

9048

Diag. Cht. No. 8502-3

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey PLANIMETRIC

Field No. Ph-8 (49) Office No. T-9048

LOCALITY

State TERRITORY OF ALASKA

General locality BRISTOL BAY

Locality NUSHAGAK BAY FROM COFFEE POINT TO

BRADFORD POINT

1948

CHIEF OF PARTY

A.N. Stewart, Chief of Field Party

C.W. Clark, Portland Photogrammetric Office

LIBRARY & ARCHIVES

DATE June - 24 - 1953

9048

DATA RECORD

T -9048

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

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

Photogrammetric Office (III): Portland, Oregon Officer-in-Charge: Charles W. Clark

Instructions dated (II) (III): 19 March 1948 Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

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

Scale Factor (III): None

Date received in Washington Office (IV): 11-21-⁴⁹ Date reported to Nautical Chart Branch (IV): 11-23-49

Applied to Chart No. Date: Date registered (IV): 11 March, 1953

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N.A. 1927 Vertical Datum (III): ~~Lower Low-Water~~ ^{Mean High Water}

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): INNUIT AZ. MK. (NUSHAGAK?) 1909 r 1947

Lat.: G-7328, Pg. 5 Long.: Lists Innuvit Az. MK, 1947 Adjusted ~~Unadjusted~~

Plane Coordinates (IV): State: Zone:
Y= The difference between ~~Unadjusted~~ Datum and N.A. 1927 Datum is 14.4 plus/minus 3.4 m. Note from geodetic description of Innuvit Az. MK, 1947: "Sta. Nushagak, 1909, is 0.160 m due North of this sta." - G. B. Willey, June, 1954
8.7

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)
(II) (II)

DATA RECORD

Field Inspection by (II): Lt. Comdr. A. Newton Stewart	Date: Season 1947 & 1948
Planetable contouring by (II):	Date:
Completion Surveys by (II):	Date:
Mean High Water Location (III) (State date and method of location):	Date of Photographs
Projection and Grids ruled by (IV): Washington Office	Date: March 1948
Projection and Grids checked by (IV): Washington Office	Date: March 1948
Control plotted by (III): James L. Harris	Date: May 31, 1948
Control checked by (III): Roy A. Davidson	Date: June 1, 1948
Radial Plot or Stereoscopic Control extension by (III): James L. Harris J. Edward Deal, Jr. (1948 Photographs)	Date: June 14, 1948 December 10, 1948
Stereoscopic Instrument compilation (III): Planimetry Contours	Date: Date:
Manuscript delineated by (III): Marie B. Elrod Ree H. Barron (Revision 1948 Photographs)	Date: June 22, 1948 December 24, 1948
Photogrammetric Office Review by (III): Ree H. Barron (Revision 1948 Photographs)	Date: December 24, 1948 December 24, 1948
Elevations on Manuscript checked by (II) (III):	Date:

Camera (kind or source) (III): U.S. Coast and Geodetic Survey, 9 lens, focal length 8.25 inches.

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
20450	8-23-47	12:16 <i>ok</i>	1:20,000	3.0 1.0 ft. above M.L.L.W.
20454 to 20455 Incl.	8-23-47	12:23 <i>ok</i>	1:20,000	2.6 0.7 ft. above M.L.L.W.
20257A	8-7-47	09:51	1:20,000	7.3 ft. above M.L.L.W.
23324 to 23327 Incl.	9-1-48	14:07 <i>15:29-30</i>	1:20,000	3.0 5.9 ft. above M.L.L.W.
23363 to 23365 Incl.	9-2-48	09:56 <i>9:54</i>	1:20,000	3 12.4 ft. above M.L.L.W.
232 to 23283 Incl.	9-1-48	14:50 <i>ok</i>	1:20,000	5.2 3.8 ft. above M.L.L.W.

23 272-89 = 14:42 * 35
 23 317-33 = 15:25 * 24
 23 343-57 = 09:31 * 41
 23 358-71 = 09:43 * 21
 73 243-57 = 09:31 * 41

Tide (III)

Reference Station: Nushagak Bay (Clarks Point)
 Subordinate Station:
 Subordinate Station:

Ratio of Ranges	Mean Range	Diurnal
		Spring Range
	15.2	19.5

Washington Office Review by (IV): *Lena J. Stevens* Date: *4 Apr. 1952*
 Final Drafting by (IV): *Eleanor Hunter* Date: *7-24-52*
 Drafting verified for reproduction by (IV): *Sylvia Clew-BM Brewer* Date: *7-25-52 7/29/52*
 Proof Edit by (IV): *W.O. Hallum* Date: *10-27-52*

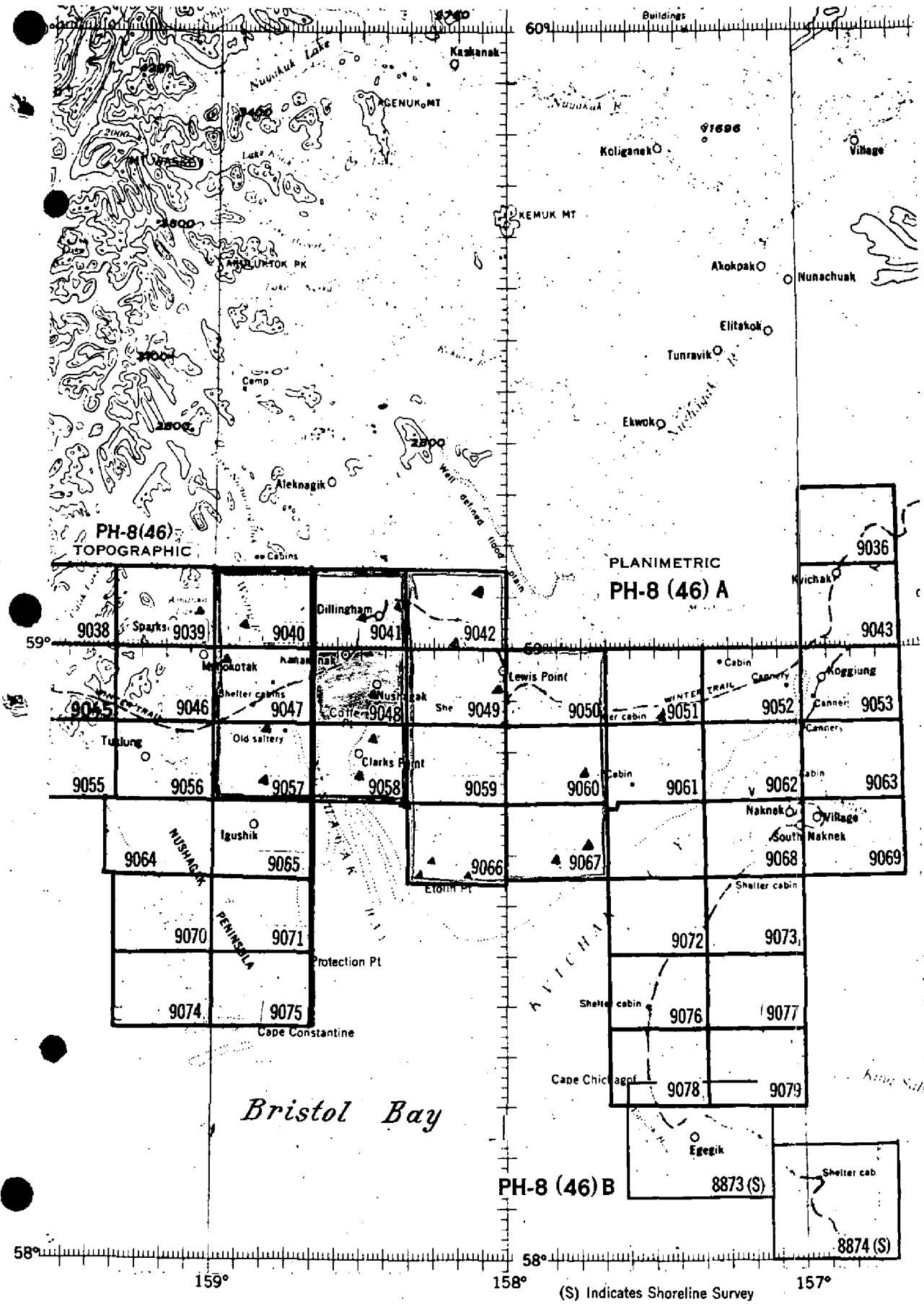
Land Area (Sq. Statute Miles) (III): 73.0
 Shoreline (More than 200 meters to opposite shore) (III): 26.3 Statute Miles
 Shoreline (Less than 200 meters to opposite shore) (III): 4.5 Statute Miles
 Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): Recovered: Identified:
 Number of BMs searched for (II): Recovered: Identified:
 Number of Recoverable Photo Stations established (III): 5 (See Side heading 38)
 Number of Temporary Photo Hydro Stations established (III): 3

Remarks:

PLANIMETRIC AND SHORELINE MAPPING PROJECT PH-8 (46) A-B

ALASKA, Vicinity of Bristol Bay



(S) Indicates Shoreline Survey

SUMMARY TO ACCOMPANY T-9048

Project Ph-8(46), vicinity of Bristol Bay, Alaska, consists of 44 topographic, ~~27~~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 portion 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. <sup>Planimetric
Maps</sup>

T-9048 covers that part of Nushagak Bay which includes Coffee Point, Bradford Point, and Nushagak Point where there is a permanent settlement and canneries.

Field work in the area of the planimetric maps from about 157° 30' to, and including, Nushagak Peninsula, was carried forward cooperatively by the photogrammetric party under A. Newton Stewart, the reconnaissance party under Wm. W. Husemeyer, and the triangulation observation party under Curtis LeFever. 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.

FIELD INSPECTION REPORT
Map Manuscript No. T-9048
Project Ph-8(46)

For side headings 2 to 20 refer to 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 and to the following statement. *Library: Season's Report No 138(1947)*

The field inspection of the area consisted generally of the identification of the mean high-water line and adjacent foreshore and backshore areas by the party of Lt. Comdr. A. Newton Stewart during the 1947 season. The identification of horizontal control stations was done by the party of Lt. Comdr. Curtis LeFever in 1947.

Pertinent data on photographic 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.

Charles W. Clark
Charles W. Clark
Lt. Comdr.-USC&G Survey
Chief of Party

PHOTOGRAMMETRIC PLOT REPORT
Map Manuscript No. T-9048
Project Ph-8(46)

This map manuscript was included as part of a combined radial plot comprising Map Manuscripts No'd. T-9040, T-9041, T-9047, T-9048, T-9057 and T-9058.

This radial plot has been fully described in the Descriptive Report for Map Manuscript T-9058, side headings 26: "Control" and 27: "Radial Plot" which was submitted prior to publication of the new topographic manual.

Refer to the above mentioned report for side headings 21 through 30 listed in the new topographic manual under 725 Photogrammetric Plot Report, Part 2, Chapter VII, page 29.

Approved:

Charles W. Clark
Charles W. Clark
Chief of Party

Respectfully submitted:

J. Edward Deal, Jr.
J. Edward Deal, Jr.
Cartographer

COMPILATION REPORT
Map Manuscript No. T-9048
Project Ph-8(46)

31: DELINEATION:

This map manuscript was compiled entirely by graphic methods.

The compilation was done in a similar manner as described in the Descriptive Report for Map Manuscript No. T-9058 (1947), side heading 28: "Detailing".

32: CONTROL:

There are three control stations falling in the area of this map manuscript. One was identified on a pricking card only and one other was identified on Photograph 20449. *Kanakanak, 1947*
Innuit, 1947
(old) Innuit A.M. 1947 (Nushagak, 1909)

For additional facts refer to Descriptive Report, Map Manuscript T-9058, side heading 26: "Control".

Also refer to side heading 38: "Control for Future Surveys" of this descriptive report.

33: SUPPLEMENTAL DATA:

No supplemental data was furnished for the area of this map manuscript.

34: CONTOURS AND DRAINAGE:

Inapplicable.

35: SHORELINE AND ALONGSHORE DETAILS:

The location of the high-water line has been shown as delineated by the field inspection party of Lt. Comdr. A. N. Stewart during the seasons of 1947 and 1948.

The limits of mud flat areas that bare at lower low-water were detailed from photographs 20449 and 20450 which are believed to be at a tide stage of about 1.0 ft. above mean lower low-water.

Shoal lines have not been detailed.

There are just two shoreline structures, both located at Nushagak.

