

8633 THRU 8639

T-8636

~~CONFIDENTIAL~~

Diag. Cht. No. 8864-2

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-8633 thru T-8639

(T-8636 Confid.)

LOCALITY

State Alaska

General locality Aleutian Islands

Locality Kiska Island

194/51

CHIEF OF PARTY

Hubert A. Paton, Chief B'more Photo Office
L.J. Reed, Div. of Photogrammetry, Wash., D.C.

LIBRARY & ARCHIVES

DATE JUNE 28, 1955

8-1870-1 (1)

8633 THRU 8639

T-8636

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

DATA RECORD

T-8633, 34, 35, 36, 37, 38, 39.

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

Field Office (II):

Chief of Party:

Photogrammetric Office (III): Baltimore, Md
Washington, D.C.Radial Plot = Hubert A. Paton, Chief
Compilation = Louis J. Reed, Chief,
Stereoscopic Mapping Branch

Instructions dated (II) (III):

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Reading Plotter

Manuscript Scale (III): 1:20,000

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

Scale Factor (III): 1.00

Date received in Washington Office (IV):

MAY -1 1953

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

9182
9180

Date:

10/27/53
10/20/53

Date registered (IV): 21 June, 1955

Publication Scale (IV): 1:25,000

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

~~Longitude~~

Plane Coordinates (IV):

State:

Zone:

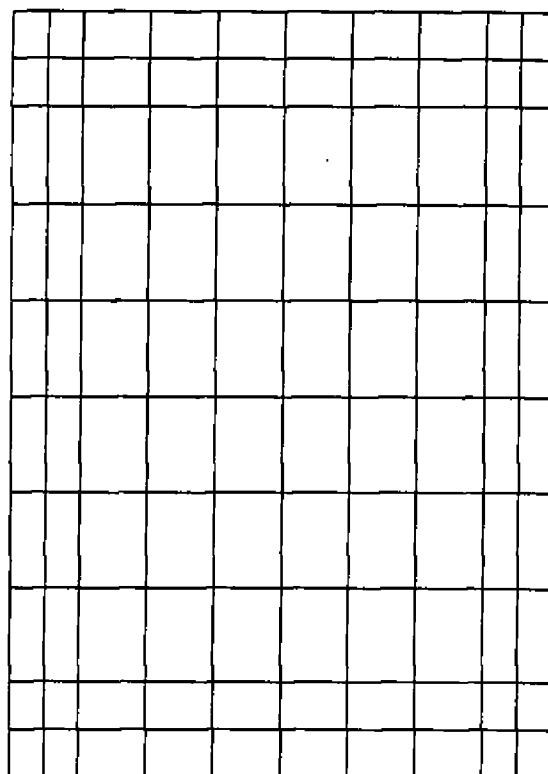
Y=

X=

Universal Transverse Mercator Grid, Zone 60, 2500m 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.



Areas contoured by various personnel

(Show name within area)

(U) (III)

100% compiled on the Reading Plotter,
model "A", by:

Clarence E. Misfeldt

DATA RECORD

Field Inspection by (II): **F.B.T. Siems EXPLORER**
Henry E. Finnegan PIONEER
FB.T. Siems EXPLORER
HENRY E. Finnegan PIONEER

Date: 1947 Season
 1947 "
 1948 "
 1948 "

Planetable contouring by (II): **None**

Date:

Completion Surveys by (II): **None**

Date:

Mean High Water Location (III) (State date and method of location): **The date of the MHWL of this compilation project is considered to be the date of the photography used for the instrument delineation, 6 Oct 1951. This date is selected since the field inspection covered a period of 3-4 years, 1947-9, and was used as a guide only, during the instrument work.**

Projection and Grids ruled by (IV):

Date: 5 Jun 52

Stephen Rose on the Reading Ruling Machine
 Projection and Grids checked by (IV):

Howard W. Wolfe

Date: 6 Jun 52

Control plotted by (III):

Date:

Albert Queen

22 Sep 52

Control checked by (III):

Ruth Hartley

Date: 24 Sep 52

Radial Plot ~~or Stereoscopic~~

Ruth Hartley

Date: 9 Oct 52

Control extension by (III):

Verified by Frank J. Tarcoza

10 Oct 52

Stereoscopic Instrument ~~used for~~ **delineation** ^{Planimetry}

Date:

both by Clarence E. Misfeldt

Date: 17 Apr 53

Contours

Date:

Manuscript ~~checked by~~ **compiled by** (III):

Robert L. Sugden

Date: 5 May 53

Photogrammetric Office Review by (III):

**William D. Harris and
 Louis J. Reed**

Date: 15 May 53

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

**William D. Harris
 and Louis J. Reed**

Date: 15 May 53

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

Number	Date	Time	Scale	Stage of Tide
(55 photos)				
34205		13:25		3.8 above MLLW
thru	6 Oct 51	14:05 (165)	1:20,000	3.9 above MLLW below MLLW 0.22 above MSL
34259		14:56		4.0 above MLLW

34236, 37, 38 not printed

34241 is all water area

Tide (III)

Reference Station: From SWEEPER COVE observations
Subordinate Station: Kiska Harbor, Kiska Island
Subordinate Station:

Ratio of Ranges	Mean Range	diurnal Range
1.0		3.6

Washington Office Review by (IV): K. N. Maki

Final Drafting by (IV): T-8637 Melvin Church 9/23/54 - 9/28/54
T-8639 Melvin Church 9/28/54 - 10/13/54
T-8635 Melvin Church 10/13/54 - 10/21/54

T-8638 Melvin Church 10/21/54 - 11/19/54 Date: 11-19-54 thru
T-8634 Melvin Church 12/11/54 - 12/31/54 Date: 12-2-54
T-8636 Melvin Church 1/1/55 - 1/12/55 Date:

