

7093

Diag'd. on Diag. Ch. No. 8502-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. PF-C-46 Office No. T-7093

LOCALITY

State Alaska

General locality Naknek River

Locality Entrance To Morakas Point

1946-'47

CHIEF OF PARTY

R.F.A. Studds

LIBRARY & ARCHIVES

DATE Jan. 12, 1949

B-1870-1 (1)

7093

T-7028, 61

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

Each Topographic and Graphic Control Sheet, and each Air Photographic Drawing should be accompanied by this form, completed so far as practicable, when forwarded to the Washington office.

T7093

Registry No. T-7093

Field No. PF-C-46

Scale 1:10,000

State Alaska

General locality Bristol Bay NAKNEK RIVER

Specific locality ~~Naknek River~~, Entrance to Morakas Point

Dates: Survey began 12 September 1946 Completed 28 July 1947

Photography Complete, Supplemented by ground surveys to

Project No. CS-327

Instructions dated 20 June 1946

Vessel } or PATHFINDER
Party } H.C. Applequist

Chief of party R.F.A. STUDDS

Field work by Fair J. Bryant

Office work by Fair J. Bryant

Final inking by Fair J. Bryant

Ground elevations } in feet above { M. H. W.
~~Treetop elevations~~ } xx

Contours } by { Planetable
Approximate contours } Multiplex } Interval _____ ft.
Form lines }

REMARKS Additional detail to be obtained from air photographs

1.
DESCRIPTIVE REPORT
TO ACCOMPANY T-7093 (1946-47)
TOPOGRAPHIC SHEET FIELD NO. PF-C-47

PROJECT: Field work was done under instruction dated 20 June 1946
for Project CS-327. ✓

LOCALITY: The survey on this sheet covers the Naknek River from the entrance (Long. 157°-04.0') to Morakas Point (Long. 156°-56.0'). ✓

SCALE: 1:10,000

GENERAL DESCRIPTION:

Both banks of the river are lined with low bluffs varying in height from about 100 to about 40 feet. Variation in height is irregular without uniform gradation. The bluffs are composed of a fine, sandy soil which readily erodes. Dense alder thickets line the crests but extend only a short distance inland. In places, the growth of alders extends down the face of the bluff. Where this does not occur there is considerable erosion and the crest sloughs away at an estimated rate of about 1 foot a year. The bluffs are broken at intervals by swales, invariably along the course of a stream of some size and usually marked by marshland along the river. The beach, inshore of the High Water Line, is narrow and sloping and on the higher tides the water washes the foot of the bluffs. The character of the beach is varied but rocks, gravel and sand, interspersed with and sometimes overlaid by mud formed by fine, volcanic ash. There are areas of considerable extent where the beach is composed of this mud which is impassable on foot and similar to quicksand in effect. The character of the beach has been indicated on the sheet. ✓

The portion of the river within the limits of this sheet contains extensive bars and flats of mixed sand, gravel and mud. There appears to be considerable shifting of these bars from year to year. Few offshore rock were noted in this section. ✓

There are two settlements on this section of the river, Naknek on the North bank and South Naknek on the South bank. Both of these settlements have grown-up around canneries. In addition, there are two canneries on the South bank between South Naknek and the river entrance and two upstream, on the North and one on the South bank. All of the wharves and docks dry out at low water. ✓

The area inshore of the bluff line is rolling tundra and muskeg with numerous streams, ponds and marshy areas. Except for the tundra moss and tall grass, vegetation is sparse inland. There are scattered alder, often single, on the higher ground. ✓

GENERAL DESCRIPTION (Cont'd.): The features described below are not shown on the present survey. They appear on the air photographs covering the area.

On the South bank a road, identifiable on the air photographs, extends from South Naknek to the cannery at the river entrance
 T-7036a(1946)(Sheet PF-A-46). * A foot path, partially identifiable on the air photographs, extends from South Naknek to the Warren Cannery of Pacific American Fisheries (Long. 156°-56.7'). On the ~~South~~ North bank a road, identifiable on the air photographs, extends from Naknek to the Red Salmon Cannery of the Red Salmon Canning Co. (Long. 156°-58.5'). A winter trail, also identifiable on the air photographs, passable for light, tracked vehicles during the winter months extends from Naknek to Naknek Air Base (Sheet PF-E-47).
 T-7095 b (1947)

CONTROL: Control for the survey consists of first-order triangulation accomplished by the party of J.C. Tribble during 1946, supplemented by third-order triangulation accomplished by personnel from the PATHFINDER in 1947. Positions are from unadjusted field computation referred to North American 1927 Datum.

