

Diag'd. on Diag. Ch. No. 8863-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. DE-C-46 (a) Office No. T-7035 a

LOCALITY

State Alaska - Aleutian Islands

General locality Adak Island

Locality Head Rock to Cape Adagdak

1946....

CHIEF OF PARTY

I.E.Rittenburg

LIBRARY & ARCHIVES

DATE MAR 6 1947

8-1870-1 (1

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-C-46 (a)

REGISTER NO. 2-7035 a

State Alaska - Alsutian Islanda
General locality Adak Island
Locality Head Rock to Cape Adagdak
Scale 1:10,000 Date of survey August
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 intervalfeet
Instructions dated
Remarks:

G P O

DESCRIPTIVE REPORT

To Accompany

Topographie Survey T-7035_a(Field No. DE-C-46-a)

Scale 1:10,000

Head Rock to Cape Adagdak, Adak I., Alaska

I. E. Rittenburg, Chief of Party

USCAGSS DERICKSON

August: 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.
- (C) Further instructions by Capt. Siems to investigate position difference between signal DIM (1945) on Topographic Sheet 7000(a) and small rocky islets (1943) on Topographic Sheet 6930(a).
- GENERAL: From the southern limit of the sheet to signal ACE, the shoreline is rocky and rugged, and there are some offshore rocks.

From signal ACE to signal NEW, the beach is sand and gravel with numerous small boulders at the waterline and in the water close to shore. Clam Lagoon lies a short distance west of this beach, separated from it by a low, narrow neck of land.

From signal NEW to Cape Adagdak at the northern limit of the sheet, the shoreline is narrow and strewn with boulders from the steep slopes back of it. Many boulders have rolled into the water a considerable distance and appear as rocks awash or as sunken rocks.

A large, dense kelp field lies offshore in the vicinity of signals SHE and RUM at Cape Adagdak. A narrow, broken kelp patch fringes the beach for nearly the full length of the sheet, varying from contact with the beach to a distance of 50 to 100 meters offshore. This kelp is apparently attached to boulders on the bottom.

LANDMARKS: No new landmarks are recommended. Complete coverage was made in 1943 and 1945.

CHARACTER OF CONTROL USED: Triangulation stations HED (USN) 1933-34, NORTH (USN) 1934, SOUTH (USN) 1934, and WATER TOWER 1945 were used and found to be in good agreement. They are all on the Unalaska datum.

DESCRIPTION OF SURVEYING METHODS: This sheet is primarily a graphic control sheet, and standard methods were used throughout. Strong planetable triangulation rigidly controls the positions of signals from the southern limit of the sheet to signals SET and LOW, as indicated by the pencil intersections left on the sheet. The order of setups has also been left on the sheet in pencil.

For the area north of signals SET and LOW, long azimuth lines were plotted by planetable to most of the signals from triangulation station HED and other stations at the southeast part of the sheet; and stadia was carried ahead with forward and backward distances being read in most cases, and a few skip setups being found necessary. Progressive azimuth cuts were projected ahead as the stadia work was accomplished. Good agreement was found between the azimuths and the stadia distances over the entire distance.

The positions of signals JAP, GUS and ACE, which were not visible from all planetable setups, were strengthened and verified by one sextant cut each taken from a boat offshore.

* not registered in Wash, Office

Offshore sextant cuts on ship hydrography sheet DE-3146 verify the positions of signals INN and YEL, which fall on the northern limit of the survey where no triangulation was available.

A triangulation check on signals just west of signal INN was planned with stations in the vicinity of the north end of Andrew Lagoon.

All circled offlying rocks were rodded from nearby signals. Those shown uncircled indicate unusually heavy grouping near the steep slopes back of the beach, but they have not been rodded in.

AIR PHOTO INSPECTION: A separate report covers air photo inspection of this area. The following signals were identified, with the aid of a magnifying glass, on AAF photos when the planetable was setup on or near the stations: INN, YEL, SHE, RUM, OAK, MAX, SET, JAP, NEW, ICE, and triangulation station NORTH.

