

7096

Graphic Control

Original

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Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey **GRAPHIC CONTROL**

Field No. **PE-A-47** Office No. **T-7096**

LOCALITY

State **ALASKA**

General locality **BRISTOL BAY**

Locality **KVICHAK RIVER, & Nakeen** Vic. of Koggiung

194 7

CHIEF OF PARTY

R. F. A. STUDDS

LIBRARY & ARCHIVES

DATE **JAN 12 1949**

B-1870-1 (1)

7096

Graphic Control

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.

T7096

Registry No. T-7096

Field No. PF-A-47

Scale 1 : 20,000

State Alaska General locality Bristol Bay

Specific locality Kvichak River, Vicinity of Koggiung and Nakoon

Dates: Survey began 9 July 1947 Completed 11 July 1947

Photography, Supplemented by ground surveys to

Project No. CS-327 Instructions dated 20 June 1946

Vessel ~~Rocky~~ } or PATHFINDER Chief of party R. F. A. STUDDS

Field work by R. C. Darling Office work by R. C. Darling

Final inking by R. C. Darling

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

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

REMARKS Details to be obtained from air photographs.

7096

DESCRIPTIVE REPORT
to accompany

T-7096 (1947)
GRAPHIC CONTROL SHEET PF-A-47

AUTHORITY: This survey was carried out in accordance with the instructions by the director for Project CS-327, dated 20 June 1946.

LOCALITY: Kvichak River, Bristol Bay, Alaska, between Bend Light and Nakeen (Nakat Packing Co.), from Latitude $58^{\circ} 50'$ to Latitude $58^{\circ} 56'$, and from Longitude $156^{\circ} 58'$ to Longitude $157^{\circ} 07'$.

SCALE: 1 : 20,000

GENERAL DESCRIPTION OF AREA: The general shoreline consists of grassy marshes approximately one-half mile in width with the exception of the terrain around Nakeen and Koggiung. The Nakeen settlement is on slightly elevated ground that is covered with tundra and Koggiung is on a series of small tundra covered knolls with a sand bank at the river's edge. There is a strip of sand beach at the foot of this bluff which extends out approximately one-hundred feet where it joins a mud flat. At this junction, the footing is extremely treacherous, acting similar to quicksand. From native information, this characteristic is prevalent at sand and mud junctions.

Inland, there is a gradual increase of elevation of the terrain in the form of rounded hills covered with tundra. At the higher elevations, scattered wooded areas of coniferous and deciduous trees are found. Alder bushes fringe the lakes and streams.

The cannery buildings and tanks at Koggiung, Nakeen and the Diamond "X" are very prominent while navigating into the mouth of the Kvichak River from Kvichak Bay.

Mud flats in this section were of a greater extent than those to the north. However, channels followed both the east and west shores at a relatively close distance and what mud that had to be traversed was of a firmer composition, making accessibility of the shore much easier.

CONTROL: Control for this survey was furnished by the triangulation of J. C. Tribble in 1946 and by the personnel of the Ship PATHFINDER in 1947. The positions are on the North American 1927 datum (unadjusted field computation.)

DETAILS OF SURVEYS: ^{H-7615 & H-7616 (1947)} This is a graphic control sheet for hydro-graphic sheets ^{H-2247}. Standard graphic triangulation methods were employed for locating the signals with a minimum of three cuts in all cases. No traverses were run as there was adequate triangulation control.

The high water line was located with the stadia rod reading in the vicinity of set-ups for proper comparison with the air

photographs. These air photographs are sufficiently clear to leave the rest of the high water line to be delineated there-from. The highwater line was observed throughout at the outer edge of the grass line although in some sections, the marshes are covered with a foot of water at higher high water. This selection was made in accordance with paragraph 43 of page 9 of the topographic manual. The high water line around signal AGO is very irregular, however, the grass patches are very clear on the air photographs for compilation. The low water line was located by the hydrographer.

JUNCTIONS: T-7099(1947) This sheet joins PF-F-47 to the south at Bend Light and RUSS. and PF-B-47 on the north at Nakeen and the A&P.A. Diamond "X" Cannery. The junctions are made at triangulation stations.

MAGNETIC MERIDIAN: The magnetic declination was taken at RUSS and BEND. Measurement shows a difference of two degrees for these stations.

The declinoire used was standardized at the Inglewood, Washington Magnetic Station on 16 April 1947. No correction is necessary.

GEOGRAPHIC NAMES: There will be a separate report submitted on geographic names for this area.

RECOVERABLE TOPOGRAPHIC STATIONS:

GAN - Standard bronze topographic disc.

LANDMARKS FOR CHARTS: There will be a separate report submitted on the landmarks for charts in this area. See Chart Letter 470 (1948)

Respectfully submitted,

Robert C. Darling
Robert C. Darling,
Lieut. (jg) USC&GS
Ship PATHFINDER

Forwarded and Approved:

R. F. A. Studds
R. F. A. Studds, Commander USC&GS
Commanding Officer
Ship PATHFINDER

This graphic control survey has been compared with contemporary hydrographic surveys. No further review by the Hydrographic Surveys Section is necessary at the present time.

J. A. Dinsmore
2/24/49

NAUTICAL CHARTS BRANCH

SURVEY NO. 7096

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.