Drafting verified for reproduction by (IV): T-8639 Melvin Church 10/23/54 - 10/28/54
T-8637 Melvin Church 10/28/54 - 11/13/54
T-8635 Melvin Church 11/13/54 - 11/21/54
T-8634 Melvin Church 11/21/54 - 12/11/54
T-8636 Melvin Church 12/11/54 - 12/31/54

T-8635 Woodlin 10-4-54 11-12-54
T-8638 Melvin Church 10-8-54 12-20-54
Date: 11-22-54
1-17-55
Date:

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): See table below

Shoreline (More than 200 meters to opposite shore) (III): See table, below

Shoreline (Less than 200 meters to opposite shore) (III): None

Control Levelling - Miles (II): None

Number of Triangulation Stations searched for (II):

Recovered:

Identified: 2103

Number of BMs searched for (II): None

Recovered:

Identified:

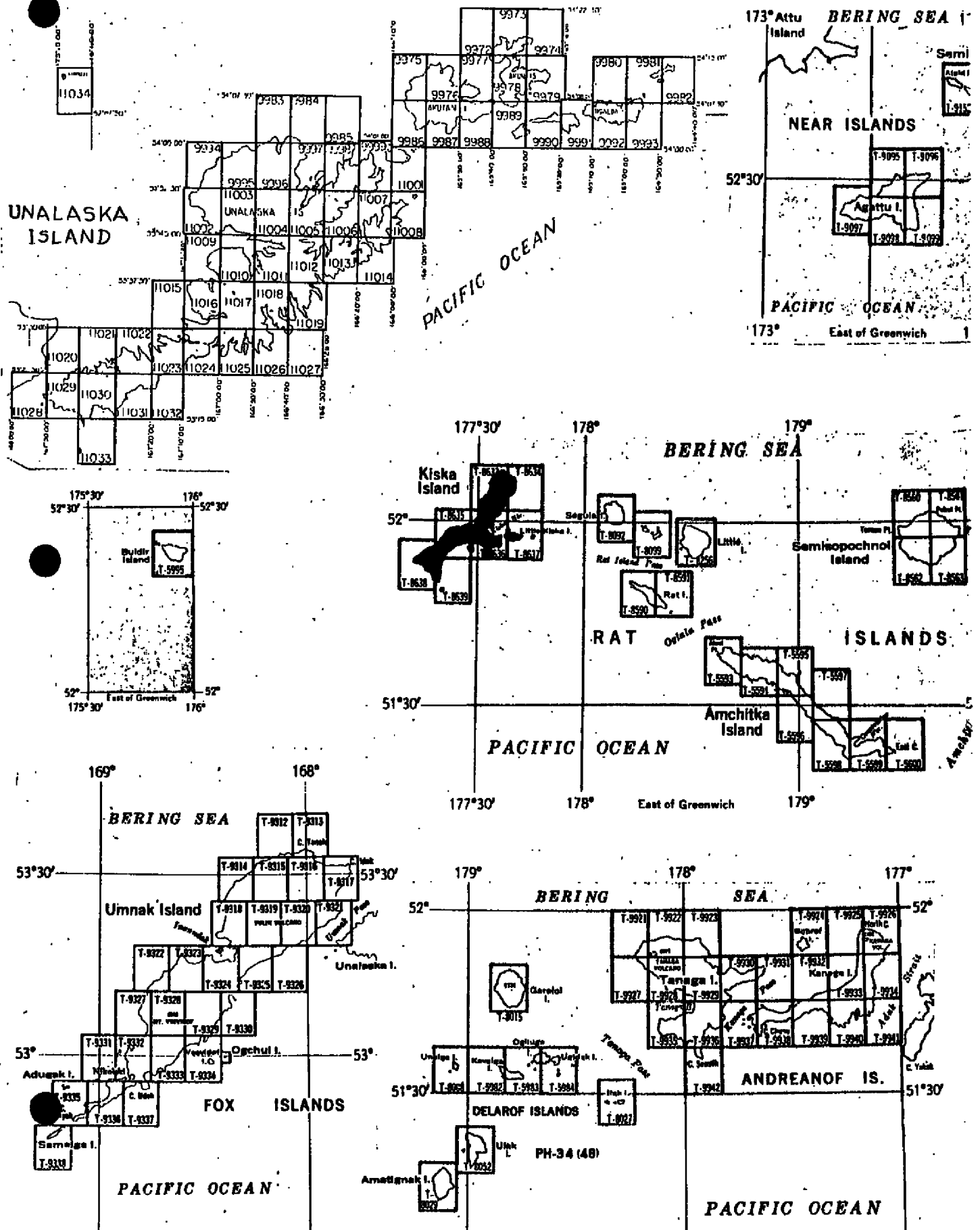
Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

	T-8633	T-8634	T-8635	T-8636	T-8637	T-8638	39
Land Area =	29 sq mi	5 sq mi	25 sq mi	35 sq mi	3 sq mi	13 sq mi	8
Shoreline =	18 miles	10 miles	28 miles	57 miles	13 miles	57 miles	//

