

# 7000a

Graphic Control

Diag'd. on diag.ch. No. 8863-2

Form 504

U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Graphic Control

Type of Survey TOPOGRAPHIC

Field No. PA - C - 45 Office No. T-7000a

### LOCALITY

State Alaska

General locality Adak Island

Locality Kuluk Bay

194 5

### CHIEF OF PARTY

R. F. A. Studds

### LIBRARY & ARCHIVES

DATE JAN 22 1946

8-1870-1 (1)

# 7000a

Graphic Control

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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-C-45 (1)

REGISTER NO. T-7000a

State Alaska

General Locality Aleutian Is., Adak Island

Locality Kuluk Bay

Scale 1:10,000 Date of survey \_\_\_\_\_, 19 46

Vessel DERICKSON

Chief of party I. E. Rittenburg

Surveyed by \_\_\_\_\_

Inked by \_\_\_\_\_

Heights in feet above \_\_\_\_\_ to ground to tops of trees

Contour, Approximate contour, Form line interval \_\_\_\_\_ feet

Instructions dated 16 April 1943, 1 Feb. 1944, 19 \_\_\_\_\_

Remarks: \_\_\_\_\_

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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 - C - 45

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REGISTER NO.

State ALASKA

General locality Adak Island, Aleutian Islands

Locality Kuluk Bay

Scale 1:10,000 Date of survey August, 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 8 August, 1945

Remarks: Sheet PA - C - 45 has two separate descriptive <sup>0</sup>repts,  
one for each side of the sheet.

3 Recoverable  
Station Cards  
Submitted  
& filed

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

5 7000  
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REG. NO.

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 - C - 45

REGISTER NO.

State ALASKA

General locality Adak Island, Aleutian Islands

Locality Blind Cove to Kagalaska Strait

Scale 1:10,000 Date of survey August, September, 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 8 August, 1945

Remarks: Sheet PA - C - 45 has two separate descriptive reports,  
one for each side of the sheet

DESCRIPTIVE REPORT TO ACCOMPANY

TOPOGRAPHIC SHEET PA - C - 45

KULUK BAY, ADAK ISLAND, ALASKA

R. F. A. Studds, Chief of Party

August 1945

PA - C - 45(1):

INSTRUCTIONS: The survey was made in accordance with Instructions, Project 23, supplemental Instructions dated 8 August 1945, from the Liaison Officer, to revise, where necessary, previous surveys and to locate hydrographic signals in Kuluk Bay.

LIMITS: The area surveyed, scale 1:10,000, is the north and west shore of Kuluk Bay, from a junction with Sheet PA-A-45 at Latitude  $51^{\circ} 22.3'$ , Longitude  $176^{\circ} 37.6'$  to Head Rock.

GENERAL DESCRIPTION:

Control: Existing triangulation control, USED, USN and USC&GS, was used as the basis for the survey. Beginning at triangulation station NASHVILLE BEACON, a stadia distance traverse was run to RAN, at Zeto Pt., advantage being taken, where possible, of tying to triangulation stations. Cuts taken from NASHVILLE to all visible signals provided further checks on the traverse throughout its length. By cutting in RAN from the traverse setups, a good location was obtained to which the traverse checked by two meters, which error was adjusted.

Due to the impossibility of carrying a traverse around Zeto Point, a traverse was run from triangulation station HED to SAD. It was possible to check this traverse by three point fixes on triangulation stations at every setup and the traverse was run to a setup at TAN, which position was checked by a three point fix on NASHVILLE, FLAG-POLE and HED. No junction was made between the two traverses.



The insert on the sheet runs from NASHVILLE to a junction with Sheet PA-A-45, at TIE. The traverse run between these two stations checked at TIE within less than two meters.

Shoreline: Considerable changes had been effected by construction between TIE and GUS and the shoreline was re-run between these two points. A junction with the shoreline from the previous survey was made at GUS, where no changes have been made, and the junction checked satisfactorily. The shoreline from TIE to GUS was originally all sand beach, but earth and rock fill for road and airport construction extends to the waterline from NASHVILLE to GUS at present.

From GUS to the northern limit of the sheet, the shoreline is rocky with bluffs varying from 10' to 100', with the exception of the entrance to Clam Lagoon, which has shifting sand bars. This shoreline was not re-surveyed, and the shoreline in pencil on the sheet was transferred from a photostat of a previous survey. The oil dock in Latitude  $51^{\circ} 54.6'$ , Longitude  $176^{\circ} 35'$ , is in ruins and should be charted as such.

LANDMARKS: *L. 742 (1945)* During the field season a list of land marks for charts was submitted to the Washington Office. The important landmarks are as follows:

HEAD ROCK - important to vessels entering from northward, natural object making a good radar landmark, now charted.

