL
23892
34309
WIN
HOT
34314
FAN
WIT
ROX
GUN
42062
51° 45'
T-9927
T-9928
T-9929
23894
34310
T-9930
T-9931
HORIZ. STATION OF THIRD ORDER ACCURACY OR BETTER
HORIZ. STATION OF LESS THAN THIRD ORDER ACCURACY
PHOTOGRAPH CENTERS
23915
DAY
FACE
FARM
ANNOY ROCK
BIRD
GOOSE
23916
23896
34311
NEK
23917
MAG S.Pt.A
PK20
41855
REAR RANGE LASH
HUMMOCK 21
TANAGA ISLAND
Ph-34
RADAR S.Pt.B
FRONT RANGE LASH
41854
41853
POT
HUT
177° 50'
PATTON S.Pt.A
PIG
39054
41852
39055
34312
51° 37'30"
T-9935
PAN
T-9936
39056
T-9937
51° 37'30"
NEW S.Pt.B
T-9942
25124
OFF
MIK
178° 10'
178° 00'
177° 40'

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 Ozalid ~~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-9947

Project CS-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 accompanyT-9921 thru T-9923. That radial plot report covers the area of this report also.

COMPILATION REPORT

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. Detail 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 pricking, 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)
T-9936 = None
T-9937 = Nek, 1953 (field)
T-9942 = Hat, 1953 (office)

Forms 524 filed in Division of Photogrammetry general files.

39. Junctions:

The Map Layput 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:

1. 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.

2. Preliminary Chart, Alaska-Aleutian Islands, TANAGA BAY AND APPROACHES, No. 9146, 1:40,000, 1st edition, March 1945, last correction date of 27 August 1951.

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:

Orvis N. Dalbey

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

Approved by:

Louis J. Reed

Louis J. Reed, Chief
Stereoscopic Mapping Branch
Photogrammetric Engineer

GEOGRAPHIC NAMES

Survey No.

T-9935, 36, 37, 42.

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
T-9935										1
CAPE AMAGALIK ✓										2
FIGURE EIGHT LAKE ✓										
HAREM ROCK ✓										3
INFERNO REEF ✓										
KULAK POINT ✓										4
LASH BAY ✓										
PACIFIC OCEAN ✓ (Shift application										5
SCARAB ROCK ✓										
TANAGA BAY ✓										6
TANAGA ISLAND ✓ Tanaga Pass.										
TIDGITUK ISLAND ✓										7
WHIP ISLAND ✓										
										8
T-9936										9
CHRISTMAS TREE POINT ✓										10
EUREKA BAY Bight ✓										
MIDDLE LEDGE ✓										11
PACIFIC OCEAN ✓										
SOUTH BAY ✓										12
SOUTHEAST BIGHT ✓										
TANAGA BAY ✓										13
TANAGA ISLAND ✓										
TWIN BAYS ✓										14
WASH REEF ✓										
T-9937										15
ANNOY ROCK ✓										16
CAPE CHUNU ✓										
CASTLE ISLAND ✓										17
EDDY ROCK ✓										
EUREKA BIGHT ✓										18
EXPLORER PASSAGE ✓										
GOOSE ROCKS ✓										19
HAZARD POINT ✓										
KANAGA ISLAND ✓										20
KANAGA PASS ✓										
MONROE BAY ✓										21
PACIFIC OCEAN ✓										
TANAGA ISLAND ✓										22
WEST CHUNU POINT ✓										
WESTERN POINT ✓										23
T-9942										24
CAPE SASMIK ✓ (one word)										25
HERD ROCK ✓										
PACIFIC OCEAN ✓										26
TANAGA ISLAND ✓										
										27

Names approved 11-15-54. L. Heck

Form T-2

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. Planetable 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. [signature] Reviewer [signature] 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:

M-2623-12

Review Report T-9935, T-9936, T-9937, and T-9942
Topographic Maps
30 November 1954

62. Comparison with Registered Topographic Surveys.-

T-6974a	1:5,000	1944
T-6975	1:10,000	1944
R.S. 426, Sheets 5 and 6 of 6, 1:20,000 scale.		

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.-

H-6914	1:720	1944
H-7006	1:10,000	1944
H-8051	1:20,000	1953
H-8053	1:20,000	1953

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.-

9145	1:40,000	corrected to	8/13/51
9146	"	"	8/27/51
8863	1:300,000	"	1/14/52

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
K. N. Maki

APPROVED:

L C Lande
Chief, Cartographic Branch
Photogrammetry Division

Max G Ricketts
Chief, Nautical Chart Branch
Chart Division

Lill Swanson
Chief, Photogrammetry Division
13 March 1958

Chief, Coastal Surveys Division

9936
37
42

NAUTICAL CHARTS BRANCH

SURVEY NO. _____

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
9/27/54	9145	S.G. McGann	Before ~~After~~ Verification and Review Verified after review and before signature HFQ
		Applied in full. T9936, T9937, T9942	
			Before After Verification and Review
1954	9146 reconstr	Wilson (Frey's Unit)	Before After Verification and Review Verified Sept 1956 HFQ
11/19/58	8863	J.F. Walker	~~Before~~ After Verification and Review
			Completely applied to Reconstruction
12/30/92	16467	Joseph Robinson	~~Before~~ After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

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.