**U. S. COAST AND GEODETIC SURVEY**  
DEPARTMENT OF COMMERCE

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Topographic</th>
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<tbody>
<tr>
<td>Field No.</td>
<td>B-1942</td>
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<tr>
<td>Office No.</td>
<td>T6889</td>
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**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>S.E. Alaska</th>
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<tbody>
<tr>
<td>General locality</td>
<td>Sitka Sound</td>
</tr>
<tr>
<td>Locality</td>
<td>Approach to Redoubt Bay</td>
</tr>
</tbody>
</table>

**1942**

**CHIEF OF PARTY**

Charles Pierce

**LIBRARY & ARCHIVES**

**DATE**: [Redacted]
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. E-1942-43

REGISTER NO. 6889 a

State Alaska, Southeast

General locality Sitka Sound

Locality Eastward from Kita Island to Western shore of Baranof Island

Approaches to Redoubt Bay

Scale 1:10000 Date of survey June 1942 and 1943, 19

Vessel WESTDAHL

Chief of party Charles Pierce

Surveyed by Curtis L. Fisher

Inked by P. M. Fisher

Heights in feet above NAV to tops of trees

Contour. Approximate contour. Form line interval feet
Feb. 14, 1940, June 10, 1941, February 5

Instructions dated June 31, August 5, 1942

Remarks: ""
DESCRIPTIVE REPORT

to accompany
Topographic Sheet E-1942-l3
Sitka Sound
S.E. Alaska

AUTHORITY:

Instructions dated February 11, 1940, June 10, 1941, February 5, June 3 and August 5, 1942.

GENERAL DESCRIPTION OF AREA:

The area covered by this sheet is on the eastern side of Sitka Sound, extends from the northern tip of Peiser Island north and beyond Kita Island, and eastward to the shore of Baranof Island. The portion of the area where the topographic survey is completed is the numerous islands and detached rocks which adjoin Baranof Island in this area. These islands are all wooded with a dense growth of spruce and hemlock. They are closely grouped and the channels between them are not obvious unless close in. From a few miles offshore they blend into the shoreline of Baranof Island which is heavily wooded in its lower reaches and slopes steeply upward to bare shaley slopes above timber line. Kita Island is usually easily identified from across the Sound by its symmetrical conical profile.

CONTROL:

Triangulation control was used throughout. The triangulation stations are close enough together and so situated that at most only planitable setups it was possible to orient on one triangulation station and resect on at least one other. Consequently it was not necessary to run any extended traverse areas. There were no adjustments necessary on any part of the sheet.

METHOD OF SURVEY:

Planitable methods were used throughout the survey. Offlying rocks and ledges are located by cuts and supplemented by rod readings. The many sloping ledges and submerged rocks as well as the low water line in all areas are located by rod readings at low water.

COMPARISON WITH PREVIOUS SURVEY:

Due to the large discrepancies in the previous survey such as one island shown where several exist and the difference in scale between the two surveys, no comparison was made.

LANDMARKS:

There are no landmarks for charts in this area.

AIDS TO NAVIGATION:

The only aid to navigation in the area covered by this is the DAY BEACON (unlighted) lying 0.4 miles west of Round Island. Located by triangulation with 2nd order accuracy Lat. 56° 54’ 50.7”, Long. 135° 23’ 33.5”.

ELEVATIONS:

All elevations are determined above MHW and as shown on the sheet are the
ground surfaces. The figures shown in parenthesis near the ground elevations are the height of the trees. The elevations in parenthesis on the detached rocks are ground elevations.

INCOMPLETED AREAS:

The portion of the shoreline of Baranof Island from Calming Island south into Redoubt Bay; its shoreline and that of Kanga Bay and the several islands lying south and southwest of Round Island, to the point at the south entrance to Kanga Bay falls within the area covered by this sheet and Sheet F-15. Surveys in this vicinity were discontinued because of more urgent work. The triangulation control was carried into this area but no hydrographic work was accomplished where the topographic control was not completed.

RECOVERABLE TOPOGRAPHIC STATIONS:

Recoverable stations BULL and CAT are marked with standard topographic disks and are described on form number 524.

MAGNETIC OBSERVATIONS:

All declinatoire observations were made with instrument number 231, which was standardized at Englewood magnetic station in April, 1942, and has no appreciable error.

STATISTICS:

Square miles statute — — — — — 4.5
Statute miles shoreline — — — — — 21.0

Respectfully submitted,

Curtis Le Fever,
H. & G. Engr.

APPROVED AND FORWARDED:

Charles Pierce, H. & G. E.
Comdg., WESTDAHL.

