Descriptive Report

Type of Survey: Planimetric
Field No.: Ph-8 (46)
Office No.: T-9062

Locality
State: Territory of Alaska
General locality: Bristol Bay
Locality: North Shore of Kvichak Bay

1948

Chief of Party: R.F.A. Studds, Chief of Field Party
R.A. Earle, Portland, Oregon Office

Library & Archives

Date: June 12, 1953
RECORD SHEET

GENERAL LOCALITY: Bristol Bay, Alaska
North Shore of Kvichak Bay
LOCALITY: East of Enolin Point

PHOTOS ORDERED: 2-3-43, 3-4-43
RECD: 4-2-43

PROJECTION ORDERED: 2-3-43, 3-4-43
RECD: 4-2-43

CONTROL:
COMPUTED: J.C. LaJoye, VERIFIED: J.A. Hinely
PLOTTED: F.H. Elrod, VERIFIED: R.A. Davidson

PHOTO PREPARATION:
CONTROL: J.C. LaJoye, J.A. Hinely
AZIMUTHS: F.H. Elrod

PASS POINTS: F.H. Elrod

TEMPLATES: R.A. Davidson, VERIFIED: J.L. Harris

RADIAL PLOT:
PLOTTED BY: J.L. Harris, DATE: 5-12-43
VERIFIED: J.E. Deal, DATE: 5-12-43

COMPILATION:
DETAIL POINTS: G. Wiebe, DATE: 5-13-43
DETAIL BY: G. Wiebe, DATE: 6-8-43
VERIFIED BY: R.E. Barron, DATE: 6-11-43

STAGE OF TIDE:
10-1 ft. above M.L.L.W.

DATE OF PHOTOS: 2-23-46
TIME OF PHOTOS: 12:42, 10:59
9-25-46
and 10:05 Pacific Standard Time

COMPARISON WITH PREVIOUS SURVEYS; TOPO., HYDRO., AND CHARTS:
None

REMARKS

FORWARDED TO: Washington Office
DATE: December 24, 1948

R.A. Earle, Chief of Party
RECORD SHEET

GENERAL LOCALITY... Kvichak Bay, Alaska
Southwest of the mouth
LOCALITY.....of Kvichak River..........

PHOTOS ORDERED... 2-3-43 REC'D... 4-2-43

PROJECTION ORDERED... 2-3-43 REC'D... 4-2-43

CONTROL:
COMPUTED...J.C. Laioy VERIFIED... J.A. Hinely
PLOTTED... E.H. Elrod VERIFIED... R.A. Davidson

PHOTO PREPARATION:
CONTROL... J.C. Laioy, J.A. Hinely, E.H. Elrod
AZIMUTHS... E.H. Elrod

PASS POINTS... E.H. Elrod

TEMPLATES... Wiesb VERIFIED... J.L. Harris

RADIAL PLOT:
PLOTTED BY... J.L. Harris... DATE... May 12, 1943
VERIFIED... J.E. Deal... DATE... May 12, 1943

COMPILATION:
DETAIL POINTS... M.B. Elrod DATE... May 12, 1943
DETAIL BY... M.B. Elrod DATE... May 28, 1943
VERIFIED BY... Rec.H. Barron DATE... June 10, 1943

COMPARISON WITH PREVIOUS SURVEYS; TOPO., HYDRO., AND CHARTS:

none

DATE OF PHOTOS... 9-22-46
TIME OF PHOTOS... 12:42... 9:48 and 10:05 Pacific Standard Time
STAGE OF TIDE... 10 ft... above M.L.L.W., and 6.9 ft... above M.L.L.W.

