

6888

Diag. Cht. No. 8252-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. D-1942 Office No. T-6888

LOCALITY

State SOUTHEAST ALASKA

General locality SITKA SOUND

Locality CAPE BURUNOF TO POVOROTNI POINT

194 2

CHIEF OF PARTY

C. Pierce

LIBRARY & ARCHIVES

DATE

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. D. 1942

REGISTER NO. T-6888

State S. E. ALASKA

General locality Sitka Sound

Locality Cape Burdof to South of Povorotni Point

Scale 1:10,000 Date of survey July - August, 1942

Vessel M. V. WESTDAHL

Chief of party Charles Pierce

Surveyed by C. F. Chenworth

Inked by R. M. Sylar

Heights in feet above M. H. W. to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated February 14, 1940, February 5, 1942

Remarks: This sheet is incomplete, due to the party taking
up more urgent work. Inked in Seattle Processing Office

T-6888

Sitka Sound

Cape Buronof to Povorotni Point

This sheet was incomplete at the end of the 1942 season, and the party was not able to complete it the following year because of priority demands of other surveys. As the ship is now engaged on other working grounds, the sheet has been inked in the Seattle Processing Office and is forwarded herewith.

At the end of the 1942 season, the uninked sheet was sent to Washington together with a report, and at that time the number was assigned. The sheet was returned to the field party for completion, but no further work was done on it.

T6888

DESCRIPTIVE REPORT

To accompany topographic sheet "D 1942" Sitka Sound S.E. Alaska

Photostat of this report sent to field office 1/14/42 gdt

This work was accomplished under instructions dated Feb. 14, 1940 and Feb. 5, 1942.

GENERAL DESCRIPTIONS

In general the coast line is rough and as can be seen from the sheet, is featured by many off-lying rocks. These off-lying rocks are discernable from close in only, as from several miles off shore they blend in with the shore line and the shore appears as smooth, low-lying and heavily wooded, with the mountains rising behind it. Calming and Obsechki Ids. can be distinguished from the shore line from quite a ways out.

LANDMARKS

From a distance of a mile or two off shore, the shore line presents a uniform appearance and there are no landmarks worthy of note.

CONTROL

There was ample triangulation control on the sheet, and this was supplemented by graphic intersections on whitewashes which had been put in for hydrographic control.

CLOSING ERRORS OF TRAVERSES

No traverses were run except into the bays where the work is shown on the sheet as incomplete. These traverses have not been closed. The rest of the work was accomplished from set ups on triangulation stations or from stations which had been located by graphic triangulation.

AUXILIARY METHODS

The two reefs near the S.W. corner of the sheet and off of Povortnoi Pt. were located by sextant fix taken on the reefs at low water.

COMPARISON WITH OLD SURVEYS

This work differs considerably from the old surveys and from the charted information, both with respects to the main shoreline and even more so to the offlying islands. It had been noticed beforehand that much of the topography along this area was in error and it is recommended that the topography on this sheet be used to supersede all previous work.

Attention is called to the fact that this shore line and particularly the off-lying rocks present an entirely different picture at the high and at the low stages of the tide. Work was done on most all portions of the sheet at some where near the low water stage, and it is thought that the low water line and the low water edge of the reefs as shown is just about right. Extreme care was taken to get all of the off lying rocks that could be located by topography. There were so many rocks that elevations were not obtained on many that were close to the shore or close to others upon which elevations were shown. Elevations on the stage of the tide at which awash are shown on all important rocks.

INCOMPLETE OR UNRELIABLE WORK

There are several bays which are incomplete. That which is just South of Cape Burunof might be suitable for a small boat anchorage and it had been planned to complete the topography and the hydrography in this bay. The bay to the South Eastward of triangulation station "Itski" appears to be of little importance as the entrances seem to be foul and are full of kelp. It was noted that while getting into this bay from several directions there was an error of approximately ten meters which was not straightened out due to the party abandoning the project for the season. Due to the nature of this bay, it is thought that this error is of little importance and could probably be straightened out when the compilations are made from the pictures which were taken this season of the same area.

This sheet was laid out to take in the area Eastward along the Northern edge of the sheet from Cape Burunof to triangulation station "Extra" but was not completed because of the party being called off the project for more urgent work. The shore line around Cape Burunof and the off-lying rocks to the West of it are complete. Hydrographic signals were put in to within a few hundred meters of station "Extra".

JUNCTION WITH ADJACENT SHEET

Junction was made with the adjacent sheet to the southward at triangulation station "Ledge".

Review, par. 1.

RECOVERABLE TOPOGRAPHIC STATIONS

Recoverable stations "ANN, IRE, and MAY" were marked with the standard bronze disc and were described along with scaled position on form 524.

MAGNETICS

Declinatoire observations were made at four stations scattered over the sheet as shown. Declinatoire No. 231 was used. This declinatoire was checked at the Englwood magnetic station in April 1942 and was found to be practically perfect. Observation was also made at triangulation station "Ob" and it was noted that local attraction was present so the station was later occupied with the transit magnetometer.

STATISTICS

10.3 sta. miles of shoreline
7 square miles of area

Respectfully Submitted

Approved

Charles Pierce
Charles Pierce, H. & G. Engr.
Comdg. M. V. WESTDAHL

C. E. Chenworth
C. E. Chenworth, H. & G. Engr.

T-6888

Remarks

Decisions

1		569353 USGB
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4		570350 USGB
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GEOGRAPHIC NAMES

Survey No.

T6888

Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A	B	C	D	E	F	G	H	K	
<u>Cape Buranof</u> ✓									1
<u>Povorotni Pt.</u> ✓									2
<u>Sitka Sound</u> ✓									3
<u>Baranof Island</u> ✓									4
<u>Mielkoi Cove</u> ✓									5
<u>Pirate Cove</u>									6
<u>Calming Island</u> ✓									7
<u>Obsechki Island</u> ✓									8
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Names in this column
by L. Heck 11/30/41

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
~~PHOTOSTAT OF~~

~~NOX~~

No. T **T6888**

received Nov. 18, 1942
registered Nov. 21, 1942
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
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RETURN TO

82	R. W. Knox
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✓ R.W.K.

T-6888

Rock and rock elevation data shown in green ink
was applied in 1949 from photographs field in-
spected in 1947.

L. C. Lande
L. C. Lande, Chief
Graphic Compilation Section
Division of Photogrammetry

*This survey superseded by T-8443
east of long. 135°24'. Also superseded
in part by T-7046. See here. Report
for T-8483. To be finally considered
at completion of hydro surveys.
G.L.
7/25/51*

DIVISION OF CHARTS
REVIEW SECTION - NAUTICAL CHART BRANCH
REVIEW OF TOPOGRAPHIC SURVEY

REGISTRY NO. T-6888

Field No. D-1942

Southeast Alaska, Sitka Sound, Cape Burunof to Povorotni Point

Project No. HT-247

Surveyed in July - Aug. 1942

Scale 1:10,000

Plane Table Survey

Aluminum Mounted

Chief of Party - C. Pierce

Surveyed by - C. F. Chenworth

Inked by - R. M. Sylar

Reviewed by - T. A. Dinsmore

26 Oct. 1954

Inspected by - R. H. Carstens

1. Adjoining Surveys

The present survey junctions adequately with air-photographic survey T-8483 (1947) on the north and with topographic survey T-6889a (1942) on the south.

2. Comparison with Prior Surveys

T-2148 (1893), 1:40,000

T-2290 (1893-97), 1:40,000

T-2149 (1893), 1:20,000

The 1893 surveys cover the area of the present survey. T-2290 was compiled from T-2148. A comparison of the prior and present surveys affords only a general agreement in the outline and position of the principal topographic features. There are differences of as much as 100 meters in the positions of islets, rocks awash and in shoreline features. Scale differences of 4 to 1 and inaccurate sketching on the early surveys probably account for the differences between the surveys. The present survey also reveals many ledges and rocks awash not shown on the prior surveys.

The present survey supersedes these prior surveys within the common area.

3. Comparison with Contemporary Surveys

T-7046 (1947), 1:10,000

T-8483 (1947), 1:10,000

T-7046 is a graphic control survey which shows a few off-lying islets and rocks and short sections of shoreline along Povorotni Point. Inasmuch as the present survey is incomplete, some of the information on T-7046 supplements that shown on the present survey.

T-8483 is a field-inspected, air photographic survey which covers almost all of the present survey area. Much of the rock detail and shoreline delineated on the present survey was incorporated in the compilation of T-8483. However, additional detail from the field-inspected photographs supplements that shown on the present survey as well as completing the unsurveyed bays and coves in the area.

Within the common area, T-8483 supersedes both T-7046 and the present survey.

4. Comparison with Chart 8255 (Latest print date 1/14/52)

A. Topography

The charted topography originates principally with the present survey. A few features have been retained from the prior surveys.

The charted topography is superseded by T-8483 supplemented by T-7046 and the present survey on the southwest.

B. Magnetic Meridian

Declinatoire values for the magnetic meridian are in substantial agreement with the charted values.

5. Condition of Survey

The survey is neatly inked and complies with the requirements of the Topographic Manual.

The shoreline delineation on the present survey is not complete. The incomplete areas, however, are adequately covered by air-photographic survey T-8483 (1947).

6. Compliance with Project Instructions

The survey adequately complies with the Project Instructions. The reason for not completing the survey is stated in the Descriptive Report.

7. Additional Field Work

No further field work is required.

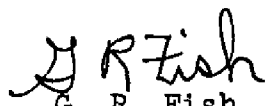
Examined and approved:



H. R. Edmonston
Chief, Nautical Chart Branch



E. R. McCarthy
Acting Chief, Division of Charts



G. R. Fish
Chief, Hydrography Branch



Earl O. Heaton
Chief, Division of Coastal Surveys

Photostat Copy applied to ch. 8255 1/22/43 GHL (before review)

Original applied to ch. 8255 6/11/47 f.a.m.

Printed