[Signature]
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<tr>
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<th>Decisions</th>
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<td>Redoubt Bay</td>
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<td>Taigud Islands</td>
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<td>Kita Island</td>
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<td>Round Island</td>
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<td>Baranof Island</td>
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<td>Kanga Bay</td>
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<td>Paiser Island</td>
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<td>Yiesokot Rock</td>
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Names underlined in red approved by Heck on 4-27-47
MEMORANDUM
IMMEDIATE ATTENTION

SURVEY DESCRPTIVE REPORT

No. T 6889

received Nov. 18, 1942
registered Nov. 21, 1942
verified
reviewed
approved

RETURN TO
82 R.W. Knox

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.

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V.R.U.K.
6889b

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: Topographic

Field No: E12-I3
Office No: 6889

LOCALITY

State: S.F. Alaska
General locality: Sitka Sound
Locality: Eastward from Kita Island to western shore of Baranof Island

1943

CHIEF OF PARTY

Charles Pierce

LIBRARY & ARCHIVES

DATE

B-1270-1 (7)
Appled to Chart 8252 (before review). ER 4/18/44

Additional partial application to Chart 8255 thru T 8450-81
Jan 1946 H. F. Stepman (areas adjacent to 8-6947)

Completely applied chart 8255 June 11, 1947 Sam.
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. ... F-43 ...

REGISTER NO. ... 6889 b ...

State ... Alaska, Southeast ...

General locality ... Sitka Sound ...

Approaches to Redoubt Bay ...

Locality ... Felsar Island and vicinity of Kanga Bay ...

Scale ... 1:10000 ...

Date of survey ... June and July, 1943 ...

Vessel ... WESTDAHL ...

Chief of party ... Charles Pierce ...

Surveyed by ... Curtis L. E. Faw ...

Inked by ... F. W. Fisher ...

Heights in feet above NADV. to tops of trees ...

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

Feb. 14, 1940, June 10, 1941, Feb. 5, June 3 ...

Instructions dated ... and August 5, 1942 ...

Remarks: ...
DESCRIPTIVE REPORT

to accompany
Topographic Sheet F - 43
S. E. Alaska

AUTHORITY:

Instructions dated Feb. 11, 1940, Feb. 5, June 3 and August 5, 1942.

GENERAL DESCRIPTION AND EXTENT OF SURVEYED AREA:

The area covered by this sheet is along the eastern shore of Sitka Sound, all of Paisar Island, and the adjoining detached rocks. The extensive reefs and the shoreline from Kanga Bay south to a point below Lat. 56° 52' including Visioki Rock and the many detached rocks and islets lying between it and the shoreline of Baranof Island. A portion of the island on which triangulation station Colbert 1943 is located and in the vicinity of that station, and a portion of the shoreline at the base of Camel Mountain were not surveyed but may be obtained from air photos taken in this area in 1942.

CONTROL:

Triangulation completed by this party in 1942 and 1943 in this area controlled this survey. The triangulation stations were spaced close enough and so located that no extensive traverse was necessary. Two or more stations were visible from most every setup for orientation and resection. There were no traverse adjustments necessary.

METHOD OF SURVEY:

Planetary methods were used throughout the survey. Offlying rocks and ledges are located by cuts and supplemented by rod readings. The edges of reefs and ledges and the rocks covered at part tides were located by cuts or by rod readings at low water.

COMPARISON WITH PREVIOUS SURVEYS:

No comparison was made with previous surveys due to the difference in scale.

LANDMARKS:

There are no landmarks for charts in this area.

AIDS TO NAVIGATION:

No aids to navigation are located in this area.

AIR PHOTOGRAPHS:

Photographs were taken of this area in 1942.

ELEVATIONS:

The elevations shown are above MHW. The elevations of detached rocks are
are shown in parenthesis. Those of ground elevations on the islands and shoreline are not inclosed while the height of the trees above ground are shown near the elevations and are inclosed in parenthesis. All contours are transferred from previous topography and should not be inked.

RECOVERABLE TOPOGRAPHIC STATIONS:

There are no recoverable topographic stations in this area. Topographic station [redacted] was located by sextant three point fix from the station and should be shown with blue circles.

The control stations were not named by the topographer and their names can be taken from the hydrographic smooth sheet.

MAGNETIC OBSERVATIONS:

All declinatoire observations were made with instrument number 222 which was standardized at Englewood Primary Station, Seattle, Washington, March 31, 1943, correction found to be -27 minutes.

STATISTICS:

Statute miles shoreline ———— 24.0
Square statute miles ———— 4.0

Respectfully submitted,

Curtis Le Fever
H. & G. Engr.

Approved and Forwarded:

Charles Pierce, H. & G. E.
Commanding Officer,
Motor Vessel WESTDAHL.
MEMORANDUM
IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT } No. H  
PHOTOSTAT OF  } No. T  T6889 b  
\{ received February 28, 1944  
\{ registered March 1, 1944
\{ 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.