36: OFFSHORE DETAILS:

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

37: LANDMARKS AND AIDS:

A report on these features has been submitted by the Ship "PATHFINDER".

38: CONTROL FOR FUTURE SURVEYS:

During the 1947 field season there were four recoverable topographic stations, identified by the party of Lt. Comdr. A. N. Stewart, which were radially plotted on this map manuscript. They are:

SILK 1947, GLUT 1947, JAKE 1947, and PURE 1947. *Forms 524 filed under T-9048*

In 1948 this office was furnished with copies of Forms 524 for four additional recoverable topographic stations, falling on this map manuscript, which were located by the Ship "PATHFINDER" in 1948. They are:

DOG 1948, JAKE 1948, VET 1948, and ACE 1948. *Forms 524 filed under T-7086*

It is apparent that DOG 1948 is the north gable and PURE 1948 is the south gable of the same building. *DOG not on T-9048*

(Topo. disc.)

(Landmark HOUSE)

JAKE 1947^A is one meter west of the west gable and JAKE 1948^A is the top and center of the same small cabin. *

Ch. Let. No. 70(1949)

Landmark SPIRE

ACE 1948^A is ~~believed to be~~ the same object as photo hydro signal No. 4801 which was identified by Lt. Comdr. A. N. Stewart in 1947. **

There are serious differences in latitude between the positions, for these objects, established by the Ship "PATHFINDER", and the scaled radially plotted positions established at this office.

The horizontal control stations in this area are sparse and therefore the control for the radial plots is believed to be weak, especially since station KANAKANAK could not be identified with any degree of certainty and it was badly needed in this large area.

The other stations in the area, although spaced far apart, were held to strongly in two radial plots; each plot being run with a different set of photographs. Practically the same results were obtained in both plots.

Lt. Comdr. A. N. Stewart, who personally visited several of the stations, assisted in the identification on the office photographs

* *Jake, 1948 was added during review.*

** *The name "Ace, 1948" was added - Radial plot portion accepted*

See following attached up front and review report

of most of the stations in this area. This was especially true for the sub-station INNUIT AZ. MARK for which he not only identified the sub-station but it is also believed that he made an accurate direct identification of the azimuth mark.

Attached is correspondence with the Ship "PATHFINDER" relative to station "ACE 1948" in which it is indicated that the sub-station for INNUIT AZ. MARK might be in error. *25 Feb, 1949*

The differences are alike for stations ACE 1948 (hydro signal #4801) and DOG 1948 (PURE 1947). For JAKE 1948 and JAKE 1947 the difference is in the opposite direction and a smaller amount. *Heading 38, par. 4*

This office has made every effort to uncover the cause for these differences. While the above facts are not conclusive it is believed that the radially plotted positions cannot be changed to agree with the positions established by the Ship "PATHFINDER" unless the horizontal control station identification in the area is entirely disregarded.

Refer to Descriptive Report Graphic Control Survey, Registry No. 7086 a (1948) Field No. PF-E-48 Alaska Bristol Bay, pages 3 and 4, submitted by R.F.A. Studds in 1948.

A list of recoverable topographic stations and photo-hydro stations have been prepared and included in paragraph 49.

39: JUNCTIONS:

Satisfactory junctions have been made with all map manuscripts joining T-9048.

40: HORIZONTAL AND VERTICAL ACCURACY: *

For reasons set forth in side headings 32: "Control" and 38: "Control for Future Surveys", there is some doubt as to whether this map manuscript is of the usual standard of accuracy of maps compiled in this office. This fact can be determined only by additional field work. Attention is called to statements in paragraphs 19 and 20 of the original instructions for Project Ph-8(46) dated 19 March 1948.

Vertical accuracy is inapplicable.

46: COMPARISON WITH EXISTING MAPS:

Visual comparisons were made with the following maps.

* stations held in the radial plots have been roughly entered on the project index sketch (p.6) to indicate T-9048 is adequately controlled.

Topographic map of Nushagak District, Alaska, U.S. Geological Survey Scale 1:250,000 dated 1930-31.

World Aeronautical Chart (136) Kodiak Island, Scale 1:1,000,000 edition March 2, 1949.

