Form 504
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey  Topographic

Field No.  Fn-56 Office No. T-9716

LOCALITY

State  Alaska

General locality  Etolin Strait (Bering Sea)

Locality  Kikogtikl Island to Vicinity

East of Kinak Bay

1950-52

CHIEF OF PARTY
M.J. Tonkel, Chief of Field Party
E.W. Kirsch, Balto. Photo. Office

LIBRARY & ARCHIVES

DATE  December 1960
DATA RECORD

Project No. (II): PH-56

Field Office (II): Alaska

Photogrammetric Office (III): Baltimore, Md.

Chief of Party: M. J. Tonkel

Washington, D. C.

Officer-in-Charge: E. W. Kirsh

Instructions dated (II) (III):
8 Sept. 1949
2 April 1951
21 May 1951

14 Dec 1951
21 Dec 1951

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III):
Reading nine-lens plotter and graphic

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): Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date: Date registered (IV): 19 May 1959

Publication Scale (IV):

Publication date (IV): 

Geographic Datum (III): N. A. 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 =

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.
T-9713 thru T-9716

W. Heinbaugh

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

Field Inspection by (II): V. E. Serena Date: May-Sept 1951

Planerable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): From field inspection
on nine-lens photographs

Projection and Grids ruled by (IV): Austin Riley Date: 10-18-54

Projection and Grids checked by (IV): Austin Riley Date: 10-26-54

Control plotted by (III): David Williams Date: 6-28-55

Control checked by (III): Joseph Steinberg Date: 6-28-55

Radial Plot X

Control extension by (III): Leroy A. Senasack Date: 2-21-58

Stereoscopic Instrument compilation (III): Planimetry W. Heinbaugh Date: Aug. 1958

Contours W. Heinbaugh Date: Aug. 1958

Manuscript delineated by (III): W. Heinbaugh Date: Aug. 1958

Photogrammetric Office Review by (III): L. Levin Date:

Elevations on Manuscript checked by (II) (III): L. Levin Date:
Camera (kind or source) (III): T-9713

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*Approximate time - clock stopped

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Date: May 19, 1959
date: 10-5-59

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Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II):
Number of BMs searched for (II):
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III):

Remarks:
PHOTOGRAPHS (III)

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* approximate time - clock stopped

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Date: Sept 20, 1959

Date: 10-5-59

Proof Edit by (IV):

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Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II):
Number of BMs searched for (II):
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III):

Remarks:
Number
28707-28709
38166-38169
Date
8/13/50
7/19/52
Time
*14:30
14:45
Scale
1:20,000
1:20,000
Stage of Tide
4.6 above MLLW
3.2 above MLLW

*Approximate time – clock stopped

Tide (III)

Reference Station: Kodiak
Subordinate Station: none - general area
Subordinate Station:
Washington Office Review by (IV):
Final Drafting by (IV):
Drafting verified for reproduction by (IV):
Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III):
Shoreline (More than 200 meters to opposite shore) (III):
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II):
Number of BMs searched for (II):
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Remarks:
Camera (kind or source) (III):

PHOTOGRAPHS (III)

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Tide (III)

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Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Diurnal

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Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II):
Number of BMs searched for (II):
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III):

Remarks:

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Form T: Page 4
Compiled at 1:20,000 scale, from 1:20,000 scale nine-lens photographs taken August 1950 and June, 1951; additional nine-lens photography to be taken Season 1952.

(Refer to Air-Photo Indexes B-42, 50, 51, 52 and E-1).
Summary

to accompany topographic surveys T-9713 thru T-9716

These four surveys are part of Topographic Mapping Project PH-56 (24090). The project covers the coastal area from Scammon Bay southward to Kuskokwim Bay and Nunivak Island on the Bering Sea in Alaska. T-9713 thru T-9716 cover an area of 921.4 minutes of latitude and starting with an off-shore group of islands south of Kinak Bay known as Kikegtek Island runs eastward to longitude 163°07'30"W, which is a common junction line with project PH-41.

The area covered by subject surveys is low and inundated with marsh and tundra and interlaced with streams, lakes and ponds. The highest ground elevation is only 22 feet.

Project instructions originated in 1949. Nine-lens photography is from August 1950 and July 1952. Field inspection was accomplished during season of 1951 and the radial plot at the Baltimore District Office in 1958. During the latter part of 1958 subject surveys were compiled by stereoscopic instruments (Reading Plotter) and by graphic methods at the Washington Office.

There are no registered topographic surveys recorded nor are there any contemporary hydrographic surveys of this area.

A coronal film positive at the compilation scale of 1:20000 and the Descriptive Report will be registered and filed in the Bureau Archives.

