

7004a&b

Graphic Control

Diag. in pencil on ch. 8065

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	TOPOGRAPHIC
Field No. DE-A & D-45	Office No.
LOCALITY	
State	Alaska
General locality	Attu Island
Locality	Alexai Point to Chirikof Point
	Khlebnikof Point to Cooper Islands
	194 5
CHIEF OF PARTY	
	L. C. Wilder
LIBRARY & ARCHIVES	
DATE	JAN 24 1946

B-1870-1 (1)

7004a&b

Graphic Control

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. DE-A-45

REGISTER NO.

State Alaska - Aleutian Islands

General Locality Attu Island

Locality Alexai Point to Chirikof Point

Scale 1:20,000 Date of survey 31 May to 8 June, 1945

Vessel DERICKSON

Chief of party L. C. Wilder

Surveyed by W. M. Hellman & J. E. Waugh

Inked by W. M. Hellman

Heights in feet above MHW to ground ~~to tops of rocks~~

~~Contours, approximate contours, from tide observation~~

Instructions dated 16 April, 1943

Remarks: _____

REG. NO.

7004a6c
17004a

Graphic Control

DESCRIPTIVE REPORT

To Accompany

Topographic Sheet T-7004a (Field No. DE-A-45)

Scale 1:20,000

Alexai Point to Chirikof Point, Attu Island, Alaska
and

Topographic Sheet T-7004b (Field No. DE-D-45)

Scale 1:10,000

Khlebnikof Point to Cooper Islands, Attu Island, Alaska

L. C. Wilder, Chief of Party

U.S.C. & G.S.S. DERICKSON

1945

PROJECT: ^{T-7004a} Sheet A was accomplished under general instructions from the Director for Project CS-218 as revised on 16 April 1943, 1 February 1944, and 29 January 1945. It is a part of Project 5 as assigned on 12 April 1945 by the Liaison Officer to the Commanding Officer of the Ship DERICKSON.

^{T-7004b} Sheet D was accomplished under general instructions from the Director for Project CS-218 as revised on 16 April 1943, 1 February 1944, and 29 January 1945. It is a part of Project 30 as assigned on 7 June and 6 July 1945, by the Liaison Officer for the 17th Naval District in instructions to the Commanding Officer of the Ship DERICKSON.

SURVEY LIMITS AND DATES: ^{T-7004a} Sheet A is primarily a graphic control sheet and is on a 1 to 20,000 scale. The field work on the sheet was accomplished between 31 May 1945, and 8 June 1945, inclusive. It includes that area between Alexai Point and the northern tip of Chirikof Point.

^{T-7004b} Sheet D, scale 1:10,000, is primarily a graphic control sheet. It covers the area from Khlebnikof Point to Cooper Islands. It overlaps Sheet ^{T-7003} DE-B-45, scale 1:5000, on the west; it joins Sheet T-6972 B (EX-G-44), scale 1:20,000, at signal Wax on the west; it is adjacent to but does not join Sheet ^{T-7005a} DE-B-45, scale 1:2500, on the southeast. In 1944 the SURVEYOR'S parties did not have a graphic control sheet in this area. They cut in the whitewashes by theodolite. Signal Big, located on this sheet is one of the signals located by the SURVEYOR. The field work on this sheet was accomplished between the 29 June and 1 July 1945.

SURVEY METHODS: Standard topographic practices were followed except as noted under Sheet A ^{T-7004a} below. All planetable setups were either at triangulation stations, determined by three-point fixes or by the resection method. All signals (except as noted below) were located

by at least three cuts from the planetable setups. The topographic detail shown was rodded in from the setups. Additional setups were not made to obtain topographic features. All offlying features were rodded in.

On Sheet A station Alp is an H.E.C.P. Tower; station Row is a radar unit. The radio mast shown is the center one of five masts, which are the antenna system for the Air Sea Rescue activity. Art, Bum, and Cab are temporary banners. Fez and Log are waterfalls. All other signals are whitewashed rocks or bluffs.

Those signals which have the same name as ones shown on the (1943) sheets are common to that survey. They were relocated on this sheet. There are two signals Top on this sheet. One is near the western limit and one is near the eastern limit. They are so far apart that no confusion should occur in plotting the hydrography.

Stations Ben and Add were located by two planetable cuts and several sextant cuts. Difficulties in setting up between RIK(USN)-1943 and BLACK 1944 prevented further planetable cuts.

The foul area around Cry and Zed was located by cuts to the tangents.

DMs and DPs are furnished for signal Row which was used on hydrographic sheet H-7018, 1 to 40,000 scale.

Row 52° 50' 400 m. (-488m NA1927 Datum)
173° 18' 944 m. (-83m " " ")

On Sheet D Art was located by two cuts and a distance. The buoy shown is the entrance buoy to Chichagof Harbor. It is also located on survey DE-1145. The hydrographic location should be accepted as the correct location. No discrepancies in the offlying features or signals were found. The high water line in the vicinity of Pisa Tower, Ida, and His as shown on this sheet differs from the high water line as shown on the tracings compiled from the photographs of this area. The high water rocks shown on the rock reef have been sketched and are not necessarily correct as to number, size, shape, or location. The 17-foot elevation south of signal Big and east of signal Art is on a large rock. It was impossible, due to sea conditions the day the party was in this area, to make the numerous landings necessary to adequately locate the detail in this area. All signals located by this survey, both inside and outside the HWL, are whitewashed rocks.

The following signals were located on other graphic control sheets as shown:

Name	Other Location	Name	Other Location
Nip	DE-E-45	Oil	DE-E-45
Tub	"	Key	DE-E-45 & T-6972 B
Nod	"	Was	"

No discrepancies, greater than allowable differences in scaling, between the locations of the signals on Sheet DE-E-45 and this sheet were found. The signals also located on Sheet T-6972 B were checked against a photostat of that sheet and no discrepancies were found. The location of each signal was transferred to the boat sheets from the graphic control sheet whose scale corresponds with that particular boat sheet.

CONTROL: The control for Sheet A consisted of 9 triangulation stations. ^{T-7004a}
 The (USN) 1943 stations were located by the ship HYDROGRAPHER. ✓
 The 1944 stations were located by the parties from the USC&GS Ship EX-
 PLODER, with the exception of HUTCH and BLACK which were located by
 parties from the Ship SURVEYOR.

The control for Sheet D consisted of 9 triangulation stations ^{T-7004b}
 and two recoverable topographic stations. The 1943 stations were located
 by a U. S. Engineers' party using Coast Survey observing methods. Sta-
 tions SPARKS and GIBSON were located by a party from the SURVEYOR in 1944. ✓
 The other 1944 stations were located by parties from the EXPLORER. Tri-
 angulation station BIGO and topographic stations Pisa Tower and Yellow
 Beacon were located by parties from the DERICKSON in 1945.

AIR PHOTOGRAPHS: No air photographs of the area covered by Sheet A were ^{T-7004a}
 field inspected by parties from the DERICKSON during
 the 1945 season. ^{See T-8478(1946)}

The area included on Sheet D has been adequately covered by ^{T-7004b}
 three flights. Two flights, photographs numbers 2901-2V97 to 2V101 incl.,
 2901-2V125 to 2V131 incl., and 3277-1V1 to 1V4 incl., are on a 1:5000
 scale. The other flight, photographs numbers 73 to 102 incl., are on a
 scale of 1:10000. The 1:5000 scale pictures were field inspected this
 year and have been returned to the Washington Office. ^{See T-8476(1947)}

The shoreline in this area, for use on the boat sheets, was
 detailed from the photographs by parties from the EXPLORER in 1944. A
 difference between this shoreline and that determined by regular topo-
 graphic methods exists. This difference is largely due to interpretation. ✓
 The reef is rocky and vertical on its outer edge in this area. It is
 awash at MHW. There are numerous small, deep indentations, intra-
 spaced through the reef. Many large rocks of different sizes are on
 this reef. They vary in height from 1' to 45'. It is a question of
 whether the high water line should run along the edge of the rise back
 of the reef or along the outer edge of the reef. From seaward this
 outer edge would appear as the high water line to the mariner.

COMPARISON WITH CHART: The small amount of topography on Sheet A is in ^{T-7004a}
 general agreement with Chart No. 9128. ✓

The small amount of topography on Sheet D was compared with ^{T-7004b}
 that shown on Chart No. 9127. Differences were found as explained in ✓
 the last paragraph under "Air Photographs". All the rocks in the im-
 mediate vicinity of signals BIGO and BIG were rodded in from BIGO. No
 other rocks were seen by the topographer east or north as shown on the
 Chart.

LANDMARKS AND COAST PILOT have been submitted by the Chief of Party,
 under separate cover, for the entire project. ^{Chart Letter No. 781(1945)}
 L-781(1945)

GEOGRAPHIC NAMES shown on these sheets are from Charts No. 9126, 9127, and 9128 and are well known locally.

MAGNETIC DATA: The charted value of the magnetic declination in this area (taken from Charts No. 9127 & 9128) is 2° 45' E.

Magnetic observations (Sheet A) were made at three stations, using declinatoire # 244 in each case. The results were as follows:

Station	Time	Date	Obs.Value	I. C.	Cor.Value
DOME(USN)-1943	10:05 AM	31 May 1945	02° 21'E	-13'E	02° 08'E
SPRAY - 1944	11:50 AM	4 June 1945	01° 29'E	-13'E	01° 16'E
RIK(USN)-1943	09:50 AM	8 June 1945	03° 10'E	-13'E	02° 57'E

All observations on Sheet D were taken with declinatoire No. 175. See Director's letter dated 18 July 1945, reference 49-LG, for data on this instrument. It was impossible to set up over station GIBSON. A setup was made 18.4 meters from GIBSON toward and on range with RAN(USE). Additional observations were made in this area (near GIBSON and RAN(USE)) with the compass declinometer. The record of these observations have been forwarded under separate cover.

Station	Time	Date	Obs.Value	I. C.	Cor.Value
GIBSON	10:50 AM	29 June 1945	01° 29'E	-14'E	01° 15'E
BIGO	10:25 AM	1 July 1945	02° 45'E	-14'E	02° 31'E

Respectfully submitted,

J. E. Waugh

J. E. Waugh,
Lieut., U.S.C. & G.S.

Wm Hellman

W. M. Hellman,
Lt.(j.g.), U.S.C. & G.S.

Approved and forwarded:

L. C. Wilder

L. C. Wilder,
Lt. Comdr., U.S.C. & G.S.,
Chief of Party.

REVIEW SECTION

These surveys have been compared with overlapping surveys, with the charts and with the advance prints of photogrammetric Shoreline Surveys T-8476 (1947) and T-8478 (1946). The latter incorporate topographic details of the present survey. No further consideration is necessary.

The observations for magnetic meridian do not indicate the presence of a large local magnetic disturbance.

January 25, 1949


G. F. Jordan

NAUTICAL CHARTS BRANCH

SURVEY NO. T7004-ab

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
3/5/46	9127	J Walker	Before After Verification and Review Completely
2/26/46	9126	albert	Before After Verification and Review Partially
3/20/46	9198	J Walker	Before After Verification and Review Completely
11/23/49	9127	L. Shrad	Before After Verification and Review <i>(penetration)</i>
9-3-92	16423	Ed Martin	Before After Verification and Review new chart
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

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.