CHRONOLOGY AND DETAILS OF SURVEY:

Field work was begun during September 1946 and was carried to (Long. 157°-00.3') on the South bank and to (Long. 157°-00.6') on the North bank. Work on the remainder of the sheet was accomplished during July 1947. The junction between the two seasons work was satisfactory.

Only standard topographic method were used. ~~On account~~ ^{Because} of the density of available control, only two short traverses were made, the remainder of the work was accomplished from positions established by triangulation or by 3-point fixes. The traverses closed within allowable limits and the closing errors were distributed by standard methods.

The sheet joins PF-A-46 (1:20,000) to the West and PF-G-47 (1:10,000) to the East. The junctions were satisfactory.
 T-7036a(1946) T-7094(1947)

MAGNETIC DECLINATION:

Magnetic meridians were drawn at a set-up at station A.P.A. Diamond "O" Tanks, 1946, in 1946 and at set-ups at Stations Bump 1947, Cove 1947, and Hole 1947 in 1947. Some variation in the declination was noted but there is apparently no local disturbance. Declinatoire No. 163, used in 1946, was standardized in 1947 and found to have an error of - 0°.3. Declinatoire No. 195, used in 1947 was standardized in 1948 and found to have no measurable error.

GEOGRAPHIC NAMES:

A complete investigation of geographic names was made and is covered in a separate report. Local or native names were obtained for all important features.

* A winter sled trail, also identifiable on the air photographs, extends from South Naknek to Savonoski Indian Village (Sheet (PF-G-47)).
 T-7094(1947)

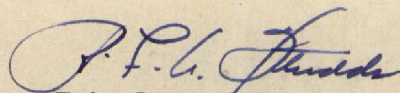
GEOGRAPHIC NAMES (Cont'd.):

Previously charted geographic names appearing on the sheet which were verified are as follows:

Cape Suw^orof
Naknek River

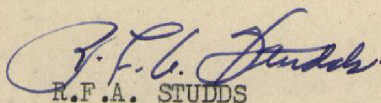
Local or native names of features not previously charted which appear on the sheet are as follows:

Naknek
South Naknek
The Hole
Coffee Point
Boat Creek
Pacific Creek
Morakas Point



Fair J. Bryant
Lieut., U.S.C.&G.S.
Topographer

APPROVED:



R.F.A. STUDDS
Comdr., U.S.C.&G.S.
Chief of Party

2 Annexes:

- (1) List of Plane Table Positions.
- (2) Landmarks for charts.

ANNEX 1: List of Plane Table Positions

| Object | Latitude | D M Meters | Longitude | D P Meters | Remarks |
|---|----------|---------------|-----------|---------------|--------------------|
| NW gable of highest bldg. A.P.A. Diamond "O" Cannery | 58° 42' | 1320 | 157° 03' | 276 | Apex |
| High point of hill. | 58° 41' | 395 | 157° 01' | 964 | Ground |
| Tallest radio mast, A.P.A. Diamond "NN" Cannery. | 58° 42' | 1724 | 156° 59' | 935 | Finial |
| Point of bluff. | 58° 42' | 1422 | 157° 01' | 732 | Ground Overhang |

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY**NONFLOATING AIDS OR LANDMARKS FOR CHARTS**TO BE CHARTED
~~TO BE DELETED~~

STRIKE OUT ONE

Seattle, Washington 18 March, 1948

I recommend that 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 Paul J. Bryant

Part of L. 470 (1948)

R.P.A. STUDS Chief of Party.

