

6889 a.

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. E-1942 Office No. **T6889**

LOCALITY

State S.E. Alaska

General locality Sitka Sound

Locality Approach to Redoubt Bay

1942

CHIEF OF PARTY

Charles Pierce

LIBRARY & ARCHIVES

DATE

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 16889a

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 Approaches to Redoubt Bay
Eastward from Kita Island to Western shore of Baranof Island

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

Vessel WESTDAHL

Chief of party Charles Pierce

Surveyed by Curtis Le Faver

Inked by P. M. Fisher

Heights in feet above MHW ~~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, 19

Remarks:

DESCRIPTIVE REPORT
to accompany
Topographic Sheet E-1942-43
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 Peisar 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 ~~every~~ ²⁴ planetable 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:

Planetable 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. $56^{\circ} 54' 50.7''$, Long. $135^{\circ} 23' 33.5''$.

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 ^{Caution} 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-43. ~~7-6889-6~~ ~~7-7000-1105~~ 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. *Not in Washington office files*

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
Curtis Le Fever,
H. & G. Engr.

APPROVED AND FORWARDED:

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

Charles Pierce

Remarks

Decisions

1	For title: feature east of sheet	569353
2		
3		569353 USGB
4		"
5		569354
6	Apply Taigud Island to group close around the Taigud Island of chart 8255.	"
7		"
8		"
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GEOGRAPHIC NAMES

Survey No.

T8889 a & b

Name on Survey

	A, On Chart No.	B, On previous survey No.	C, On U. S. quadrangle Maps	D, From local information	E, On local Maps	F, P. O. Guide or Map	G, Rand McNally Atlas	H, U. S. Light List	K	
<u>Redoubt Bay</u>										1
<u>Sitka Sound</u>										2
<u>Korga Island</u>										3
<u>Ulinoi Island</u>										4
<u>Kamennoi Island</u>										5
<u>Taigud Islands</u>										6
<u>Glagolm Island</u>										7
<u>Kita Island</u>										8
										9
										10
<u>Caution Island</u>										11
<u>Round Island</u>										12
<u>Road Island</u>										13
<u>Baranof Island</u>								USCB		14
<u>Kanga Bay</u>										15
<u>Peisar Island</u>								USCB		16
<u>Viesokoi Rock</u>										17
										18
										19
										20
										21
										22
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										26
										27

Names underlined in red approved

by W. Heck on 6/27/47

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
~~PHOTO STAT COPY~~

~~MOORE~~

No. T **T6889**

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.

6889b

6889b

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey <u>Topographic</u>	
Field No. <u>2-12-13</u>	Office No. <u>6889</u>
LOCALITY	
State <u>S. E. Alaska</u>	
General locality <u>Sitka Sound</u>	
Locality <u>Eastward from Kita Island to western</u>	
<u>shore of Baranof Island</u>	
<u>194 3</u>	
CHIEF OF PARTY	
<u>Charles Pierce</u>	
LIBRARY & ARCHIVES	
DATE	

partially

Applied to Chart 8252 (before review). E.R. 4/18/44

Additional partial application to CH 8255 thru T-8480-81

Jan 1946 L.F. Stegman (Area adjacent to H-6947)

Completely applied chart 8255 June 11, 1947 Sam.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. T6889 b

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-13

REGISTER NO. 6889 b

State Alaska, Southeast

General locality Sitka Sound

Locality Approaches to Redoubt Bay
Peisar 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 Le Fever

Inked by P. M. Fisher

Heights in feet above MHW ~~to ground~~ 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, 19____

Remarks: _____

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

AUTHORITY:

Instructions dated Feb. 14, 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 Peisar Island, and the adjoining detached rocks. The extensive reefs and the shoreline from Kanga Bay south to a point below Lat. $56^{\circ} 52'$ including Visikoi 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:

Planetable 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 tide 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.

No contours shown

RECOVERABLE TOPOGRAPHIC STATIONS:

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

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

Names transferred

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

Curtis Le Fever,
H. & G. Engr.

Approved and forwarded:

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

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

No. H

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	Comdr. R. W. Knox
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1 Rmk

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF TOPOGRAPHIC SURVEY

REGISTRY NO. T-6889a & b

FIELD NO. E-42

F-43

Southeast Alaska, Sitka Sound, Approaches to Redoubt Bay
Surveyed in June 1942 - July 1943 Scale 1:10,000
Project No. HT-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
Inspected by - H. W. Murray

1. Adjoining Surveys *See par 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.

~~Cancelled~~ After recompilation from field inspected photographs, ~~T-8482~~ (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

T-2148 (1893)	1:40,000
T-2290 (1893-97)	1:40,000
T-4179 (1925)	1:20,000

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

T-8480 (1942)

T-8481 (1942)

~~T-8482 (1942)~~

~~T-9339~~ *cancelled*

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 Reviews). T-6889a 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 declinoire values for the magnetic meridian are in substantial agreement with the charted values. The Descriptive Report states that the declinoire used on T-6889a had been standardized and that no appreciable error had been found. The correction for the declinoire 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 recombination, 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.

T-6889 (1942) - 4

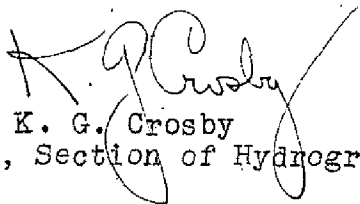
Examined and Approved:



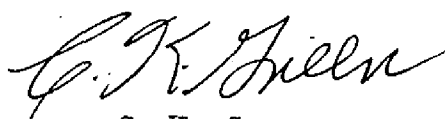
I. E. Rittenburg
Chief, Nautical Chart Branch



C. M. Durgin
Chief, Division of Charts



K. G. Crosby
Chief, Section of Hydrography



C. K. Green
Chief, Division of Coastal Surveys