None of the topographic signals were marked, but it is believed that the whitewashes on them will last for a year or two in the areas where additional hydrography is required. JAP and SET are, respectively, the fronts of a small shack and a Quonset hut, as indicated on the sheet. Many of the rock signals can be recovered with the aid of the air photos, some being prominent offshore rocks.

FORMLINE VERIFICATION: No elevations were taken.

CHANGES IN FEATURES AND SHORELINE: No changes were noted.

COMPARISONS WITH PREVIOUS SURVEYS: Sheet T-7000(a), scale 1:10,000, 1945, joins this sheet at the southern limit. Sheet T-6930(a), scale 1:20,000, 1943, covers the entire area.

Signal BOT was located independently on all three sheets and excellent agreement was obtained. Signal LES was also determined independently in 1945 and 1946 with excellent agreement.

Signal DIM originally located in 1945 falls on a rock located in 1943, but the Processing Office at Seattle found it fell off the rock when the two years' data were combined. This signal was relocated in 1946 and the rocks resurveyed. The position of the rocks appeared to check satisfactorily, but the position of the signal differed about 8 meters. It is thought that an erroneous cut was used in plotting the 1945 position on the topographic sheet, because another cut found passing through the signal circle fitted the 1946 position. The 1946 position appearing on Sheet DE-C-46 (a) supergedes the 1945 position.

Good agreement exists between the positions of the other offshore rocks appearing on the 1943 and 1946 sheets.

NEW NAMES: No new names are recommended. the names HEAD ROCK and CAPE ADAGDAK, used in this report, appear on USC&GS Chart 9193.

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

STATISTICS:

Statute Miles of Shoreline (Graphic Control) --- 7.2 Days of Field Work -----Dates of Survey ----- 9, 15, 16 August 1946

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

Arancis B Luin

Approved and Forwarded,

I. E. Rittenburg.

Lt. Comdr., USC&GS, Chief of Party.

Forwarded, with contemporary hydrographic surveys. No further review by the Hydrographic Surveys urg,

7. Dinsmore 11/10/47

2 December 1946

Topographic Sheet DE-C-46 (a) and the basic control used on it are approved.

The sheet was examined in the field and found to be complete and adequate. The descriptive report covers all pertinent details.

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

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Diag'd. on Diag. Ch. No. 8863-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey ____TOPOGRAPHIC

Field No. DE_C_46 (b) Office No.T-7035 b

LOCALITY

State Alaska - Alentian Islands

General locality Great Sitkin Island

Locality Sand Bay

194 6

CHIEF OF PARTY

I.E.Rittenburg

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DATE MAR 6 1947

B-1870-1 (1)







Revised foreshare & show rocky reef male of sand & side of Sand hay for a distance of about 400 yes. applied to charte 9/39

no correction to scale of 9193 2m.a.

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. DESC. 16 (b)

REGISTER NO. T-7035 b

State Alaska - Aleutian Islands
General locality Great Sitkin Island
LocalitySand Bay
Scale 1:5000 Date of survey June 4 July , 1946
Vessel Ship DERICKSON
Chief of party I.E.Rittenburg
Surveyed byF.B.Quinn
Inked byF.B.Quinn
Heights in feet above to ground to tops of trees
Contour, Approximate contour, Form line interval feet
Instructions dated, 1946
Remarks: Part of detail CONFIDENTIAL. See Descriptive Report.

DESCRIPTIVE REPORT

To Accompany

Topographic Survey T7035-b (Field No. DR-C-46-b)

Seale 1:5000

Sand Bay, Great Sitkin I., Alaska

I. E. Rittenburg, Chief of Party

USC&GSS DERICKSON

June-July 1946

AUTHORITY: Instructions by USC&G Survey Officer, 17ND, NOB Adak, Alaska, Serial #54., dated 26 June 1946.

PURPOSE OF SURVEY: To locate additional piers and mooring buoys; and to establish control for a large-scale hydrographic survey in Sand Bay, in accordance with a request of the U. S. Navy.