TANK - - - triangulation station WATER TOWER, water tank on 100' hill north of Zeto Point which is most distinctive object ashore.

FLAGPOLE - valuable only when close in, cluster of buildings near flagpole, 100' elevation. *This is apparently "Radio Mast 1945" See H-7078*

ZETO BEACON - - - point on which located more valuable as landmark,  
75' elevation.

HIE - - - - - distinctive bluff (75') with beacon atop, valuable  
as object for locating vessels in bay.

NASHVILLE BEACON- very poor landmark as it blends in with the hillside  
on which it is located.

CHURCH SPIRE - - Latitude 51° 53' 1006.7 meters, Longitude 176° 38'  
602.3 meters, this object falls off the sheet, but  
it is mentioned in this report as it is the most prominent object visible when entering Kuluk Bay, the church is painted white and is the only white building in the vicinity.

DECLINATOIRE: A magnetic observation was made at triangulation HED  
with the following results:

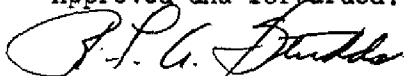
DATE: 6 August 1945

TIME: 0945 150th Meridian Time

DECLINATION: 13 degrees 25 minutes E.

Local attraction is indicated, and at the time of running the hydrography in Kuluk Bay with the PATTON the courses steered also indicated local attraction of varying intensity. From this, it appears desirable that a magnetic survey be made to ascertain the extent and intensity of the local attraction.

Approved and forwarded:



R. F. A. Studds  
Chief of Party  
Cmdg. PATTON

Respectfully submitted,



A. Gordon Anderson  
Topographer



DESCRIPTIVE REPORT TO ACCOMPANY

TOPOGRAPHIC SHEET PA - C - 45

BLIND COVE TO KAGALASKA STRAIT

ALEUTIAN ISLANDS

R. F. A. Studds, Chief of Party

August, September 1945

PA - C - 45(2):

INSTRUCTIONS: The survey was made in accordance with Instructions, Project 23, Supplemental, dated 8 August 1945, from the Liaison Officer. The purpose of the survey was to locate graphically hydrographic signals, scale 1:10,000.

LIMITS: The survey joins sheet PA-D-45 at its western limit at RF 2, 1945 and covers Blind Cove and the northern entrance to Kagalaska Strait, with the eastern limit at marked topographic station END.

GENERAL DESCRIPTION AND METHODS: 1945 triangulation in the area was used as the basis of the survey. Sufficient control was available to make traversing unnecessary. All signals were located by a combination of short traverses, stadia distance and intersection, with a check provided on all but a few control points.

No shoreline was run on this sheet. Aerial photographs of the area were not available. The shoreline is, in general, very steep and precipitous, with deep water close inshore. The shoreline appears to be correctly interpreted and delineated on the U.S. Engineers Quadrangles (see letter from Liaison Officer dated 22 August 1945).

No declinoire observations were made.

The marked topographic stations on the sheet are

BUN and END.

Approved and forwarded:

*R. F. A. Studds*  
R. F. A. Studds, Cmdg. PATTON

Respectfully submitted,

*A. Gordon Anderson*  
A. Gordon Anderson  
Topographer



## NAUTICAL CHARTS BRANCH

SURVEY NO. 7000

## Record of Application to Charts

[illegible]

M-216B-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.

7000b

Graphic Control

Diag'd. on diag. ch. No. 8863-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Graphic Control

Type of Survey TOPOGRAPHIC

Field No. PA-C-45 (2) Office No. T-7000b & a

LOCALITY

State Alaska - Aleutian Islands

General locality Adak and Kagalaska Islands

Locality Blind Cove and Kagalaska Strait

1946

CHIEF OF PARTY

I. E. Rittenburg

LIBRARY & ARCHIVES

DATE JAN 2 1948

G-1870-1 (1)

7000b

Graphic Control

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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-C-45 (2)

REGISTER NO. T-7000b

State Alaska - Aleutian Islands

General locality Adak and Kagalaska Islands

Locality Blind Cove and Kagalaska Strait

Scale 1:10,000 Date of survey 5 Aug. & 17 Sept., 1946

Vessel Ship DERICKSON

Chief of party I. E. Rittenburg

Surveyed by F. B. Quinn

Inked by F. B. Quinn

Heights in feet above ----- to ground to tops of trees

Contour, Approximate contour, Form line interval --- feet

Instructions dated 17 March, 1946

Remarks: The work accomplished under this report is that of the Ship DERICKSON in 1946. It is a continuation of the work of the Ship PATTON in 1945. Further work is required on this sheet.