ALASKA-BERING SEA Aleutian Islands

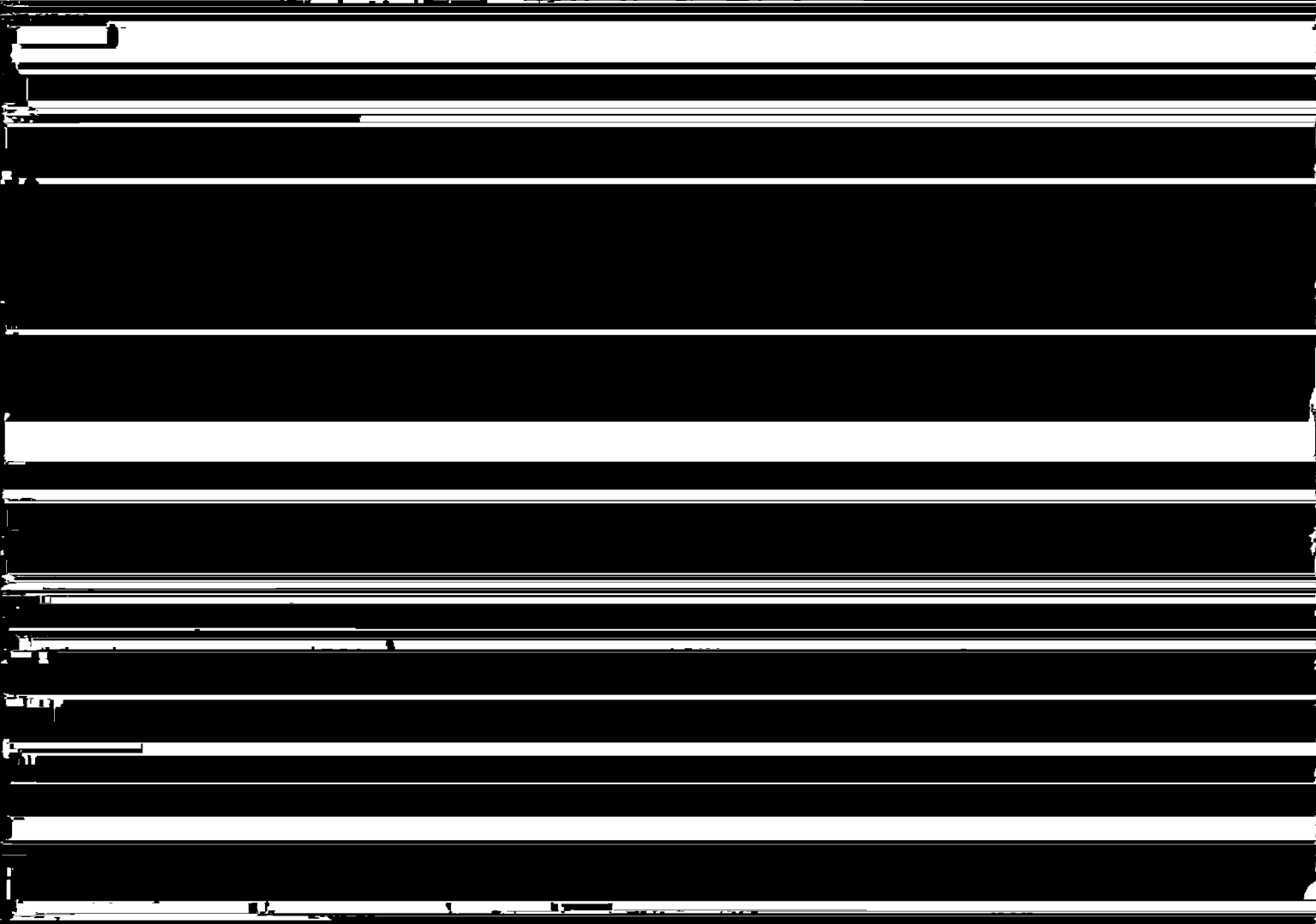


Summary to Accompany Descriptive

Report T-8633 to T-8639

Topographic maps T-8633 to T-8639, inclusive, are seven similar maps in project Ph-34(48). These maps cover that area of the Rat Islands comprising Kiska Island, Little Kiska Island and Tanadak Island. There are also a number of small rocky islets, some named, close to these larger islands. The maps were compiled by stereo-instrument methods using the nine-lens Reading plotter. The field operations preceding compilation included partial inspection of shoreline and foreshore areas, the recovery of horizontal control, the establishment of additional horizontal control and the determination of elevations to control the stereo-instrument project vertically. The compilation was at a scale of 1:20,000 with a contour interval of 50 feet supplemented by a contour interval of 25 feet where needed.

Each manuscript in this series of seven maps is



FIELD INSPECTION REPORT

2-20: See separate reports entitled: On file in general files of
Div. of Photogrammetry

(a) REPORT ON FIELD INSPECTION
OF AIR PHOTOGRAPHS

1947 Season

Ship EXPLORER
F.B.T. Siems, Comdg

(b) REPORT ON FIELD INSPECTION
OF AIR PHOTOGRAPHS

1948 Season

Ship EXPLORER
F.B.T. Siems, Comdg

(c) AIR PHOTO REPORT OF FIELD INSPECTION

1948

Ship PIONEER
Henry E. Finnegan,
Comdg

(d) AIR PHOTO REPORT OF VERTICAL CONTROL

1948

Ship PIONEER
Henry E. Finnegan, Comdg

PHOTOGRAMMETRIC PLOT REPORT

PROJECT PH-34(48)

SURVEYS T-8633 to T-8639, incl.

21. AREA COVERED:

This radial plot covers the area of Surveys T-8633 through T-8639. They are topographic surveys of Kiska, Little Kiska, and Tanadak Islands, Rat Islands, Alaska.

22. METHOD - RADIAL PLOT:Map Manuscripts-

Vinylite sheets with polyconic projections in black and Universal Transverse Mercator grids in red, at a scale of 1:20,000, were furnished by the Washington Office. No base sheets were required as the radial plot was constructed directly on the map projections.

All control stations and substitute stations were plotted using the beam compass and meter bar.

A sketch, showing the layout of surveys in this plot and the distribution of identified control and photograph centers, is attached to this report.

Photographs-

All photographs used are nine lens metal mounted photographs at a scale of 1:20,000. Thirty-seven (37) photographs were used in this plot numbering as follows -

34205 thru 34218	34233 and 34234
34220 thru 34225	34239 and 34240
34227	34243 thru 34247
34229 thru 34231	34251 thru 34254

The symbols used on the photographs were given in special instructions for all radial plots using nine lens photographs which will be used later for compilation with the Reading Plotter.

Eleven other photographs were also furnished but were not needed for a satisfactory plot and will not be needed by the Reading Plotter.