MARKS

FORWARDED TO... Washington Office DATE... December 24, 1943

R.A. Earle, Chief of Party
DATA RECORD

T-9061

Quadrangle (II):

Field Office: Nushagak Peninsula Alaska
Chief of Party: A. Newton Stewart


Instructions dated (II III): 19 March 1948 Copy filed in Descriptive Report No. T-

Completed survey received in office: 12-28-48

Reported to Nautical Chart Section: 1-3-49

Reviewed: 16 June 1952 Applied to chart No. Date:

Redrafting Completed: M. Weber A. Berry 8-52

Registered: 11 March 1953 Published:

Compilation Scale: 1:20,000 Published Scale:

Scale Factor (III): none

Geographic Datum (III): N.A. 1927 Datum Plane (III): Mean High Water

Reference Station (III): Second Point, 1947

Lat.: 53° 41' 19.42" N (60° 38' 27") Long.: 157° 33' 23.16" W (332.2 m) Adjusted

Delta ADJ: Unadjusted Datum and N.A. 1927 Datum is Lat. plus minus 0.2 m.

State Plane Coordinates (VI):

\[ x = \] 
\[ y = \] 

Military Grid Zone (VI)
## PHOTOGRAPHS (III)

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<td>9-22-46</td>
<td>12:42</td>
<td>1:20000</td>
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<td>17993 to 17996 inc.</td>
<td>9-25-46</td>
<td>10:14</td>
<td>1:20000</td>
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**Tide from (III):** Predicted Tide Tables Pacific Ocean and Indian Ocean 1946 Reference station Nushagak Bay (Clark Point)

**Mean Range:** 15.2 ft.  
**Spring Range:** 19.5 ft.  
**Diurnal**

**Camera:** (Kind or source) U.S. Coast & Geodetic Survey, 9 lens, focal length 8.25 inches.

**Field Inspection by:** Party of Lt. Comdr. A. Newton Stewart  
**date:** Season 1947

**Field Edit by:** none  
**date:**

**Date of Mean High-Water Line Location (III):** Date of Photographs

**Projection and Grids ruled by (III):** Washington Office  
**" " " checked by:**  
**date:** March 1948

**Control plotted by:** Frank H. Elrod  
**date:** April 12, 1948

**Control checked by:** R.A. Davidson  
**date:** April 13, 1948

**Radial Plot by:** J.L. Harris and J.E. Deal  
**date:** May 12, 1948

**Detailed by:** Carita Wiebe  
**date:** June 8, 1948

**Reviewed in compilation office by:** Ree H. Barron  
**date:** June 11, 1948

**Elevations on Field Edit Sheet checked by:**
STATISTICS (III)

Land Area (Sq. Statute Miles): 73.8

Shoreline (More than 200 meters to opposite shore): 10 statute miles

Shoreline (Less than 200 meters to opposite shore): none

Number of Recoverable Topographic Stations established: 1

Number of Temporary Hydrographic Stations located by radial plot: 7

Leveling (to control contours) - miles:

Roman numerals indicate whether the item is to be entered by, (II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:
PHOTOGRAPHS (III)

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<td>Unknown</td>
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<td>1:20000</td>
<td>6.9 ft. above M.L.L.W.</td>
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Tide from (III): Predicted Tide Tables, Pacific Ocean and Indian Ocean 1946
Reference Station: NUSHAGAK BAY (Clark Point)
Mean Range: 15.2 ft.
Spring Range: 19.5 ft.
Durnal
Camera: (Kind or source) U.S. Coast & Geodetic Survey, 9 lens, focal length 8.25 inches.

Field Inspection by: Party of Lt. Comdr. A. Newton Stewart  
                      date: Season 1947

Field Edit by:  

Date of Mean High-Water Line Location (III): Date of Photographs  

Projection and Grids ruled by (III): Washington Office  
date: March 1948
" checked by:  
Control plotted by: Frank H. Elrod  
Control checked by: Roy A. Davidson  
Radial Plot by: J.E. Deal and J.L. Harris  
Detailed by: Marie B. Elrod  
Reviewed in compilation office by: Ree H. Barron  
Elevations on Field Edit Sheet checked by:  

STATISTICS (III)

Land Area (Sq. Statute Miles): 31.0

Shoreline (More than 200 meters to opposite shore): 20.0 statute miles

Shoreline (Less than 200 meters to opposite shore): 4.0 statute miles

Number of Recoverable Topographic Stations established: none

Number of Temporary Hydrographic Stations located by radial plot: none

Leveling (to control contours) - miles:

Roman numerals indicate whether the item is to be entered by, (II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:
DATA RECORD
T- 9062

Quadrangle (II):  
Project No. (II): Ph-8(46)

Field Office: Nushagak Peninsula, Chief of Party: A. Newton Stewart, Alaska

Instructions dated (II III): 19 March 1943  Copy filed in Descriptive Report No. T-(VI)

Completed survey received in office:

Reported to Nautical Chart Section:

Reviewed: 16 June 1952  Applied to chart No.  
Redrafting Completed: M. Weber 8-52  Date:

Registered:  
Published:

Compilation Scale: 1:20000  Published Scale:

Scale Factor (III): none

Geographic Datum (III): N.A. 1927  Datum Plane (III): Mean Lower Low Water

Reference Station (III): KING, 1947

Lat.: 58° 50' 34.41" (1074.1 ft)  Long.: 157° 12' 23.2" (2177.4 ft)  (377.7 m) Adjusted

State Plane Coordinates (VI):

\[ X = \quad Y = \]

Military Grid Zone (VI)
Summary to Accompany T-9061 & T-9062

Project Ph-8(46), Vicinity of Bristol Bay, Alaska, consists of 44 topographic, 23 planimetric, and 2 shoreline surveys.

The topographic surveys extend from 158° 40' (east shore of Nushagak Peninsula) to 162° 20' (Cape Newenham.)

The eastern position of the project is divided into Part A, 156° 38' (Kvichak River) to 158° 40' (Nushagak Bay) where the topographic surveys begin; and Part B, the most southerly part of the project, consisting of two shoreline maps of the Egegik River from Bristol Bay to Becharof Lake.

T-9061 covers that portion of the north shore of Kvichak Bay which includes the greater part of Halfmoon Bay. T-9062 extends eastward from Halfmoon Bay to include the Kvichak River entrance at Graveyard Point and southward along the east shore of Kvichak Bay to Pederson Point.

Field work in the area of the planimetric maps from about 157° 30' (central part of T-9061) westward to include Nushagak Peninsula was carried forward cooperatively by the photogrammetric party under A. Newton Stewart, the reconnaissance party under William W. Husemeyer, and the triangulation observation party under Curtis Le Fever. Four 1909-10 stations were recovered on the eastern side of Nushagak Peninsula and the 1947 control was thus tied into the 1909-10 work. No additional search was made for 1909-10 stations, the 1947 control being sufficient for the new project.

East of 157° 30' field work was accomplished by the hydrographic party on the ship PATHFINDER under Comdr. R. F. Studds.
FIELD INSPECTION REPORT
Map Manuscripts T-9061 and T-9062
Area of the 1st Radial Plot
Project Ph-8(46)A

There was no detailed field inspection in the area of these two map manuscripts. Pertinent data on photogrammetric interpretation of planimetric details was obtained during various conferences between Lt. Comdr. Stewart and personnel of the compilation office during February and March 1948. During this period photographs were examined under the stereoscope, the character of the country was discussed and notes were made on the photographs to clarify the detail for the compilers. At this time Lt. Comdr. Stewart was requested to make additional shoreline inspection in several questionable areas in the vicinity of Nushagak Bay, when he returned to Alaska for the 1948 season. This data was furnished the compilation office in June 1948.

The original field inspection in the area is discussed in the "Project Report, Aerial Photograph Control and Inspection, Bristol Bay, Alaska, Project Ph-8(46) May to September 1947" submitted by Lt. Comdr. A. Newton Stewart.

The 1947 Season's Report, Ship "PATHFINDER" contains additional data relative to field inspection in the area.

R.A. Earle
Lt. Comdr. - USCG Survey
COMPILATION REPORT
Map Manuscripts No. T-9061 and T-9062
Project Ph-8(46)A

26: CONTROL:

A complete discussion of the horizontal control stations falling in the area of these two map manuscripts will be found in Item 26, "Control", of the descriptive report for Map Manuscripts No's. T-9051 and T-9052, Project Ph-8(46)A.

During the 1948 season the Ship "PATHFINDER" established and identified, in the area of T-9061, an additional recoverable topographic station namely: HO, 1948. This station held well, when used in the original radial plot.

