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Diag Cht. No. 8252-1 & 8202-1

Treasury Department  
U. S. COAST AND GEODETIC SURVEY.

*O. N. Latham*  
Superintendent.

State: *Alaska*

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## DESCRIPTIVE REPORT.

*Hydrographic* Sheet No. *2665*

LOCALITY:

*Off Shore Soundings*  
*Sikka Sound to Prince*  
*William Sound*

1903

CHIEF OF PARTY:

*J. F. Pratt, Asst.*

2665

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U. S. Coast and Geodetic Survey  
O. H. Tittmann, Superintendent.

Descriptive Report

Off Shore Soundings

Between

Sitka Sound

and

Prince William Sound

Alaska

Scale 1/600,000

by

The Party under the charge of

J. F. Pratt, Assistant

Commanding U.S.C. & G. Survey S.S. "PATTERSON"

July 27 to September 20

1903.

Statistics  
Off Shore Hydrography  
Sitka Sound to Prince William Sound  
Alaska  
Fifteen days  
between  
July 27 and September 20, 1903.

Number of miles of Soundings	1280
Number of Soundings with Sigsbee Machine	309
Number of Soundings with hand lead	36
Number of Sumner Lines of Position	51
Number of Meridian Positions	12
Average depth, Fathoms	216
Shoalest depth "	6
Deepest " "	1674
Number of Bottom Temperatures	17
Number of Surface Temperatures	19
Number of Samples of Bottom	301
Number of Surface Specific Gravity Determinations	16
" " Bottom " " "	16
Average distance between Soundings, miles	4.0
Maximum " " " "	8.5
Minimum " " " "	1.0

Note; This latter does not include the hand lead soundings.

Descriptive Report  
Deep Sea Sounding Sheet  
Scale 1/600,000

Off Shore Soundings  
between  
Sitka Sound and Knowles Head Prince William Sound  
Alaska

Surveyed by the Party attached to the  
U.S.C. & G. Survey S.S. "PATTERSON"  
between  
July 27 and September 20  
1903.  
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The Deep Sea Work was executed with the Sigsbee Deep Sea Sounding Machine belonging to the equipment of the S.S. "PATTERSON". Thirty-six shoal water soundings plotted on the sheet, were made with the hand lead.

2. The positions at either end of the work and at some intermediate points are from bearings and sextant angles on objects ashore, and are plotted as explained in the note on the "plotting form" of this piece of work.

3. The remaining positions are dependent upon Sumner Lines of Position and Meridian Altitudes.

4. None of the soundings are reduced for tide.

5. The character of the bottom was obtained with a Sigsbee Sounding Rod in deep water and with a Stellwagen Cup in shoal water.

6. The positions of Cape Cross, the three mountain peaks and the shore-line in that immediate vicinity are from a running reconnaissance made by the S.S. "PATTERSON" on July 21, 1903.

7. The face of La Perouse Glacier and the shore-line in its vicinity is cut in from the sounding line running from the vicinity of Cape Spencer to abreast of La Perouse Glacier.

8. The position of the Shore-line from Cape Suckling and Icy Cape is explained in the plotting notes.

9. The positions of Cape St. Elias, the narrow spit (Octoles) to the westward of Cape Suckling and the northerly ends of Kayak and Wingham Islands are from the triangulation executed this season by the "PATTERSON'S" party.

(10) The end of the line in Prince William Sound is determined by sextant angles taken on signals erected and determined by Ass't Ritter; and their positions were kindly furnished by him.

(11) The soundings on published chart No. 8,000 are more or less scattered and in running these lines of soundings an effort was made to run them between, as much as practicable, and therefore avoid duplicating work. The shape of some of the lines between Yakutat Bay and Cape St. Elias is due to weather conditions, which at times were very unfavorable.

(12) The records and computations pertaining to this sheet comprise the following:

- Two Volumes Deck Records, in duplicate
- One Caher observations and computations of 51 Sumner Lines  
of Position, in duplicate
- One Caher observations and computations of 12 Meridian  
Positions, in duplicate
- One Caher observations and reductions of 32 Sea Water  
Densities, in duplicate
- One Caher "Plotting Form", with ship's compass deviation  
diagram and tracing of terminal points in Prince William  
Sound
- One Caher "General Record" of soundings.

~~J. W. ...~~

Assistant, U.S.C. & G. Survey,  
Commanding.

Report  
on  
Hydrographic Sheet  
No. 2665.  
Southeast Alaska,  
Sitka Sound to Prince William Sound,  
Assistant Pratt,  
1903.

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The lines of soundings on this sheet were first laid down on a copy of a chart of the same locality and after adjustment were transferred to or plotted on this sheet. The chart used as a boat sheet was not sent to the Office, therefore the plotting notes were accepted as being correct. The position of all changes in course and soundings were verified.

F. C. Donn. (Signed).

Department of Commerce and Labor

Sheet No 2665

Off shore edge of the P.M. Id.

no of miles of Soundings	1280
" " Soundings	345
" " Positions	12

The lines of soundings on this sheet were first laid down ~~of~~ a copy of a chart of the same locality and after adjustment was transferred to or plotted on this sheet. The chart used as a base sheet was not sent to the office. Therefore the plotting notes have been accepted as being correct.

The position of  
all changes in course <sup>and soundings</sup> were verified by F.C. Dorn.