Templets

Vinylite templets were made from all photographs using a master templet furnished by the Washington Office to adjust for error due to chamber displacements. Radial lines were scratched on the templets with a sharp needle point and the scratches were filled in with china marking pencils. Red pencil was used for all shoreline (rectification) pass points and black was used for all other radial lines.

Closure and adjustment to control

The radial plot was constructed directly on the map manuscripts. A preliminary plot was laid to determine whether there were any badly tilted photographs. The amount of tilt can be estimated by observing the displacement of the image points, indicated by red dots on the templets, of shoreline points and points of known elevations. Several photographs were found to be slightly tilted but not enough to affect the plot. However, photograph 34205 is badly tilted.

The final plot was started with the flight beginning with 34220, extending that flight northward, then the flights to the west and finally the southern flight.

There was an excessive amount of control and it was impossible to hold all of it. Stations which were felt to be well identified were naturally given preference and five stations, whose positions were considered weak, were disregarded.

Photograph 34205 was badly tilted and was laid last so as to have no effect on the plot. The center falls in water and its position is considered weak.

Transfer of points

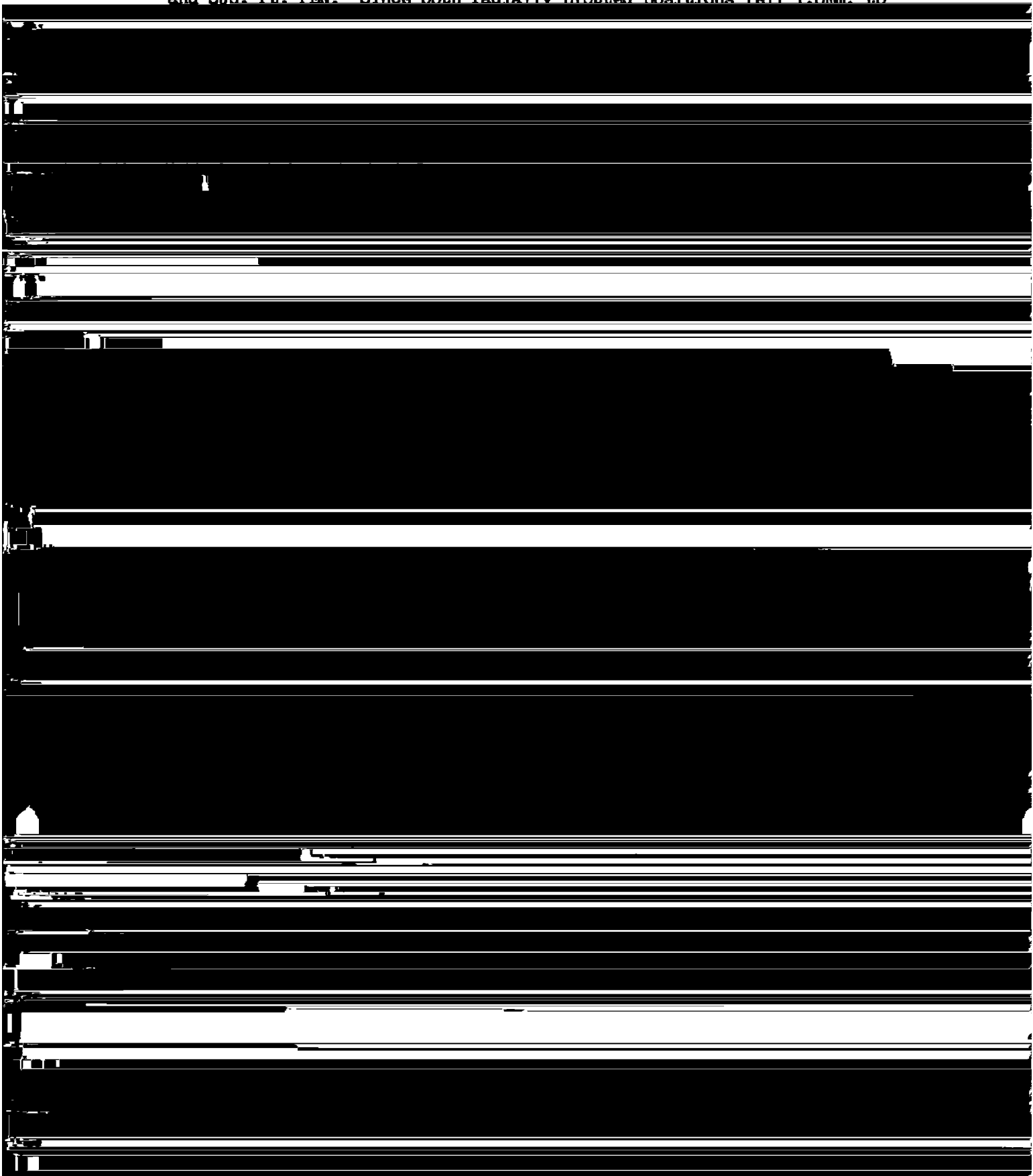
The positions of all centers, pass points, and control stations were pricked on the top templets and circled with 3mm. blue circles. The points were then established on the remaining templets and the map manuscripts by drilling down through them with a small (.01 inch) jeweler's drill. All points were circled on each templet as it was removed and on the map manuscripts.

23. ADEQUACY OF CONTROL:

As stated previously there was more than enough control for a satisfactory plot.

There was inadequate information on recovery of old stations. All stations for which geographic positions were available were plotted excepted those listed on pages 273 and 274, G-6993. These were at Kiska Harbor and were so closely spaced that it was considered inadvisable to show them. ~~Many~~ ^{None} of these were ~~not~~ described. These stations are white wash markings, white flags, prominent parts of wrecks, etc. that are unrecoverable or not permanent.

Radially plotted positions have been established for both: PEN, 1948
and Sub. Pt. PEN. Since both radially plotted positions fell 1.0mm. to



26. VERTICAL CONTROL:

The elevations of twelve peaks were computed. One, *Peak B (from GERTY) was rejected because the two elevations obtained differed by 50 meters. The horizontal angled did not check exactly but it is believed the elevation will not be heeded so no further attempt was made to identify the peak.

** Retained on map manuscript
as unchecked spot elevation.-
agrees with instrument elev.*

Respectfully submitted
15 October 1952

Ruth R. Hartley
Ruth R. Hartley
Carto. Photo. Aid

Approved and Forwarded
21 October 1952

For *Joseph Steinberg*
Hubert A. Paton
Comdr., C&GS
Officer in Charge



LAYOUT SKETCH
PROJECT Ph-34(48)

- Nine lens office photographs
- ▲ Control stations (identified)
- ⊙ Control stations (not held in plot)

COMPILATION REPORT31. Delineation:

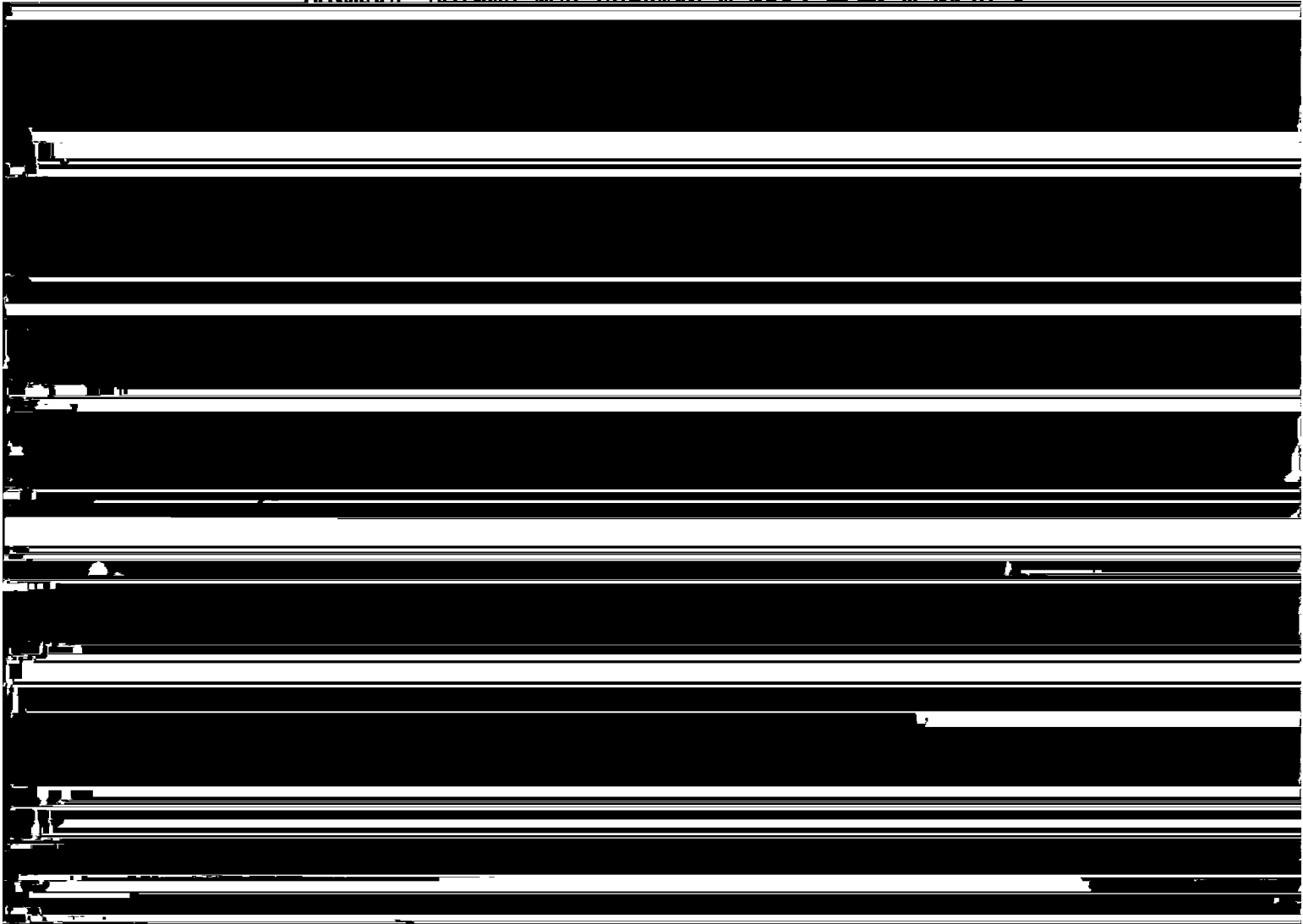
The seven topographic quads covering Kiska Island have been delineated on the Reading Plotter, model "A". The entire area of the island has been completed in this operation; No areas have been left blank because of cloud cover, or left dashed as approximate delineation for any reason.

32. Control: see also item 23.

More than adequate control was existant for control of the radial plot; refer to side-heading 23 of the Radial Plot Report. Certain stations have been left off the manuscripts where they were too crowded or there was a doubt as to their permanency.

33. Supplemental Data:a. Volume of Elevation Computations: Entitled,

"COMPUTATIONS OF ELEVATIONS AND TABULATIONS OF VERTICAL
CONTROL POINTS FOR SURVEYING # 4622 + 1 - # 4630 + 1"



33. Supplemental Data: Contd

- ✓ H-7708 Kiska Island, Little Kiska Island and Vicinity
1:20,000 1948 season Ship Explorer, F.B.T.Siems, Comdg
- H-7712 Kiska Harbor and Vicinity 1:10,000 1948 season
Ship EXPLORER, F.B.T.Siems, Comdg
- H-7713 Kiska Island, Gertrude Cove 1:10,000, 1948 season
Ship EXPLORER, F.B.T.Siems, Comdg
- H-6933 Kiska Harbor (Portion) 1:10,000 Aug & Sep 1948
HYDROGRAPHER (W.M.Scaife) and EXPLORER(G.C.Mattison)

34. Contours and Drainage:

The photographic quality of the instrument photos was only average, but usable, and the entire island was contoured leaving no areas of doubtful contouring. Some difficulty was experienced because of the erratic spacing of the photography; for the most part the spacing was too great for proper instrument functioning.

