6921

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. ..... *Office No.* H-6921

LOCALITY

State Alaska

General locality Andreanof Aleutian Islands

Locality ~~Great Sitkin Island~~ Sand Bay

194 ~~4~~

CHIEF OF PARTY

Casper M. Durgin
SURVEYOR

LIBRARY & ARCHIVES

DATE .....

B-1870-1 (1)

6921

Form 537
Ed. Dec. 1930

REG. NO.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. Sand Bay

REGISTER NO. H-6921

State Alaska

General locality Andreanof Islands ~~Aleutian Islands - Great Sitkin Island~~

Locality Sand Bay

Scale 1:2,400 Date of survey April, 1945

Vessel SURVEYOR

Chief of Party Casper M. Durgin

Surveyed by L. S. Hubbard

Protracted by Betty B. Jones

Soundings penciled by Betty B. Jones

Soundings in ~~fathoms~~ feet Feet

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by A.R. Stirni

Verified by A.R. Stirni

Instructions dated Surveyed on request of the Navy, 19

Remarks: Smooth sheet and Plotting by the Seattle Processing Office.

U. S. GOVERNMENT PRINTING OFFICE

CAG

HYDROGRAPHIC SURVEY - Sand Bay
Great Sitkin Id.

Ship SURVEYOR

CASPER M. DURGIN
Comdg.

April 24-25, 1943

- -

The survey in Sand Bay was made at the request of the U. S. Navy. The purpose of the survey was to determine the location of a proposed wharf.

CONTROL

The local construction battalion in charge of the surveying operations had established a measured base on shore. Points were selected on this base and hydrographic signals erected. These signals were later located by graphic control on ~~an aluminum mounted~~ topographic sheet. T-6231 (1943) Standard plane-table methods were employed. This sheet was started by personnel of the Ship SURVEYOR and turned over to the Ship EXPLORER for completion.

METHODS

Standard launch hydrographic methods were employed. A Portable Depth Recorder, Type 808A, was used for all soundings.

TIDE REDUCERS

A tide staff was maintained by the Navy. During sounding operations observations were made on the staff and soundings on the boat sheet were reduced to the zero of the tide staff.

FATHOMETER CORRECTIONS

No temperature and salinity observations were made. The same fathometer corrections as determined on Project CS-218 (Atka I)

were entered in the sounding records.

H-6921

Seattle Processing Office Notes

Datum of Smooth Sheet-

Unalaska unadjusted.

Control-

The sole control is a measured line with signals set at station points. These stations were later shown on T-6931, (1943) scale 1:20,000. The topographic distance between the ends of the line is 5 meters shorter than the measured length. The end stations were scaled from the 1:20,000 Whatman sheet (T-6931) (1000) (1943) and were plotted on the 1:2,400 hydrographic sheet (H-6921). (1943) The discrepancy in length was then equally adjusted at each end of the line to the measured length, the azimuth of the line being fixed by the plotting of the scaled points.

There is also a slight difference between the azimuth of the line on T-6931 (1000) (1943) and the azimuth noted on the boat sheet. The topographic bearing was used, presuming it is in proper relation with the rest of our work. As transferred to H-6921, (1943) the bearing is S 48° 28' E against S 48° 42' E as stated on the boat sheet. The method of obtaining the azimuth shown on the boat sheet is not known.

The aluminum mounted sheet mentioned under CONTROL on the first page of the report by the field party was not turned in, and it is presumed that the Whatman sheet T-6931 (1000) (1943) including a larger area was substituted for it.

Tides-

Navy staff readings are entered on page 2 of the sounding record, but the staff reading of MLLW is not known.

Tide reducers were furnished by the Washington Office. See letter from the Director, 36-mlh, of May 30, 1944 to Officer in Charge, Seattle Processing Office.

Statistics-

Statute Miles of Sounding Line	8.5
Positions	143
Area - Square Statute Miles	0.2

TIDAL NOTE

H-6921

Aleutian Islands

Great Sitkin Island

Sand Bay

Tide Reducers were furnished by the
Washington Office.

See Director's letter, 36-mlh, of May 30, 1944,
to Officer in Charge, Seattle Processing Office.

Respectfully submitted,

Edgar E. Smith

Edgar E. Smith
Assoc. Cartographic Engineer
Seattle Processing Office.