GPO

*See Sp. 42182 Advance Sheet*



DESCRIPTIVE REPORT

To Accompany

Topographic Survey T-7000b, Field No. PA-C-45 (2)

Scale 1:10,000

Blind Cove and Kagalaska Strait, Adak and Kagalaska Is., Alaska

I. E. Rittenburg, Chief of Party

USC&GSS DERICKSON

August-September 1946

AUTHORITY: (A) Director's revised Instructions for Project CS-218, dated 16 April 1943 and 1 February 1944.

(B) Instructions from F.B.T. Siems, C&GS/17ND, for Project 23 (Supplement I) -- ADDITIONAL HYDROGRAPHY, KULUK BAY AREA, dated 17 March 1946.

GENERAL: This sheet contains graphic control in Blind Cove and across the north entrance of Kagalaska Strait surveyed in 1945 by the Ship PATTON, and graphic control in Kagalaska Strait and Laska Cove surveyed in 1946 by the Ship DERICKSON. Additional work is required at the junction of the work done in the two years. Proper junction was not obtained in 1946 because sea conditions prevented landing on the open coast while the party was working in this area.

The work in 1946 was limited to Laska Cove and that part of Kagalaska Strait adjacent to it. The narrow arm at the east end of Laska Cove was marked with whitewashes, but no locations were obtained in the brief time spent on this sheet. Whitewashes were renewed and new ones established in the east side of Blind Cove but they have not yet been surveyed because of the sea conditions at the time of the survey. Whitewashes were also established but not located southward from the limits of the survey in 1946.

CHARACTER OF CONTROL USED: The triangulation stations established by the Ship PATTON in 1945 were recovered and used. This arc was originally run by the U. S. Navy in 1933, and excellent agreement exists between the positions obtained in the two years.

DESCRIPTION OF SURVEY METHODS USED: Planetable triangulation was used almost exclusively in 1946, but stadia readings were made to nearby stations as an additional check. Short lengths of shoreline were rodded from four of the eight setups. Good intersections were obtained, as shown by the pencil cuts on the sheet.

AIR PHOTO INSPECTION: Two topographic stations, OAK and PUP, were identified on air photographs taken by the U. S. Army on 27 July 1943. A separate report on field inspection of air photographs, including these stations, has been forwarded to Washington.

FORMLINE VERIFICATION: No elevations were taken.

COMPARISON WITH PREVIOUS SURVEYS: No complete junction was made with the work done in 1945, but single cuts from station VET 1946 to FRY and CON (1945) fell approximately 13 meters east of the positions determined in 1945. This apparent discrepancy occurs at extreme limits of field work in both years, and should be further investigated when the graphic control is completed to triangulation station "R.F.1 1945". At the same time comparison can be made with BUN 1945 and other topographic stations along the east side of Blind Cove.

JUNCTIONS WITH OTHER SHEETS: Graphic Control Sheet DE-A-46 (a) joins this sheet at triangulation station R.F.1 1945. Sheet DE-B-46 (a) was prepared in 1946 for a junction at the southern limit of Sheet 7000b, but no field work was accomplished on it in 1946. It is available for future use.

NEW NAMES: No new names are recommended.

PHOTOGRAPHS: No photographs were taken to supplement this survey or to illustrate equipment used.

STATISTICS:

Statute Miles of Shoreline (Graphic Control) --- 4.0  
Number of days of Field Work ----- 2  
Days of Field Work -- 5 August and 17 September 1946

*Francis B. Quinn*  
Francis B. Quinn,  
Lt. Comdr., USC&GS.

Approved and Forwarded,

*I. E. Rittenburg*  
I. E. Rittenburg,  
Lt. Comdr., USC&GS.  
Chief of Party.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

POST-OFFICE ADDRESS: 1500 Westlake Ave. N., Seattle 9, Washington

TELEGRAPH ADDRESS:

XPRESS ADDRESS:

10 December 1947

To: The Director  
U. S. Coast and Geodetic Survey *7063a*

Subject: Topographic sheets T-7000 and DE-A-46

*T 7063 a*

Topographic sheets T-7000 and DE-A-46 are unfinished sheets at Adak and Kagalaska Islands in the Aleutians. When they were transmitted to the Processing Office after the 1946 season, Lt. Comdr. Rittenburg requested that they be held and returned to the ship for completion. Now another season has passed without work being continued in that area and we have recently sent to Washington the last hydrographic sheet in this vicinity. So the two plates are also being forwarded to Washington.

*# 7605*

*T 7063 a*

The signals on DE-A-46 (a) were replotted on the smooth sheet DE 3146 from the same sextant and theodolite angles used on the graphic control sheet, so there is no necessary data on that side of the plate. On DE-A-46 (b) is a survey of the west arm of Finger Bay on scale of 1:5,000. A print of this survey was sent to you 31 March 1947. A print of T-7000b was sent also to you at that time.

There is no report for T-7000a.

*Edgar E. Smith*

Edgar E. Smith  
Cartographic Engineer  
Seattle Processing Office