35. Shoreline and Alongshore Details:

The shoreline inspection was not altogether adequate and was variable in density of information presented; short sections would be overly detailed while others adjoining would be bare of details. Further, the inspection was accomplished over three field seasons by as many different inspectors using more than three different sets (partial) of photography (none of which were the same set used for compilation), and the inspection was made in competition with inshore hydrographic work involving several graphic control surveys with which it had to conform, and therefore it is little wonder the shoreline inspection which was used was a bit difficult to interpret. However, it was used as a guide ^{throughout} instrument delineation of the manuscript shoreline which should be considered as superseding all previous surveys and compilations. No low-water line was provided, field or office, but considerable shoal and foul lines have been delineated guided partially by field inspection and graphic surveys, and partially by compilation T-8632. For the most part, the foul lines are in the form of ledge or scattered rocks-awash which form an outer barrier. None of the alongshore detail conflicts with the hydrographic surveys listed in sub-heading 33, above. *

36. Offshore Details:

* See Review Report, item 67

This compilation includes Little Kiska Island, Tanadak Island, and Sobaka Rock, all of which have been treated as being a part of Kiska Island.

37. Landmarks and Aids:

See side-heading 47. None others recommended.

38. Control for Future Surveys:

12 Topo stations with 524 cards and 4 Hydro stations with identification cards, were located by the radial plot:

T-8633 SIR, 1948-1952
 T-8634
 T-8635 GERTY, 1948 ABE, 1948 PIN, 1948 FOG, 1948 FLAT, 1948
 T-8636 POT, 1948 RAG, 1948 Cor, End, Nut, Rust
 T-8637
 T-8638 WASH, 1948 EAR, 1947 BEN, 1947 CAT, 1947
 T-8639

39. Junctions: All are in agreement by continuous compilation.

40. Horizontal and Vertical Accuracy:

These quads meet the map standards for a scale of 1:20,000, and for a 50ft contour interval. The 25ft contours delineated are considered to meet the standards for a 25ft interval, but the map is meant to be of 50ft contour interval.

46. Comparison with Existing Maps:

KISKA ISLAND, USE, 1:62²⁵⁰⁰⁰500, edition of July 1943.

47. Comparison with Nautical Charts:

KISKA HARBOR, KISKA ISLAND No 9124 1:15,000
 APPROACHES TO KISKA HARBOR, RAT ISLANDS No 9155 1:50,000
 KISKA ISLAND, RAT ISLANDS No 9180 1:80,000

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY: none

ITEMS TO BE CARRIED FORWARD: Landmarks:

1. Red Bluff P A at 52°05' - 177°40'
2. Hut at 51°57' - 177°42'

48. Geographic Name List: See page 16¹⁷ following.

49. Notes for the Hydrographer: Not applicable.

50. Compilation Office Review: See page 1⁸ following.

Submitted by:

William D. Harris

GEOGRAPHIC NAMES

Survey No.

T-8633 thru T-8639

Name on Survey

	A	B	C	D	E	F	G	H	K	
<u>T-8633</u>										1
BERING SEA ✓										2
CHRISTINE LAKE ✓										3
EAST KISKA LAKE ✓										4
KISKA ISLAND ✓										5
KISKA VOLCANO ✓										6
McARTHUR PASS ✓										7
SIRIUS POINT ✓										8
VULCAN POINT ✓										9
WEST KISKA LAKE ✓										10
WITCHCRAFT POINT ✓										11
WOLF POINT ✓										12
<u>T-8634</u>										13
BERING SEA ✓										14
HAYCOCK ROCK ✓										15
KISKA ISLAND ✓										16
McARTHUR PASS ✓										17
NORTHEAST ROCKS ✓										18
SREDNI BIGHT ✓										19
SREDNI POINT ✓										20
<u>T-8635</u>										21
BERING SEA ✓										22
GERTRUDE COVE ✓										23
KISKA ISLAND ✓										24
LIEF COVE ✓										25
VEGA BAY ✓										26
<u>T-8636</u>										27
BERING SEA ✓										28
BUKHTI POINT ✓										29
CONQUER POINT ✓										30
JEFF COVE ✓										31
HARPOON POINT ✓										32
KISKA ISLAND ✓										33
KISKA HARBOR ✓										34
LITTLE KISKA ISLAND ✓										35
LUG POINT ✓										36
MUTT COVE ✓										37
NORTH HEAD ✓										38
NORTH PASS ✓										39
PACIFIC OCEAN ✓										40
REYNARD COVE ✓										41
SOUTH HEAD ✓										42
SOUTH PASS ✓										43
SALMON LAGOON ✓										44
SARGEANT COVE ✓										45
TROUT LAGOON ✓										46
TWIN ROCKS ✓										47

Andy Cove ✓

Names approved 11-19-63
L. Heck

GEOGRAPHIC NAMES

Survey No.

