DESCRIPTIVE REPORT

Type of Survey  Topographic
Field No.  Ph-56  Office No. T-9710

LOCALITY
State  Alaska
General locality  Etolin Strait (Bering Sea
Locality  Kangirlvar Bay (Tooksock Bay)
To Kinak Bay

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

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
E. W. Kirsch

Washington, D. C. Officer-in-Charge: L. W. Swanson

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):

Date received in Washington Office (IV) NOV 8 1951

Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 19 May 1957

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):
Mean sea level except as follows:
Elevations shown as (2) refer to mean high water
Elevations shown as (2) 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.

Form T Page 1

H-2618-12/43
Areas contoured by various personnel
(Show name within area)
(I) (III)
DATA RECORD

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

Plane table 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 photos

Projection and Grids ruled by (IV):  A. Riley  Date: Jan 1955

Projection and Grids checked by (IV):  A. Riley  Date: Jan 1955

Control plotted by (III):  D. Williams  Date: June 1955

Control checked by (III):  J. Steinberg  Date: June 1955

Radial Plot or Stereoscopic Control extension by (III):  L. A. Senasack  Date: October 1957

Planimetry

Stereoscopic Instrument compilation (III):  W. Heinbaugh  Date: June 1958
Contours

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

Photogrammetric Office Review by (III):  L. Levin  Date: July 1958

Elevations on Manuscript checked by (II) (III):  L. Levin  Date: July 1958
Camera (kind or source) (III): Nine lens

PHOTOGRAPHS (III)

Number | Date   | Time  | Scale | Stage of Tide |
-------|--------|-------|-------|---------------|
28534-537 | 8/13/50 | 12:10 | 1:20,000 | 4.9 above MLLW |
28558-559 | 8/13/50 | 12:35 | 1:20,000 | 2.0 " " |
38118-120 | 7/19/52 | 10:15 | 1:20,000 | 6.7 " " |

*approximate time - clock stopped

Tide (III)

Reference Station: Kodiak
Subordinate Station: none - (general area of sheet)
Subordinate Station:

Washington Office Review by (IV): J. Steffler

Final Drafting by (IV): J. Fraser

Drafting verified for reproduction by (IV): W. Hallinan

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):
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III):

Remarks:
PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>28720-721</td>
<td>8/13/50</td>
<td>17:10</td>
<td>1:20,000</td>
<td>3.8 above MLLW</td>
</tr>
<tr>
<td>38180-183</td>
<td>7/19/52</td>
<td>15:00</td>
<td>1:20,000</td>
<td>3.4</td>
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</table>

*Approximate time - clock stopped

Tide (III)

<table>
<thead>
<tr>
<th>Reference Station:</th>
<th>Kodiak</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subordinate Station:</td>
<td>none - (general area of map)</td>
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<tr>
<td>Washington Office Review by (IV):</td>
<td>[Signature]</td>
</tr>
<tr>
<td>Final Drafting by (IV):</td>
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<tr>
<td>Drafting verified for reproduction by (IV):</td>
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<td>Proof Edit by (IV):</td>
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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):
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III):

Remarks:
Camera (kind or source) (III): Nine lens

PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>28537-541</td>
<td>8/13/50</td>
<td>*12:10</td>
<td>1:20,000</td>
<td>4.9 above MLLW</td>
</tr>
<tr>
<td>28719</td>
<td>8/13/50</td>
<td>*17:10</td>
<td>1:20,000</td>
<td>3.8 &quot; &quot;</td>
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</table>

* approximate time - clock stopped

Tide (III)

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8.5</td>
<td>10.2</td>
</tr>
</tbody>
</table>

Reference Station: Kodiak
Subordinate Station: none (general area of sheet)

Washington Office Review by (IV): [Signature]
Final Drafting by (IV): [Signature]
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):
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III):

Remarks:
Camera (kind or source) (III): Nine lens

PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>28716-717</td>
<td>8/13/50</td>
<td>17:00</td>
<td>1:20,000</td>
<td>3.7 above MLLW</td>
</tr>
<tr>
<td>38177-180</td>
<td>7/19/52</td>
<td>14:55</td>
<td>1:20,000</td>
<td></td>
</tr>
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</table>

