Form 504
U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>TOPOGRAPHIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>DE-A &amp; D-45</td>
</tr>
<tr>
<td>Office No.</td>
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<table>
<thead>
<tr>
<th>LOCALITY</th>
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<tr>
<td>State</td>
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<td>Locality</td>
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<table>
<thead>
<tr>
<th>CHIEF OF PARTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>L. C. Wilder</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LIBRARY &amp; ARCHIVES</th>
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<tbody>
<tr>
<td>DATE</td>
</tr>
<tr>
<td>JAN 2, 1945</td>
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</table>
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-D-45

REGISTER NO.

State

General Locality

Locality

Scale 1:10,000 Date of survey 29 June to 2 July, 1945

Vessel

Chief of party

Surveyed by

Inked by

Heights in feet above MHW to ground

Instructions dated 16 April, 1943

Remarks:

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SFO 290523
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 ___________________________________________________________________

Instructions dated ___________________________________________________________________
16 April, 1943

Remarks: ___________________________________________________________________

0° 268'33"
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
Khebânikof 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 OS-215 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 OS-215 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:
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 3 June 1945, inclusive. It includes that area between Alexai Point and the northern tip of Chirikof Point.

Sheet D, scale 1:10,000, is primarily a graphic control sheet. It covers the area from Khebânikof Point to Cooper Islands. It overlaps Sheet DE-E-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 DE-E-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 below. All planable 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.

T-7004 1
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. Yes and Log are waterfalls. All other sig-
nals 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 con-
fusion 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 R.I.K.(USN)-1943
and BLACK 1944 prevented further planetable cuts.
The foul area around Cry and Zed was located by cuts to the
tangents.

D.M.s and D.P.s are furnished for signal Row which was used on
hydrographic sheet H-7018, 1 to 40,000 scale.

Row 52° 50' 460 m. (-488m NAVD 1927 Datum)
173° 15' 944 m. (-83 m)

T-7004 b
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 lo-
eated 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:

<table>
<thead>
<tr>
<th>Name</th>
<th>Other Location</th>
<th>Name</th>
<th>Other Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mip</td>
<td>DE-E-45</td>
<td>Oil</td>
<td>DE-E-45</td>
</tr>
<tr>
<td>Tub</td>
<td></td>
<td>Key</td>
<td>DE-E-45 &amp; T-6972 B</td>
</tr>
<tr>
<td>Mod</td>
<td></td>
<td>Was</td>
<td></td>
</tr>
</tbody>
</table>

No discrepancies, greater than allowable differences in scal-
ing, 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 par-
ticular boat sheet.
CONTROL: The control for Sheet A consisted of 9 triangulation stations. The (USW) 1943 stations were located by the ship HYDROGRAPHER. The 1944 stations were located by the parties from the USCGS ship EXPLORER, with the exception of HUNCH and BLACK which were located by parties from the Ship SURVEYOR.

The control for Sheet D consisted of 9 triangulation stations and two recoverable topographic stations. The 1943 stations were located by a U. S. Engineers' party using Coast Survey observing methods. Stations SPARKS and GIBSON were located by a party from the SURVEYOR in 1944. The other 1943 stations were located by parties from the EXPLORER. Triangulation 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 field inspected by parties from the DERICKSON during the 1945 season.

The area included on Sheet D has been adequately covered by three flights. Two flights, photographs numbers 2901-2797 to 27V101 incl., 2901-27V25 to 27V31 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.

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 topographic 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, intraspace 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 general agreement with Chart No. 9128.

The small amount of topography on Sheet D was compared with that shown on Chart No. 9127. Differences were found as explained in the last paragraph under "Air Photographs". All the rocks in the immediate vicinity of signals BIGO and BIGO were rounded 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.
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 20° 45' E.

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

<table>
<thead>
<tr>
<th>Station</th>
<th>Time</th>
<th>Date</th>
<th>Obs.Value</th>
<th>I. C.</th>
<th>Cor. Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DONE(USN)-1943</td>
<td>10:05 AM</td>
<td>31 May 1945</td>
<td>02° 21' E -13' E</td>
<td>02° 08' E</td>
<td></td>
</tr>
<tr>
<td>SPRAY - 1944</td>
<td>11:50 AM</td>
<td>4 June 1945</td>
<td>01° 29' E -13' E</td>
<td>01° 16' E</td>
<td></td>
</tr>
<tr>
<td>RIK(USN)-1943</td>
<td>09:50 AM</td>
<td>8 June 1945</td>
<td>03° 10' E -13' E</td>
<td>02° 57' E</td>
<td></td>
</tr>
</tbody>
</table>

All observations on Sheet D were taken with declinatore No. 175. See Director's letter dated 16 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.

<table>
<thead>
<tr>
<th>Station</th>
<th>Time</th>
<th>Date</th>
<th>Obs.Value</th>
<th>I. C.</th>
<th>Cor. Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIBSON</td>
<td>10:50 AM</td>
<td>29 June 1945</td>
<td>01° 29' E -14' E</td>
<td>01° 15' E</td>
<td></td>
</tr>
<tr>
<td>BIGO</td>
<td>10:25 AM</td>
<td>1 July 1945</td>
<td>02° 45' E -14' E</td>
<td>02° 31' E</td>
<td></td>
</tr>
</tbody>
</table>

Respectfully submitted,

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,
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

[Signature]
S. F. Jordan
<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
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<tr>
<td>3/5/46</td>
<td>9127</td>
<td>J. Walker</td>
<td>Before After Verification and Review Completely</td>
</tr>
<tr>
<td>2/24/46</td>
<td>9126</td>
<td>Albert</td>
<td>Before After Verification and Review Partially</td>
</tr>
<tr>
<td>3/20/46</td>
<td>9198</td>
<td>J. Walker</td>
<td>Before After Verification and Review Completely</td>
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<tr>
<td>11/5/47</td>
<td>9187</td>
<td></td>
<td>Before After Verification and Review Reconstruction</td>
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<tr>
<td>9-3-92</td>
<td>76423</td>
<td>E. Martin</td>
<td>Before After Verification and Review New Chart</td>
</tr>
</tbody>
</table>

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.