## 

Plag-Cht. No 6002-2					
Form 504					
U. S. COAST AND GEODETIC SURVEY					
DEPARTMENT OF COMMERCE					
DESCRIPTIVE REPORT					
Type of Survey Lydiographic					
Type of Survey States and age of Survey					
Field No. Office No. Office No.					
LOCALITY					
State Vashington					
General locality hours Harbor					
Locality South Channel					
Slean Bluff to it's					
Western 194/ Entrance					
CHIEF OF PARTY					
9.7 Rudo					
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LIBRARY & ARCHIVES					
DATE					
B:1870:1 (1)+					



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	DESCRIPTIV
<b>ာ</b>	Hydrograph
	LOCA
Ç	South Cha Steams 13 le
CV I	Western en
	Grays Han
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asbariment of Commistre and Manne	l
COAST AND GEODETIC SURVEY	
C.H. Tittmann Superintendens	
State: Washington	
DESCRIPTIVE REPORT.	
Hydrographic sheet No. # 32	29
LOCALITY:	
South Channel from	
Steams Bluff, to its	
Western suttance	
Grays Hander	
1961	
CHIEF OF PARTY:	

Descriptive report to accompany

Hydrographic Sheet No. X 3229.

Inglant and anchore

South Channel from Stearns Bluff to its western entrance, Grays Hbr. Was
C.& G.S.Stmr. "McArthur".

February & March, 1911.

Gilbert T.Rude, Assistant

Henry Bernhardt, Mate

Chief of Party,

Hydrographer

The hydrography on this sheet covers the South Channel from Stearns Bluff to the western entrance. Lines were run principally acress channel from 100 to 200 metres apart, extending in on flats bordering the channel on the north and south sides. A few lines about 200 metres apart were also run with the trend of channel. The channel en this stretch is ef varying bettem.mestly (seft) mud and sand, and is unmarked on either side, making it difficult without local knowledge to keep the channel when flats are covered at about half tide. The flats are quite extensive on the south side of the channel, jutting out from the shere line more than I mile in places. On the neth side, separating the nerth and south channels, the flats are narrewer. The currents run strong in channel (the ebb stronger than the fleed) and with the wind in eppesite direction. a rough tumulteus sea picks up in a shert time. The ship's whalebeat was used for this work (a suitable launch could not be procured) and some difficulty was experienced running lines ewing to the set of currents and choppy sea, and during frequent smeky and thick weather to seeing of signals for positions was at times difficult. The tides were observed on the tide staff connected with automatic gauge at Westpert. Whenever weather conditions became unfavorable for work in south channel, the sounding was continued into South Bay on the

same day, and Defere Sheet C. covering that part was projected, with the result that hydrography done on same day will show on both sheets Nes. B.& C.in a few instances. Soundings were taken at twenty secends intervals.

Gelbert J. Ruse, Assistant Herry Gernhardt, Nate
Chief of Party Hydrographer

## Statistics for Hydrographic Sheet B.

	Date			Day		Statute Miles of Sounding	No of Sounding	No of Positions
	Peb.	15th,	1911.	j	Whaleboat		22	2
	ļſ	18th,	11	k	47	9.6	498	56
•	н	20th,	**	1	11	2.6	107	13
	Ħ	27th,	tt	o	19	6.7	381	35
	Ħ	28th,	**	p	11	9.0	385	<b>4</b> 2
	Marci	ı lst,	11	ð	**	3.4	188	22
	н	2nd	h .	r	11	13.0	759 -	81
	n	3rd	17	ន	• • • • • • • • • • • • • • • • • • •	12.1	729	59
	10	7th	11	u	u u	7.3	593	52
	ıŧ	8th	17	¥	н	3.8	256	23
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The area covered by this source is well leveloped.

The needle as char and well high.

Allimon

Verified;

Sept. 19, 1911.

P.L. Johnston