*approximate time - clock stopped

Tide (III)

Diurnal

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

|
| Date: March 1959 |
| Time:       |

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):
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III):

Remarks:

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Final Drafting by (IV):

Kodiak

Reference Station:
Subordinate Station:
Subordinate Station: none - (general area of sheet)
Camera (kind or source) (III): Nine lens

<table>
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<tr>
<th>Number</th>
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<td>28541-545</td>
<td>8/13/50</td>
<td>*12:15</td>
<td>1:20,000</td>
<td>4.0 above MLLW</td>
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<tr>
<td>28714-716</td>
<td>8/13/50</td>
<td>*17:00</td>
<td>1:20,000</td>
<td>3.7</td>
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<tr>
<td>38176</td>
<td>7/19/52</td>
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<td>3.2</td>
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</tbody>
</table>

* approximate time - clock stopped

Tide (III)

Reference Station: Kodiak
Subordinate Station: none - (general use area of shot)

<table>
<thead>
<tr>
<th>Reference Station</th>
<th>Ratio of</th>
<th>Mean Range</th>
<th>Spring Range</th>
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<tbody>
<tr>
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</tr>
<tr>
<td></td>
<td>1.0</td>
<td>8.5</td>
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Diurnal

Date: March 1959
Final Drafting by (IV): [Signature]

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):
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III):

Remarks:
Camera (kind or source) (III): Nine lens

PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
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</table>

*approximate time - clock stopped

Tide (III)

Reference Station: Kodiak
Subordinate Station: None - (general area of sheet)

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):
  Number of Recoverable Photo Stations established (III):
  Number of Temporary Photo Hydro Stations established (III):

Remarks:

diurnal

Ratio of Ranges

<table>
<thead>
<tr>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
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</tbody>
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Date: March 1959
Date: Oct 26, 1959

Form T-Page 4
Camera (kind or source) (III):

PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<td>28545-547</td>
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<td>1:20,000</td>
<td>4.0 above MLLW</td>
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Tide (III)

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8.5</td>
<td>10.2</td>
</tr>
</tbody>
</table>

Reference Station: Kodiak
Subordinate Station: none - (general area of shoot)
Washington Office Review by (IV): [Signature]
Final Drafting by (IV): [Signature]
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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:

Date: [Signature] March 1959
Date: [Signature] 8/25/59
ALASKA-BERING SEA, Scammon Bay to Kuskokwim Bay and Nunivak Island

OCCIAL MILEAGE FOR COST ACCOUNTS

Sheet No.  Area sq. miles

5679  76
5680  91
5681  68
5682  96
5683  12
5684  103
5685  80
5686  46
5687  91
5688  17
5689  103
5690  86
5691  103
5692  21
5693  31
5694  80
5695  31
5696  103
5697  4
5698  116
5699  22
5700  127
5701  80
5702  112
5703  57
5704  103
5705  108
5706  68
5707  91
5708  17
5709  108
5710  6
5711  91
5712  112
5713  108
5714  46
5715  68
5716  80
5717  3

Sub-total: 2,685

Nunivak Island

10366  49
10366  112
10367  70
10368  47
10369  195
10370  220
10371  228
10372  228
10373  37
10374  14
10375  109
10376  109
10377  35

Sub-total: 1,614

Sub-total: 2,685

TOTAL: 4,299

Compiled 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-9704 thru T-9710

These seven surveys are a part of Topographic Mapping Project PH-56 (24090). The project covers the coastal area from Scammon Bay southward to Kuskokwim Bay as well as Nunivak Island on the southwest coast of Alaska. Subject surveys extend from Kangirlvar Bay to Kinak Bay east of Etolin Strait.

The area covered is almost all marsh interlaced with streams and ponds. Areas above the elevation of 25 feet, that could be delineated by contours are the exceptions.

Project instructions originated in 1949. Nine-lens photography dates from August 1950 and July 1952, and field inspection was accomplished during the season of 1951. The radial plot was done in the Baltimore District Office in 1957 and the compilations in 1958 by stereoscopic instruments (Reading Plotter) at the Washington Office.

No previously registered topographic surveys nor contemporary hydrographic surveys are on record of subject area.

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

March 1959
The Field Inspection Report is filed with the Descriptive Report for T-9679.
21. **AREA COVERED**

The radial plot covers the area of Surveys T-9704 thru T-9710. These topographic surveys cover the area along the east side of Etolin Strait from the southern part of Nelson Island, Tooksok Bay, southward to Kinak Bay. The surveys will be compiled with the Reading Plotter.

22. **METHOD—RADIAL PLOT**

Map Manuscripts:
Vinylite sheets with polycone projections in black and Universal Traverse Mercator grids in red, at a scale of 1:20,000, were furnished by the Washington office.

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

A sketch showing the layout of these surveys and the distribution of photograph centers and control is attached to this report.

Photographs:
All photographs used were nine-lens metal mounted photographs at a scale of 1:20,000. Forty-one (41) photographs were used in the plot, numbered as follows:

- 28536 thru 28548,
- 28710 thru 28717,
- 38119 thru 38124,
- 385170 thru 385183.

Templets:
Vinylite templets were made from all photographs using a master templet to adjust for errors due to chamber displacement. Radial lines were scratched on the templets and scratches were filled in with china marking wax pencils. Red pencil was used for pass points along shoreline and in the marshy areas (rectification points). Black pencil was used for all other radial lines.

Closure and Adjustment to Control:
This radial plot was laid directly on the map manuscripts beginning with photograph 38119 and continuing to the end of the flight, photograph 38124. At this point another flight was continued starting with 28717 and laid southeastward to photograph 28710. Then the other two flights were laid starting with photographs 38513 thru 385170 and 28536 thru 28548, and tied into control stations MANY, 1949; SHORE, 1949; KINAK, 1951; CURLEW, 1949 and PLAIN, 1951. A rigid plot was obtained and no difficulty was encountered.
Transfer of Points:
The positions of all centers, pass points and control stations were
picked on the top templets and circled with a .1 mm circle. They were
then established on the remaining templets and map manuscripts by drill-
ing down through them with a small (.01 inch) jewelers drill. All points
were circled on each remaining templet as it was removed and finally on
the map manuscripts.

23. ADEQUACY OF CONTROL

The horizontal control was adequate for a satisfactory radial plot
in the area covered by this report. All control stations were held except
as follows:

TOOKSOK, 1951 - This station falls outside of the area of 1950 photo-
graphy available at the time of field inspection. The station was pricked
in the office with the aid of the stereoscope and information available on
the identification card made in the field in 1951. It is believed that
sometime between the time the station was marked on the ground and the photo-
graphs taken in 1952, the markings disappeared. The radially plotted position
falls 0.4 mm east of the plotted position. This point is not needed for
rectification. An abundance of rectification points in this area are on the
photographs. No attempt was made to re prick this station.

24. SUPPLEMENTAL CONTROL

None.

25. PHOTOGRAPHY

The definition of the photographs was good, and the coverage was adequate
for the area of this report.

Though several tilted photographs were used in this plot, no tilt deter-
mination was necessary. All of the pass points are very low in elevation.

One of the fiducial marks was missing in chamber four and one in
chamber eight on all 1952 photographs.

Some conjugate centers were pricked in the Washington Office before
the photographs were received in this office. It was noted on photographs
28534 thru 28549 that many of the points had been pricked and repricked so
many times the photographs were damaged in these areas.

26. VERTICAL CONTROL

The elevations for stations HV-001, 002, 003, 004 and 006 were rejected
because the computed elevations range from -12.2 meters to +9.1 meters. These
stations are in marshy areas and with the "H" points around them they are
not needed for rectification.
It was noted while doing the stereoscopic pricking of the control stations and recoverable topographic stations, that there appears to be some error in the published elevations of the triangulation stations along the shoreline. Refer to the list of "Discrepancy in Elevation of Triangulation Stations" which is attached to this report.

