

4507

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Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: SW. Alaska

11-5613

DESCRIPTIVE REPORT.

Hyd. Sheet No. 4507

LOCALITY:

Alaska Pen.

Nakchamik I., Atkulik I., Kak I.

1925

CHIEF OF PARTY:

C. L. Garner

DESCRIPTIVE REPORT
to accompany

HYDROGRAPHIC SHEET NO. 2.

Vicinity of Nakchamik Island, Southwest Alaska.

Clem L. Garner, Chief of Party.

Instructions dated March 25, 1925.

LIMITS: The work on this sheet consists of the inshore hydrography of Nakchamik, Atkulik and Kak Islands. It connects on all sides with the ships work of Hydrographic Sheet No. "B".

COAST LINE AND LANDMARKS: The coast line and landmarks have been fully described in the report of the topographic sheet covering this area, and it is not considered necessary to cover this information at greater length.

DANGERS: The islands can anywhere be approached to the edge of the kelp line with safety. A few of the points have reefs making out from them, but they are all within a few hundred meters of the beach and are well marked with kelp at certain seasons of the year. In rounding all points vessels should keep at least half a mile off as there is danger of pinnacle rocks.

SURVEY METHODS AND CONTROL: A twelve pound hand lead was used in all the work with the exception of a few deep soundings just off the north tangent of Nakchamik Island, and the few lines around Atkulik and Kak Islands. Lines were run by both compass and ranges, and for the most part, in a direction normal to the coast line.

As no time was available for the recovery of signals, located the previous season when the topography was accomplished, by plane table methods, it was necessary to locate by sextant cuts such natural objects as were needed to carry the hydrography forward. Difficulty was experienced here in obtaining good inter-sections because of the nature of the fixes and the fact that the only available signals for fixes were mountain tops, islands and other indefinite signals.

TIDES AND CURRENTS: The soundings on this sheet were reduced from Anchorage Bay tidal data. No current observations were made, but nothing was observed that indicated any unusual current.

BOTTOM CHARACTERISTICS: The bottom drops off quite regularly from the beach to the limits of the work, with the exception of a small area just north of the island where depths up to 164 fathoms were sounded. The bottom, for the most part, was rocky and hard sand, with the exception of the two anchorages described below.

ANCHORAGES: Two fair anchorages are found near Nakchamik Island: one, with nine fathoms of water on the Northwest side of the Island near signals Red and Waterfall, affording protection from southeasters; and the second, with seven fathoms of water, on the west side offering protection from the northwest. The bottoms are sand and coarse gravel, and are but fair holding ground. Both the DISCOVERER and the Anne W. used these two anchorages, the DISCOVERER anchoring about 3/4 mile off shore in 18 to 20 fathoms of water and the Anne W about 1/4 mile off shore in 8 to 9 fathoms.

Respectfully submitted:

Approved and forwarded:

Clem L. Garner
Chief of Party. 2-1-25.

Robert W. King
p. 16. and H. Ensign.

Records for this work by Garner Aug 15-19-1925. C. L. Garner

STATISTICS SHEET
to accompany

Hydrographic Sheet No. 2

NAKCHAMIK ISLAND

Date	Letter	Volume	Positions	Soundings	Statute Miles	Vessel	
1925							
Aug	13	a	1	143	185	23.5	Anne W.
"	14	b	1	126	168	34.4	" "
"	17	c	1	68	81	12.5	" "
Totals	3		1	337	434	70.4	Totals

Area in sq. statute miles - - 11

FEB 25 1926
WWB

~~Division of Hydrography and Topography:~~

Division of Charts:

Tide reducers are approved in 4507
volumes of sounding records for

S. W. Alaska
HYDROGRAPHIC SHEET NO.

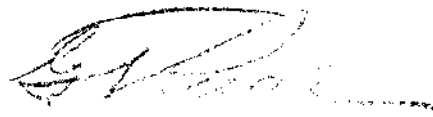
Locality: C. L. Garner in 1925

Chief of Party: Chignik

Plane of reference is
ft. on tide staff at

For reduction of soundings, condition of records satisfactory
except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A. M. or P. M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.



Chief, Division of Tides and Currents.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON March 22, 1926.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4507

Vicinity of Nakchamak Island, Alaskan Peninsula

Surveyed in 1925

Instructions dated March 25, 1925 (DISCOVERER)

Chief of Party, Clem L. Garner.

Surveyed by R. W. Knox.

Protracted, and soundings plotted by J. C. Partington.

Verified and inked by H. E. MacEwen.

1. The records conform to the requirements of the General Instructions except that no headings by compass were given, also in the case of stop soundings the records were incomplete as to time of start, stop and sounding.
2. The plan and character of development fulfill the requirements of the General Instructions.
3. The plan and extent of the survey satisfy the specific instructions except that the lines should have been run in closer to shore in some of the bights especially those mentioned as anchorages.

Additional soundings should also have been taken off the north point of Nakchamik Island to develop better the 50 and 100 fathom curves.

4. The sounding line crossings as far as a comparison of adjacent lines is concerned are adequate.
5. The information is lacking in some places to permit of completely drawing the depth curves.
6. The field plotting was completed to the extent prescribed in the General Instructions and practically none of the work had to be done over by the office cartographer.

7. The junction with H. 4499 is satisfactory. The gap between the two sheets due east of Nakchamek Island in approximately lat. $53^{\circ} 21'$ has been taken care of on H. 4509. This sheet has not been verified as yet.

The junction with H. 4509 will be taken up in the review of that sheet.

8. No further surveying is required at the present.
9. The character and scope of the field work and the field drafting are very good.
10. Reviewed by A. L. Shalowitz, March, 1926.

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. (2) 4507

State SW. South West Alaska

General locality Alaskan Peninsula

Locality Nakchamik Island and Atkulik I, and Kak I.

Chief of party Glen L. Garner

Surveyed by Robert W. Knox

Date of survey August, 1925

Scale 1 : 20,000

Soundings in Fathoms

Plane of reference Mean Lower Low Water

Protracted by J.C. Partington soundings in pencil by J.C. Partington

Inked by Verified by

Records accompanying sheet (check those forwarded):

Des. report, 0 Tide books, * Marigrams, 1 Boat sheets,

1 Sounding books, 0 Wire-drag books, 0 Photographs.

Data from other sources affecting sheet none

Remarks: