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U. S. COAST AND GEODETIC SURVEY
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U. S. COAST AND GEODETIC SURVEY.

Henry S. Pritchett, Superintendent.

State *Alaska*

DESCRIPTIVE REPORT.

Hydro. & Topog. Sheet No. 2364 2378

LOCALITY:

St. Michael Canal
(Hydrography and
Topography)

1898.

CHIEF OF PARTY:

J. F. Pratt, Assistant

2364
2378

JAN. 19. 1899. 01041

U. S. Coast and Geodetic Survey,
Henry S. Pritchett, Superintendent.

Hydrography and Topography

of

St. Michael Canal,
Alaska.

By the

Party in charge of J. F. Pratt, Assistant.

Begun, July 4, 1898.
Ended, Sep't. 24, 1898.

Scale $1/20\ 000$

Statute miles,

Nautical miles,

Topography,

Planetable surveys by G.H.Pratt, Foreman, and reconnaissance by A.L.Ealdwin, Assistant.

Hydrography,

Observers, A.L.Ealdwin, R.L.Faris, Assistants, H.M.W.Edmonds,
Foreman.

Recorders, G.H.Pratt, G.A.Huntley, Foremen.

Leadsman, M.Erandt, C.B.Oliver, and John Beaurman.

(Title and three pages)

(Two pages of title)

Statistics of Hydrography, St. Michiel Canal Sheet.

Date,	letter	Number of				Vessel,
		vol	angles & positions	soundings	miles statute	
1898.	blue					
July 19	a	1	6	125	2,5	Launch Alpha
" 22	c	1	7	150	3,	" "
" 25	d	1	7	246	5	" "
Sep. 15	q	5	67	1212	24,5	" "
Total	4		87	1733	35,	
Sep. 22	red a	16	46	886	3,	Whaleboat No. 2.
Recapitulation.						
Launch Alpha	4		87	1733	35,	
Whaleboat No. 2	1		46	886	3,	
Grand Total	5		133	2619	38	

St. Michael Canal Sheet, Descriptive Report.

St. Michael Canal.

This sheet covers the St. Michael Canal, from the junction of the two branches, about six miles from St. Michael, (Edge of C. & G.S. Chart No. 9375) to the west end and the shore a little beyond. These long sloughs which separate St. Michael Island from the mainland, have been known by the name of the "Canal" since the Russian days. (Russian. Ka uavok)

Between the junction, the North Branch is about 12,5 miles long and the South Branch about 15,5 miles; with the ends the total length is 19 miles by the North Branch and 22 miles by the South Branch, approximately. The Canal has fair depth but is so narrow and the bends so sharp that navigation is difficult for good sized river boats. It is shoal at both ends the north entrance being rocky, but there is no difficulty in river steamers entering and leaving at high tide. The relation of the Canal to Yukon commerce is referred to in Descriptive Report of Sheet St. Michael to Aphoon Mouth.

The country on both sides is mostly tundra with some swamp and ponds.

Eskimos.

There are Eskimo summer camps at the west end of the Canal and also at the mouth of Kooyak Slough.

Control.

The control of this sheet is the triangulation from St. Michael towards the Delta, the names of the triangulation stations being shown in red.

Topography.

The eastern part of this sheet is the original planetable survey of Foreman, G.H.Pratt, The western part of the Canal and coast is transferred, by Assistant G.R.Putnam, from another planetable sheet by Mr. G. H. Pratt. The Kooyak Slough and that to Esquimaux Triangulation Station have been plotted from sextant positions.

A reconnaissance of the shore line north from Canal Point is shown on the $1/80\ 000$ scale sheet "St. Michael to Aphoon Entrance".

Soundings.

The soundings are in midchannel, as near as it could be judged, the red angle marks are points determined topographically and the blue ones are natural objects on the survey.

Currents.

Near each mouth of the Canal there are in and out-flow tidal currents that, under normal conditions, meet near the middle of each branch, their velocity is comparatively slight and depends upon the amount of rise and fall of the tides.

Narrow portions of the Canal.

After entering the narrow portions of the Canal, there are no rocks or snags encountered and the bottom is soft mud.

A handwritten signature in dark ink, appearing to be 'J. J. ...', written over a horizontal line.

Assistant, Chief of party.

NAUTICAL CHARTS BRANCH

SURVEY NO. H.2364

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
1956	Reconst. 9380	G.H.E.	<i>Edgs. not used on this scale chart</i> Before After Verification and Review <i>27/11/56</i>
			Before After Verification and Review
			Before After Verification and Review
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			Before After Verification and Review
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			Before After Verification and Review

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

NAUTICAL CHARTS BRANCH

SURVEY NO. T.2378

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
			Before After Verification and Review
			Before After Verification and Review
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