None of the "V" points that were identified in the field, with the exception of one, were located. This area in general is marshy and there are sufficient "R" points for rectification of the photographs.

V-0100, A and B - These points appear on the two photographs to be used with stereoscopic instruments for compiling the contours in this area. The two points identified were at the base of a bluff and were too difficult to transfer to other photographs. Also, only two cuts were needed to give the position as a common pass point was placed near this lake to control the radial plot. This V point is not needed for rectification of the photographs.

SLOUGH, 1951 - There is no published elevation for this station but since the Sub. Fts. were tips of marsh they were made "R" points for rectification of the photographs.

27. RECOVERABLE TOPOGRAPHIC STATIONS:

The positions of all recoverable topographic stations which were identified were established in the radial plot. Those identified by a substitute point were plotted with the use of a steel protractor and meter bar before the map manuscripts were disassembled.

Respectfully submitted
15 October 1957

Leroy A. Senassack
Carto. Photo. Aid

Approved and forwarded

William F. Deane
CDR CGS
Baltimore District Officer
Discrepancy in Elevation of Triangulation Stations

It was noted while pricking these stations stereoscopically and evaluating data supplied by the field party, that there appeared to be errors in the published elevations (or Sea Level Datum) of the stations. This area in general is very low and marshy. The following estimated elevations are listed assuming the MHW to be three feet above MSL.

<table>
<thead>
<tr>
<th>Name of Station</th>
<th>Field Notes</th>
<th>Published Elevation</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLOUGH, 1951</td>
<td>The Sub. Pts. are tips of marsh and same elevation as station. Field pencil notes state: &quot;station 2.3' higher than river level at 15:42 hour, 7 June 1951.&quot; Estimated station elevation is 4 ft.</td>
<td>None</td>
</tr>
<tr>
<td>MEANDER, 1951</td>
<td>This station is in the marsh and looks very similar to the areas around topographic stations DOZE, PEAS &amp; ANDY which are 3&quot; above MHW. Estimated elevation of station is 6 ft.</td>
<td>12 ft.</td>
</tr>
<tr>
<td>MUDDLE, 1951</td>
<td>The lake at Sub. Pt. B appears on the photographs as a tidal lake. The field man states on the identification card the &quot;lake is 2' lower than station&quot;. Estimated elevation of station is 5 ft.</td>
<td>13 ft.</td>
</tr>
<tr>
<td>BOTTOM, 1951</td>
<td>The Sub. Pts. are tips of old drains in marsh and same elevation as the station. The lake beside the station appears to be a tidal lake. Estimated elevation of station is 6 ft.</td>
<td>16 ft.</td>
</tr>
<tr>
<td>MANY, 1949</td>
<td>This station is right beside and only slightly higher than a swamp or marshy area beside a tidal stream. The station appears to be very similar in elevation to triangulation station SHORE, 1949 which is 3' above MHW and topographic station BITE, 1949 which is 2' ft. above MHW. Estimated elevation of station is 6 ft.</td>
<td>17 ft.</td>
</tr>
<tr>
<td>SHORE, 1949</td>
<td>The field man states on the identification card, &quot;the station is 3 ft above MHW&quot;. This station appears on the photographs to be in an area very similar to topographic stations BITE, 1949 and FADE, 1949 which have an elevation of 2 ft. above MHW. Estimated elevation of station is 6 ft.</td>
<td>17 ft.</td>
</tr>
</tbody>
</table>

Elevations in "Purple" were read in the Reading Stereo Plotter. See p. 40 of Compilation Report.
<table>
<thead>
<tr>
<th>Name of Station</th>
<th>Field Notes</th>
<th>Published Elevation</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINAK, 1951</td>
<td>Sub. Pts. are tips of marsh on a lake in a large marshy area between a &quot;Y&quot; in a tidal stream. Identification card states the Sub. Pts. are 2.1 ft lower than station. Estimated elevation for station is 7 ft.</td>
<td>16 ft.</td>
</tr>
<tr>
<td>KIPNUK N. E.</td>
<td>The field man (C. A. Amnis) in 1949 identified a tip of marsh on a tidal slough as a Sub. Pt., same elevation as station. Estimated elevation of station is 5 ft.</td>
<td>13 ft.</td>
</tr>
<tr>
<td>BASE, 1949</td>
<td>In cahier Alaska No. 95, Description of Station, it states the mark projects 6 inches (above ground). In 1949 the identification card made out by C. A. Amnis states under &quot;Remarks&quot; the station is about 15 ft. above Sea Level, yet in the sketch on the same card he shows the mud flats on the ocean side of the station and states &quot;Low flat about 3 ft. lower than station ground&quot;. Upon stereoscopic examination of the photographs it is believed the sketch is correct. Estimated elevation of station is 5 ft.</td>
<td>13 ft.</td>
</tr>
<tr>
<td>STATION</td>
<td>SOURCE OF INFORMATION (INDEX)</td>
<td>LATITUDE OR Y-COORDINATE</td>
</tr>
<tr>
<td>------------------</td>
<td>-------------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLOUGH, 1951</td>
<td>IV p. 387</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td></td>
<td>165</td>
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CHECKED BY: H. R. Rudolph | DATE: 7 June 1955
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|          | Sub. Pt. "B"  
AKUM, 1951  | n       | 60 19                     |                           | 164 30 19.562                                        | 1565.2 (291.8)                                              | 318.3 (572.5)                                      |
| KEGUM, 1951 | IV p. 379               | n       | 60 19                     | 01.902                    | 164 16 02.086                                        | 120.8 (1736.2)                                              | 32.0 (889.1)                                       |
|          | Sub. Pt.  
KEGUM, 1951  | n       | 60 19                     |                           | 164 16 02.086                                        | 113.8 (1743.2)                                              | 32.0 (889.1)                                       |
| HV-001   |                               | n       | 60 15                     | 12.05                     | 164 27 34.55                                        | 372.9 (1484.1)                                              | 531.4 (391.5)                                      |
| Sub. Pt. "A"  
HV-001  | n                               | 60 15                     |                           | 164 27 34.55                                        | 353.1 (1503.9)                                              | 531.4 (391.5)                                      |
| Sub. Pt. "B"  
HV-001  | n                               | 60 15                     |                           | 164 27 34.55                                        | 426.1 (1430.9)                                              | 531.0 (391.9)                                      |
| HV-002   |                               | n       | 60 18                     | 33.00                     | 164 21 31.65                                        | 1021.4 (835.6)                                              | 486.0 (335.3)                                      |
| Sub. Pt. "A"  
HV-002  |                               | 60 18                     |                           | 164 21 31.65                                        | 1049.4 (807.6)                                              | 432.0 (382.3)                                      |
| Sub. Pt. "B"  
HV-002  |                               | 60 18                     |                           | 164 21 31.65                                        | 1115.9 (743.1)                                              | 581.4 (339.9)                                      |

1 FT. = 304800.0 METERS

COMPUTED BY: J. Steinberg, DATE: 17 May 1955

CHECKED BY: H. R. Rudolph, DATE: 8 June 1955
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COMPILATION REPORT

T-9704, T-9705, T-9706, T-9707, T-9708, T-9709 and T-9710

31. Delineation:

With the exception of shoreline and details above the plane of marshland which were drawn using stereoinstrument methods, all map manuscripts were delineated using graphic methods.

T-9705 Insufficient photographic coverage to completely delineate entire sheet.

T-9707 Insufficient photographic coverage to completely delineate entire sheet. Although the flat areas of the sheet were classified as "marsh" they are, in general, slightly higher than true marshland. They are cut into small tufts and masses by a myriad of lacy-edged ponds which were not practical to draw. No appreciable mass of high ground exists with the exception of Ingariak Hills near the west central portion SE of Kegum Kegat Lake.

T-9709 Insufficient photographic coverage to completely delineate entire sheet.

32. Control:

See Radial Plot Report and paragraph 40 this report.

33. Supplemental Data:

No comment

34. Contours and Drainage:

No comment

35. Shoreline and Alongshore Details:

Shoreline inspection was adequate. Low water details were not delineated by office interpretation of the photographs because of tide stage at time of photography with the exception of the Kinak Bay Area on T-9710 in which an effort was made to draw low water details from photography taken 3 feet above MLLW.
36. Offshore details

   No comment

37. Landmarks and aids

   Field party indicates no landmarks or aids

38. Control for future surveys

   The following photo topo stations were established:

   DOLT, 1951    T-9704
   Ooze, 1951    T-9704
   PEAS, 1951    T-9706
   TYPE, 1951    T-9706
   ANDY, 1951    T-9708
   LITE, 1951    T-9710

   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

   The divergencies, or differences, in elevations on certain triangulation stations as noted on the Radial Plot Report were further substantiated in the process of compilation. Tidal information furnished by the Tides and Currents Division, afforded an excellent datum from which elevations could be read on the plotter. The area is, in general, low and interlaced with tidal rivers, streams and ponds, leaving no point distant from the tidal reference plane. Inland measurements from water level to apparent high-water line verified the range of tide and stage of tide as furnished by Tides and Currents. Because of the strength of the tidal data all published elevations of these control points have been ignored and instrument elevations substituted in their place.
In addition to the stations noted in the special section of the Radial Plot Report the following differences were noted:

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<td>TOOKSOOK</td>
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There are no known areas of questionable horizontal or vertical accuracy.

46. Comparison with Existing Maps:


USGS map, Baird Inlet, Alaska N6000-W16200/60X180, 1:250,000, 1951 Edition.

Town of Chefornak is shown on T-9709 southwest and closer to the sea than indicated on Baird Inlet map.

As noted in paragraph 35 because of stage of tide at time of photography, the limits of the extensive mud flats sketched on these maps and indicated on field inspection were not delineated.

47. Comparison with Nautical Charts:

Compared with chart 9302.

48. Geographic Names List:

See appended lists.

Approved by
Louis Levin
Superv. Cartographer
Nine-lens Instrument Unit

Submitted by
Wallace Heinbaugh
Cartographer
T-9704 thru T-9710

Notes to the Hydrographer

No photo hydro stations were established.

The following topographic stations were established in the field and their positions determined by radial plot:

OOZE, 1951 T-9704
PEAS, 1951 T-9706
TYPE, 1951 T-9706
ANDY, 1951 T-9708
LITE, 1951 T-9710
62. Comparison with Registered Topographic Surveys:

There are no registered topographic surveys of this area.

63. Comparison with Maps of Other Agencies:

BAIRD INLET, ALASKA, 1:250000, Ed. of 1951, US Geological Survey
NUNIVAK ISLAND, ALASKA, " " " " " " "

These are topographic reconnaissance-type charts and scale difference precludes a detailed comparison.

64. Comparison with Contemporary Hydrographic Surveys:

None!

65. Comparison with Nautical Charts:

9302    1:1534076    Revised to 9/29/58

The small-scale chart is the only nautical chart coverage of subject area. Scale difference does not afford appropriate examination of agreement.

66. Adequacy of Results and Future Surveys:

Surveys T-9704 thru T-9710 have been compiled in accordance with project instructions and no deficiencies in accuracy or adequacy were noted.

Reviewed by:

Josef J. Streifler

Approved by:

L. C. Landy
Chief, Review & Drafting Section
Photogrammetry Division

R. W. Scawen
Chief, Photogrammetry Division
6 Dec. 1960

J. W. Gilmore
Chief, Nautical Chart Branch
Charts Division

12/27/60

C. B. Bowie
Chief, Coastal Surveys Div.
Operations
## Geographic Names

**Survey No.** T-9704

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L. Heck
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L. Hearn
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.