T-8633 thru T-8639

Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A	B	C	D	E	F	G	H	K	
<u>T-8637</u>									
BERING SEA									1
LITTLE KISKA HEAD									2
LITTLE KISKA ISLAND									3
McARTHUR PASS									4
NAVY COVE									5
ORIENT POINT									6
PACIFIC OCEAN									7
SOUTH PASS									8
TANADAK ISLAND									9
TANADAK PASS									10
YUG POINT									11
<u>T-8638</u>									
BERING SEA									12
CAPE ST STEPHEN									13
DARK COVE									14
KISKA ISLAND									15
PACIFIC OCEAN									16
<u>T-8639</u>									
CORVIE BAY									17
KISKA ISLAND									18
PACIFIC OCEAN									19
SABAKA ROCK									20
VEGA BAY									21
VEGA POINT									22
									23
									24
									25
									26
									27

(map corrected from Stephen)

(correctly on map)
(" " ")Names approved 7-19-53
L. Heck.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 8633 thru 8639

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 along-☒ = checked
☒ = non-existent

Review Report
Topographic Maps T-8633 to T-8639
2 February 1954

62. Comparison with Registered Topographic Surveys.-

T-7115	1:20,000, 1948	(Planetable)
7116a	" 1947	"
7116b	1:10,000, 1948	"
7117	1:20,000, 1947	"
7118a	" 1948	"
7118b	1:10,000 1948	"
8632	1:20,000, 1949	"

There are some differences in the minor details of shoreline configuration between that shown on the above surveys and the maps of this series. These differences do not conflict with the general position of the shoreline. There are differences in the amount and extent of foreshore ledge shown between the previous surveys and this survey, but none of the differences are critical.

T-8633 to T-⁸639, inclusive, supersede the above surveys for nautical charting purposes.

63. Comparison with Maps of Other Agencies.-

Kiska Island, USE, 1:25,000, 1943

The USE quadrangles in comparison with the maps T-8633 through T-8639 show a more generalized shoreline, the foreshore ledge is shown more extensively and the shoreline cliffs are shown by hachures rather than contours.

64. Comparison with Contemporary Hydrographic Surveys.-

H-6933	1:10,000	1943
7644	1:20,000	1947-48
7707	1:10,000	1947-49
	1:20,000	
7708	1:20,000	1948
7712	1:10,000	1948
7712 Ad WK	1:10,000	1949
7713	1:10,000	1948

The maps of this project were compared with the above prior hydrographic surveys. Conflicting differences existing between the topographic surveys and the hydrographic surveys, with respect to foreshore and offshore features, have been reconciled on the topographic surveys to agree with the hydrographic surveys.

65. Comparison with Nautical Charts.-

Chart 8864	1:300,000	corr. to 9/29/52
9124	1:15,000	corr. to 1/7/52
9155	1:50,000	corr. to 1/15/51
9180	1:80,000	corr. to 1/22/51

The maps of this series and the charts have differences in the configuration of shoreline, the size and shape of near shore rocks and elevations of peaks, but none of these minor differences are critical to navigation.

66. Adequacy of Results and Future Surveys.- These maps are adequate for use in hydrographic surveys and the construction of nautical charts. These maps meet the National Standards of Map Accuracy.

67. Foreshore Delineation.- Reference last sentence of item 35. The delineation of an outer barrier of ledge separated from the shoreline by shallow areas was revised to include the shallows as ledge. These shallows are awash at MLLW as indicated by field notes on nine-lens field photograph 21157 and are required to be shown by a ledge symbol.

Reviewed by:

K. N. Maki
K. N. Maki

APPROVED:

L. C. Lande
Chief, Review Branch
Div. of Photogrammetry

H. W. Swanson
Chief, Div. of Photogrammetry

Jan 27, 1955

J. H. Edmonson
Chief, Nautical Chart Branch
Division of Charts GFD

Carl O. Heston
Chief, Div. of Coastal Surveys

History of Hydrographic Information
Quadrangle T-8633
Kiska Island, Alaska

Hydrography was applied to the map manuscript of this quadrangle in accordance with Division of Photogrammetry General Specifications dated 18 May 1949 and Army Map Service TM 45-14, Chapter 14.

The depths are in fathoms at mean lower low water and originate with the following surveys:

H-7596	(1947)	1:40,000
H-7644	(1949)	1:20,000

Depth curves are shown at 1, 3, 5, and 10 fathoms. Hydrography compiled by K. N. Maki and checked by O. Svendsen, 5 May 1954.

K. N. Maki

K. N. Maki
Div. of Photogrammetry
4/26/54

*Hydrography was applied to
this and other maps T-8633 to T-8639
at request of Army map service
for publication of the military edition
of these maps. JMG 6/7/55*

History of Hydrographic Information
Quadrangle T-8634
Kiska Island, Alaska

Hydrography was applied to the map manuscript of this quadrangle in accordance with Division of Photogrammetry General Specifications dated 18 May 1949 and Army Map Service TM45-14, Chapter 14.

The depths are in fathoms at mean lower low water and originate with the following surveys:

H-7644	(1949)	1:20,000
H-7645	(1948)	1:20,000
H-7649	(1948)	1:40,000

Depth curves are shown at 3.5 and 10 fathoms.
Hydrography compiled by K. N. Maki and checked by O. Svendsen 5 May 1954.

K. N. Maki
K: N: Maki
Div. of Photogrammetry
4/27/54

History of Hydrographic Information
Quadrangle T-8635
Kiska Island, Alaska

Hydrography was applied to the map manuscript of this quadrangle in accordance with Division of Photogrammetry General Specifications dated 18 May 1949 and Army Map Service TM45-14, Chapter 14.

The depths are in fathoms at mean lower low water and originate with the following surveys:

H-7596	(1947)	1:40,000
7644	(1949)	1:20,000
7707	(1947-49)	1:20,000
7713	(1948)	1:10,000

Depth curves are shown at 1, 3, 5, and 10 fathoms.
Hydrography compiled by K.N. Maki and checked by O. Svendsen
12 May 1954.



