DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R.S. PATTON, Director

State: ALASKA

DESCRIPTIVE REPORT

Topographic Sheet No. "F" 4801
Hydrographic (contours)

LOCALITY
East side Ilulissat Channel
Birds Island to Market Bay
Eddihula Point
S.E., ALASKA.

1933.

CHIEF OF PARTY
Jack Senior.
Applied to Compilation drawing for new Chart 8144 (1936).

James W. McIver
DESCRIPTIVE REPORT TO ACCOMPANY,
FORM LINE SHEET "P",

PENINSULA-POINT,
S. E. ALASKA,

1933.

East shore Russelljegde Channel
Boa de Quadra to Yakeat Bay

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JACK SENIOR, CHIEF OF PARTY, C. & G. S.
INSTRUCTIONS:

This work was accomplished in connection with the combined operations covered by the Director's Instructions dated March 16, 1933.

LIMITS AND SCALE:

Latitude 54° 44.5' to 55° 09.5'
Longitude 130° 42.0' to 131° 00.5'

A sheet, on a scale of 1:40,000, was laid out to cover the entire area, of which topographic surveys were to be made during the season of 1933. With the exception of the vicinity of Pearse Canal, all area surveyed by topography during the field season, is covered by this sheet of form lines.

METHODS AND CONTROL:

The greater portion of cuts and elevations were obtained by the use of a sextant. From Cape Fox to Boca de Quadra, a great many cuts were taken from a launch. In all other localities cuts were obtained, almost entirely, by the occupation of triangulation stations, with a sextant. A few stations in Nakat Bay were occupied with a theodolite, for cuts and vertical angles.

With the exception of a few minor points, all elevations shown on this sheet were determined by three or more cuts and vertical angles. Some of the more prominent high peaks were determined from the mean of five to eight cuts.

PLANE OF REFERENCE:

All elevations plotted are to the ground and are referred to Mean High Water.
CORRECTIONS TO OBSERVED ELEVATIONS:

All observed elevations were corrected for curvature and for height of instrument above Mean High Water.

On wooded hill tops the heights of trees were estimated to be sixty feet, which amount was subtracted from the computed elevations.

CHANGES IN 1932 SURVEY:

The south side of Quadra Mountain and a small area south of Boca de Quadra were sketched rather hurriedly, near the end of the 1932 season, by H. E. Finnegan. These same areas were more carefully sketched, by H. E. Finnegan, during the past (1933) season. Therefore the 1933 work should supersede the previous season’s sketching.

Some of the elevations in this area were re-determined this season. The elevations of 1932 which were verified are plotted in blue on the present sheet. A few of the elevations south of South Quadra Mountain, were more accurately determined this past (1933) season and are plotted in red on the present sheet.

SHORELINE:

All shoreline was obtained from the most recent topographic surveys, which include the 1915 survey of Very Inlet, the 1932 survey of the area between Boca de Quadra and Kirk Point, and the 1933 surveys for the rest of the shoreline.

COMPARISON WITH CHART NO. 8075:

FOX HILL AND GREEN RIDGE - The present elevation of these hills are less than the charted elevations by approximately sixty feet, which is the estimated height of the trees. If the charted elevations were not corrected for the height of the tree tops, that fact would account for the difference in the charted and the present elevations.

HARRY SADDLE - The present and the charted elevations differ by one foot only. The present elevation is a mean of six cuts. This ridge is bare.
SHARP MOUNTAIN - Sharp Mountain could not be definitely identified. In this locality there is a wooded ridge, on which there are a few definite knolls. The highest and most definite knoll of this ridge is very sparsely wooded with small scrubby trees and is 1621 feet in elevation.

ROUND HILL - The present elevation of Round Hill, which is heavily wooded, is greater than the charted elevation by 18 feet. The present elevation, which is to the ground, is a mean of five cuts.

ARM MOUNTAIN - The present elevation of Arm Mountain, which has a small bare area, is less than the charted elevation by seven feet. The present elevation is a mean of six cuts.

HIGH MOUNTAIN - The elevation of High Mountain was determined from a mean of eight cuts, and differs by one foot only from the charted elevation. The mountain top is bare.

OTHER HILLS - In general the elevations as determined this year agree closely with the charted elevations, especially in the case of very definite topped hills and peaks. In a few instances where hill tops are indefinite, there is considerable variation. It is recommended that the present elevations be charted, since the heights of hill and peak tops were checked carefully by at least three good cuts, and in many cases by five cuts.

Respectfully submitted,

[Signature]
Henry E. Finnegan
H. & G. Engr.

APPROVED AND FORWARDED:

[Signature]
Jack Senior,
Commanding Officer,
U.S.C. & G.S.S. EXPLORER.
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. "#7" (Contours)

REGISTER NO. 4801

State........................................ S. E. Alaska

General locality..... Dixon Entrance

Locality..... Nakat Bay to Boca de Quads, Kat. Bay

Scale.L:40,000... Date of survey AUGUST to OCTOBER, 1935

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

Chief of Party........Jack Senior

Surveyed by........... Henry E. Finnegan

Inked by............... William F. Malnate

Heights in feet above... M.H.W. to ground in expressions approximately

Contour, Approximately contours, Form line interval 100 feet

Instructions dated........ March 16........................................... 1935

Remarks:..............................................................................
Applied to drawing (compilation) of reconstructed chart No. 8075.  S.B.M. Aug. 1934

Applied to drawing of chart No. 8102.  S.B.M. Sept 1934

No. 8002  S.B.M.

Applied to new compilation, plan of Nador Harbor.
Chart No. 8120.  Oct 30, 1934  Q.H.S.

Applied to drawing (compilation) of new chart No. 8053, April 1935  S.B.M.
REVIEW OF TOPOGRAPHIC SURVEY No. 4801

Title (Par. 56) Dixon Entrance, Alaska

Chief of Party Jack Somor Surveyed by H.E. Finney Inked by W.F. Malnise

Ship Explorer Instructions dated Mar. 7, 1933 Surveyed in Aug. 1, October 1933

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 18, 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, 20.)

4. The amount of vertical control that the Manual specifies for contours-formlines was accomplished. (Par. 18, 19, 20, 21, 22, 23.) ✓

5. The delineation of contours-formlines is satisfactory. (Par. 49, 50.) ✓

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.) See par. 24

9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) See par. 24

10. The span, draw and clearance of bridges are shown. (Par. 16c.)

11. Locations and elevations of summits are given. (Par. 19, 51.) ✓

12. The tree line was shown on mountains. (Par. 16g.) Not shown

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 aero-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 584. (Par. 29, 30, 57, 67 except scaling of LMs and DPs, 68.) 7 cards submitted with T4802.

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.) None shown.

18. The geographic datum of the sheet is North American 1827 (Adj.) and the reference station is correctly noted. (Par. 34.)

19. Junctions with contemporary surveys are adequate. See Par. 24.

20. Geographic names are shown on the sheet and are covered by the descriptive report. (Par. 64, 68k.) None shown. See Par. 24.

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.) The ink of the form lines was very well executed but a poor grade of ink has made them faint and indistinct in places.

22. No additional surveying is recommended.

23. The Chief of Party inspected and approved the sheet and the descriptive report after review.

24. Remarks: shore line, rocks etc. see contemporary sheets T4802 & T4807 and comparison with Chart 8075 is adequately covered in this Descriptive Report.

Reviewed in office by Charles Park J. May 9, 1933

Examined and approved:

C. F. Green

Chief, Section of Field Records

Chief, Division of Hyd. and Top.