4923

Diag. Cht. No. 8502- & 8556

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

....., *Director*

G. & G. SURVEY
L. & A.
NOV 7 - 1929
Acc. No.

State: Alaska

DESCRIPTIVE REPORT

~~*Topographic*~~ / *Hydrographic* } *Sheet No.* 4923

LOCALITY

Kodiak Island

Western Entrance to

Kupreanof Strait

1929

CHIEF OF PARTY

R.R. Lukens

GOVERNMENT PRINTING OFFICE

4923

DESCRIPTIVE REPORT

HYDROGRAPHIC SHEET No 8 4923

RASPBERRY CAPE

S.W. ALASKA

Str. SURVEYOR R.R.LUKENS, Cmdg.

Scale 1:20,000

1929

DESCRIPTIVE REPORT

Hydrographic Sheet # 8

Str. SURVEYOR R.R.LUKENS, Comdg.

Scale 1/20000

1929

Authority The work executed on this sheet was done in accordance with Instructions dated March 14,1929.

Limits The sheet covers work done in two localities on opposite sides of the west end of Kupreanof Strait, West side of Kodiak Id.

(1) The inshore hydrography extending from a half mile east of Raspberry Cape around that cape a distance of about four miles northward to the bay bordering the prominent valley west of Onion Bay. The soundings extend from the beach to about a mile offshore joining previously executed work off Raspberry Cape and reaching to the 50 fm. curve in the area north of the Cape.

(2) Inshore soundings on the south side of Kupreanof Strait from Cape Uganik eastward about two miles to Triangulation Station SPLIT. This work was done as a fill-in job to delineate depth fathom curves which were uncertain on work of 20 years previous.

In general the lines on both (1) and (2) were spaced 300 meters apart with split lines for development of shoal areas discovered.

Control Signals for area (1) were provided by plane-table topography based on triangulation stations, the beach being traversed from △ Raz to △ End, and adjusted. The signals for area (2) were located by triangulation cuts from △ Raz, △ Malina2, △ Pov and △ Split; these were plotted graphically on the topographic sheet and transferred to the hydrographic sheet. The intersections were in all cases strong.

Tide Gauge Tide data obtained at the Uyak portable gauge were used without adjustment throughout this work.

Methods All the sounding was done with the motor sailer (launch) the usual methods being employed. Few ranges were available and the lines in general were run by courses. As the compass in this launch was very unstable, the courses were not recorded in the sounding record; rather were the lines run by obtaining the general direction of the line

assisted by such ranges as were available and allowing for current. The 12# hand lead was used to about 10 fm. at slow speed; beyond 10 fm. the 20# machine lead after bringing the launch to a full stop. A power driven sounding machine was used.

Dangers No dangers of great consequence were found in either area. An extensive area about a mile north of Raspberry Cape was sounded with close lines and proved to be a comparatively flat, rocky ledge with least depth of 5 fm. about ½ mile offshore. Early in the season kelp was seen on this area; later on most of it disappeared.

There are no important dangers off Raspberry Cape, the ten fathom curve lying about one fourth mile off the point. In other parts of area (1) the bottom drops off regularly. Two fish traps are operated in area (1) being respectively 2½ miles and 3½ miles north of Raspberry Cape at the south end of prominent bights.

The beach line is rugged and rocky and covered with large boulders broken off from the cliffs above. It was consequently dangerous to approach very close inshore.

In area (2) no dangers were found. This beach is rocky and rugged but the depth curves are regular. The shoal off △ Split was known and developed on an earlier survey.

Prominent Objects In the area (1) there are no outstanding objects. In area (2) Cape Uganik Light is a prominent mark in locality much used by commercial boats.

The rocky island upon which △ Split is located is bluff and distinctive but, in an area of no great importance.

Respectfully submitted,

C. A. Egner

C. A. EGNER, H.&G.E.

approved
R. R. Lukens

Note by the Chief of Party.

Hydrographic Sheet #8

This sheet joins sheet #2960 at Raspberry Cape and continues northward to Driver Bay which is the northern limit of the 1929 season.

