U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey  Topographic

Field No.  Ph-36 (48)  Office No. T-8633 thru T-8639

(T-8636 Confid.)

LOCALITY

State        Alaska

General locality  Aleutian Islands

Locality  Kiska Island

1949/51

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

LIBRARY & ARCHIVES

DATE  JUNE 26, 1955
DATA RECORD

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

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


Instructions dated (II) (III):

Chief of Party: Radial Plot = Hubert A. Paton, Chief
Compilation = Louis J. Reed, Chief,

Stereoscopic Mapping Branch
Copy filed with 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 registered (IV): June 21, 1955

Applied to Chart No. 9180 Date: 10/27/53

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 [2] refer to mean high water
Elevations shown as [3] refer to sounding datum
i.e., mean-low-water or mean lower low water

Reference Station (III):

Lat.: Long.: Adjusted

Plane Coordinates (IV):

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)

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. Finnegam PIONEER  
F.B.T. Siems EXPLORER  
HENRY E. Finnegam PIONEER  

Planetable contouring by (II):  
None  

Completion Surveys by (II):  
None  

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

Control plotted by (III):  
Albert Queen  

Control checked by (III):  
Ruth Hartley  

Radial Plot Extension  
Control extension by (III):  
Ruth Hartley  

Verified by Frank J. Taroza  

Stereoscopic Instrument  
Delineation (III): both by Clarence E. Miesfeldt  
17 Apr 53  

Manuscript compiled by  
Robert L. Sugden  

Photogrammetric Office Review by (III):  
William D. Harris and Louis J. Reed  

Elevations on Manuscript checked by (III):  
William D. Harris and Louis J. Reed  

N-2618-12(4)
Camera (kind or source) (III): U.S.C.G.S., 9-lens, model "B", f = 8.25

PHOTOGRAPHS (III)

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<td>13:25</td>
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<td>3.8 above MLLW</td>
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34241 Island water area

Tide (III):

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

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

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

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 Leveling - Miles (II): None
Number of Triangulation Stations searched for (II): Recovered: Identified: 2103
Number of BMs searched for (II): None
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III):

Remarks:

Land Area = 29 sq mi 5 sq mi 25 sq mi 35 sq mi 3 sq mi 13 sq mi

Shoreline = 18 miles 10 miles 28 miles 57 miles 13 miles 57 miles
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 7½' in latitude by 10' in longitude. None of the maps were field edited.

Depth curves and critical soundings are to be applied to the manuscripts by the Division of Charts. These features do not appear on the preliminary registration prints.

A single descriptive report was prepared for these seven maps. A cloth-backed lithographic print of each map, at compilation scale, will be registered with the combined descriptive report in the Bureau Archives. After publication, a cloth-backed color print of each map will also be registered.
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.
Templet

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, 6-6993. These were at Kiska Harbor and were so closely spaced that it was considered inadvisable to show them. Many 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 FEN, 1948
and Sub. Pt. FEN. Since both radially plotted positions fell 1.0mm. to
the west of the plotted positions it is believed the computed positions
may be in error. Computed positions checked. FEN is an unmarked
intersection station. NAV.
Radially plotted position for NORTH HEAD, 1904, falls 7.0mm. to the
north. This station was not identified by the field party and was
pricked using the description. It has obviously been misidentified in
the office but no attempt was made to reprint it as it was not necessary.

The remaining stations for which radially plotted positions were es-
established were off less than 1.0mm. This is probably due to slight dis-
crepancies in the office identification. Field identification of many
were on 1935 Navy five-lens photographs and were difficult to transfer
to the 1951 photographs.

24. SUPPLEMENTAL CONTROL:
Survey T-8632, scale 1:20,000, a shoreline manuscript of the south-
west portion of Kiska Island, compiled in May 1949 was available. Also
furnished were 1:20,000 scale planable sheets T-7077, T-7078, and T-7079
along the northeast and northwest coasts of the island.

Of the five stations whose positions were disregarded, one station,
FOT, 1948 was held in the radial plot. Radially plotted positions have
been established for the other four, GERTY, 1948, HAG 1948, ABE 1948,
and PIN 1948. The positions for the first two were established by the-
odicite and the other two by sextant. The positions for all five stations
were obtained from the report for T-8632.

The positions for WASH 1948, FOG 1948, and FLAT 1948 which were es-
established photogrammetrically in T-8632 could not be held in this radial
plot. New positions were established.

The old positions offorms 524 were crossed off and new radial plot
positions indicated in red.
Positions shown in red supersede old positions.

One new recoverable topographic station SIR 1952 was established.
This was a hydrographic station which was used in 1948. The position
checked with planable sheet T-7078.

