U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey GRAPHIC CONTROL
Field No. FF-B-47 Office No. T-7097

LOCALITY
State Alaska
General locality Bristol Bay
Locality Kvichak River, Vic. of Kvichak

1947
CHIEF OF PARTY
R. F. A. Studds

LIBRARY & ARCHIVES
DATE Jan. 12, 1949
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.

Registry No. T-7097

Field No. FF-B-47

Scale 1:20,000

State Alaska

General locality Bristol Bay

Specific locality Kvichak River, Vicinity of Kvichak

Dates: Survey began 4 June Completed 12 July 1947

Photography, Supplemented by ground surveys

Project No. CS-327 Instructions dated 20 June 1946

Vessel or PATHFINDER Chief of party R. F. A. STUDDS

Field work by R. G. Darling Office work by R. G. Darling

Final inking by R. G. Darling

Ground elevations in feet above M. H. W.

Tide elevations

Contours

Approximate contours by Planetable Multiplex Interval ft.

Form lines

Remarks Details to be obtained from air photographs.
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 Nakeen (Nakat Packing Co.) and the junction of the Alagnak and Kvichak Rivers, from Latitude 58° 56' to Latitude 59° 01', and from Longitude 156° 50' to Longitude 157° 04'.

SCALE: The scale is 1 : 20,000.

GENERAL DESCRIPTION OF AREA: The general shoreline consists of marshes which extend back from the high water line for approximately one-half of a mile except in the vicinity of Duck Creek Light and the locality of Kvichak. There is a small grass covered bluff at the light and the area in the immediate vicinity of Kvichak consists of tundra. The terrain inshore of the low grassy sections consists of tundra and scattered coniferous and deciduous trees with some wooded sections. There is a gradual increase in the elevations of this terrain in the form of low rounded hills attaining approximately one-hundred feet in height. Alder bushes fringe the numerous streams and lakes. Because of the lowlands around the river, tanks and cannery buildings are very prominent at great distances while navigating the river. A board road runs from the Kvichak Alaska Packing Ass'n. Diamond "J" cannery to their abandoned Diamond "X" cannery. This road has been kept in repair and is still in use. Mud flats extend out into the river from the east and west shorelines during the lower stages of the tide. Traverse of these mud flats during the month of June was comparatively easy due to an ice base. However, from July through the summer, accessibility of the shore was impossible except with a skiff at high water.

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: This is a graphic control sheet for hydrographic sheet #2247. Standard graphic planetable 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 readings. The high water line was located with stadia rods at the set-ups where visibility afforded, with the intention of giving representation of the high water line to enable comparisons.
with the air photographs of this area. These air photographs are sufficiently clear to have the rest of the high water line delineated there-from.

The high water 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 high water. This selection was made in accordance with paragraph 43 of page 9 of the topographic manual. The low-water line was impracticable to locate with the planetable because of difficulty in traversing the mud flats. The system of having the hydrographer do this was found to be far superior with the advantage of the large range of tide. Considerable discomfort was experienced from mosquitoes, gnats, and no see-ems which infest the area throughout the season. Head nets were used but proved cumbersome, hampering work efficiency. Various repellents failed in keeping these swarms of insects off the working party and the topographic sheets.

JUNCTIONS: This sheet joins PP-4-27 on the south at Nakeen and the A.P.A. Diamond "X" Cannery, and PP-U-47 on the north at triangulation stations WOG and TAK. The junctions are made at triangulation stations.

MAGNETIC DECLINATION: The magnetic meridian was taken at WOG. A magnetometer observation at station KOGGIUNG showed a disagreement with this declinatore reading. The two results as compared with other observations in the area showed the possibility of local attraction in the vicinity of WOG. A magnetometer observation at WOG was in agreement with that of the declinatore which could possibly verify this assumption. The declinatore 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:

TOY twin red elevated wooden water tanks
BIG four elevated wooden water tanks (green)
MUG West gable of silver hungar
All of the above are described on Form 524

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,
Lieut. (jg) USC&GS
Ship PATHFINDER

Forwarded and Approved:

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

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

F. A. Dunsmore
3/22/49
### Record of Application to Charts

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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.