

# 4801

U. S. COAST & GEODETIC SURVEY  
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# 4801

Form 504  
Ed. June, 1923

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. PATTON, Director

State: ALASKA

## DESCRIPTIVE REPORT

Topographic  
~~Hydrographic~~

Sheet No. "F" 4801  
(Contours)

LOCALITY

East shore Nevelagade Channel  
Bona de Quasda to Maket Bay  
PENINSULA POINT.

S. E. ALASKA.

1933.

CHIEF OF PARTY

Jack Senior.

Applied to Compilation drawing for new Chart 8141 (1936).  
James W. McGuire.

DESCRIPTIVE REPORT TO ACCOMPANY,

FORM LINE SHEET "F",

PENINSULA POINT,

S. E. ALASKA,

1933.

*East shore Revillagigedo Channel  
Boca de Quadra to Nakat Bay*

- o -

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

DESCRIPTIVE REPORT TO ACCOMPANY

FORM LINE SHEET "F",

PENINSULA POINT,

S. E. ALASKA.

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  $54^{\circ} 44.5'$  to  $55^{\circ} 09.5'$   
Longitude  $130^{\circ} 42.0'$  to  $131^{\circ} 00.5'$

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.

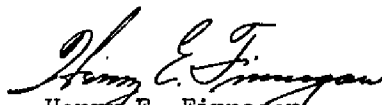
ROUND HILL - The present elevation of Round Hill, which is heavily wooded, is greater than the charted elevation by 18 feet. The present elevation, which is to the ground, is a mean of five cuts.

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.

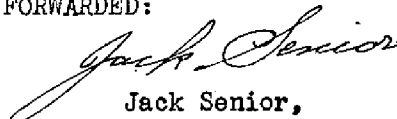
HIGH MOUNTAIN - The elevation of High Mountain was determined from a mean of eight cuts, and differs by one foot only from the charted elevation. The mountain top is bare.

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,

  
Henry E. Finnegan,  
H. & G. Engr.

APPROVED AND FORWARDED:

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

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

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REG. NO. 4801

TOPOGRAPHIC TITLE SHEET

Ass. No.

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. "F" (Contours)

REGISTER NO. 4801

State S. E. Alaska

General locality Dixon Entrance

Locality Nakat Bay to Boca De Quadra, Nakat Bay *Page 875*

Scale 1:40,000 Date of survey AUGUST to OCTOBER, 1923

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 ~~to tops of rocks~~

~~Contours~~, ~~Approximate contours~~, Form line interval 100 feet

Instructions dated March 16, 1923

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 Nakat Harbor.  
Chart no. 8120 Oct. 30, 1934 g.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 Senior* Surveyed by *H.E. Finnegan* Inked by *W.F. Malnate*Ship *Explorer* Instructions dated *Mar 16, 1933* Surveyed in *Aug. to October, 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.) ✓
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. 16a.)~~
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 524. (Par. 29, 30, 57, 67 except scaling of DMs and DP's, 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 1927 (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, 66k.) *None shown. See Par 24*  
*Descriptive Report discusses names of mountains but they are not shown on the sheet.*
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 inking of the form lines was very well executed but a poor grade of ink have made them*
22. No additional surveying is recommended. *faint and indistinct in places*
23. The Chief of Party inspected and approved the sheet and the descriptive report ~~after review by~~

- This survey was made solely for the form lines. For . . .*
24. Remarks: *shore line, rocks etc. see contemporary sheets T4802 to T4807 incl. Comparison with Chart 8075 is adequately covered in this Descriptive Report*

Reviewed in office by *Chas. R. Brook J. May 9-1933*

Examined and approved: *The work on this sheet is of great value in the compilation of the charts of the area. The time and labor required has been amply repaid by the data gathered.*

*E. K. Greer*  
Chief, Section of Field Records

*Frederick L. Pearce*  
Chief, Section of Field Work

*L. D. Pollock*  
Chief, Division of Charts

*G. H. Hude*  
Chief, Division of Hyd. and Top.