25. PHOTOGRAPHY:
Photographic coverage, definition, and overlap was adequate. Vacuum
failure on a couple of photographs had no serious effect on the plot
nor did any of the several tilted photographs. An attempt to make a
tilt determination for photograph 34205 proved futile because the three
scale points which were obtained were too nearly in a straight line.
Only about one third of the photograph is land area.
26. **VERTICAL CONTROL:**

The elevations of twelve peaks were computed. One, *Peak B (from GEKTY) was rejected because the two elevations obtained differed by 50 meters. The horizontal angles 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 uncheckd spot elevation. - agree with instrument elev.

Respectfully submitted
15 October 1952
Ruth R. Hartley
Carto. Photo. Aid

Approved and Forwarded
27 October 1952
Joseph Femia
For Hubert A. Paton
Comdr., C&GS
Officer in Charge
LAYOUT SKETCH
PROJECT Ph. 34(48)

O Nine lens office photographs
▲ Control stations identified
■ Control stations not held in plot
31. 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 2.3 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. Volumn of Elevation Computations: Entitled,
   "COMPUTATIONS OF ELEVATIONS AND TABULATIONS OF VERTICAL
   CONTROL POINTS FOR SURVEYS T-8633 thru T-8659."

b. Compilation Photographs:
   34240 thru 34 254 (Details on page 4)

c. Shoreline manuscript T-8632 (1949), with report (1:20,000)
d. Field Sheet Index, Ship EXPLORER, 1948, 1:40,000, acetate.
e. Graphic Control Surveys:
   - T-7115, 1:20,000, film positive
   - T-7116, 1:20,000, film positive
   - T-7116b, 1:20,000, on film positive reduced from 1:10,000
   - T-7117, 1:20,000, film positive
   - T-7117a, 1:20,000, film positive reduced from 1:10,000
   - T-7118b, 1:20,000, on film positive reduced from 1:10,000
   - T-7119, 1:20,000, on film reduced from 1:10,000
   - T-7071, 1:20,000, on film positive reduced from 10,000

f. Hydrographic Surveys:
   ✓ H-7644 Kiska Island, North Part 1:20,000 1948 season
      Ship PIONEER, R.E.Finnegan, Comdg.
   ✓ H-7707 Kiska Island, NW Coast 1:20,000 (plus 1:10,000 of
      Dark cove and Corbie Bay) 1947 and 1948 seasons
      Ship EXPLORER, F.B.T.Siems, Comdg
   ✓ H-7707 Kiska Island, SW Coast 1:20,000 1949 season
      Ship EXPLORER, H.Arnold Karo, Comdg
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 Snorkel 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-6532. For the most part, the foul lines are in the form of ledge or scattered rocks—swash which form an outer barrier. None of the alongshore detail conflicts with the hydrographic surveys listed in sub-heading 33, above.

36. Offshore Details:

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, 1946-1952
   T-8634
   T-8636 POT, 1946 RAG, 1946 Cor, End, Nut, Rust
   T-8637
   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.

45. Comparison with Existing Maps:
   KISKA ISLAND, USE, 1:62500, 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 1:30,000

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 16 following.

49. Notes for the Hydrographer: Not applicable.


Submitted by:

[Signature]
William D. Harris, Chief,
9-Lens Plotter Section

Forwarded by:

[Signature]
Beau A. Keel, Chief,
Stereoscopic Mapping Branch
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Names approved 11-19-56

L. Heck
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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 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. Prints

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

<table>
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<td>8632</td>
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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.**

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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
- Chart 9124 1:15,000 corr. to 1/7/52
- Chart 9155 1:50,000 corr. to 1/15/51
- Chart 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

APPROVED:

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

W. L. Swanson
Chief, Div. of Photogrammetry

J. T. McMonagle
Chief, Nautical Chart Branch
Division of Charts

Earl O. Harton
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
Div. of Photogrammetry
4/26/54

Hydrography was applied to this and other maps T-8636, T-8639 at request of Army Map Service for publication of the military edition of these maps. 6/1/65.
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
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:

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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-3636
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) "
7708 (1948) "
7712 (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

K. N. Maki
Div. of Photogrammetry
5/10/54
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 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:

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Depth curves are shown at 3, 5 and 10 fathoms.

Hydrography compiled by K. N. Maki and checked by O. Svendsen, 27 May 1954.

K. N. Maki
Div. of Photogrammetry
5/12/54
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) 1:100,000
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 D. Svendsen.

K. N. Maki
Div. of Photogrammetry
5/18/54
# NAUTICAL CHARTS BRANCH

**SURVEY NO. T8633 - T8639 incl.**

Record of Application to Charts

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<td>1952-53</td>
<td>9124</td>
<td>Wittman &amp; Walker</td>
<td>Completely applied to Reconstruction</td>
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<td>Oct 53-Apr 54</td>
<td>Reconstr. 9180</td>
<td>G.N. Stephanos</td>
<td>Before Verification and Review</td>
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<td>8/1/61</td>
<td>8864</td>
<td>Lee</td>
<td>Before After Verification and Review</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.