This section of Kodiak Island was covered with 3 or 4 feet of volcanic ash at the time of the Katmai erruption in 1912, and in most places which looks like fine yellow sand, it came up on the lead. While it appears like sand, it is very light in weight. One can hold up a shovel full of it with one hand.

From Raspberry Cape northward, the shores are very bold and rocky with many rocks fringing the beach to a distance of 100 to 200 yards. Due to these rocks it is very difficult to make a landing except in very smooth weather.

The two fish traps shown are re-driven each year. The piling is usually pulled at the end of the season.

From Split Point to Cape Uganik, the work on this sheet fills in the blank places on sheet #2960.

DRIVER BAY This name is applied by the field party to the bight 3½ miles northeast from Raspberry Cape. Pile drivers and launches frequently seek shelter here when working at the traps. It affords fair shelter in both northeast and southwest weather.

PINNACLE ROCKS In the entrance to Driver Bay there are two prominent pinnacle rocks, the outer one (⊙ Pint) being about 60 feet high and the inner one being 46 feet high (⊙ Rock). The 60-foot rock shows up prominently from off Raspberry Cape.

A photograph of Raspberry Cape is attached to the topographic sheet (Descriptive report) T.4451.

Respectfully submitted,

R.R. Lukens

R.R.Lukens.

Note by the Chief of Party.

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A photograph of Raspberry Cape is attached to the topographic sheet (Descriptive report) T.4451.

Respectfully submitted,

R. R. Lukens

R.R.Lukens.

L I S T O F S I G N A L S.

to accompany Hydrographic Sheet No. 8

UP	Topo Sheet E. (1929)
END	Triang. Station 1929
ON	Topo Sheet E.
ROCK	Topo Sheet E.
MID	Topo Sheet E.
PINT	" " "
PRO	" " "
EAT	" " "
BUN	" " "
CAB	" " "
PIN	" " "
LIP	" " "
PILE	" " "
AT	" " "
RAP	" " " Marked
PEG	" " "
TOP	" " "
TO	" " "
GIN	" " "
BE	" " "
LOW	" " "
RAZ	Triang.Station 1929

GOT	Topo Sheet E.
HAM	" " "
$MALINA_2$	Triang. "Sta." 1929
SPLIT	" " 1908
BIT	Topo Sheet E.
MO	" " "
TIB	" " "
AN	" " "
IKE	" " "
DO	" " "
IF	" " "
BY	" " "
SPOT	" " "
OR	" " "
EL	" " "
AL	" " "
UP	" " "
TENT	" " "
CAPE UGANIK (GAN)	Triang Sta. 1908
PAR	Topo Sheet E.

ecm

Section of Field Records.

January 24, 1930.

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in volumes of sounding records for

HYDROGRAPHIC SHEET 4925

Locality: Western Entrance Unpronof Strait, Alaska.

Chief of Party: R. R. Lukens in 1929
Plane of reference is mean lower low water, reading 2.4 ft. on tide staff at Cyak ft. below B. M.

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

Paul C. Whitney

Chief, Division of Tides and Currents.

Section of Field Records

Report on sheet No. 4923

Surveyed in 1929 Instructions dated 3/14/29

Chief of Party - R. P. Sukens

Surveyed by - R. P. Sukens - C. A. Egner

Protracted by - N. F. Garber

Soundings plotted by - N. F. Garber

Verified and inked by - J. N. Church

1. The records conform to the requirements of the General Instructions, except that it is evident that difficulty was had in keeping the correct time, and there are not any notes relating to this difficulty.

2. The plan and character of the development fulfil the requirements of the General Instructions

3. The usual depth curves can be completely drawn within the limits of the survey.

4. The field plotting was completed to the extent prescribed in the General Instructions.

5. The office draftsman had to replot many of the soundings due to the fact that the proper spacing as to time was not adhered to in the field plotting

6. The junction of this sheet with H-4934 is satisfactory, the other contemporary adjacent sheets have not been verified at

H.-4823 Cont'd.

this time

March 12, 1930
Respectfully submitted
J. M. Chubb

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO No. 11-DRM

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON March 21, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4923

Western Entrance to Kupreanof Strait, Alaska

Surveyed in 1929

Instructions dated March 14, 1929 (SURVEYOR)

Chief of Party, R. R. Lukens

Surveyed by R. R. L. and C. A. Egner

Protracted and soundings plotted by H. F. Garber

Verified and inked by J. H. Church.