| STATE | CHARTING NAME | DESCRIPTION | SIGNAL NAME | POSITION | | | | | METHOD OF LOCATION AND SURVEY NO. | DATE OF LOCATION | HARBOR CHART | INSHORE CHART | OFFSHORE CHART | CHARTS AFFECTED |
|-------|--------------------|---|-------------|----------|----|-------------------|-----|----|-----------------------------------|------------------|--------------|---------------|----------------|-----------------|
| | | | | LATITUDE | | LONGITUDE | | | | | | | | |
| | | | | ° | ' | D. M. METERS | ° | ' | | | | | | |
| | Cable | NW gable of highest building at | | 58 | 42 | 1320 | 157 | 03 | 276 | NA1927 | | X | | New Charts |
| | Hill | A.P.A. Diamond "Or Cannery | | | | | | | | | | | | |
| | | Highpoint of NE one of two low | | | | | | | | | | | | |
| | | hills with saddle between | | 58 | 41 | 395 | 157 | 01 | 964 | NA1927 | | | | New Charts |
| | Point of Bluff | High point of face of bluff | | | | | | | | | | | | |
| | | upstream from CRPA Cannery | | 58 | 42 | 1422 | 157 | 01 | 732 | NA1927 | | | | New Charts |
| | Tallest Radio Mast | Top of tallest radio mast (of two) | | 58 | 42 | 1724 ² | 156 | 59 | 935 | NA1927 | | | | New Charts |
| | | at APA Diamond NW Cannery | | | | | | | | | | | | |
| | Tank | Water tank at CRPA Cannery | Tank | 58 | 42 | 1286.5 | 157 | 02 | 83.9 | NA1927 | | X | X | 8802 New Charts |
| | | (Columbia River Packers Assn., Tank, 1946) | | | | | | | | | | | | |
| | Tank | Water tanks at APA Diamond "NW" Cannery (Alaska Packers Assn., Tanks, 1946) | Dia | 58 | 42 | 1782.1 | 156 | 59 | 908.7 | NA1927 | | X | X | 8802 New Charts |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

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.

DIVISION OF CHARTS

REVIEW SECTION -- NAUTICAL CHART BRANCH

REVIEW OF TOPOGRAPHIC SURVEY

REGISTRY NO. T-7093

FIELD NO. PF-C-46

Alaska, Naknek River, Entrance to Morakas Point
Surveyed in Sept. 1946, July 1947 Scale 1:10,000
Project No. CS-327

Plane Table Survey

Aluminum Mounted

Chief of Party - R. F. A. Studds
Surveyed by - H. C. Applequist and F. J. Bryant
Inked by - F. J. Bryant
Reviewed by - T. A. Dinsmore, April 12, 1949
Inspected by - R. H. Carstens

1. Adjoining Surveys

Adequate junctions were effected with T-7094 (1947) on the east and T-7036a (1946) on the west.

2. Comparison with Prior Surveys

There are no prior surveys of the area by this Bureau.

3. Comparison with Preliminary Chart A-3370 (Print date 5/24/48)

a. Topography

The charted topography originates with the present survey prior to review. No revisions are necessary.

b. Aids to Navigation

The present survey position of the fixed aid to navigation is in substantial agreement with the charted position and adequately marks the feature intended.

c. Magnetic Meridian

Declinatoire observations of the magnetic meridian are in good agreement with the charted value.

4. Condition of Survey

- a. The survey was neatly inked and conforms to the requirements of the Topographic Manual.
- b. The Descriptive Report covers all matters of importance.

5. Compliance with Project Instructions


The survey adequately complies with the Project Instructions.

6. Additional Field Work

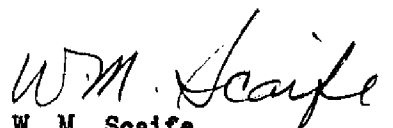
This is an excellent survey and no additional field work is required. Additional topographic detail in this area is being compiled on air photographic surveys T-9068 and T-9069.

Examined and approved:


H. R. Edmonston
Chief, Nautical Chart Branch


Casper M. Durgin
Chief, Division of Charts


K. G. Crosby
Chief, Section of Hydrography


W. M. Scaife
Chief, Division of Coastal Surveys

GEOGRAPHIC NAMES

Survey No. **T7093**

| GEOGRAPHIC NAMES | | | | | | | | | | | |
|------------------|---|---|-------------|---|---|---|---|---|------|----|--|
| Survey No. T7093 | | | | | | | | | | | |
| Name on Survey | | | | | | | | | | | |
| | A | B | C | D | E | F | G | H | K | | |
| Alaska | | | (for title) | | | | | | | 1 | |
| Bristol Bay | | | " | " | | | | | | 2 | |
| | | | | | | | | | | 3 | |
| Naknek River | | | | | | | | | USGB | 4 | |
| Cape Suworof | | | | | | | | | " | 5 | |
| Naknek | | | | | | | | | " | 6 | |
| The Hole | | | | | | | | | | 7 | |
| South Naknek | | | | | | | | | USGB | 8 | |
| Boat Creek | | | | | | | | | | 9 | |
| Coffee Point | | | | | | | | | | 10 | |
| Pacific Creek | | | | | | | | | | 11 | |
| Morakas Point | | | | | | | | | | 12 | |
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Names underlined in red are approved. 4/13/49 L. Heck

M 234

Names underlined in red are
approved. 4/13/49 L. Heck

NAUTICAL CHARTS BRANCH

SURVEY NO. T-7093

Record of Application to Charts

[illegible]

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.