CAUTION: The preliminary chart compiled from this topographic sheet
and Hydrographic Sheet*DE-05146 was classified "CONFIDENTIAL"

by the 17ND. The names of piers and buildings, and the locations of pipelines, shown on this sheet are given as a matter of record but should be
omitted from any charting of the area.

GENERAL: The shoreline, except at both ends of the surveyed area, consists of gently-sloping, wide sand beach, with a grass-line indicated by a solid black line above the highwater line. At the northwestern limit of the sheet, westward from signal DIF, the shoreline is rocky with a low grassy bluff. The southern limit, southward from signal RAT, is rocky.

A small valley extends northeastward from the vicinity of the Administration Building, and the stream that crosses the beach near signal JOB originates in it. A second valley extends northward from the vicinity of signals GAS and FUN, and is the source of the stream terminating between them.

LANDMARKS: A separate list of CONFIDENTIAL Landmarks for Charts has been prepared. In addition to the objects listed, the numerous fuel tanks on the hillside and in the valley back of the Administration Building show prominently when the bay is approached.

CHARACTER OF CONTROL USED: The control of this sheet is based on two recevered topographic stations, RADIO RANGE (1945) and ICE (1943). Positive recovery of both stations was assured because no alterations of the Radio Range pole had been made since its location in 1945 and whitewash placed on station ICE in 1945 was still in fair condition when the survey was started in 1946.

The position of RADIO RANGE determined by the USC&GSS PATTON in 1945 was used as given in attached letter to the Commandant, Seventeenth Naval District, Adak, Alaska. The position plotted was: Latitude 51° 59° 1245m.; Longitude 176° 07° 26m. (Unalaska Datum)

The position of ICE given on the 1943 description by G. C. Mattison, USCEGSS EXPLORER, and shown on Topographic Sheet "C" of that year, was corrected to the Unalaska Datum by applying (plus) 307m. to the Latitude and (minus) 327m. to the Longitude. These corrections were obtained by proportioning geographically the differences between the Navy Datum and the Unalaska Datum from triangulation stations GREAT SITKIN (USN) 1934 and ASUKSAK (USN) 1934 as shown in attached letter from the Commandant, SEVENTEENTH Naval District. The position plotted was: Latitude 51° 58° 691m., Longitude 176° 05° 181m.

This survey is therefore co-ordinated within itself.

It was hoped that a further asimuth check could be obtained by projecting and using as an azimuth orientation line the azimuth between GREAT SITKIN and RADIO RANGE, but it was found that the line was obstructed to planetable work.

DESCRIPTION OF SURVEYING METHODS: All topographic signals were located by the method of planetable triangulation, supplemented by check rod readings from nearby set-ups. Shoreline and structural details were largely obtained from subsequent set-ups at or near the control points established. The positions of the major set-ups have been indicated on the sheet in pencil.

The Low Water Line is correct within one to two meters, since it was obtained entirely at low tide with frequent checks against two tide staffs for which the values of mean lower low water were known.

No air photographs were available for field inspection, but it is believed sufficient objects have been located on the sheet to facilitate the orientation of later photographs.

FORMLINE VERIFICATION: No elevations were taken.

CHANGES IN FEATURES: The position of the stream outlet between signals

FUN and GAS is a new location, having been cut through
by the U. S. Navy about two weeks before the survey was made. Further
change in the shoaling off this stream may be expected.

COMPLETENESS AND RELIABILITY OF THIS SURVEY: This survey is considered complete and reliable.

DEVIATION FROM STANDARD METHODS: No deviations were made.

COMPARISONS WITH PREVIOUS SURVEYS: The previous survey in 1943 was signal locations only, so no comparison could be made.

NEW NAMES: No new or additional place names are recommended.

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

CHANGES IN COASTLINE: Reference is made to the change described in the previous paragraph on CHANGES IN FEATURES.