Approved and Forwarded:

F. H. Hardy

F. H. Hardy
Officer in Charge,
Seattle Processing Office.

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. H6921

Records accompanying survey:

Boat sheets ....; sounding vols. ....; wire drag vols. ....;

bomb vols. .....; graphic recorder rolls .....;

special reports, etc. .....

.....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet		143
Number of positions checked		10
Number of positions revised		—
Number of soundings recorded		1000 (Estimate)
Number of soundings revised (refers to depth only)		3
Number of soundings erroneously spaced		—
Number of signals erroneously plotted or transferred		—
Topographic details	Time	8
Junctions	Time	—
Verification of soundings from graphic record	Time	2

Verification by... A.R. STIRN. Total time 16 Date 9/29/44

Review by ... R.H. Carstens Time 9.4 Date 10/2/44

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. June 1937

RQC
ATC

TIDE NOTE FOR HYDROGRAPHIC SHEET

June 30, 1944.

~~Division of Hydrography and Topography:~~

✓ Division of Charts: Attention: H. R. EDMONSTON

Plane of reference approved in
1 volumes of sounding records for

HYDROGRAPHIC SHEET 6921

Locality Sand Bay, Great Sitkin I., Aleutian Islands, Alaska

Chief of Party: C. M. Durgin in 1943
Plane of reference is mean lower low water reading
4.5 ft. on tide staff at Sand Bay
7.8 ft. below B. M.1

Height of mean high water above plane of reference is 3.6 feet.

Condition of records satisfactory except as noted below:

E K Green
Chief, Division of Tides and Currents.

U. S. GOVERNMENT PRINTING OFFICE 154827

GEOGRAPHIC NAMES

Survey No. H6921

Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Alaska										1
Andreanof Is.		515 760								2
Sand Bay		"		(USGS-B)						3
Great Sitkin I		520 760			"					4
										5
										6
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										26
										27

Names underlined in red approved by L. Heck on 10/11/44

M 234

FORM M-238

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY / DESCRIPTIVE REPORT / PHOTOSTAT OF } No. H H6921 No. T { received / registered / 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.

ROUTE		Initial	Attention called to
20			
22			
24			
25			
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	

✓ Rwlc

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY REGISTRY NO. 6921

Alaska, Andreanof Islands; Sand Bay
Surveyed in April 1943; Scale 1:2,400
Instructions dated April 16, 1943

Soundings:	Control:
808 Fathometer	Three-point fix on shore signals

Chief of Party - C. M. Durgin
Surveyed by - L. S. Hubbard
Protracted by - B. B. Jones
Soundings plotted by - B. B. Jones
Verified and inked by - A. R. Stirni
Reviewed by - R. H. Carstens
Inspected by - H. R. Edmonston, October 4, 1944

1. Shoreline and Signals

The signals originate with T-10001 (1943) and are adjusted slightly on the present survey to measured distances between signals, as explained in the descriptive report.

No large scale topographic survey of this area is available for the shoreline.

2. Sounding Line Crossings

No system of crosslines was run on this survey.

3. Depth Curves and Submarine Relief

The usual depth curves of 3 fathoms and deeper could be satisfactorily drawn.

The submarine relief is the typical uniformly sloping bottom usually found in coves.

4. Junctions with Contemporary Surveys

The junction with H-6918 (1943) on the south is satisfactory.

5. Comparison with Prior Surveys

H-6895 (1934) 1:15,000

There is general agreement with this U. S. Navy Survey. The present survey is adequate to supersede it within the common area.

6. Comparison with Chart 9115 (latest print dated 3-29-44)

a. Hydrography

The charted hydrography originates with Bp. 37428, a compilation of boatsheet soundings from surveys of 1943. The present survey is adequate for charting the common area.

b. Aids to Navigation

Two of the three charted buoys in the vicinity of Lat. 51°59.7', Long. 176°06.0' are shown on the present survey and are in satisfactory agreement with the charted positions. These buoys were described in the sounding records as mooring buoys.

7. Condition of Survey

Satisfactory except that no list of fathometer corrections was included in the sounding records.

8. Compliance with Instructions for the Project

Satisfactory, except that no crosslines were run and no bottom characteristics were taken.

9. Additional Field Work Recommended

None.

10. Superseded Surveys

H-6895 (1934) in part

Examined and Approved:

Robert W. Knox
Chief, Surveys Branch

F. C. Brown
Chief, Division of Charts

Earl O. Heaton
Chief, Section of Hydrography

G. F. Rude
Chief, Division of Coastal Surveys

applied to Ch 9139 after review – F.M.A. 10/7/44