6916

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: Hydrographic

Field No. 48143 Office No. 6916 ~~H-6816~~

LOCALITY

State: ~~Alaska~~ Aleutian Is.

General locality: Adak I ~~Andreanof Islands~~

Locality: Clam Lagoon, ~~Adak I~~.

1943

CHIEF OF PARTY

C. D. Meaney
M.V. PATTON

LIBRARY & ARCHIVES

DATE

B-1870-1 (1)

6916

Form 537
Ed. Dec. 1930

REG. NO.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 48143

REGISTER NO. H-6916

State ~~Alaska~~ Aleutian Is

General locality ~~Andreanof Islands~~ Adak I

Locality Clam Lagoon, ~~Adak Island~~

Scale 1:4,800 Date of survey Aug. 30 to Sept. 1, 19 43

Vessel M.V. PATTON

Chief of Party C. D. Meaney

Surveyed by J. C. Bose

Protracted by Lois E. Reuss

Soundings penciled by Lois E. Reuss

Soundings in ~~fathoms~~ feet Feet

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by R.H. Carstens

Verified by R.H. Carstens

Instructions dated August 19 43

Remarks: ~~Instructions issued verbally by Liaison Officer, Adak.~~ Smooth Sheet and Plotting by the Seattle Processing Office.

U. S. GOVERNMENT PRINTING OFFICE

6916

Descriptive Report

to Accompany

Sheet (Field) No. 48143

Clam Lagoon, Adak Island

M. V. PATTON C. D. Meaney, Chief of Party

Project CS-218

Instructions:

The survey was made in compliance with verbal instructions by Lieut. Comdr. C. M. Durgin, Liaison Officer at Adak Island, Alaska, issued in August, 1943.

Survey Methods:

The survey was made by conventional methods. The boat used was an open Navy motor whale boat furnished by the Captain of the Port, N. O. B., Adak.

Soundings were taken by means of a portable 808 A depth recorder.

Positions were determined by visual three-point sextant fixes. The control consists of triangulation points established by personnel of the Sixth Naval Construction Regiment, supplemented by some additional hydrographic signals located by sextant fixes. The triangulation stations were built, marked, described, and observed by naval personnel, but the position computations were made by officers of the PATTON. The triangulation is considered to be of good fourth order accuracy.

General Description and Extent of Survey:

Clam Lagoon has a narrow entrance connecting with Kuluk Bay at the south end of the lagoon. A sand bar lies south of the entrance. No hydrography was done over the bar, but the controlling depth is believed to be not more than about 2 feet at MLLW. From the middle of the entrance, a narrow channel follows closely along the west shore as far as the first point. Here the channel disappears and very shoal water occurs as far as Latitude 51° 55'.5. At extreme low water, it is probable that the bottom goes dry from shore to shore in this vicinity.

The northern half of the lagoon is fairly deep and the bottom is very regular. The bottom is a soft, greenish black mud, which probably contains much decomposed organic matter. The peculiar shading of the bottom on the fathograms indicates that the bottom has a layer of mud, varying in depth from twelve to twenty feet, lying over a harder formation.

Clam Lagoon has no navigational importance at the present time. It is probable, however, that it will be developed as a seaplane base and that some dredging may be undertaken to make it usable for boats or ships.

During the time that the survey was in progress, much windy weather was experienced and, as the open boat was not suitable for the work, it was not possible to make a complete survey of the lagoon in the time available. It is believed that some additional sounding has been or will be done by personnel of the Sixth Naval Construction Regiment.

The scale of 1:4800 was adopted in compliance with the request by the 6th N. C. R.

Statistics:

Date	Day Letter	Stat Mi. Sdg. Line	Positions
August 30, 1943	a	7.0	73
August 31, 1943	b	5.3	51
Sept. 1 , 1943	c	8.7	76
Total		21.0	200

J. C. Bose
H. & G. Engineer
M. V. PATTON

Approved and Forwarded:

C. D. Meaney,
Chief of Party
M. V. PATTON

H-6916

Statistics-

Vol.#	Day Letter	Date	Hand Lead Soundings	Wire Soundings	No. of Positions	Stat.Mi. Sdg.Line	Area-Sq. Stat.Mi.
I	a	Aug. 30	none	none	73	7.0	
	b	" 31	(continuous sdg. with		51	5.3	
II	c	Sept. 1	808 A recording fathometer)		76	8.7	
Totals					200	21.0	1.2

H-6916

SEATTLE PROCESSING OFFICE NOTES

Datum of Smooth Sheet-

Unalaska unadjusted.

Control-

See Descriptive Report furnished by field party.

The triangulation was established by personnel of the Sixth Naval Construction Regiment. These positions were computed by the party on the M.V. PATTON on U.S.Navy datum. The correction to Unalaska unadjusted datum was obtained by applying plus 307.4 M. in latitude and minus 324.0 M. in longitude to computed positions. This correction represents the difference between the coordinates of station ZERO as computed on U.S. Navy datum and on Unalaska unadjusted datum.

Shoreline-

The shoreline for this sheet was copied from a blue print showing horizontal control layout prepared by the Sixth Naval Construction Regiment, No. CB 6-514.

Approved and Forwarded:

F. H. Hardy
Officer in Charge,
Seattle Processing Office.

TIDAL NOTE

H-6916
(Field No. 48143)

Clam Lagoon - Adak Island

Tide Staff - established by the 6th Naval Construction Regiment on the west shore of Clam Lagoon

Latitude	51° 56!1
Longitude	176 35.8

Mean Lower Low Water ---------- 0.6 feet

See Director's letter of December 9, 1943, ref. 36-mlh.

Hydrographic Sheet

48143 (Field No.)

Clam Lagoon, Adak Island

TIDAL NOTE

A tide staff was established on the west shore of Clam Lagoon by personnel of the 6th Naval Construction Regiment, in
Latitude 51° 56'.1 Longitude 176° 35'.8

Staff readings were observed while hydrography was in progress, and a continuous series of 52 hours was observed to furnish a comparison with the standard gauge in Sweeper Cove.

It was the intention of the Naval personnel to run levels between the staff and some bench marks, but the staff was washed away in a storm before this could be done. The datum plane was therefore not preserved.

Mean lower low water corresponds to a reading of 0.6 foot on the tide staff. See Director's letter of December 9, 1943, ref. 36-mlh.

LIST OF SIGNALS

H-6916

(Field No. 48143)

Clam Lagoon - Adak I.

Name	Origin of Station
BAT	CL 7A USN 1943 *
CAB	Hydro cuts, page 4, Vol. 1
COG	CL 6 USN 1943 *
DAY	South USC&GS - CL 5 USN 1943 *
FIR	CL 4 USN 1943 *
LET	Hydro cuts, page 4, Vol. 1
MAN	"E" - USN 1943 *
NOB	CL 2 USN 1943 *
TIP	Hydro cuts, page 2, Vol. 2
TRI	CL 5 USN 1943 *
TOP	CL 1 USN 1943 *
WAC	ACL-USN 1943 *
ZETO	USN 1933

*Triangulation established by personnel of the Sixth Naval Construction Regiment. These positions were computed by the party on M.V. PATTON on U.S. Navy datum. The correction to Unalaska unadjusted datum was obtained by applying plus 307.4 M. in latitude and minus 324.0 M. in longitude to computed positions. This correction represents the difference between the coordinates of station ZETO as computed on U.S. Navy datum and on Unalaska unadjusted datum.

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. 6916.

Records accompanying survey:

Boat sheets ....; sounding vols. ....; wire drag vols. ....;

bomb vols. .....; graphic recorder rolls .....;

special reports, etc. .....