47: COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with nautical chart No. 8802, print date January 12, 1946 and date of issue 11/7/47, Scale 1:1,023,188 at Lat. 56° 00'.

From a visual comparison with nautical chart No. 9050, print date July 14, 1945 and date of issue 6/25/46, Scale 1:150,000 it is evident that the numerous changes in the shoreline in this area since the chart was compiled should be immediately applied to the nautical chart. The planimetric features of the chart are approximately two minutes eastward of those on the map manuscript. (*Nushagak Independent Datum*)

48: GEOGRAPHIC NAMES:

Geographic names shown on the map manuscript were obtained from a special report on Geographic Names, Bristol Bay, Alaska, dated 19 September 1947 submitted by Lt. Comdr. A. N. Stewart.

In 1948 the Ship "PATHFINDER" submitted corrections and additions to geographic names. In this area this information is contained on an ozalid print of T-9048 which is being forwarded with this map manuscript.

A list of names appearing on this map manuscript is attached on a separate sheet. Lt. Comdr. Stewart was not in agreement with several names recommended by the Ship "PATHFINDER".

Approved;

Charles W. Clark
Charles W. Clark
Chief of Party

Respectfully submitted:

J. Edward Deal Jr.
J. Edward Deal, Jr.
Cartographer

PHOTOGRAMMETRIC OFFICE REVIEW

T-9048

1. Projection and grids 2. Title 3. Manuscript numbers 4. Manuscript size

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) 7. Photo hydro stations 8. Bench marks
 9. Plotting of sextant fixes 10. Photogrammetric plot report 11. Detail points

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline 13. Low-water line 14. Rocks, shoals, etc. 15. Bridges 16. Aids to navigation
 17. Landmarks 18. Other alongshore physical features 19. Other along-shore cultural features

PHYSICAL FEATURES

20. Water features 21. Natural ground cover 22. Planetable 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. Forms

40. Ree H. Rawson J. Edward Deal Jr.
 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:

GEOGRAPHIC NAMES T-9048

- ✓ Bradford Point
 - ✓ Coffee Creek
 - ✓ Coffee Point
 - ✓ Combine Flat
 - ✓ Johnson Creek
 - ✓ Kanakanak Creek
 - ✓ Mayowick Creek
 - ✓ Nushagak
 - ✓ Nushagak Bay
 - ✓ Olson Creek
 - ✓ Rolph Slough
 - ✓ Grassy Williams Island (deleted by Ship "PATHFINDER")
- Combine Slough
- Nushagak Point

✓ Alaska

✓ Bristol Bay (for title)

Names underlined in
red are approved
4-4-52
L. Hecht

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~

STRIKE OUT ONE

Washington, D. C. April 8, 1952

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be charted on ~~separate sheets~~ the charts indicated.

The positions given have been checked after listing by K. N. Maki

S. V. Griffith

Chief of Party.

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	CHARTS AFFECTED					
			LATITUDE		LONGITUDE				HARBOR CHART	INSHORE CHART	OFFSHORE CHART			
			°	'	°	'			D. M. METERS	D. P. METERS				
SPIRE	*	Acc 1948	58	56	1527.6	158	29	313.0	NA 1927 RadPlot	1948				9052
HOUSE	**	Jake, 1948	58	54	1370.5	158	37	55.0	NA 1927 RadPlot	1948				9052
	*	* See #2 letter dated 25 Feb 1949 attached to this report.												
	**	** See Heading 38, page 11 of Compilation Report.												
		These are the positions of the landmarks on T-9048. They are not in agreement with those on T-7086, from which Chart Letter No. 70 (1949) was made.												
		LTS Apr. 1952												

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

49: NOTES FOR HYDROGRAPHER:

Photo-hydro stations in T-9048

- #4801 Formerly #208 The station is the apex of the north steeple of the church at Nushagak.
- #4802 Formerly #209 The station is the north gable of the main building at the northeast of the two canneries at Nushagak directly above the dock.
- #4803 Formerly #211 The station is the south gable of the one-story cabin.

Recoverable Topographic Stations T-9048

- PURE, 1947 65 ft
- JAKE, 1947 70 ft
- SILK, 1947 28 ft
- GLUT, 1947 140 ft
- VET, 1947 (located by Ship "PATHFINDER") (Beacon)

Refer to side heading 38 of this report.

