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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

O. H. Tittmann Superintendent.

State: *Alaska*

DESCRIPTIVE REPORT.

Hydrographic Sheet No. *3383*

LOCALITY:

Eastern Entrance to Ferry Island

Passage, Prince William Sound

Alaska

Original

1907

CHIEF OF PARTY:

Gilbert T. Rude, Asst.

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Descriptive Report

to accompany Hydrographic Sheet No. 3383.

Eastern Entrance to Perry Island Passage, Prince William Sound,
Alaska.

Steamer TAKU,

Season, 1912.

Gilbert T. Rude, Chief of Party.

Gilbert T. Rude, Hydrographer.

Signals:

All signals with exception of Signals "Last" and "Shoe" are located by triangulation executed by this party and by Assistant Derickson's party in 1912 and 1906, respectively. Signal "Last" was located by sextant angles which are recorded on page 13, Vol. 1 of the sounding record. Signal Shoe was located by plane table on Topographic Sheet No. 3278.

Shoreline:

The shoreline of Axil Lind and Baldheaded Chris Islands was sketched from the hydrographic boat. Numerous tangent cuts were taken and plotted on the sheet at the time to assist the sketching. The south shore of Perry Island was sketched from the bridge of the steamer while running to Latouche for coal. No sextant angles were taken owing to the fact that trips were made to Latouche during bad weather. The steamer was run on the line between triangulation stations and the shoreline sketched while running. The two small bays indenting the south shore were visited by the launch and sketched by the launch party. This work did not delay the party or the work and is much better than the existing chart of that section.

Tide Gauge:

An automatic tide gauge was established in Culross Bay on the north shore of Culross Island with a plain staff and three bench marks in connection. Owing to lack of sufficient seamen for the work no tide observer was detailed for observations while the sounding was in progress. Readings at fifteen minute intervals were scaled from the marigram and recorded in an ordinary tide record book. A continuous tide record was obtained at the Culross Bay station from July 19th to August 25th. A reading of 5.6 feet on the plain staff of 1912 was adopted by the Tidal Division as the datum plane.

Method:

An improved Cosmos sounding machine was used with cylindrical leather belt drive from small steam engine. One of the handles of the machine was replaced by a brass drive wheel about 12" in diameter. The cog gear wheels were interchanged, gearing the drum down to about three to one, thus giving excellent control over the speed of the drum, but still sufficient speed for winding in.

Shoals:

The only shoal water found in the area covered by soundings is north of Lone Island, extending from shore northward about one mile. A few lines of soundings were run over this to define its limits but no further development was made as it was not considered a critical place. Vessels entering Perry Island Passage have a deep and broad channel between this area and the Dutch Group of Islands.

Coastline:

The coastline was described in Descriptive Report of Hydrographic Sheet No. 3408, Perry Island Passage.

Remarks:

This sheet was used in the field as a boat sheet but on account of the fact that there are only a few shoal soundings and that the sheet is in fair condition I would recommend that it be used as a smooth sheet.

The soundings on the sheet were plotted by the sounding party while at work and inked at that time. No reduction for tides has been made.

Respectfully submitted,

Gilbert J. Rude

Assistant, C. & G. Survey.

Statistics for Hydrographic Sheet No 3383.

Date 1912.	Letter	Positions	Soundings	Miles, Stat.	Vessel.
Aug. 21	k	48	48	22.3	TAKU.
" 22	l	20	20	22.2	"
" 23	m	68	68	41.3	"
" 24	n	<u>21</u>	<u>21</u>	<u>7.0</u>	"
		Total 157	157	92.8	