

6998

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Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. PA-A-145 Office No. T-6998

LOCALITY

State Alaska

General locality Adak Island, Aleutian Ids.

Locality Sweeper Cove

194 5

CHIEF OF PARTY

R. F. A. Studds

LIBRARY & ARCHIVES

DATE JAN 22 1946

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

T6998

TOPOGRAPHIC TITLE SHEET

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

Field No. PA - A - 45

REGISTER NO. T-6998

State ALASKA - Aleutian Is.

General locality Adak Island, Aleutian Islands

Locality Sweeper Cove

Scale 1:5,000 Date of survey June, 1945

Vessel PATTON

Chief of party R. F. A. Studds

Surveyed by A. Gordon Anderson

Inked by A. Gordon Anderson

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated 30 April, 1945

Remarks:

DESCRIPTIVE REPORT TO ACCOMPANY
TOPOGRAPHIC SHEET PA-A-1945, SWEEPER COVE

R. F. A. Studds - - - Chief of Party

June 1945

INSTRUCTIONS: The survey was made in accordance with Instructions dated 30 April 1945, received from the Liaison Officer, to revise the previous topographic survey of Sweeper Cove. Extensive fill and new construction necessitated the resurvey.

LIMITS: The area surveyed, on a scale of 1:5000, is the west and north shores of Sweeper Cove, from Latitude $51^{\circ} 51' 08''$ Longitude $176^{\circ} 39' 10''$ to Latitude $51^{\circ} 52' 19''$ Longitude $176^{\circ} 17' 35''$, in addition to which two small float docks in Hammerhead Cove were located.

GENERAL DESCRIPTION AND METHOD: Various new docks had been erected in Sweeper Cove and the north shore had been filled in, as well as a breakwater constructed at the entrance, and the survey was run to tie in these new features to unchanged features on the 1943 topographic survey. A scheme of triangulation based on the line SWEEPER - MOUNT "X" was extended to the dock area and eight new stations were located on the docks and breakwater. These stations furnished

all the control necessary for the survey. At the southern limit of the survey, a tie was made with topographic station DEE of the 1943 survey, while at the northern limit, the tie was made to topographic station OUT of the same survey, and, since this station was subject to being covered by a fill in progress at the time of the survey, a new station, TIE, was established nearby. The junctions with the previous survey were satisfactory. The small docks in Hammerhead Cove were located from recovered 1943 topographic station

All shoreline on the sheet was rodded from the various triangulation stations, with a short traverse at the north end of the sheet from triangulation station ONE to topographic station OUT.

Garrison sheets prepared by the Army Engineers, of a scale 1 inch equals 100 feet, were used for all dock dimensions and general layout of the docks. Azimuths of the docks were obtained prior to placing them on the topo sheet. The accuracy of the Garrison sheets was checked by converting the geographic positions of the triangulation stations to the plane coordinate system of the Garrison sheets and plotting the stations directly on the sheets. The sheets checked satisfactorily. The Garrison sheets were used as hydro sheets and will be submitted as such.

Bps. 41317-18-19 (1945)

No hydrographic signals were located as the hydrography in the Cove had been previously accomplished and the dock areas were surveyed by the tag line method.

No declinoire observations were made.

BUOYS: All the mooring buoys in Sweeper Cove at the time of the survey were located by three point sextant fixes, with a check angle, on the triangulation stations. Information regarding the permanency of these buoys was obtained from the Harbormaster, Adak Island and he stated that the two mooring buoys labeled "cruiser mooring buoy (permanent)" on the sheet, were the only permanent buoys on the harbor. The other mooring buoys are subject to removal and it is recommended that these buoys should not be charted. Therefore, they are labeled "temporary" on the sheet.


NOTE:--The net shown in Latitude 51° 51' 30" and Longitude 176° 37' 45" has been removed since the inking of this sheet and should not be charted.

Respectfully submitted,

Approved and Forwarded:



R. F. A. Studds
Lt. Comdr., C&GS
Cmdg., USS PATTON


A. Gordon Anderson
Lt. (j.g.) C&GS
Topographer

DIVISION OF CHARTS

HYDROGRAPHIC SURVEYS SECTION

REVIEW OF TOPOGRAPHIC SURVEY

REGISTER NO. T-6998

FIELD NO. PA-A-45

Alaska-Aleutian Is., Adak I., Sweeper Cove
Surveyed in June, 1945 Scale 1:5,000
Instructions dated April 30, 1945

Plane Table Survey

Aluminum Mounted

Chief of Party - R. F. A. Studds
Surveyed by - A. G. Anderson
Inked by - A. G. Anderson
Reviewed by - R. H. Carstens, September 18, 1946
Inspected by - H. W. Murray

1. Purpose

The purpose of this survey was to show harbor improvements accomplished in Sweeper Cove subsequent to the prior survey T-6930 (1943).

2. Adjoining Surveys

A satisfactory junction was made with T-7000 (1945) on the north and T-6930 (1943) on the south.

3. Comparison with Prior Surveys

T-6930 (1943) 1:5,000

The small boat harbor in lat. $51^{\circ} 51.1'$, long. $176^{\circ} 39.25'$, the breakwater, earth fills and several piers along the north side of Sweeper Cove are the principal improvements made since the prior survey was accomplished. The present survey supersedes T-6930 in the common area.

4. Comparison with Chart 9119 (Latest print date 11/17/45)

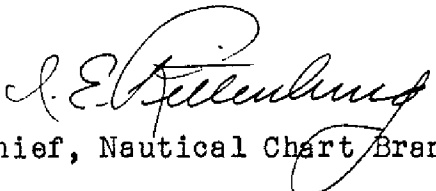
The charted topography originates with U.S.E. blueprints 39749-55 of 1944-45 and revisions from air photographs Acc. No. 1266. There are differences as great as 50 meters between the charted and present survey position of the high water line north of the breakwater. The present survey supersedes the charted topography.

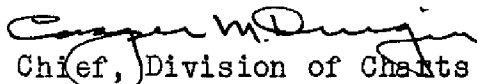
Mooring buoys and aids to navigation are adequately discussed in relation to the hydrography in the review of H-7084 (1945).

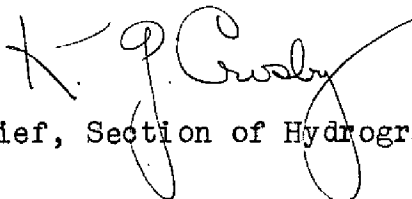
5. Additional Field Work Recommended

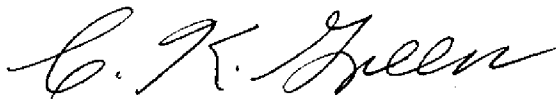
The present survey adequately shows the revisions in this area and no additional work is required.

Examined and approved:


Chief, Nautical Chart Branch


Chief, Division of Charts


Chief, Section of Hydrography


Chief, Division of Coastal Surveys

GEOGRAPHIC NAMES

Survey No.

T6998

Name on Survey

	A	B	C	D	E	F	G	H	K	
<u>Alaska</u>										1
<u>Aleutian Islands</u>										2
<u>Adak Island</u>									U.S.G.B.	3
<u>Sweeper Cove</u>									"	4
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Names underlined in red approved
by L. Heck on 9/19/46

NAUTICAL CHARTS BRANCH

SURVEY NO. 6998

Record of Application to Charts

[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.