

# FE73

# FE73

Diagram No. 8802-3

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SERVICE

## DESCRIPTIVE REPORT

Type of Survey ... Field Examination .....

Field No. ....

Registry No. .... FE-73 .....

### LOCALITY

State ..... Alaska .....

General Locality .. Bristol Bay .....

Sublocality ..... Kvichak Bay to Amak Island .....

1948

CHIEF OF PARTY

R.F.A. Studds .....

### LIBRARY & ARCHIVES

DATE ..... January 18, 1949 .....

☆U.S. GOV. PRINTING OFFICE: 1985-566-054

NOTE: A new system for registering Field Examinations (FE's) was established in 1980. All FE's are now consecutively numbered as shown hereon. The date shown in the new format is the actual date of survey. This material was previously registered as:

FE No.10, 1948



# FE No. 10 1948

FE - 73

Diag'd. on Diag. ch't. No. - 8802-3

Form 504

U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Reconnaissance Lines

Field No. .... Office No. FE No. 10, 1948

### LOCALITY

State Alaska

General locality Bristol Bay

Locality Kvichak Bay to Amak Island

1948

CHIEF OF PARTY

R.F.A. STUDDS

LIBRARY & ARCHIVES

DATE JAN 18 1948

B-1870-1 (1)

FE No. 10  
1948



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. F.E. No. 10 1948

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER No. ....

Field No. ....

Reconnaissance Line 1948 field season.

State Alaska

General locality Bristol Bay

Locality Kvichak Bay to Amak Island

Scale Chart-Section 8802 (attached) Date of survey 19 June 1948 to 1 Sept. 1948

Instructions dated .....

Vessel U.S.C.&G.S. Ship PATHFINDER

Chief of party R. F. A. STUDDS

Surveyed by Ship's Personnel

Soundings taken by fathometer, graphic recorder, hand lead, wire NJ-3

Plotted ~~reduced~~ by E. C. BAUM

Soundings ~~reduced~~ inked by E. C. BAUM

Soundings in fathoms ~~feet~~ at MLLW MLLW

REMARKS: Reduced sounding based on predicted tides Port Moller, Alaska,  
Pacific Coast Tide Tables 1948

DESCRIPTIVE REPORT TO ACCOMPANY  
RECONNAISSANCE SOUNDING LINES  
KVICHAK BAY TO AMAK ISLAND  
BRISTOL BAY, ALASKA  
1948

U.S.C.&G.S. Ship PATHFINDER, R.F.A. STUDDS, Commanding

The attached section of Chart 8802 shows reconnaissance lines run during the 1948 field season on refueling trips to Dutch Harbor. ✓

The lines were spaced in accordance with photostatic chart-section 8802 designated FE No. 5 (1947) as furnished this command during May 1948. ✓

CONTROL

The ends of reconnaissance lines were fixed in position by successive pelorus-gyro bearings with radar distances or sextant positions plotted on boat sheets. The spacing of intermediate positions were controlled by adjusted revolution counter readings, log readings, and supplemented by loran 1-L-2 line-of-positions as indicated. ✓


SOUNDING

Depths were graphically recorded by the NJ-3 fathometer No. 22. Soundings were reduced for tides only, based on the predicted tides at Port Moller, Alaska as obtained from the Pacific Coast Tide Tables. ✓


RECORDS SUBMITTED

1 each - Section Chart 8802  
1 each - Volume Sounding, Form 275  
No photographs

Respectfully Submitted

  
EDWIN C. BAUM  
Lt.Comdr., C&GS

APPROVED & FORWARDED:

  
ROBERT W. KNOX  
Commander, C&GS  
C.O. Ship PATHFINDER



TIDE NOTE FOR HYDROGRAPHIC SHEET

Division of Hydrography and Topography: February 14, 1949

Division of Charts: R.H. Carstens

Plane of reference approved in  
1 volumes of sounding records for 1948, 1949

HYDROGRAPHIC SHEET No  
FE NO. 10 1948

Locality BRISTOL BAY, ALASKA

Chief of Party: R.F.A. Studts in 1948  
Plane of reference is Mean lower low water  
ft. on tide staff at  
ft. below B. M.

NOTE: Tide reducers were computed and checked by means of tide predictions  
at Fort Moller.

Condition of records satisfactory except as noted below:

*E.C. McKay*  
*Section*  
Chief, ~~Division of Tides and Currents.~~



Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. F.E. No. 10 1948

Records accompanying survey:

*Section of Chart 8602 attached*

Boat sheets .....; sounding vols. 1.....; wire drag vols. ....;  
bomb vols. ....; graphic recorder rolls *No*.....;  
special reports, etc. ....  
.....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	.....	134
Number of positions checked	.....	17
Number of positions revised	.....	-
Number of soundings revised (refers to depth only)	.....	10
Number of soundings erroneously spaced	.....	-
Number of signals erroneously plotted or transferred	.....	-
Topographic details	Time	.....
Junctions	Time	.....
Verification of soundings from graphic record	Time	.....

Verification by... *W. Evans* ..... Total time *14 hrs.* Date *7 April 1949*

Reviewed by... *J. Jordan* ..... Time *2 hrs.* Date *1 Feb 1950*



REVIEW OF F.E. NO. 10, 1948

These reconnaissance soundings furnish hydrographic information in a previously unsurveyed area on Chart 8802. The soundings are uncorrected and are reduced from predicted tides. They were obtained on dead-reckoning lines, the control for which is discussed in the Descriptive Report.

No critical depths were revealed on the lines, and none were previously charted on the courses run.

The soundings obtained in the vicinity of the lines which were run on F.E. No. 5, 1947 do not justify an evaluation of bottom conditions. A few differences of 4 to 10 fm. in 20-to 40-fm. depths, respectively, are considered to be due to inaccuracies. Further consideration is unwarranted until basic surveys of the area are made.

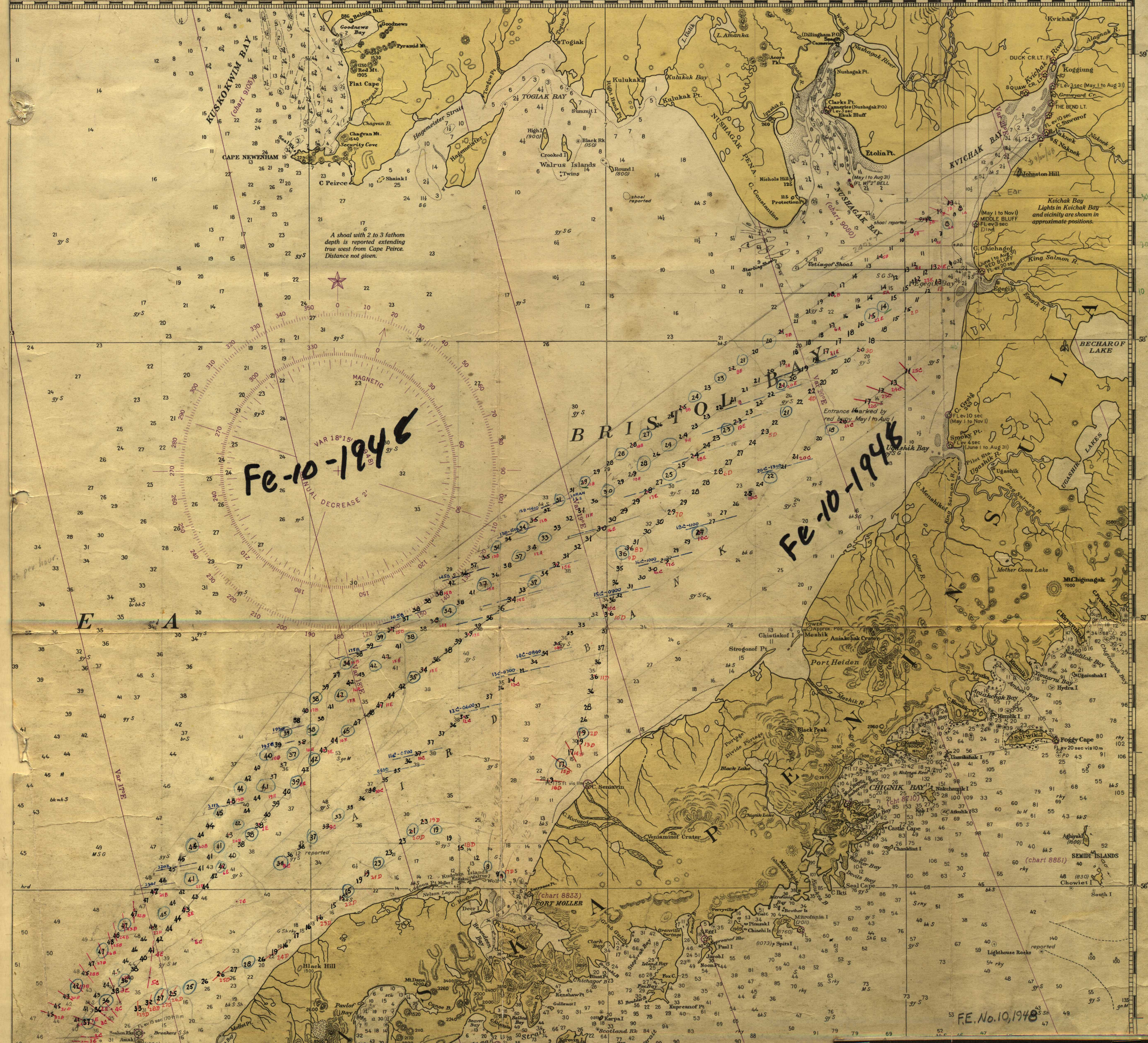
This field examination was applied to Chart 8802, dated No. 7, 1949, before verification. A comparison with that chart shows that no revisions in charted soundings is necessary.

Feb. 1, 1950

G. F. Jordan

Approved by: R. H. Carstens





Fe-10-1946  
VAR 18° 15' N  
ANNUAL DECREASE 2'

Fe-10-1946

FE. No. 10, 1946

(Alaska Peninsula etc.) U.S.C. & G.S. 8802



