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1901

U. S. COAST AND GEODETIC SURVEY.

O. H. Tittmann, Superintendent.

State: *Alaska*

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DESCRIPTIVE REPORT.

Hydrographic Sheet No. 2558^a

LOCALITY:

*White Cove, Lisianski
Strait*

1901.

CHIEF OF PARTY:

J. F. Pratt

2558^a

MAR-5 1902. 105623

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U.S. Coast & Geodetic Survey
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Descriptive Report
of
Hydrography Sheet
of
White Cove,
Lisianski Strait,
Alaska.

1901
Scale 20000

By the
Party under the charge of
J. F. Pratt, Assistant.

U.S.S. Patterson

Shore-line from plane-table survey by J. F. Pratt.
Hydrography by W. G. Appleton, U.S.C.

Operators

W. G. Appleton U.S.C. and F. N. Thompson, Asst. Surg.

Recorder

A. E. Brisson, Ch. Recorder

1901 Dates	Vol.	No of Angles.	No of Soundings.	Width.	
Sept 5	yellowa 1	66	150	2.2	Finish
" 7	" b 1	19	59	1.3	"
		85	209	3.5	1/20

Tides

The tides were observed at Granite Cove and generally showed two highs and two lows each day.

The plane of reference is the Harmonic Plane as carried by water level from Funder Bay through Hornich and Granite Cove and added 1.3 ft. on staff at Granite Cove.

The mean rise and fall is 4.97 ft and the extreme rise and fall is 13.20 ft. The quantities are from the observations at Granite Cove.

Soundings.

All soundings are expressed in fathoms and refer to the Harmonic plane as shown by observations at Granite Cove.

The 0 curve is shown thus black.

The 5 fathoms curve is shown thus ~~~~~ green.

The 10 fathoms curve is shown thus ~~~~~ red.

White Cove.

White Cove is one of several small coves on the western or Yakuti Island side of Lianinaki Strait. It is about $2\frac{1}{2}$ miles from the northern or Cross Sound entrance to the strait. It is 500 yds deep and 250 yds across the center and is well protected from all the usual storms. During the time that the Patterson was moored there, about a month, there were some severe storms which were scarcely felt in the anchorage. However, it is so far out of the usual track of vessels, that it will probably be used very little. Fresh water can be obtained at all times from small streams.

The sounding was done in the dingy, using the hand lead, and at times when work outside was impossible. The soundings show about 9 or 10 fathoms in the center, with a fairly level bottom. The bottom is soft mud and silt, but this may be only a thin deposit on the rock, brought down by the mountain streams.

At the head of the cove and on each side are small sand and gravel beaches. The rest of the shore is loose rock while the eastern part is a cliff about 60 ft. high.

Respectfully submitted

H. F. Flynn ^{Asst. Comd.}
In Chg. of Det. Office

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REPORT
on
HYDROGRAPHIC SHEETS
No. 2558.
Cross Sound,
Entrance to Dundas Bay,
Alaska.
No. 2558a.
Mite Cove,
Lisianski Strait,
Alaska.
No. 2558b.
Inian Cove,
North Inian Pass,
Alaska.
Assistant Pratt.
1901.

"Water levels" from Funter Bay gave a plane about one fathom too low, the record of more than a lutation at Granite Cove (on the working ground) being disregarded.

All soundings were erased from sheets, corrected for tide and replotted.

Junction lines not well chosen and overlap at margins not reconciled. Shoreline, low water mark, etc. transferred from topographic sheets in very careless manner. Not consistent in converting feet into fractions of fathoms.

Position numbers and letters too large and obstruct sounding lines. Sounding figures too large, poorly formed and brown, not black. More soundings should be plotted. No. 2558a should be oriented. The determinations of depth and position are good. The arrangement of sounding lines could have been improved by proper use of boat sheet.

Except error in plane and the general crudeness of the drafting the work is good.

J. T. W. (Signed).