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RETURN TO
82     Commander, R. W. Knox

/Revd/
DIVISION OF CHARTS
REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF TOPOGRAPHIC SURVEY

SOUTHEAST ALASKA, SITKA SOUND, APPROACHES TO REDOUBT BAY
SURVEYED IN JUNE 1942 - JULY 1943
SCALE 1:10,000
PROJECT NO. MT-247

PLANE TABLE SURVEY
ALUMINUM MOUNTED

CHIEF OF PARTY - CHARLES PIERCE
SURVEYED BY - CURTIS LE FEVER
INKED BY P. M. FISHER
REVIEWED BY - R. H. CARSTENS, JUNE 26, 1947
INCEPTED BY - H. W. MURRAY

1. Adjacent Surveys See per 4, below
The present topography consists chiefly of scattered offshore islands. The short sections of shoreline on Baranof Island, which are shown on the present survey, adequately join with the shoreline on T-6888 (1942) on the north and T-6934 (1943) on the south.

After recomposition from field inspected photographs, T-6882 (1942) and T-8481 (1942) will join sheet "a" of the present survey on the east, and complete the topography in the unsurveyed areas on sheet "b".

2. Comparison with Prior Surveys

<table>
<thead>
<tr>
<th>Sheet Number</th>
<th>Scale</th>
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<tbody>
<tr>
<td>T-2148 (1893)</td>
<td>1:40,000</td>
</tr>
<tr>
<td>T-2290 (1893-97)</td>
<td>1:40,000</td>
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<tr>
<td>T-4179 (1925)</td>
<td>1:20,000</td>
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</tbody>
</table>

The 1893 surveys cover the entire area of the present survey. T-2290 was compiled from T-2148. T-4179 covers the area south of lat. 56°52.20' on sheet "b" of the present survey.

Agreement of T-2148 and T-2290 with the present survey is poor. There are differences of as much as 100 meters in
the positions of islets, rocks awash, and in shoreline of the larger islands. Many of the rocks awash and sunken rocks are in disagreement with recent hydrography and are adequately discussed in the reviews of H-6947 (1942-43) and H-6948 (1942-43).

T-4179 is in good agreement with the present survey in the small overlapping area.

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

3. Comparison with Contemporary Surveys

<table>
<thead>
<tr>
<th>T-8480 (1942)</th>
<th>T-8481 (1942)</th>
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<tr>
<td>T-9339 (1942)</td>
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*Revised T-8480, T-8481 and new T-9339 should be used for topographic detail. T-6889 is incorporated in or superseded by these surveys (see Review). T-6889 is partially superseded.*

These air photographic surveys taken together cover the entire area of the present survey.

The present manuscripts are preliminary compilations from photographs which have not been field inspected. There are numerous discrepancies in shoreline details and in rocks along the shore between the present planetable survey and the manuscripts. The discrepancies are probably caused by erroneous interpretation and sketching from the photographs. In several places, the present planetable survey has been corrected from air photographs where the shoreline was obviously sketched in error.

With these revisions, the present survey is adequate to supersede these preliminary compilations within the common area. Instructions have been written for the field inspection of the air photographs, and the recompilation of details on these air photographic surveys is contemplated.

4. Comparison with Chart 8255 (Latest print date 3/3/47)

A. Topography

The charted topography originates chiefly with the present survey together with features retained from the surveys previously discussed. The following outstanding differences between the present survey representation and the chart are noted:
Charted Feature | Present Survey Feature | Latitude | Longitude
---|---|---|---
sunken rock | rock awash | 56°53.62' | 135°27.18'
reef and islets | (not applied) | 56°53.3' | 135°23.7'
islet | numerous islets | 56°55.8' | 135°26.4'
one islet | two islets | 56°56.15' | 135°26.20'
rock awash | bare rock | 56°56.33' | 135°24.85'
shoreline | (not applied) | 56°56.3' | 135°22.0'

The present survey supersedes the charted information in this area.

**B. Magnetic Meridian**

The declinatoire values for the magnetic meridian are in substantial agreement with the charted values. The Descriptive Report states that the declinatoire used on T-6889a had been standardized and that no appreciable error had been found. The correction for the declinatoire values on T-6889b is minus 27 minutes.

5. **Condition of Survey**

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

The shoreline delineation on the present survey is not complete. The entire area, however, is covered by air photographic surveys which, after field inspection and recomilation, will complete the survey of the shoreline.

6. **Compliance with the Project Instructions**

The present survey adequately complies with the Project Instructions.

7. **Additional Field Work Recommended**

This is an excellent survey and no additional work is recommended.
Examined and Approved:

I. J. Rittenburg  
Chief, Nautical Chart Branch

C. F. M. Durgin  
Chief, Division of Charts

K. G. Crosby  
Chief, Section of Hydrography

C. K. Green  
Chief, Division of Coastal Surveys