

6921

Diag. Ch. No. 8862

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. B-43 PROJECT CS-218 Office No. T-6921

LOCALITY

State Alaska - Aleutian Is.

General locality Atka Id. & Vicinity

Vicinity of
Locality Bechevin Bay & Vicinity

1943

CHIEF OF PARTY

L. C. WILDER

LIBRARY & ARCHIVES

DATE October 10, 1944

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

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

Field No. B-43

REGISTER NO. T-6921

State Alaska - Aleutian Is.

General locality North Coast of Atka I.

Locality Vicinity of Bechevin Bay and vicinity

Scale 1:20,000 Date of survey July-August, 1943

Vessel Ship SURVEYOR

Chief of party Casper M. Durgin & L. C. Wilder

Surveyed by Howard S. Cole & M. T. Paulson

Inked by Howard S. Cole

Heights in feet above Mean high water to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated April 16, 19 43

Remarks:

DESCRIPTIVE REPORT

To Accompany

TOPOGRAPHIC SHEET T 6921

BECHEVIN BAY AND VICINITY

ATKA ISLAND, ALASKA

SHIP SURVEYOR

L. C. WILDER, COMDG.

AUTHORITY

Instructions dated April 16, 1943, Project CS-218.

CONTROL

Triangulation of 1943 along N. Coast Atka Island furnished the basic control. The datum used on this sheet is Atka 1934.

METHODS

Signals BE, FOG, MER, TIN, AD, and ROOK were located by computing cuts taken during the course of the triangulation. SADE was not located by triangulation until after the topography was nearly completed. Graphic triangulation was used to locate the other signals except as noted. The shoreline and signals between DUO and FOG and BE were located by traverse checked by resection where possible. At the head of Portage Lagoon, a short traverse was used to locate the shoreline.

The topography from signals FOG to BE and from AD southward, for a distance of 500 m. was done by Mr. Paulson and transferred to this sheet.

CLOSING ERRORS

No closing errors in excess of the allowable were noted. The

position of SADE as located by topography agreed very well with the triangulation.

LOCALITY AND GENERAL

The general location of this sheet is along the North Coast of Atka Island, Alaska in the vicinity of Bechevin Bay. Shoreline is in general rough and rocky with a few high cliffs and numerous off-lying rocks and reefs. The largest sand beach in the area is at the head of Bechevin Bay. The foul areas at the entrance to Portage Lagoon and along the shore southwest of Bechevin Point are dangerous to navigation.

Most of the off-lying dangers are close to shore, the exceptions being the rocks in the kelp area at signal BOOK (about 3/4 mile north of Bechevin Point), and the foul areas in and around the entrance to Portage Lagoon.

Bold, rock cliffs, 60 to 100 feet high, are found generally between Portage Lagoon and Bechevin Point. However, at Bechevin Point and vicinity the shoreline rises quickly to about 200 to 250 feet. Inside the lagoon the rock cliffs give way to grassy bluffs about 40 feet high, with a gradual slope to the high summits. The area in the vicinity of signal KINK is low with a beach of small boulders. The narrow entrance to the head of the lagoon is very shallow, and the beach inside the lagoon is generally sand with boulders and an occasional reef. At low water it is difficult to get even a skiff through this passage. The 37-foot knoll near signal CRY is grass covered and prominent.

The foul areas at the entrance to the lagoon are outlined by

^{dashed}
a dotted line on the sheet.

From signal FAN to BLUE the shore is steep and rocky, rising to the summit at signal COL

Between signals BLUE and TED the area directly back of the shoreline is relatively low but cut up with many knolls and small peaks

From GREEN to WHIZ there are generally high cliffs rising quickly to the high summits

The shoreline at the head of Bechevin Bay is sand beach. From GO to about POD, low grassy bluffs about 30 to 40 feet high are found along the shore. A rocky, irregular shoreline begins at signal POD and extends to signal EE. The region from SADE to FISH is particularly steep and rugged.

RECOMMENDED NAMES

It is suggested that the name Portage Lagoon be given to the body of water opposite signal COLE. 814

LANDMARKS

The following prominent natural objects should be charted:

GUSH a prominent waterfall ✓
DAS round-topped summit (1180) ✓
Sharp Black Peak (1470) ✓
COL a high, round-topped peak ✓
The 37 foot knoll near signal CRY ✓

Signal COLE can be charted as the highest portion of the island on which it is located. It is also the highest point in the group.

MAGNETICS

(No. 248)
Declinatoire observations were taken at four locations. The
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values obtained were consistent within about two degrees and approximated the values shown on existing charts by the same amount.

Observed values as scaled from the sheet are as follows:

| | | | | | |
|------|---------|---|-----|---------|---|
| Ted | 11° 45' | E | Yel | 10° 45' | E |
| Rook | 10° 45' | E | Zig | 10° 00' | E |

RECOVERABLE PLANETABLE POSITIONS

The following planetable positions are considered recoverable and descriptions are submitted on Form #524:

| | | | | | |
|------|----------|---------|-----|----------|---------|
| Cole | 52° 03' | 1134 m. | Yel | 52° 02' | 376 m. |
| | 175° 03' | 400 m. | | 175° 07' | 983 m. |
| Zig | 52° 03' | 261 m. | Ted | 52° 02' | 1158 m. |
| | 175° 06' | 644 m. | | 175° 05' | 204 m. |
| Rook | 52° 05' | 1149 m. | | | |
| | 175° 01' | 1010 m. | | | |

* It should be noted that although Station ROOK is mentioned as having been located by triangulation, it must be considered only of topographic accuracy, along with all the other stations listed as having been used in the discussion of Methods.

STATISTICS

18.1 nautical miles of shoreline.

Howard S. Cole

HOWARD S. COLE
Jr. H & G Engr.

APPROVED & FORWARDED:

L. C. WILDER
Commanding Officer

U.S.C. & G.S.S. SURVEYOR

L. C. Wilder

GEOGRAPHIC NAMES

Survey No. T-6921

| Name on Survey | A On Chart No. | B On previous survey No. | C On U. S. quadrangle Maps | D From local information | E On local Maps | F P. O. Guide or Map | G Rand McNally Atlas | H U. S. Light List | K | |
|-------------------------|----------------------|--------------------------------|----------------------------------|--------------------------------|--------------------|-------------------------|-------------------------|-----------------------|---|----|
| <u>Alaska</u> | | (for title) | | | | | | | | 1 |
| <u>Aleutian Islands</u> | | " " | | | | | | | | 2 |
| <u>Atka Island</u> | | | | | | | | USGB | | 3 |
| <u>Bechevin Point</u> | | | | | | | | | | 4 |
| <u>Portage Lagoon</u> | | | | | | | | | | 5 |
| <u>Bechevin Bay</u> | | | | | | | | | | 6 |
| <u>White Point</u> | | | | | | | | | | 7 |
| <u>Bering Sea</u> | | | | | | | | USGB | | 8 |
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Names underlined in red approved
by L. Heck on 8/29/46

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF TOPOGRAPHIC SURVEY

REGISTRY NO. T-6921

FIELD NO. B-43

Alaska - Aleutian Is., Atka I., Vicinity of Bechevin Bay
Surveyed July - August 1943 Scale 1:20,000
Instructions dated April 16, 1943

Plane Table Survey

Aluminum Mounted

Chief of Party - C. M. Durgin and L. C. Wilder
Surveyed by - H. S. Cole and M. T. Paulson
Inked by - H. S. Cole
Reviewed by - R. H. Carstens, August 29, 1946
Inspected by - H. W. Murray

1. Adjoining Surveys

Satisfactory junctions were made with T-6922 (1943) on the west and T-6920 (1943) on the east.

2. Comparison with Prior Surveys

No prior surveys are registered in this area.

3. Comparison with Chart 9137 (Latest print date 1/12/46)

The charted topography originates with the present survey before verification and review. No revision is necessary.

The magnetic meridian observations are within $1\frac{3}{4}^{\circ}$ of the charted values. The Descriptive Report contains no data regarding the standardization of declinatoire No. 248 used on this survey.

4. Condition of Survey

Compliance with requirements of the Topographic Manual is excellent.

5. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

6. Additional Field Work Recommended

This is an excellent survey and no additional work is required.

Examined and Approved:



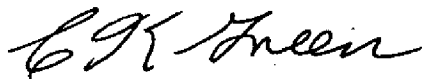
I. E. Rittenburg
Chief, Nautical Chart Branch



C. M. Durgin
Chief, Division of Charts



K. G. Crosby
Chief, Section of Hydrography



C. K. Green
Chief, Division of Coastal
Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. *T6921*

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.