



3796

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 DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY

State: *Alaska*

11-5613

DESCRIPTIVE REPORT.

Wyd. Sheet No. *3796*

LOCALITY:

Shumagin Islands
Vicinity of Kupreanof
Point

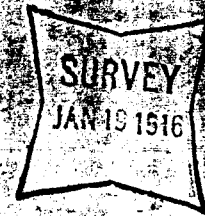
1915

CHIEF OF PARTY:

H. C. Dewar

3796

3796



ASST. IN CHARGE (S)

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET NO. *X. 3796*

Scale 1: 100,000

SHUMAGIN ISLANDS, ALASKA.

H. C. Denson, C. of P.

DESCRIPTIVE REPORT
to accompany
HYDROGRAPHIC SHEET NO. 3796 ~~11~~
SHUMAGIN ISLANDS, ALASKA.

SCALE 1:100,000

H. C. DENSON CHIEF of PARTY.

Limits.

The country treated in this report covers the straits lying between the Shumagin Islands on the South and the mainland of the Alaskan Peninsula in the vicinity of Kupreanof Point on the North. The hydrography also extends to the Eastward of the Shumagin Islands and North of Little Koniuji Island. It connects with the easternmost limits of any work done by the Str. Patterson during the season of 1914.

Methods of survey.

The soundings were taken with the Bassnet sounder attached to the steam sounding machines with which the Patterson was equipped a few years ago and straight up and down casts of the lead with the same machine. A number of check casts were made for the purpose of comparing the depths recorded by the Bassnet Sounders with the depths recorded by the registering sheave on the sounding machine. There was a very close agreement between the two and it was decided to use the pressure tubes up to a depth of 90 fathoms and above that depth to remove the sounder and take the casts up and down while the ship was completely stopped. In using the Bassnet sounder the method of procedure was as follows: on a sounding spaced 4 minutes from the last one, the ship would run at a speed of about 5 miles an hour for 3 minutes and 30 seconds, then the engines were stopped and the ship allowed to lose headway for 30 seconds. At the end of this time the sounding was taken, the ship being practically stopped then. A record of the amount of wire out was kept in a regular column in the

2.

sounding record, thus giving a rough check on the depth as recorded by the pressure tubes.

Notes.

As this hydrography was in the nature of offshore work there is very little to be said. The straits between Nagai Island and the Koniuji Islands is very lumpy and uneven as is also the section lying just East of Kupreanof Point. The bottom is very complex. It consists of fine gray and black sand and black specks. Above a depth of 85 fathoms it is uniformly mud.

Observers, etc.

The work was done by H. C. Denson. Commanding Officer assisted by Mr. H. A. Seran and Mr. A. L. Giacomini. One of these two officers was stationed on the bridge taking left angle and plotting and the other was stationed aft at the sounding machine. These two classes of work were alternated by the above mentioned officers. As the work was done continuously from the time of starting in the morning until the end of the days work the Chief Engr. relieved the officer in charge of the sounding machine for meals and the Medical Officer did the same for the Chief Writer who was the recorder on the bridge.

Currents.

No regular current observations were made nor were any indications of any excessive currents noticed.

Plotting.

The entire work of A and B days and the work of C day up to position 14 has not been plotted on the smooth sheet as at that time the Bassnet sounder was not working very well and the soundings seemed to be in doubt. The area covered in this work was afterwards run over and sufficient soundings taken to cover all.

3.

This report together with a table of statistics
showing the work done is

Respectfully submitted,

Harry A. Swan

for H. C. Denson, Comdg. Str. Patterson.

Table of statistics to accompany Hyd. Sheet No. 11. (3796)

date,	day	st. miles.	soundings.	angles.
July 31	A	45.2	98	56
Aug. 2	B	26.0	61	40
3	C	61.1	120	112
4	D	64.0	98	86
5	E	62.6	97	60
6	F	58.5	85	50
7	G	54.3	64	68
11	H	44.5	66	66
12	J	28.2	50	32
14	K	27.2	51	34
16	L	63.0	75	82
17	M	72.7	78	90
18	N	72.6	82	94
19	P	3.6	11	12
* 23	Q	26.4	65	74
25	R	40.0	81	90
Sept. 20	S	36.2	65	46
Oct. 2	T	66.7	80	64
3	U	61.7	72	56
4	V	65.0	79	80
5	W	34.8	66	88
Total.		1008.3	1544	1380

HYDROGRAPHIC SHEET NO.

X. 3796

Vicinity SHUMAGIN ISLANDS, ALASKA.

Scale 1: 100,000.

Protracted by A. L. Giacomini and H. A. Seran.

Soundings by

"

"

"

Soundings are not reduced for tide.

VEC

April 6, 1916.

AS
DTR

HYDROGRAPHIC SHEET 3796.

Shumagin Islands, Southeast Alaska, by Assistant

H. C. Denson in 1915.

TIDES.

	Mist Harbor ft.
Mean lower low water, or plane of reference on staff	4.1
Lowest tide observed " "	1.3
Highest " " " "	12.7
Mean range of tide	5.1

DEPARTMENT OF COMMERCE

LIBRARY

Place with descriptive report
of hydrographic sheet No. 2796

Myd = 3796

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Drawing Section.

The work on this sheet was protracted and pencil plotted in the field and then verified in the office.

The work of plotting was well done and the records kept in good shape.

J. B. Shklean

919-17

Applied to compilation 8859 Dec. 1942 J.M.A.

Applied to 16556 after verification April 1, 1975 BWA