April 1959
The Field Inspection Report is filed with the Descriptive Report for T-9679.
The Radial Plot Report is filed with the Descriptive Report for T-9718 thru T-9720
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<th>LONGITUDE OR ( \lambda ) -COORDINATE</th>
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COMPILATION REPORT
T-9713, T-9714, T-9715, T-9716

31. Delineation

The Reading nine-lens plotter was used to draw shoreline and to obtain elevation above sea level with the balance of the details being drawn by graphic methods using rectified nine-lens photographs.

No field inspection was obtainable for any inland area except in the vicinity of Kipnuk.

32. Control

See Radial Plot Report for horizontal control.

No field established vertical control was used for control of the models on the Reading plotter. The elevations of the triangulation stations as shown on the List of G.P.'s were found to be 6-8 feet above the elevations read on the Reading plotter. Because of the numerous tidal streams & lakes available for leveling the models, the instrument elevations were shown on the manuscript. (See Radial Plot Report T-9704 thru T-9710 for a discussion of this discrepancy).

33. Supplemental Data

Tri-Met photos nos. 46 l-V53, 46 lV-56

34. Contours and Drainage

No comment

35. Shoreline and alongshore details

Although proper tide stage photographs were not available, an attempt was made to interpret the approximate low-water line in Kinak Bay from the lowest tide stage photographs available (3 ft above MLLW).

36. Offshore details

No comments

37. Landmarks and aids

Field party lists one landmark SPIRE, church at Kipnuk, (T-9714). The position was scaled from the manuscript and forwarded to Nautical Chart Division.
38. Control for future surveys

The following photo topo station was established:

FATE 1951   T-9714

No hydro stations were established.

A list of topographic stations has been prepared and entered in paragraph 49 of this report.

39. Junctions

All sheet junctions were made on all adjoining sheets as indicated by the project layout diagram included in this report.

40. Horizontal and vertical accuracy

See Radial Plot Report and paragraph 32.

46. Comparison with existing maps

USGS map, Baird Inlet, Alaska, N 6000-W16200/60x180, 1:250,000, 1951 Edition

USGS map, Kuskokwim Bay, Alaska, N5900-W16200/60x180, 1:250,000, 1951 Edition

47. Comparison with nautical charts

Manuscript was compared with chart 9302.

Items to be applied to nautical charts immediately - none

Items to be carried forward - none

48. Geographic name list

See appended name lists.

Approved                              Submitted

Louis Levin                             Wallace Heinbaugh
Supervisory Cartographer               Cartographer (Photo)
The following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated.

The positions given have been checked after listing by W. Heinbeuch

<table>
<thead>
<tr>
<th>STATE</th>
<th>MEASURABLE DESCRIPTIONS</th>
<th>LATITUDE/ LONGITUDE</th>
<th>METHOD OF LOCATION AND SURVEY</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alaska</td>
<td>Church, Kipnuk</td>
<td>59 56 706 164 02 315</td>
<td>NA Radial Plot 1951</td>
<td>x 9302</td>
<td></td>
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</table>

This landmark was previously submitted by field party without a position (chart letter no 129 1952)
Review Report of
Topographic Surveys T-9713 thru T-9716
April 1959

62. Comparison with Registered Topographic Surveys:

There are no registered topographic surveys of this area.

63. Comparison with Maps of Other Agencies:

KUSKOKWIM BAY, ALASKA, 1:250000, Ed. of 1951, US Geological Survey

This reconnaissance topographic survey shows KIKEGTEK ISLAND as one, about 4 statute miles west of the west shore. T-9713 and T-9714 of subject surveys places this island as a group of several and approximately 3 3/4 statute miles west of the west coast. This is the only notable difference that scale difference permits to disclose.

64. Comparison with Contemporary Hydrographic Surveys:

None!

65. Comparison with Nautical Charts:

9302  1:1534076  Revised to 9/29/58

In reference to the disagreement mentioned under item no. 63 concerning KIKEGTEK ISLAND, the above listed nautical chart portrays this island differently yet. However, for a sailing chart of stated scale such disagreement is far from being critical.

66. Adequacy of Results and Future Surveys:

These surveys comply with project instructions and meet the requirements for adequacy and accuracy.

Reviewed by

Josef J. Streifler

Approved by:

Chief, Review & Drafting Section
Photogrammetry Division

Chief, Nautical Chart Branch
Charts Division

Chief, Photogrammetry Division

Chief, Operations
T-9713

Geographic Name List

Bering Sea
Etolin Strait
Kikegek Island
Kinak Bay

Names approved 1-20-59
l. Heck
T-9714

Geographic Name List

Kinak Bay
Kinak River
Kipnuk
Koguklik River

Names approved 1-20-59
L. Heck
T-9715

Geographic Name List

Koguklik River

Names approved 1-20-59
L. Heck
NAUTICAL CHARTS BRANCH

SURVEY NO. T-9713 thru T-9716

Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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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.