JAKE 1948

(Ldmk) added. 80 mmus

~~CONFIDENTIAL~~
COPYc/o Swan Island Postal Station
Portland 18, Oregon

14 February 1949

To: Commanding Officer Ship "PATHFINDER"
U.S. Coast and Geodetic Survey
705 Federal Office Building
Seattle 4, Washington

Subject: Ozalid prints map manuscripts Project Ph-8(46)

Two ozalid prints each of map manuscripts No's. T-9040, T-9041, T-9042, T-9047, T-9048, T-9057 and T-9058 are being forwarded to you under separate cover. These map manuscripts have been revised and completed to agree with the photographs taken in 1948 and any previous prints furnished you are now obsolete.

This office cannot verify your scaled position of recoverable topographic station ACE, 1948 located by planetable in the area of T-9048. The church has been clearly identified at this office on several photographs and radially plotted. This particular area is controlled by triangulation station INNUIT AZ. MARK, NUSHAGAK, 1909 and it was held each time a radial was drawn to station ACE. The two scaled positions are as follows:

Planetable position	58° 56'	1547	(309)
	158° 29'	313	(647)

Radially plotted position	58° 56'	1531	(325)
	158° 29'	315	(645)

Also, this office cannot verify the scaled position of station TIP, 1948 (Lone Fir) located by sextant fix, in the area of T-9041 and recommended for charting as a landmark. This lone tree was pricked on the photographs and radially plotted holding to triangulation station YEAR, 1946 which controls this particular area. The scaled positions are as follows:

Sextant fix position	59° 05'	980	(877)
	158° 23'	110	(846)

Radially plotted position	59° 05'	1008	(849)
	158° 23'	124	(832)

This office was able to verify within 5 meters the scaled positions of all other stations, which were natural objects, located by the Ship "PATHFINDER" in the Nushagak Bay area.

W. H. Bainbridge
Comdr.-USC&G Survey
Chief of Party

By: J. Edward Deal, Jr.
Photogrammetric Engineer

WHE/gr

See letter on next page

COPY

Ship PATHFINDER, 705 Federal Office Bldg., Seattle 4, Washington

16 February 1949

Refer to file
91/EHS/ccj

To: Chief of Party
U.S. Coast & Geodetic Survey
Photogrammetric Office
c/o Swan Island Postal Station
Portland 18, Oregon

Subject: Ozalid prints map manuscripts Project Ph-8(46)

Reference: Your letter dated 14 February 1949

In regard to the discrepancies noted in the positions of stations TIP and ACE, it is believed that your location of TIP as obtained from radial plot is more accurate than the sextant location as listed on form No. 567 Landmarks for Charts. We will therefore use the air photo position of TIP in plotting the hydrographic sheet.

Station Tip not shown on T-9048

ch. L # 70 (1949)

In regard to the location of station ACE, however; a disagreement was noted by the topographer at the time that a copy of T-9048 was received in the field with the location of Point No. 4801 (208).

The compilation sheet and descriptions were not received by the field party until after the graphic control sheets were completed. It was believed that this discrepancy was probably due to the choice of different points on a common structure between the graphic control and the air photograph compilation. This subject is covered in the descriptive report from the graphic control sheets; a copy of this report is enclosed.

See Narrative Report

In as much as the discrepancy at station ACE was the largest noted on the sheets at the time the graphic control survey was made an additional set up was made by the topographer at triangulation station INNUIT Az. Mark, Nushagak, 1909 and a careful rod reading was taken on the church spire (station ACE) to check the location of the station.

It is believed that there may possibly be an error in the location of sub station INNUIT Az. Mark on the air photo field inspection and that the plane table position of station ACE should be accepted to control the detail in this area.

see Radial Plot. T-9058

/S/ Robert W. Knox
Robert W. Knox
Commander, C&GS
C.O. Ship PATHFINDER

cc: The Director
R.C. Darling

COPY

c/o Swan Island Postal Station
Portland 18, Oregon

25 February 1949

To: Commander, Robert W. Knox
Commanding Officer, Ship "PATHFINDER"
705 Federal Office Building
Seattle 4, Washington

Subject: Topographic Station "ACE"

Reference: Your letter (91/EHS/ccj)

With the assistance of Lt. Comdr. A. Newton Stewart all data and work relative to the sub-station for INNUIT AZIMUTH MARK has been verified. The point selected for the sub-station is clearly identified on seven photographs and it is felt that this station cannot be disregarded when locating any point in the area.