27: RADIAL PLOT:

These two map manuscripts are part of a combined radial plot, comprising Map Manuscripts No's. T-9051, T-9052, part of T-9058, T-9060, T-9061, T-9062, T-9066 and T-9067, which has been fully described in Item 27, "Radial Plot", of the descriptive report for sheets T-9051 and T-9052, Project Ph-8(46)A.

28: DETAILING:

These maps were compiled in accordance with instructions for this project. Features and symbols were shown as indicated in Photogrammetry Instructions No's. 10, 12, and 17 and in a special symbol of hachures, furnished by the Washington Office.

The transforming printer at the Washington Office was not in proper adjustment at the time the photographs were printed and they could not be oriented in their entirety at the compilation table when radially plotting various types of pass points. Enough pass points had, however, been established during the radial plot, so that each chamber of each photograph could be separately oriented. For at least two of the chambers on each photograph it was found necessary to de-center the photograph radially, to or from the chamber being oriented, so that the radials to the pass points and horizontal control stations in the chamber would pass through their positions on the map manuscripts.

In order to furnish the Ship "PATHFINDER" with data for the 1948 hydrographic work in Kvichak Bay, detailing was divided into two distinct steps. In the first phase of the work all photo-hydro stations, shoreline pass points and recoverable topographic stations were located. The shoreline was then detailed from data contained on the field inspection photographs. The shoreline field inspection was not as complete as desired for the area. It was supplemented, however, by information.
contained in the descriptive report by Lt. Comdr. Stewart and by stereoscopic examination of the photographs, with Lt. Comdr. Stewart, during the time he was in the Portland Office. There was some minor difference of opinion as to the location of the high-water line between the field party of Lt. Comdr. Stewart and the Ship "PATHFINDER". In most cases the shoreline as delineated by Lt. Comdr. Stewart’s party was accepted. When the above work was completed, prints on ozalid cloth were made and forwarded to the Ship "PATHFINDER" by air mail.

The second phase of the work consisted of the compilation of interior planimetric features. Since there was no field inspection of interior areas the photograph interpretation was accomplished by stereoscopic examination of the photographs and from descriptions of the area personally furnished by Lt. Comdr. A. Newton Stewart. Reference is also made to Page 11 of the "Project Report Aerial Photograph Control and Inspection, Bristol Bay, Alaska, Project Ph-8(46)", A. Newton Stewart, Chief of Party. (Library: Season's Report No. 188, 1947)

Detail points were radially plotted near or along the tops of cliffs, bluffs, and steep banks so that they could be compiled as accurately as possible.

From a stereoscopic examination of the photographs, the many ponds found in the area, appear to be at various definite differences of elevations and not on a plain or gradual rise from the shoreline. It could not be definitely determined if there is drainage connecting many of the ponds or if at some period during the year there is a definite drainage pattern connecting all ponds. In any case, the minor drainage in this area is very complicated, and cannot be accurately determined without a detailed field inspection of the area.

Ozalid prints of the completed map manuscripts have been forwarded to the Ship "PATHFINDER".

Several of the new photographs, taken in 1948, covered the western part of T-9061; however, no revisions of or additions to the original planimetry were necessary.

It is believed that all provisions of paragraph 5 of the instructions relative to drafting have been applied to the map manuscripts.

29: SUPPLEMENTAL DATA:

No supplemental data was furnished for the area of these map manuscripts.

* Because the alternating hard and soft formations dip quite steeply (northward) the ridges have a step-like appearance from seaward. Many small ponds lie in the successive softer formations and near the base of the cliffs formed by the harder rocks. Ponds are therefore at various elevations, even in deep basins on top or hills.*
MEAN HIGH-WATER LINE: See also Review Report 66.

The mean high-water line was detailed in accordance with field inspection data furnished by Lt. Comdr. Stewart and the ship "PATHFINDER". In addition a stereoscopic examination of the photographs was made by Lt. Comdr. Stewart and several of the personnel of the compilation office, at which time any doubtful points regarding the location of the high-water line were resolved.

The mean high-water line is shown by a continuous black acid ink line .008" in thickness. There are no marsh areas bordering the shoreline.

Report T-7059 says: "The area just east of the creek near station MK8 is very low & marshy. This low area extends on to signal RUSS & beyond. (59°51'5) feet 1/1958" See Review Report 61 last paragraph.

LOW-WATER AND SHOAL LINES:

No attempt was made to delineate any low-water lines, by office examination of the photographs. The approximate limits of mud flat areas, which bare at low-water, have been detailed from photographs that were made when the predicted tide tables indicated the tide was 6.0 ft. above mean lower low water. The limits of these areas have been shown by a light, dashed, black acid ink line.

There was no field inspection of shoal areas for this project and no attempt has been made to detail them by office examination of the low-water photographs.

DETAILS OFFSHORE FROM THE MEAN HIGH-WATER LINE:

There are no details offshore from the mean high-water line.

WHARVES AND SHORELINE STRUCTURES:

These features were compiled from office examination of the photographs and available field inspection data.

LANDMARKS AND AIDS TO NAVIGATION:

It is assumed that a report on these features was submitted by the ship "PATHFINDER". Chart letter No. 970 (1948) (Landmarks only)

HYDROGRAPHIC CONTROL:

There are seven hydro signal stations falling in the area of T-9061 which were radially plotted as identified by
the field inspection party. None were identified in the area of T-9062. A list of the hydro signal stations shown on T-9061 is attached to this descriptive report.

36: **LANDING FIELDS AND AERONAUTICAL AIDS:**

There are no landing fields or aeronautical aids in this area.

37: **GEOGRAPHIC NAMES:**

Geographic names were obtained from a sketch on tracing cloth which accompanies a special report by Lt. Comdr. A. Newton Stewart, entitled "Geographic Names, Bristol Bay, Alaska, December 19, 1947."

38: **RECOVERABLE TOPOGRAPHIC STATIONS:**

A copy of form 524 is being submitted for COPE, 1947. This station was located by theodolite and described by Lt. Comdr. A. Newton Stewart. G-7328, p.5, 2nd order.

39: **JUNCTIONS:**

Complete and satisfactory junctions have been made between these map manuscripts and adjacent map manuscripts.

44: **COMPARISONS WITH EXISTING TOPOGRAPHIC SURVEYS:**

Comparison was made with Topographic Sheet No. FT-F-47 Scale 1:20,000. Only short sections of shoreline are shown on this topographic sheet and these are in agreement with the shoreline shown on the map manuscript.

45: **COMPARISONS WITH NAUTICAL CHARTS:**

A visual comparison was made with nautical chart No. 8802 scale 1:1,023,183. There are many places, particularly relative to drainage, where the nautical chart and map manuscripts are not in agreement.

Approved:

R.A. Earle
Lt. Comdr.-USCG Survey
Chief of Party

Respectfully submitted,

J. Edward Deal, Jr.
Photogrammetric Engineer
HYDROGRAPHIC SIGNALS
T-9061

#6101
Formerly #190
The station is the center of the mouth of the draw and in line with the bluff line.
Note: Some of the notes on the photo concerning this station have been rubbed out. It was the practice to pick draws with their mouths at beach level. This station pricked at beach level but photo appears as if the cut in the bank was only about ½ way to beach level from the top. Picked from the Air.
Target needed. .............. Field Photo 17995

#6102
Formerly #191
The station is the center of the mouth of the draw, at beach level, on line with the elongation of the bluff. Picked from the Air.
Target needed. .............. Field Photo 17993

#6103
Formerly #192
The station is the center of the mouth of the draw, at beach level on line with the elongation of the bluff. Picked from the Air.
Target needed. .............. Field Photo 17993

#6104
Formerly #193
The station is the center of the mouth of the draw, at beach level, on line with the elongation of the bluff. Picked from the Air.
Target needed. .............. Field Photo 17993

#6105
Formerly #194
The station is the southwesterly gable of the cabin. Picked from the Air. Field Photo 17993

