

6930

a & b

Diag'd on Diag. No. 8863-2

Form 504

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. Mattison

LIBRARY & ARCHIVES

DATE March 1, 1944

8-1870-1 (1)++

6930

a & b

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO. T6930

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. F-6930a

State Aleutian Islands

General locality ~~Andreanof Islands~~

Locality Adak Island - Kuluk Bay

Scale 1:20,000 Date of survey June, 19 43.

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:

T- 6930-a

DESCRIPTIVE REPORT
TO ACCOMPANY TOPOGRAPHIC SHEET A
PROJECT 218

CONFIDENTIAL

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 $51^{\circ}59.7'$, longitude $176^{\circ}28.2'$, the eastern tip of Cape Adagdak. ✓

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. ✓

Station	Date	Time (150th Mer.W.)	Decl. Value
PIT(USN)1933	6-11-43	1410	$9^{\circ}15'E$

Compares with $9^{\circ}24'E$ on chart.

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. 2½ mile traverse. ✓

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

1. A rock at latitude $51^{\circ}52.2'$, longitude $176^{\circ}37.25'$, bares 1 foot at M.L.L.W., is shown on the sheet. ✓

2. A rock at latitude $51^{\circ}51.78'$, longitude $176^{\circ}38.05'$, bares 2 feet at M.L.L.W. ✓

3. A ~~black~~ can buoy at latitude $51^{\circ}53.1'$, longitude $176^{\circ}37.20'$ marks the spot of a wreck. rocks awash (shown on H-6910 of 1943). ✓

4. Two moorings Nos. 1 and 2, are shown on the sheet at latitude $51^{\circ}53.85'$, longitude $176^{\circ}34.30'$, and latitude $51^{\circ}53.67'$, longitude $176^{\circ}35.47'$, respectively. ✓

5. A wrecked plane is shown by signal "PEC".

No such signal on sheet.
8/4/46 Identified from boat
sheet of H-6911 (1943) W.D.

6. Beacons "Nashville" and "Palisades", are located at latitude $51^{\circ}52.86'$, longitude $176^{\circ}38.07'$, and latitude $51^{\circ}54.46'$, longitude $176^{\circ}36.04'$, respectively. Lat. $51^{\circ}56'$
Long. $176^{\circ}33'$ ✓

7. Two islands are shown at latitude $51^{\circ}52.1'$, longitude $176^{\circ}37.5'$, where only one is shown on H.O. Chart No. 5631. ✓

GEOGRAPHIC NAMES:

The following names were placed on the sheet:

✓ Kuluk Bay ✓
✓ Head Rock
✓ Gannet Rocks

✓ Sweeper Cove
✓ Lucky Point
✓ Pit Rocks

Names not
supposed to be
inked in field. ✓

These names were taken from H.O. Chart No. 5631, and are in general use by the military authorities. There are several unnamed ✓

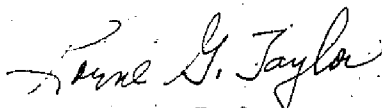
islands appearing on the sheet. No features were named by the topographer. ✓ ✓

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

PIN

GAN

TOW

HIE (Palisades)

TUF

NASHVILLE

Filed.

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO. T6930

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. T-6930b

State Alutian Islands

General locality ~~Andreanof Island~~

Locality Adak Island Sweeper Cove

Scale 1:5,000 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:.....

T-6930b

DESCRIPTIVE REPORT
TO ACCOMPANY TOPOGRAPHIC SHEET "B"

PROJECT CS - 218

- o -

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 "NET" (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 declinoire error during the field season. ✓

<u>Station</u>	<u>Date</u>	<u>Time</u> (150 Mer. W.)	<u>Decl. Value</u>
SAN(USN) 1933	6-8-43	0950	8° 20'E.
BAK 1943	6-12-43	1405	9° 20'E.
ICE (Topo)	6-16-43	0945	9° 10'E.

Compare
favorably with
charted value
of 9°15' E.

SURVEY METHODS:

Standard planetable 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

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

APPROVED AND FORWARDED:

J. C. Mattison

J. C. Mattison,
Commanding Officer,
U.S.C. & G.S.S. EXPLORER.

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

No. H

No. T6930 a & 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. W. Knox
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W. Knox

T-6930ab

	Remarks	Decisions
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GEOGRAPHIC NAMES

Survey No. T-6930ab

GEOGRAPHIC NAMES		Survey No. T-6930ab									
Name on Survey		On Chart	On previous survey	On U. S. quadrangle	From local	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
		No.	No.	Maps	information						
Aleutian Islands	✓									1	
Adak Island	✓									2	
Kuluk Bay	✓									3	
Sweeper Cove	✓									4	
Lucky Point	✓									5	
Pit Rocks	✓									6	
Head Rock	✓									7	
Gannet Rocks	✓									8	
Sweeper Creek										9	
Names underlined in red approved by L. Heck on 4/2/44										10	
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M 234

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF TOPOGRAPHIC SURVEY

REGISTRY NO. 6930a&b

Field No. A & B

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)

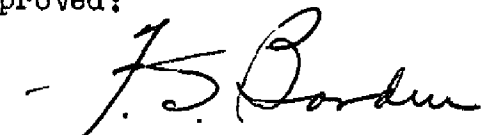
Shoreline south of Lat. 51°52.5' (limits of chart 9119) was revised from field compilations filed as blueprints Nos. 37293 and 37361. North of this latitude, corrections were made from H. O. Notices to Mariners based on critical differences reported directly to the Navy. Subsequent to the survey, extensive 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

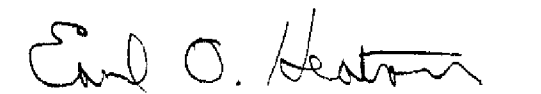
4. Additional Field Work Recommended


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:


Chief, Surveys Branch


Chief, Division of Charts


Chief, Section of Hydrography


Chief, Division of
Coastal Surveys

Applied to chart 9119 July 4, 1944 F.A.M.

" " " 9141 July 7, 1944 F.A.M.

" " " 8863 Oct. 27 " E.M.A.

" " " 9193 Dec 30, 1944 H.E.M.