K. N. Maki
Div. of Photogrammetry
4/30/54

History of Hydrographic Information
Quadrangle T-8636
Kiska Island, Alaska

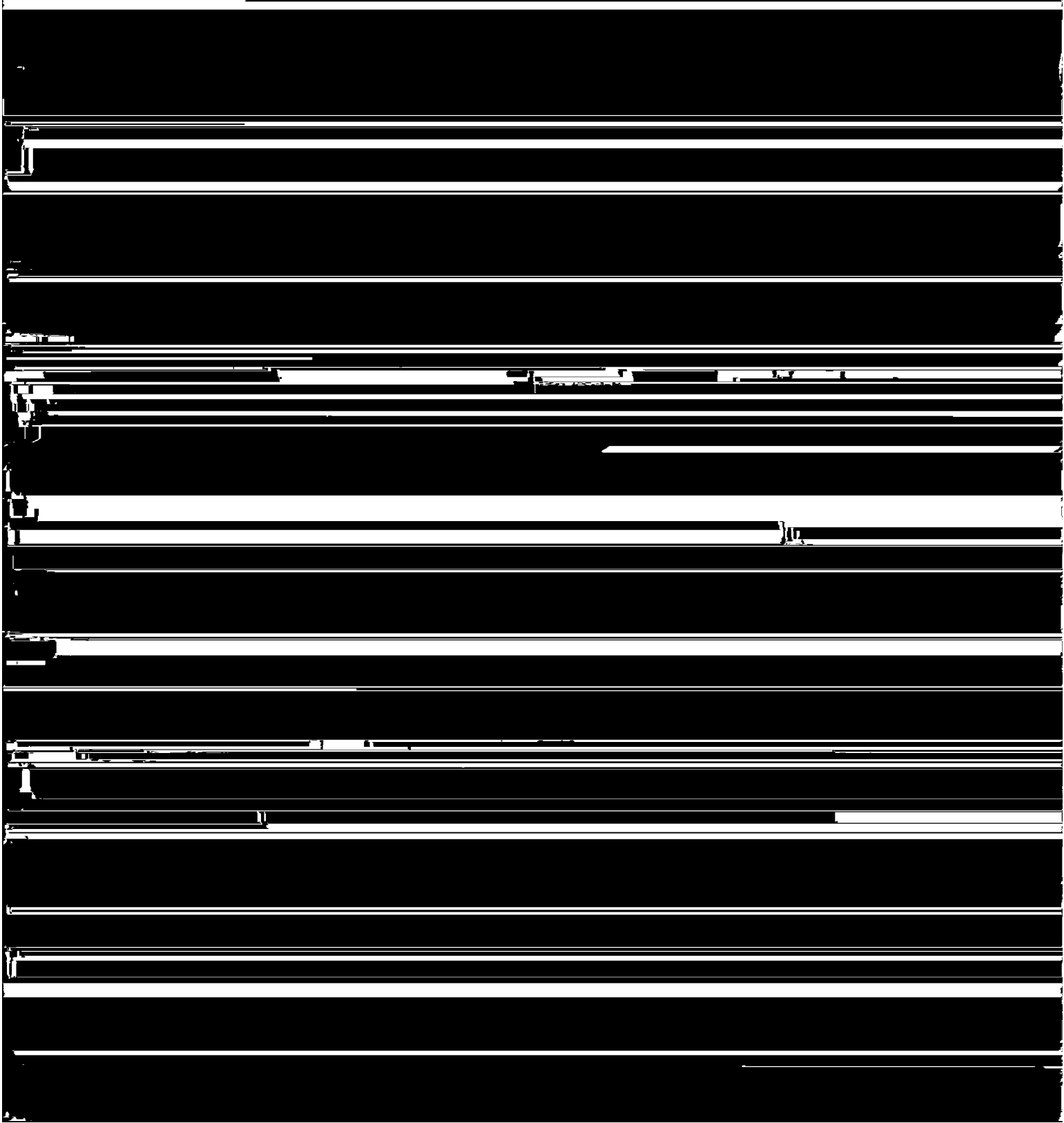
Hydrography was applied to the map manuscript of this quadrangle in accordance with Division of Photogrammetry General Specifications dated 18 May 1949 and Army Map Service TM 45-14, Chapter 14.

The depths are in fathoms at mean lower low water and originate with the following surveys:

H-2700	(1904)	1:10,000
6933	(1943)	"
7644	(1949)	1:20,000
7707	(1947-49)	"

History of Hydrographic Information
Quadrangle T-8637
Kiska Island, Alaska

Hydrography was applied to the map manuscript
of this quadrangle in accordance with Division of
Photogrammetry General Specifications dated 18 May



History of Hydrographic Information
Quadrangle T-8638
Kiska Island, Alaska

Hydrography was applied to the map manuscript of this quadrangle in accordance with Division of Photogrammetry General Specifications dated 18 May 1949 and Army Map Service TM 45-14, Chapter 14.

The depths are in fathoms at mean lower low water and originate with the following surveys:

H-7625	(1947-48)	1:40,000
H-7707	(1947-49)	1:20,000

Depth curves are shown at 1, 3, 5 and 10 fathoms. Hydrography compiled by K. N. Maki and checked by O. Svendsen.

K. N. Maki

K. N. Maki
Div. of Photogrammetry
5-17-54

History of Hydrographic Information
Quadrangle T-8639
Kiska Island, Alaska

Hydrography was applied to the map manuscript of this quadrangle in accordance with Division of Photogrammetry General Specifications dated 18 May 1949 and Army Map Service TM 45-14, Chapter 14.

The depths are in fathoms at mean lower low water and originate with the following surveys:

H-7625	(1947-48)	1:40,000
7707	(1947-49)	1:20,000

Depth curves are shown at 3, 5 and 10 fathoms.
Hydrography compiled by K. N. Maki and checked by
O. Svendsen.

K. N. Maki
K. N. Maki
Div. of Photogrammetry
5/18/54

NAUTICAL CHARTS BRANCH

SURVEY NO. T8633 - T8639 incl.

Record of Application to Charts

[illegible]

M-216A-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.