STATISTICS:

Statute Miles of Shoreline ---- 3.0
Days of Field Work ---- 22

Trancis B. Zeener Francis B. Quinn, Lt. Comdr., USC&GS

Approved and Forwarded,

I. E. Rittenburg, Lt. Comdr., USC&GS, Chief of Party. This graphic control survey has been compared with contemporary hydrographic surveys. No further review by the Hydrographic Surveys Section is necessary at the present time.

2. A. Dinsmore 3/8/48 Address reply to Commandant

and refer to ND17/H2=20(A) FETS/hs Serial 01806

Headquarters

SEVENTEENTH NAVAL DISTRICT

Fleet Post Office, Seattle, Washington

August 16 1945

CONFIDENTIAL

From: To: The Commandant, SEVENTEENTH Naval District.
The Commanding Officer, USC&GSS PATTON.

Subject:

Radio Range, Sand Bay, Great Sitkin Island.

Enclosures:

(A) 709th AAF Base Unit 1tr. No. 413.44 of 10

August 1945.

(B) Print of Hydrographic Survey 1943, Sand Bay,

Great Sitkin Island.

- At such time when you have sufficient data available (including prepared topographic projection), and when it will least interfere with the progress of the work assigned; you will proceed to Sand Bay, Great Sitkin, and locate the center pole, highest one of five, supporting the antennae of the Radio Range established near the northeast shore of Sand Bay.
- 2. The position of the Radio Range, reported in paragraph 2 of enclosure (A), is in question; it is probably referred to USN datum rather than Unalaska datum.
- 3. The geographic positions of stations GREAT SITKIN and ASUKSAK referred to the USN datum and Unalaska datum are as follows:

Latitude

Longitude

*GREAT SITKIN (USN datum) GREAT SITKIN (Unalaska datum) diff.	51° 59° 52 00 plus	51.823 176° 11° 01.757 176 11 09.934 minus	31.097 Corr from 13.970 USN
*ASUKSAK (USN datum) ASUKSAK (Unalaska datum) diff.		54!771 \ 1760 064 04.688 \ 176 06 09!917 minus	31,294 to Unalasky

(*From USN Triangulation Diagram)

The descriptions of these stations are given in "Alaska No. 72" (lithographed) pamphlet entitled KASATOCHI ID to KANAGA ID, transmitted to you 26 May 1945.

August 16 1945

CONFIDENTIAL

Subject: Radio Range, Sand Bay, Great Sitkin Island, (Cont'd)

- 4. Enclosure (B) apparently is based on the two triangulation stations (USN datum) and a graphic control. The Washington Office has been requested to furnish a copy of the topographic sheet of this area as well as the descriptions of recoverable topographic stations.
- A determination of the position of the range of accuracy within \$2.5 second of Latitude and \$2.1 second of Longitude of their respective true values is acceptable. This accuracy is considered attainable by graphic triangulation, based on recoverable topographic stations in Sand Bay. However, a reconnaissance may indicate that a simple triangulation based on stations GREAT SITKIN and ASUKSAK would be practicable and provide a more economical method for locating the range.
- 6. The position determined shall be expressed in geographical coordinates, both USN and Unalaska datum; together with scaled or computed azimuth and distance from triangulation station GREAT SITKIN.

F. B. T. SIEMS, USC&GS Officer by direction

cc: Director, USC&GS (3)

Rev. April 1942).

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

T7035 a Ch. L. 130(1940)

LANDMARKS FOR CHARTS
ISCAMS DEPUBLINGOR

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I recommend that the following objects which have (satisfied been inspected from seaward to determine their value as landmarks, be charted on (satisfied) the charts indicated, subject to authority of U.S. Favy.

The positions given have been checked after listing.

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landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS," Positions of charted charts of the area and not by individual field survey sheets. Information under each column heading should be given.

IL S. COVERNMENT PRINTING OFFICE 16-27869-

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Form 567 (Rev. April 1942)

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

T7035 a Ch. L. 13 (1947)

LANDMARKS FOR CHARTS
USCECSS DERICESON

19 46 400 Insurance Bldg., Seattle 4, Wash. 14 Nov.

I recommend that the following objects which have (virginity been inspected from seaward to determine their value as landmarks, be charted on (violence in the charts indicated, subject to authority of U. S. Navy.

The positions given have been checked after listing.

STRIKE OUT ONE

TO BE CHARTED

These Landmerks are CONTIDENTIAL and should not be charted without previous authority of the U.S. Navy. The survey in 1946 and excepted without previous authority is specified to the U.S. Navy. The survey in 1946 and excepted without previous authority is specified to the U.S. Navy. The survey in 1946 and excepted without previous authority is specified to the U.S. Navy. The survey in 1946 and excepted without previous authority is specified to the U.S. Navy. The survey in 1946 and excepted without previous authority is specified to the U.S. Navy. The survey in 1946 and excepted without previous authority is specified to the U.S. Navy. The survey in 1946 and excepted without previous authority is specified to the U.S. Navy. The survey in 1946 and excepted outlined to the U.S. Navy. The survey in 1946 and excepted without previous authority is specified to the U.S. Navy. The survey in 1946 and excepted without previous authority is specified to the U.S. Navy. The survey in 1946 and excepted without previous authority is specified to the U.S. Navy. The survey in 1946 and excepted without previous authority is specified to the U.S. Navy. The survey in 1946 and excepted without previous authority is specified to the U.S. Navy. The survey is specified to the U.S. Navy. The U.S. Navy. The Survey is specified to the U.S. Navy. The U.S.	GENERAL				POSITION	ZO						19	TAA	TRA
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landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." Positions of charted charts of the area and not by individual field survey sheets. Information under each column heading should be given.

G. S. GOVERNMENT PRINTING OFFICE 16-27869-

(Copy of letter to The Commandant, Seventeenth Naval District)

USS PATTON, c/o Fleet Post Office, Seattle 4, Washington.

RFAS/dd

DEPARTMENT OF COMMERCE

CONFIDENTIAL

U.S. Coast and Geodetic Survey

19 September 1945

Commandant, Seventeenth Naval District To: Adak, Alaska.

Subject: Radio Range, Sand Bay, Great Sitkin Island

Reference: (A) Commandant's ltr. ND17/H2-20(A), FBTS/hs, Serial 01806, dated 16 August 1945.

Enclosure: (A) Army Airways Communication System, 709th AAF Base Unit 1tr. 413.44 of 10 August 1945.

In accordance with above reference (A), the center pole, highest one of five, supporting the antennae of the Radio Range, near the northeast shore of Sand Bay, Great Sitkin Island, was located on 12 September 1945.

Method of Location:

A projection, scale 1:20,000 was made on an aluminum mounted sheet and the following signals plotted on Navy Datum:

> Triangulation Station GREAT SITKIN Topographic Station PIN (described)

OWL ICE

HIL (scaled)

B- H +T Recoverable Cards filed

Stations GREAT SITKIN, OWL and ICE were occupied by plane-table. Recovery of each station was assured by checking orientation on each plotted station. Cuts were taken to the pole from the three stations occupied, the three cuts intersecting exactly in a point.

Results:

The position of the pole, as thus determined is:

Navy Datum: Latitude 51° 59° 30.41° (940m.)
Longitude 176° 07° 18.34° (350m.)

Unalaska Datum: Latitude 51° 59° 40.38° (1248m.)
Longitude 176° 07° 01.36° (26m.) Longitude 176° 07° 01.36" (26m.)

Radio Range - 2

Azimuth from Station GREAT SITKIN: N 970 49 E.

Distance from Station GREAT SITKIN: 4,864 meters.

It is obvious from the above results that the position of the pole as given in paragraph 2 of Enclosure (A) is on Unalaska Datum.

R. F. A. Studs Lt.Comdr., C&GS Cmdg., USS PATTON

C.C. Dist. Com Office, Com 17

APPROVAL SHEET

22 November 1946

Topographic Sheet DE-C-46 (b) and the basic control used on it are approved.

The sheet was examined in the field and found to be complete and adequate. The descriptive report covers all pertinent details.

I.E.Rittenburg, Lt.Comdr., USC&GS,

Chief of Party.