#6106
Formerly #195
The station is the grass-covered edge of the bluff, on the east side of the creek, just before it drops downward into the creek bottom.
Picked from the Air. ......... Field Photo 17993

#6107
Formerly #196
The station is the edge of the grass on the bluff line, at the eastern side of the creek, and on top of the bluff before the slope into the creek bottom. Picked from the Air. Field Photo 17993
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<th>SOURCE OF INFORMATION (INDEX)</th>
<th>LATITUDE OR u-COORDINATE LONGITUDE OR x-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
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COMPUTED BY: J.G. Laiove

DATE: 4/2/48

CHECKED BY: J.A. Hinely

DATE: 4/7/48
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<td>BEND LIGHT, 1947</td>
<td>Page 16 G 6906.</td>
<td>58 - 49 - 43.629</td>
<td>1504.7 (371.9)</td>
<td>Not used in</td>
<td>radial plot</td>
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<tr>
<td>KING, 1947</td>
<td>Field Comp. Page 3 G 7129</td>
<td>58 - 50 - 34.884</td>
<td>1073.4 (777.2)</td>
<td>Identified, used</td>
<td>in radial plot</td>
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<td>LOW, 1947</td>
<td>Field Comp. Page 3 G 7135</td>
<td>58 - 48 - 10.982</td>
<td>329.8 (551.6)</td>
<td>Not used in</td>
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<td>GRAVEYARD POINT LIGHT, 1947</td>
<td>Field Comp. Page 4 G 7132</td>
<td>58 - 52 - 05.993</td>
<td>185.0 (1671.5)</td>
<td>Identified, used</td>
<td>in radial plot</td>
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<td>LIBBY, McNeil &amp; LIBBY KOGGING CANNERY, TWIN TANK, 1947</td>
<td>Field Comp. Page 4 G 7132</td>
<td>58 - 52 - 01.12</td>
<td>34.7 (1821.9)</td>
<td>Identified, used</td>
<td>in radial plot</td>
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1 FT. = 304.8006 METER

COMPUTED BY: J.C. Lejune
DATE: 4/2/48

CHECKED BY: J.A. Hingely
DATE: 6/3/48
Geographic Names.

T-9061.
Alaska (for title)
Bristol Bay " "
Kvichak Bay " "
Halfmoon Bay " "

T-9062.
Alaska (for title)
Bristol Bay " "
Kvichak Bay " "
Bristol Bay Cannery Light not on ms.
Pederson Point " "
Libbyville " "
The Bend Light (not Bend Light)
Salmon Flats " "
Graveyard Point " "
Graveyard Creek " "
Koppings " "
Albert Channel " "
King Salmon Creek " "
Copenhagen Creek " "
Halfmoon Bay " "
Gravel Spit Anchorage " "

Gravel Spit Light (latest Light List shows at 58°50.9', 157°11.7', near mouth Copenhagen Creek)

Names underlined in red are approved. 6-11-52

See nautical chart 9051 for placement of above names.
61. General:

The topography in the T-9061 area is similar to that of T-9067 on the west, intricately rough because of the diffuse drainage pattern and the northward-dipping rock structure which erodes to form seaward-facing cliffs. The main streams have marsh valleys of varying width and have many laterals, so that the areas between consist of many terraced "islands" of higher, grass-covered ground, or of tundra areas having countless ponds. The elevation ranges from approximately 50 ft at the coast to 350 ft within a distance of four miles. (Station JAUNT is 3/4 mile north of the map limit and has an elevation of 354 ft above MSL.)

The rough topography ends abruptly at the west side of the stream at the extreme eastern part of the map area (T-9061).

During review salient topographic features have been added in order to bring out the structural pattern-continuity from the west, and to establish the divide between Nushagak River drainage and Kvichak Bay drainage. This divide is little more than a mile from the Kvichak Bay coast in the southwestern part of the map area and is low in comparison with its continuation northeastward.

The divides and additional streams were added only after stereoscopic examination, because what appear as continuous stream valleys are often merely saddles between knolls, and form low divides between opposing drainage.

Ponds give little indication of drainage pattern. They are at multiple elevations and seem not to be interconnected. Many occur in deep basins on top of hills.

Streams were drawn with the intermittent symbol, because the stream bed is not clearly discernible in the marsh valleys.

Bluff elevations were also added.

T-9062 embraces only a narrow strip along the north coast of Kvichak Bay. It is lower and more tundra-like. A marsh area extends from Copenhagen Creek, eastward. The marsh symbol was added during review.

62. Comparison with Registered Surveys:

(Correction Sheet No. 316, Nos. 1, 2, 3, Project Ph-8(46), was compiled from 1943 nine-lens photographs reduced to approximate scale 1:75,000. They are shoreline and drainage compilations. They are filed in the General Files of Division of Photogrammetry under the CS-number.)
63. **Comparison with Maps of Other Agencies:**

None.

64. **Comparison with Contemporary Hydrographic Surveys:**

- **H-7767** 1:20,000 1949 T-9061
- **H-7671** 1:20,000 1948 "
- **H-7616** 1:20,000 1947-8 T-9062
- **H-7617** 1:20,000 1947 "

The shorelines on the hydrographic surveys were taken from planimetric maps T-9067, T-9061 & T-9062. No changes to shoreline were made during review; but a marsh symbol was added in the eastern part of T-9062.

65. **Comparison with Nautical Charts:**

9051 1:100,000 at 58° 36', 1st ed. Apr. 1950, rev. Nov. 1950

This chart is based on the maps in project Ph-8(46) and the contemporary hydrographic surveys.

- Charted but not mapped:
  - Bristol Bay Cannery Light
  - Bristol Bay Cannery Range Rear Daybeacon
  - Gravel Spit Light (1950)

66. **Mean High-Water Line:**

The shoreline in the area between 58° 47' and 58° 51' on T-9062 (photos 17893-5, 1946) was obscured by clouds. Photo 14389 (1943) was used to delineate the shoreline in that area.

67. **Accuracy:**

The shoreline was well controlled and field inspection notes gave a good basis for photograph interpretation. Interior detail was delineated wholly from office interpretation. Main drainage and the greater part of numerous ponds are delineated. These maps comply with the national map accuracy standards, project instructions. They are adequate as bases for hydrographic surveys and the construction of nautical charts.

Reviewed by:

- **Lena T. Stevens**
Approved:

S. J. Liffith  
Chief, Review Section  3
Division of Photogrammetry

H. Richmond  
Chief, Nautical Chart Branch  6/F
Division of Charts

O. F. Reading  
Chief, Div. of Photogrammetry

Earl O. Leal  
Chief, Div. of Coastal Surveys

1953
# Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>11/4/49</td>
<td>9051</td>
<td>St. Melan</td>
<td>Before After Verification and Review</td>
</tr>
<tr>
<td>1-19-55</td>
<td>9051</td>
<td>J. M. Eaton</td>
<td>ReCorrection Before After Verification and Review</td>
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</table>

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.
HORIZONTAL DATUM ADJUSTMENT

Bristol Bay, Alaska

The subject maps were radial plotted on unadjusted (Field) datum which was subsequently adjusted to the North American 1927 datum by the Division of Geodesy. The datum correction has been computed for each sheet, and stamped into the Descriptive Report on page 1, and on the manuscripts and registered cloth-backed copies near the title block. However, as the title block of each clothback sheet contains the note, "1927 North American Datum", it was necessary to stamp the word, "(Unadjusted)" beside this datum note in the title block of each sheet.

See the special report, Horizontal Control Datum, Ph-8(46), Ph-8A(46), and Ph-8B(46), filed with the Completion Report for the project for details and lists of the maps, reports, and registration copies marked with this adjustment. The following is a list of the maps in the projects:

Ph-8(46), TOPOGRAPHIC

T-9038 thru T-9040
9041, 9047
9051, 9057
9064, 9065, 9070
9071, 9074, 9075
9227 thru 9253

Ph-8A(46), PLANIMETRIC

T-9041 thru T-9043
9048, 9053
9058, 9063
9066, 9069
9072, 9073
9076, 9078

Ph-8B(46), SHORELINE

T-8873 (E&W) and T-8874