1. The records conform to the requirements of the Hydrographic Manual.

2. The plan and character of the survey satisfy the specific instructions.

3. The usual depth curves could be drawn.

4. The field plotting was completed to the extent prescribed in the Hydrographic Manual with the exception that the time intervals were not always adhered to in the spacing of soundings (see verifier's report).

5. The junction with H. 4934 is satisfactory.

   The junction with the contemporary offshore sheet will be taken up when that sheet is reviewed.

6. Note to Cartographer:

   A comparison has been made with the survey of 1908 (H. 2960) and a generally good agreement was found. The two sheets can therefore supplement each other. Particular attention is called to the need for using the shoal soundings from the old survey even though the new work shows a fairly complete development. There are a few soundings on the old survey around Raspberry Cape outside the 20 fathom curve that appears too deep. These can be omitted since the new work is quite adequate here.

7. No additional hydrographic work will be called for, within the limits of this survey. The comparatively broken area about 1 mile north of Raspberry Cape might have been developed a little closer. An examination with drift lines over the 27 and 30 foot soundings (from H. 2960) on the shoal area off Δ Split would have also been desirable. The area here is lumpy and the old records contain no indication of any further examination having been made than what is shown by the regular system of lines. The shoal presents a real menace in rounding Cape Uganik.

   To satisfactorily complete the survey in this vicinity it is recommended that a wire drag be carried around Raspberry Cape from the 20 fathom curve to as close inshore as practicable and from the eastern limit of this survey in the vicinity of the cape to about 1 1/2 miles north of the cape. In addition to this the shoal area off Δ Split should be dragged to an adequate depth as well as the shoal area about 2 1/2 miles north of Δ Split (see H. 2960).

8. Reviewed by A. L. Shalowitz, March 1930.

Approved:

A. M. Sabieralski
Chief, Section of Field Records (Charts)

F. S. Borden
Chief, Section of Field Work (H. & T.)

Form 537
11—6812

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

C. & G. SURVEY
L. & A
NOV 7 1929
Acc. No.

REG. NO. 4923

HYDROGRAPHIC TITLE SHEET

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

Field No. 8

REGISTER NO. 4923

State ~~S. E.~~ ALASKA

General locality Kodiak Island

Locality Western Entrance to Kupreanof Strait

Scale 1 : 20,000 Date of survey JUNE - JULY, 1929

Vessel Str. SURVEYOR

Chief of Party R.R. LUKENS

Surveyed by R.R.LUKENS & C. A. EGNER

Protracted by H.F.GARBER

Soundings penciled by H.F.GARBER

Soundings in fathoms ~~feet~~

Plane of reference M. L. L. W. at UYAK

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated MARCH 14, 1929

Remarks:

GPO

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO No. 11-DBM

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

March 21, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4923

Western Entrance to Kupreanof Strait, Alaska

Surveyed in 1929

Instructions dated March 14, 1929 (SURVEYOR)

Chief of Party, R. R. Lukens

Surveyed by R. R. L. and C. A. Egner

Protracted and soundings plotted by H. F. Garber

Verified and inked by J. H. Church.

1. The records conform to the requirements of the Hydrographic Manual.

2. The plan and character of the survey satisfy the specific instructions.

3. The usual depth curves could be drawn.

4. The field plotting was completed to the extent prescribed in the Hydrographic Manual with the exception that the time intervals were not always adhered to in the spacing of soundings (see verifier's report).

5. The junction with H. 4934 is satisfactory.

   The junction with the contemporary offshore sheet will be taken up when that sheet is reviewed.

6. <u>Note to Cartographer</u>:

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8. Reviewed by A. L. Shalowitz, March 1930.

Approved:

Chief, Section of Field Records (Charts)

Chief, Section of Field Work (H. & T.)

Applied to Charts Nos.

8570

8534 (1935), 1:80,000, by James W. McGuire.