

4258

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Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
State: <u>S. E. ALASKA.</u>
11-5613
DESCRIPTIVE REPORT.
<i>Topographic</i> Sheet No. <u>4</u> 4258
LOCALITY:
Baranof Island
PORT HERBERT, DEEP COVE, AND
PATTERSON BAY.
19 <sup>26</sup>
CHIEF OF PARTY:
F. B. T. SIEMS.

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DESCRIPTIVE REPORT  
to accompany  
TOPOGRAPHIC SHEET  
of  
PORT HERBERT, DEEP COVE, AND PATTERSON BAY.

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PORT HERBERT, DEEP COVE, AND PATTERSON BAY.

The survey of Patterson Bay, Deep Cove, and Port Herbert, was made under the Director's instructions dated March 9, 1926. It connects register 4162a on the south and extends north to triangulation station PAT, on Patterson Point.

GENERAL DESCRIPTION OF COAST: Port Herbert is much like Port Lucy; the shores rise abruptly and are densely wooded up to an elevation of about 1800 feet. There are streams on either side at the head of the bay.

The shores of Deep Cove also rise abruptly. There is a broad rocky cliff on the south shore opposite the point or peninsula jutting out near the head of the cove. A stream of considerable size tumbles down at the head of the bay from an elevation of about 300 feet.

The east shore of Patterson Bay is a series of cliffs. Near the head they rise to a height of 800 to 1000 feet with only scattering clumps of stunted trees appearing here and there. The west shore at the head is equally steep but flattens out as it approaches the mouth of the bay. A fair sized stream comes in at the head.

LAND MARKS FOR CHARTS: The appearance of Patterson Point is quite distinctive. It has a rounded moulded appearance and drops abruptly into the water. The second peak of prominence from the point, known as BETH for purposes of offshore hydrography during 1923, has a small dome, suggesting a hat perched thereon. The peak is nearly bare with a mottled appearance due to the light color of the rock and the dark patches of shrubbery.

About a mile south of the entrance to Deep Cove is a small cove known locally as Mist Cove, so named because of the large water fall near its entrance which drops a distance of about 220 feet. This waterfall can be seen across Chatham Strait on clear days but

because of the narrowness of the ravine into which it drops the arc of visibility is only about 15 degrees.

OFF SHORE DANGERS: The very few rocks baring at low tide are relatively unimportant and adequately described on the sheet.

METHOD OF SURVEY: Control was carried into Port Herbert by planetable triangulation supplemented by stadia traverse. The closures were very good. The same method was used in Patterson Bay. A closure of less than ten meters was obtained from triangulation JUNK to BALL, a distance of about three miles. Beyond that, due to the narrowness of the channel, the stadia was relied upon for distance.

Into Deep Cove was carried a scheme of sextant triangulation computed in terms of rectangular coordinates, the system basing one of its axis along the line JUNK - PAT and origin at JUNK. The stations thus plotted in relation to JUNK and PAT were checked by planetable as the topography was being done and checked satisfactorily.

ELEVATIONS: Elevations are given in feet above ordinary high water.

NEW NAMES: The small cove about a mile south of the entrance to Deep Cove is known locally as List Cove. It gets its name from the large waterfall coming down near its head. It is much used by fisherman, particularly trollers.

approved:

*H. Williams*  
Chief of Party

*George A. Nelson*  
George A. Nelson,  
Topographer.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

4258

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U. S. Coast and Geodetic Survey.

Register No. 4258

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

General locality . . Baranof Island . . . . .

Locality . Port Herbert, Deep Cove and Patterson Bay. . . . .

Chief of party . . . . F. B. T. Siems. . . . .

Surveyed by . . . . . George A. Nelson. . . . .

Date of survey . . . September and October 1926. . . . .

Scale . . . . . 1:20,000. . . . .

Heights in feet above Ordinary high water. . . . .

Contour interval . 100 . feet.

Inked by . G.A.N. . . . Lettered by . G.A.N. . . . .

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet . . . . .

Remarks: