U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: Topographic
Field No.: A
Office No.: T-6930.a & b

LOCALITY
State: Alaska-Aleutian Islands
General locality: Adak Island
Locality: Kuluk Bay

1943
CHIEF OF PARTY
G. C. Wattison

LIBRARY & ARCHIVES
DATE: March 1, 1944
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

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. | A
---|---
REGISTER NO. | 6930a

State | Aleutian Islands
General locality | Andreanof Islands
Locality | Adak Island - Kuluk Bay
Scale | 1:20,000
Date of survey | June, 1943
Vessel | U.S.C. & G.S.S. EXPLORER
Chief of party | G. C. Mattison
Surveyed by | Lorne G. Taylor
Inked by | Lorne G. Taylor
Heights in feet above | to ground to tops of trees
Contour, Approximate contour, Form line interval | feet
Instructions dated | 19...
Remarks: | ...

REG. NO. | T6930
AUTHORITY:

The work on this sheet was done at the request of the Navy Department.

LIMITS AND SCALE:

The area was surveyed on a 1:20,000 scale. The work extends from Lucky Point to Sweeper Cove on the south and northward from Sweeper Cove to latitude 51°59.7', longitude 176°37.2', the eastern tip of Cape Adakak.

PURPOSE:

The purpose of this survey was to locate control for wire drag and hydrographic surveys in Kuluk Bay and vicinity. It was also requested that the beacons, signals "NASHVILLE" and "PALISADES", and that Moorings Nos. 1 and 2, respectively, be located.

CONTROL:

The control consists of triangulation stations established by the U.S. Navy, supplemented by triangulation done by the EXPLORER on the Navy Datum. Unalaska Datum added in Washington.

MAGNETIC OBSERVATIONS:

The opportunity did not present itself for the necessary observations to determine the declinatoire error during the field season. The following observation was made.

<table>
<thead>
<tr>
<th>Station</th>
<th>Date</th>
<th>Time</th>
<th>Decl. Value</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>PIT(USN)1933</td>
<td>6-11-43</td>
<td>1410</td>
<td>9°15'E</td>
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SURVEY METHODS:

Standard planetable practices were followed. Triangulation
stations were occupied first, and cuts taken to topographic signals. Additional setups were obtained by the resection method and solving the three point problem for the location of signals and rodding the shoreline. Supplementary traverse was run between signals and closing errors adjusted in the field.

Traverse was run from topographic signal ACE to topographic signal END. No tie was obtained on this traverse. The moorings Nos. 1 and 2, were located by a round of sextant angles taken at the moorings to control stations since the moorings were placed after the shoreline had been accomplished, and the signals located.

DESCRIPTION OF FEATURES: (All positions referred to Navy Datum.)

1. A rock at latitude 51°52.2', longitude 176°37.35', bare 1 foot at M.L.L.W., is shown on the sheet.

2. A rock at latitude 51°51.78', longitude 176°38.05', bare 2 feet at M.L.L.W.

3. A black can buoy at latitude 51°53.1', longitude 176°37.20' marks the spot of a wreck.

4. Two moorings Nos. 1 and 2, are shown on the sheet at latitude 51°53.85', longitude 176°34.30', and latitude 51°53.67', longitude 176°35.47', respectively.

5. A wrecked plane is shown by signal "PEC". No such signal on sheet.

6. Beacons "Nashville" and "Palisades", are located at latitude 51°52.86', longitude 176°39.07', and latitude 51°54.46', longitude 176°36.04', respectively.

7. Two islands are shown at latitude 51°52.1', longitude 176°37.5', where only one is shown on H.O. Chart No. 5631.

GEOGRAPHIC NAMES:

The following names were placed on the sheet:

Kuluk Bay / Sweeper Cove
Head Rock / Lucky Point
Samnet Rocks / Pit Rocks

These names were taken from H.O. Chart No. 5631, and are in general use by the military authorities. There are several unnamed
islands appearing on the sheet. No features were named by the tophographer.

STATISTICS:

Statute miles of shoreline: 14.7

Area in square statute miles: (Shoreline only.)

Respectfully submitted,

Lorne G. Taylor,
Lieut. (j.g.) C. & G. S.

APPROVED AND FORWARDED:

G. C. Mattison,
Commanding Officer,
U.S.C. & G.S.S. EXPLORER.
LIST OF SIGNALS FOR WHICH RECOVERY CARDS ARE ATTACHED:

AIR
GAN
HIE (Palisades)
NASHVILLE

PIN
TOW
TUF

Filed
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

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. B

REGISTER NO. 6934 b

State. Aleutian Islands

General locality. Andreanof Islands

Locality. Adak Island, Sweeper Cove

Scale. 1:5,000 Date of survey. June, 1949


Chief of party. G. C. Mattison

Surveyed by. Lorne G. Taylor

Inked by. Lorne G. Taylor

Heights in feet above to ground to tops of trees

Contour. Approximate contour. Form line interval 8 feet

Instructions dated. 19

Remarks:

...
DESCRIPTION REPORT
TO ACCOMPANY TOPOGRAPHIC SHEET "B"
PROJECT CS - 213

CONFIDENTIAL

AUTHORITY:

The work on this sheet was done at the request of the Navy Department.

LIMITS & SCALE:

The survey includes Sweeper Cove and extends from triangulation station "WST" (USN), on the north to topographic signal "Cur".

The area was surveyed on a 1:5,000 scale.

PURPOSE:

This survey was made to establish control for a hydrographic survey, establish the high and low water lines, and locate the piers and buoys in the area.

CONTROL:

The control consists of triangulation established by the EXPLORER on the U.S. Navy datum.

MAGNETIC OBSERVATIONS:

The following observations were made. The opportunity did not present itself for the necessary observations to determine the declinatoire error during the field season.

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<th>Station</th>
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<tr>
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<td>6-8-43</td>
<td>0950</td>
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<td>6-12-43</td>
<td>1406</td>
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<td>LCE (Topo)</td>
<td>6-16-43</td>
<td>0945</td>
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SURVEY METHODS:

Standard planstable practices were followed throughout.
Triangulation station "SAN" (USN) 1933, and "BAK" 1943, were occupied and cuts taken to all signals and features that were visible. Additional setups were obtained for further cuts on signals by resection and solving the three point problem. In some cases, short traverses were run between signals to locate shoreline. Closing errors on these were adjusted in the field, by prescribed methods.

CHARACTER OF COUNTRY:

The north and east shore is generally sand beach with low sandy dunes extending inland. The shoreline on the south and east is generally rocky with rock cliffs extending to the water line. The entire area and the surrounding hills have been occupied by the military authorities.

DESCRIPTION OF FEATURES:

1. The limits of anti-submarine net are located on the sheet at the entrance to Sweeper Cove.

2. All buoys and moorings in the Cove at the time of the survey are shown on the sheet.

3. The Army and Navy piers in the Cove are located on the sheet.

4. The triangulation station "CONTROL TOWER" 1943 is the flag pole on the Harbor Master’s office, from which all water traffic in Sweeper Cove is controlled.

5. Triangulation stations "WEST BEACON" 1943, and "SOUTH BEACON" 1943, are large red and yellow checkered beacons.

6. A tide gage is located at the end of a warehouse near signal "Son".

7. A large wrecked barge is shown on the sheet approximately midway between signal "Dee" and "Cal".

COMPARISON WITH EXISTING SURVEYS:

The only available survey covering this area is H.O. chart No. 5631. No detailed comparison was made.
GEOGRAPHIC NAMES:

The name Sweeper Cove was taken from H.O. chart No. 5631 and is in local use by the military authorities. No other names appear on the sheet. No features were named by the topographer.

STATISTICS:

Statute Miles of shoreline 4.4
Area in square statute miles 1.0

Respectfully submitted,

Lorne G. Taylor,
Lieut. (j.g.) C. & G.S.

APPROVED AND FORWARDED:

C. Mattison,
Commanding Officer,
U.S.C. & G.S.S. EXPLORER.
MEMORANDUM
IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

No. H
No. T6930a & b

received February 28, 1944
registered March 1, 1944
verified
reviewed
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

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RETURN TO

82 Comdr. R. J. Knox

[Signature]
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Items underlined in red approved by Lt. Hecht on 4/7/44.
DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF TOPOGRAPHIC SURVEY

Aleutian Islands; Adak Island; Kuluk Bay and Sweeper Cove
Surveyed June 1943; Scales 1:20,000 and 1:5,000
Project C. S. 218

Plane Table Survey

Aluminum Mounted

Chief of Party - G. C. Mattison
Surveyed and inked by - L. G. Taylor
Reviewed by - J. A. McCormick, April 15, 1944
Inspected by - H. R. Edmonston

1. Adjoining Surveys

A two-mile gap separated the two sections of 1:20,000 scale T-6930a in the vicinity of Head Rock. Shoreline was secondary to the control needed for Navy requested hydrographic and wire drag surveys. The southern section of T-6930a joins satisfactorily with T-6930b at the entrance to Sweeper Cove and with T-6933a at Lucky Point.

2. Previous Surveys

T-6941 (1933), 1:40,000

This Navy compilation generalizes considerably and appears to depend for detail on the various hydrographic surveys of the area which it covers. For example, Gannet Rocks, omitted entirely from T-6941, are shown on the 1:15,000 scale Navy hydrographic survey, H-6889 (1933). A bare rock in Lat. 51°52.5', Long. 176°37.4' on the 1933 hydrographic survey was not verified on T-6930a but the contemporary hydrography on H-6910 (1943) shows the correct representation to be a series of rocks just awash at MLLW. For shoreline and attendant detail, T-6930a&b supersede the combined results of the Navy's hydrography and topography in the common areas.
3. **Comparison with Chart 9119 (Print of Dec. 10, 1943)**  
   Chart 9141 (Print of Nov. 1943)  
   Chart 9193 (Print of Nov. 1943)

Shoreline south of Lat. 51°52.5' (limits of chart 9119) was revised from field compilations filed as blueprints Nos. 37293 and 37361. North of this latitude, corrections were made from H. O. Notices to Mariners based on critical differences reported directly to the Navy. Subsequent to the survey, extensive pier and jetty construction has changed the north side of Sweeper Cove. These and other changes are incorporated in later prints (now in Reproduction) of all three charts. Mooring buoys and navigational aids in the area are discussed in the reviews of H-6910 and H-6915 of 1943.

4. **Additional Field Work Recommended**

As stated in par. 1, T-6930a is not a continuous survey. It is also noted that the 2-1/2-mile traverse at the north end of the insert was not tied in. Considerable additional work would be necessary if the survey were to be completed strictly according to Coast and Geodetic Survey standards. However, it satisfies the requirements of the Navy for whom it was made and it can be supplemented by Corps of Engineers' quadrangles compiled in 1943 and now on file in this office.

Examined and approved:

[Signatures]

- Chief, Surveys Branch
- Chief, Division of Charts
- Chief, Section of Hydrography
- Chief, Division of Coastal Surveys