Apparently station ACE and hydrographic signal No. 4801, shown on T-9048 are the same point on a common structure. The point this office radially plotted is the apex of the northwest steeple on which the cross is believed to be located. If the southeast end of the building were used the discrepancy would be greater. The station was again radially plotted and the location shown on the ozalid print furnished for T-9048 cannot be changed.

In other instances where a different point on a common structure was selected by the two parties this office was able to verify in each case the location as established by the Ship "PATHFINDER".

Any additional information that you may be able to furnish or any suggestion that you can contribute toward resolving this difference will be appreciated.

W. H. Bainbridge
Comdr.-USC&G Survey
Chief of Party

WHB/gr

*also verified
by [unclear]*

REVIEW REPORT T-9048
Planimetric Manuscript
April 1952

62. Comparison with Registered Surveys:

T-7087	1:20,000	1948 (Graphic control)
T-2983	1:20,000	1909 50-ft. contours

(Wushagak Independent Datum)

Ignoring the difference in projections shorelines were compared by laying the acetate map manuscript over T-2983. The shoreline on the west side of Nushagak Bay in this area has been more stable than that on the east side where the tundra-like marsh in front of the prominent bluff is extending westward.

Except for the contours T-9048 supersedes the older survey for charting.

63. Comparisons with Maps of other agencies:

U.S.G.S. Nushagak Bay, Alaska, 1:250,000 1949
1943 Photographs

The legend on this map indicates a 1947 North American Datum and that some of the control was from C&GS. But the relationship of shoreline to projection is that of T-2983 Above, i.e. about $1\frac{1}{2}$ minute farther east than on the map manuscript under review.

64. Comparison with Contemporary Hydrographic Surveys:

H-7⁶69 1:20,000 1948 Additional work, 1949

The shoreline on H-7⁶69 is from T-9048. Differences in the positions of topographic stations established by graphic control and by the radial plot are listed and discussed on pages 11, 12, and 17 to 19 of the preceding report. Station JAKE 1948 has been added to T-9048. The radial plot position of Station ACE 1948 is accepted after investigation during review. The positions of Stations JAKE 1948 and ACE 1948 have been scaled from T-9048 and listed on Form 567; this form is attached to Chart Letter 70, 1949. H-7667
revised -
6/21-6/22/53

65. Comparison with Nautical Charts:

8802	1:1,023,188	at 56°00'	ed. Aug. 1944	rev. June 1951
9050	1:150,000	at 58°47'	ed. Nov. 1943	rev. April 1949

These charts are based on the 1909 survey, so that the

relationship of shoreline to projection does not agree with map manuscript T-9048.

9052 1:100,000 at 58°36' 1st ed. April 1950, rev. Nov. 1950

This chart was based on Ph-8(46) surveys, T-7087 and H-7768 and H-7769. Differences between chart and map manuscript are due to selective use of mapped data and to discrepancies in landmark positions noted in 64 above.

66. Accuracy:

This map complies with project instructions and ~~meets the National Standards of Accuracy.~~ is adequate for use as a base for hydrographic surveys and for the construction of nautical charts.
Reviewed by:

Lena T. Stevens
Lena T. Stevens

Approved:

S. V. Griffith
Chief, Review Section *B*
Division of Photogrammetry

H. Edmister
Chief, Nautical Chart Branch
Division of Charts *67*

B. J. Jones *pc*
Chief, Div. of Photogrammetry

Carl O. Heaton
Chief, Div. Coastal Surveys
407

NAUTICAL CHARTS BRANCH

SURVEY NO. 9048

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
12/22/49	9052	J. G. McGinnis	<input type="radio"/> Before <input checked="" type="radio"/> After Verification and Review
11-1-91	16322	W. S. Ohno	<input type="radio"/> Before <input checked="" type="radio"/> After Verification and Review <i>Consider</i> <i>adequately applied</i>
			<input type="radio"/> Before <input type="radio"/> After Verification and Review
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M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

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
9044 " 9047
9054 " 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