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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: *Alaska*

DESCRIPTIVE REPORT.

Sheet No.

LOCALITY:

*Nushagak Bay - Eastern
Part.*

190

CHIEF OF PARTY:

H. C. Librell

3178 a Hyd. 3178 a

DEPARTMENT OF COMMERCE AND LABOR

Coast and Geodetic Survey

O.H. Tittmann, Sup't.

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Additional Data for
Hydrographic Sheet No. 3178

~~(Field Sheet No.)~~

Nushagak Bay, Eastern Part

ALASKA

Steamer EXPLORER

Walter C. Dibrell, Assistant, Chief of Party

Begun: ... Sept. 12, 1910

Completed: " 16, 1910

Scale 1 - 20 000

Hydrography in charge of: A. R. Hunter, W. O.

~~Projection by S. W. Tay, Ass't.~~

~~Positions plotted by A. R. Hunter, W. O.~~

~~Soundings " " A. R. Hunter, W. O.~~

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3178a

OBSERVERS:

A. R. Hunter, W. O., in charge
R. R. Lukens, Aid

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H. Olsen, Writer 2nd class

LEADSMEN:

Emil Moen, Quartermaster 1st class
John G. Hanson, " 2nd class

TIDE OBSERVERS:

Ed. Callaway, Seaman
Alfred Pedersen, "

Tides observed at Clark Point, Alaska

STATISTICS

Date	Vol.	Let.	Stat. Miles	Sdg's.	Angles	Boat
Sept. 10	7	n	6.0	140	60	Launch # 38
Sept. 12	7	o	9.0	248	98	Launch # 38
" 16	7	p	3.5	129	62	" " "
3	1	3	18.5	517	220	

Area = 1.3 sq.mi.

DESCRIPTIVE REPORT TO ACCOMPANY ADDITIONAL DATA FOR
HYDROGRAPHIC SHEET # 3178, ^aNUSHAGAK BAY, ALASKA, EASTERN PART.
SCALE 1 - 20 000.

Before closing the field work of 1910 in Nushagak Bay some additional lines of soundings were run across the critical part of the eastern channel between one and two miles southward of Ekuk Bluff. This area was covered by the hydrographic work of 1909, but the smooth plotting was not completed until after the party had left the locality. An inspection of the finished sheet indicated the need of additional soundings in this particular part of the channel in order to afford a better control of the depth curves and to make sure of the best water that can be carried through this narrowest and shoalest part of the channel.

2. The work was done with the launch and the lines are close. The majority of the lines were run across the channel but in the navigable part of the channel lines were also run with the channel. The middle one of the latter system is on the range recommended for vessels.

3. The least water found on the range is 17 feet, the same as the minimum found last year. Fourteen feet is found 100 ~~y~~ from the range on the off shore side. A single 17 foot sounding of last season, falling on lower part of area resurveyed, was not confirmed, and it probably would be better to omit it.

4. The soundings have been plotted on a boat sheet, scale 1 - 20 000, and this will be forwarded to the office. The soundings are so close that it might be more satisfactory to plot the work as a sub-plan on a scale of 1-10 000. The area is unusually

2.

complicated, and notwithstanding the thoroughness of the work, it is very difficult to draw the curves. The record is marked hydrographic sheet # 3178, but I have no complete record of the limits of last seasons sheets and it is possible that the development of this part of the channel was plotted on ^{of} # 3180, the scale of which, 1 - 40 000, is much too small to show so complicated an area.

5. Tide observations were made at Clark Point while the work was in progress and the plan of reference used corresponds to that of last season.

Respectfully submitted,



Ass't., C. & G. Survey,

Chief of Party.

Unalaska, Alaska,

September 26, 1910.