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Diag. ch. No. 8551-1

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1908

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

O. H. Fittmann
Superintendent.

C. & G. SURVEY,
LIBRARY AND ARCHIVES.

DEC 15 1908

Acc. No.

State: *Alas.*

DESCRIPTIVE REPORT.

Hydrographic Sheet No. *2970*

LOCALITY:

Prince William Sound.

Arca Bay, from Sheep

Pt. to Observation Id.

1908

CHIEF OF PARTY:

G. J. Rude

2970

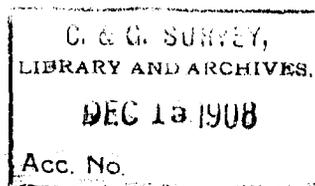
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2970

Department of Commerce and Labor
COAST AND GEODETIC SURVEY



D E S C R I P T I V E R E P O R T

to accompany Hydrographic Sheet

of

Cordova Bay

Prince William Sound

Alaska.

Orca (B. S. N.)

1908.

Gilbert T. Rude,
Chief of Party.

The Hydrography of Deep Water Bay was done in conjunction with the work of Cordova Bay. Along the East side of Deep Water Bay there is a deep channel running along the shore of Observation Island and out into Orca Inlet between this island and Knot Point, shoaling to about 3 1/2 fathoms through Odiak Channel. Along the West side of the bay there is a large shoal extending almost across to Knot Point at that part of the Bay, closing the inner bay as an anchorage to large vessels.

Cordova Bay is important only that Orca and Cordova are located at its head. This bay has a good depth throughout its length, the deepest water found being about 120 fathoms. No work was done on the shoal S.W. of Channel Islands, as this was developed by Asst. Derickson. A rocky ledge was found in mid channel South of the Channel Islands. Lines were

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run very closely over it and 15 fathoms was the least water found.

A rocky ledge was found 1/2 mile N.E. of  Narrows. Lines were run over this but 18 fathoms was the least water found.

One day was spent running sounding lines as close as possible over the shoal S.W. of Hanks Island in an endeavor to locate the spot "P. D". on chart 8520. Not finding the shoal sounding reported, after such close work, a 500 foot wire drag was made from strand sounding wire and operated at a depth of 40 feet from two whale boats. After two or three hours dragging the spot (8 feet) was found. When plotted on the projection it fell between lines of sounding previously run.

Lines were run over Gatherer rock, East of Hanks Island, and two fathoms was the least water found.

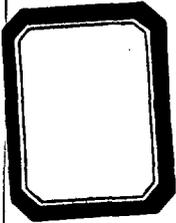
From Capt. Moore of the S.S. "Bertha", it was learned that there is no ice to interfere with vessels in Cordova Bay during the winter months.

Respectfully submitted,

Gilbert J. Rude

Chief of Party.

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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

C. & G. SURVEY,
LIBRARY AND ARCHIVES.
DEC 15 1908
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Superintendent.

State: _____

DESCRIPTIVE REPORT.

Hyd. Sheet No. 2970

LOCALITY:

190

CHIEF OF PARTY:

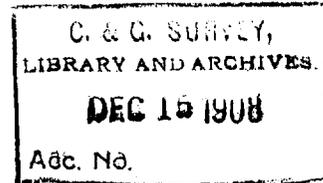
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Department of Commerce and Labor
COAST AND GEODETIC SURVEY



DESCRIPTIVE REPORT
to accompany ^{Hydrographic sheet} Topographic sheet

of

Cordova Bay

Alaska.

Gilbert T. Rude, Asst.

Chief of Party

Topography by

Eoline R. Hand.

The shoreline consists principally of rocky bluffs from five to twenty five feet high, alternating with precipitous cliffs rising in places to over one hundred feet in height, yet there is scarcely any of this shoreline that cannot be traversed at low water; smooth patches of sand beach are frequent as are also streams of water although the latter are quite small.

The contour interval is fifty feet; the country on North side of Cordova Bay is comparatively low, rising gently to an elevation of about nine hundred feet at extreme N.E. end; this is because the North shore is a long, narrow peninsula formed by an arm of Simpson Bay that makes in North of Bomb Pt. apparently as far East as the Channel Ids. For over one mile to the Eastward of Bomb Pt. the land is as smooth as a

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park, almost entirely devoid of timber, and does not rise above fifty feet; the South side is mountainous.

This region is densely wooded with spruce and hemlock, excepting the area noted above and a spot of a few acres between signal Aux and Deepwater Bay.

As the lines indicating Observation Id. and North Id., inked on the projection issued, did not check with frequent cuts taken from mainland it was deemed advisable to re-run these islands, which was done by plane tabling entirely around each.

The party under Asst. Rude ran this shoreline only as far West as Bomb Pt. on North side, and on South side to a point about 800 feet East of triangulation signal "Narrows".



Asst. C. & G. Survey.

Approved:



Asst. C. & G. Survey.

Chief of Party.

Department of Commerce and Labor

Report on Hyd. Sheet 2970.

March 1st, 1909.

The ground on this sheet is very well and uniformly covered and shoal indications developed, except on the shoal southwest of Channel Islands, which was examined in 1906, by Ass't. Derickson. This work was transferred to the sheet and the shoal spot (twelve feet) checked by protracting it.

Lines were run on the shoal south of Hank's Island, in an attempt to find the one and one quarter fathom, Position Doubtful, spot shown on Chart 8520, but failed to bring it out. It was finally located with the drag, about one thousand feet south west of the position charted and fell between three sounding lines. At this point eight feet was gotten and thirteen feet was found further east on Hank's Shoal.

The crossings are good and the work has been carefully done. The records are very well kept, except that positions beginning and ending lines should have been described.

R. L. Johnston
Draftsman

It might have been well to have examined the 130 ft. spot, about two miles west of North Id. as there is a slight indication of a shoal at this point.

The ground between North Id. & Observation Id. is not well covered especially in the vicinity of North Id.

The shoals which were examined, seem to have been carefully developed.

A. L. Simons