

4806

U. S. COAST & GEODETIC SURVEY
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Form 501
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. PATTON *Director*

State: ALASKA

DESCRIPTIVE REPORT

Topographic
~~Hydrographic~~

Sheet No. "E" 4806

LOCALITY

BOCA de QUADRA

REVILLAGIGEDO CHANNEL

TO MARTEN ARM

S. E. ALASKA

19 33

CHIEF OF PARTY

JACK SENIOR

DESCRIPTIVE REPORT

TO ACCOMPANY

TOPOGRAPHIC SHEET "E"

BOCA DE QUADRA

REVILLAGIGEDO CHANNEL to MARTEN ARM

S. E. ALASKA

- 0 -

JACK SENIOR - CHIEF OF PARTY

SEASON OF 1933

DESCRIPTIVE REPORT
TO ACCOMPANY TOPOGRAPHIC SHEET "E"
BOCA DE QUADRA - S. E. ALASKA

INSTRUCTIONS:

The survey was made in accordance with the instructions of the Director, dated March 16, 1933.

LIMITS:

Boca de Quadra from the entrance to Marten Arm, including Weasel Cove and Badger Bay.

Vixen and Mink Bays, in this area, were surveyed on Field Sheet "G - 1933" on a scale of 1:10,000.

GENERAL DESCRIPTION:

Boca de Quadra, an inlet on the east side of Revillagigedo Channel, has its entrance between Kah Shakes Point and Quadra Point and extends in a general easterly direction.

It has a uniform width of about three-fourths of a mile, with sides steep-to and densely wooded.

Two small islets located in the inlet are the only out-lying dangers.

Kestrel Island, with an elevation of about two feet above M.H.W. is about two hundred meters off the east shore, south of the abandoned cannery and about eight miles above the entrance.

Kite Island, a low wooded island, is about eight hundred meters south-west of Porpoise Point and nine and one-half miles above the entrance.

Weasel Cove, with an entrance about one hundred fifty meters wide, opens on the north side of the inlet about seven miles from the entrance of Boca de Quadra and provides a good anchorage for small vessels.

Badger Bay, on the north side of the inlet, is separated from Weasel Cove by a promontory one-third mile wide. It has a uniform width of about three hundred meters and extends in a northerly direction for about three miles and has a flat extending about one-half mile from the H.W. line at its head.

The entire area is uninhabited. The cannery and wharf one and one-half miles east of Orca Point is abandoned and in ruins and probably will have disappeared in a few years.

Fresh water may be obtained from numerous small streams along the shore line.

METHODS:

The standard survey methods outlined in the Topographic Manual, Special Publication No. 144, were used throughout.

CONTROL:

Adequate control for the topography was furnished by third order triangulation established in 1933. The distance between triangulation stations averaged less than a mile.

A stadia traverse run in two directions between triangulation station "NO" and "WEAS" with azimuths from triangulation station "LUM" to with a half mile of the head, furnished the control for Badger Bay.

TRAVERSE CLOSURES:

The frequency of triangulation stations controlling the topography and the possibilities of three point fixes and resection throughout made the closing errors of traverse negligible.

FORM LINES:

Form lines for the area surveyed are shown on Field Sheet "F - 1933", scale 1:40,000.

MAGNETIC OBSERVATIONS:

Observations with a magnetic declinatoire were made at triangulation station "POINT".

Observations with a compass declinometer were made at triangulation stations "POINT", "EASY", "CEDAR" and "MINK".

COMPARISON WITH PREVIOUS SURVEYS:

Compared with shoreline on hydrographic sheet #2149, surveyed by W. I. Moore in 1892, and topographic sheet #3539 surveyed by J. A. Daniels, 1915.

The delineation of the shoreline in general agrees very well with the shoreline as shown in the survey of 1892.


Apparent discrepancies in the location of the highwater line determining the width of the inlet at different points is probably due to poor control and less attention to relatively unimportant detail in the old survey than was possible in the present survey. This is borne out by a finer agreement between the 1915 survey and the present one. Excellent control and working conditions made possible a detailed survey of the shoreline.

A group of two rocks baring 6 feet at M.L.L.W. are located about 200 meters east of signal "WIL" in the approximate position shown as a 2 fathom shoal in the survey of 1892.

Respectfully submitted,


William F. Malnate,
Jr. H. & G. E., C. & G. S.,

Approved and forwarded:


Jack Senior,
Commanding Officer,
U.S.C. & G.S.S. EXPLORER.

STATISTICS

TOPOGRAPHIC SHEET "E" - 1933

Statute Miles of Shoreline Surveyed 62.2

Number of Hydrographic Stations Located 227

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REG. NO. 4806

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. "E"

REGISTER NO. 4806

State S. E. Alaska

General locality Boca de Quadra *large* *EPR*

Locality Revillagigedo Channel to Marten Arm

Scale 1:20,000 Date of survey Aug. 3 - Sept. 14, 1933

Vessel U.S.C. & G.S.S. EXPLORER

Chief of Party Jack Senior

Surveyed by Henry E. Finnegan & William F. Malnate

Inked by William F. Malnate

Heights in feet above M.H.W. to ground ~~to top of trees~~

Contour, Approximate contour, Form line interval --- feet

Instructions dated March 16, 1933, 19

Remarks:

Applied to drawing (compilation) of reconstructed chart № 8075

S.B.M. 1934

" " " " " new chart № 8053.

S.B.M. Nov. 1934

" " " of chart № 8102

S.B.M. 1934

REVIEW OF TOPOGRAPHIC SURVEY No. 4806

Title (Par. 56) *Boca de Quadra, Alaska*Chief of Party *Jack Senior* Surveyed by *H.E. Finnegan*
W.F. Malnate Inked by *W.F. Malnate*Ship *Explorer* Instructions dated *Mar. 16-1933* Surveyed in *Aug - Sept. 1933*

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.)
2. The character and scope of the survey satisfy the instructions. ✓
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)
See T 4801
5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.)
See T 4801
6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) *None Submitted*
7. ~~High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)~~
8. The representation of low water lines, reefs, ~~coral reefs~~ and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.)
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) *Three rocks were added from T2117 (1892) and four rocks from T3539 (1915)*
10. ~~The span, draw and clearance of bridges are shown. (Par. 16c.)~~
11. Locations and elevations of summits are given. (Par. 19, 51.) *See T 4801*
12. The tree line was shown on mountains. (Par. 16g.) *See T 4801*

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ✓
14. ~~The descriptive report also contains additional information required in aere-topography relative to type of photographs, method of compilation and type of ground control.~~
15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.) *None submitted*
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) *None Submitted*
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) ✓
18. The geographic datum of the sheet is *North American 1927 (Adjusted)* and the reference station is correctly noted. (Par. 34.)
19. Junctions with contemporary surveys are adequate. ✓
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓
21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
22. No additional surveying is recommended. ✓
23. The Chief of Party inspected and approved the sheet and the descriptive report ~~after review by~~
24. Remarks:

Reviewed in office by *Chas. P. Bush Jr* *May 8, 1933*

Examined and approved:

E. K. Green
Chief, Section of Field Records

J. R. Peacock
Chief, Section of Field Work

L. O. Pollock
Chief, Division of Charts

J. H. Hilde
Chief, Division of Hyd. and Top.