.....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	200	
Number of positions checked	12	
Number of positions revised	10	
Number of soundings recorded	1000	Approx
Number of soundings revised (refers to depth only)	333	Due to addition of B phase correction of 1 ft
Number of soundings erroneously spaced	10	
Number of signals erroneously plotted or transferred	0	
Topographic details	Time 0	
Junctions	Time 0	
Verification of soundings from graphic record	Time 0	

Verification by R.H. Carstens. Total time 11 hr. Date Feb. 23, 1945

Review by R.H. Carstens Time 3 hr. Date Feb. 23/1945

	Remarks	Decisions
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RAE
NACE

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. June 1937

TIDE NOTE FOR HYDROGRAPHIC SHEET

August 22, 1944

~~Division of Hydrography and Topography:~~

✓ Division of Charts: Attention:H. R. EDMONSTON

Plane of reference approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 6916

Locality Clam Lagoon, Adak I., Aleutian Islands

Chief of Party: C. D. Meaney in 1943
Plane of reference is mean lower low water reading
0.6 ft. on tide staff at Clam Lagoon
ft. below B. M.

Staff readings by personnel of 6th Naval Construction Regiment.
No reference to bench mark furnished.

Elevation of mean high water above plane of reference is 2.9 feet.

Condition of records satisfactory except as noted below:

E K Green

Chief, Division of Tides and Currents.

U. S. GOVERNMENT PRINTING OFFICE 154337

DIVISION OF CHARTS

REVIEW SECTION * NAUTICAL CHARTS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY REGISTRY NO. 6916

Field No. 48143

Aleutian Islands, Adak Island, Clam Lagoon
Surveyed in August-September 1943, Scale 1:4800
Verbal Instructions of Liaison Officer

Soundings:

808 Fathometer

Control:

Three-point fix on shore signals

Chief of Party - C. D. Meaney
Surveyed by - J. C. Bose
Protracted by - L. E. Reuss
Soundings Plotted by - L. E. Reuss
Verified and inked by - R. H. Carstens
Reviewed by - R. H. Carstens
Inspected by - H. W. Murray, February 23, 1945

1. Shoreline and Signals

The signals originate with U. S. Navy triangulation supplemented by hydrographic signals located by sextant fixes which are recorded in the sounding records. The shoreline in pencil is from a blueprint of the Navy, not available at the present time.

2. Sounding Line Crossings

Satisfactory

3. Depth Curves and Submarine Relief

The development is not sufficiently complete to delineate all the depth curves. Within the limits of the survey the bottom is uniform. In the northeast portion of the lagoon, shoal water extends about 350 m. offshore.

4. Junctions with Contemporary Surveys

No contemporary surveys adjoin the present survey.

5. Comparison with Prior Surveys

There are no prior surveys of the area by this bureau.

6. Comparison with Chart 9193 (Latest print date 2/10/45)

A. Hydrography

The charted hydrography in Clam Lagoon originates with the present survey before verification and review. Several changes made in verification should be corrected on the chart.

B. Aids to Navigation

There are no charted aids to navigation falling within the limits of the present survey.

7. Condition of Survey

Satisfactory.

8. Compliance with the Instructions for the Project

The survey was accomplished under verbal instructions of the Liasion Officer. A lack of time and proper equipment prevented the completion of the survey.

9. Additional Field Work Recommended

The survey is only partially complete. The southern half of the lagoon as well as portions of the northern half remain unsurveyed.

10. Superseded Surveys

None

Charles Pierce
Administrative Assistant
to Chief, Chart Division

Earl O. Henderson
Chief, Section of Hydrography

F. J. Gordon
Chief, Chart Division

G. G. Rude
Chief, Division of
Coastal Surveys

GEOGRAPHIC NAME

Survey No. H-6916

Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Aleutian Islands										1
Adak I								USGB		2
Clam Lagoon			515 765					"		3
										4
										5
										6
		Names unofficial in new approved by L. Heck 3/14/45								7
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M 234

Applied before V.D.R. to chart 9193 J.M.A. 10-11-44

No correction to chart 8863 J.M.A. 10-27-44

Completely applied to chart 9193 G.K.S. 3-31-45

Hydrography just off the limits of chart 9141 H.E.M. 3/19/47.