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Form 504 Ed. June, 1928	
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY R. S. Patton, Director	
State: S. W. Alaska	
DESCRIPTIVE REPORT	
Topographic Hydrographic	Sheet No. A
LOCALITY	
Kodiak Island	
Kizhuyak Bay	
1933	
CHIEF OF PARTY	
H. B. Campbell	

Applied to Chart No. —

8534 (1935), 1:80,000, by James W. McGuire.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4842

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 Letter A

REGISTER NO. 4842

State S. W. AlaskaGeneral locality Kodiak IslandLocality Kizhnyak BayScale 1:20,000 Date of survey May-June, 19 33Vessel Str. DISCOVERERChief of Party H. B. CampbellSurveyed by J. H. BrittainInked by H. O. FortinHeights in feet above H. W. to ground ~~to tops of trees~~~~Contours approximate contours~~ Form line interval 100 feetInstructions dated April 21, 19 32March 25, - - - - - 1933

Remarks: _____

DESCRIPTIVE REPORT

TO ACCOMPANY

TOPOGRAPHIC FIELD SHEET "A"

U.S.C. & G.S.S. DISCOVERER

H. B. Campbell, Commanding

SEASON OF 1933.

AUTHORITY

This survey was made under the Director's Instructions dated April 21, 1932.

LOCALITY

This sheet covers Kizhuyak Bay from Whale Passage to Kekur Point. It joins Sheet Register No. 2853 on the west and Sheet "B" on the east.

METHOD OF SURVEY

Plane table survey methods in accordance with instructions given in Special Publication No. 144 were used. In general, control stations were occupied and cuts taken to as many hydrographic signals and rocks as possible. Those that could not be cut in were located by resection, three point fixes or stadia. The shore line was located by stadia.

PURPOSE

The purpose of this survey was to locate hydrographic -

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signals and rocks and to relocate the shore line where discrepancies were found, with the previous work shown on Sheet Register No. 2855.

CONTROL

Third order triangulation stations were established at intervals not exceeding 2 miles along each shore of the bay.

This survey is based on the Valdez datum.

GENERAL DESCRIPTION OF COAST

The bay is from $1\frac{1}{2}$ to 2 miles wide for its entire length of about 9 miles. The western shore from Whale Passage for about $\frac{2}{3}$ of its length slopes gently from the shore to detached hills varying from a few hundred feet in height to over 2200 ft. Near the head of the bay on both sides the slopes are steep rising abruptly to high, rugged, peaks and ridges. The eastern shore near the entrance rises gently to a north and south ridge. This ridge is low at the north end but rises to considerable height as it goes south. At the head of the bay is a large grassy flat cut up by numerous streams.

The slopes are covered by scattered groups of trees and brush except from Whale Passage south for about three miles which is heavily wooded. The shores are mostly rocky with low bluffs. The eastern shore has a low sandy beach about 2 miles long beginning about 3 miles south of the entrance. Kekur point is marked by a prominent pillar of rock, about 80 ft. high, about 10 meters from the shore.

FORM LINES

Numerous elevations were determined by the usual plane table method. Three cuts were taken. All cuts were taken to the ground except where otherwise noted. The tops of trees were estimated to be about 60 ft. above the ground.

TRAVERSE

The only traverse on this sheet was from triangulation station PRIVY 1933 to signal Cat. The closure was 3 meters and was not adjusted.

LAND MARKS

There are no land marks of importance.

MAGNETIC MERIDIAN

The magnetic declination was determined with a declinoire at triangulation station HUYA, 1933, June 7th at approximately 12:00 noon.

DISCREPANCIES WITH PREVIOUS SURVEYS

The shore line on sheet register no. 2855 was transferred to the sheet before the work was done. Upon locating a number of the hydrographic signals it was found that the location of the signals would not fall on the shore line so that the entire shoreline was rerun. The discrepancies were found to be from 5 to 50 meters. In many places the points would check very close but the bights would be slightly out.

In some instances elevations for form lines did not agree. Where this was the case the discrepancy was checked and it is believed that these elevations are more nearly correct.

NAMES ASSIGNED BY FIELD OFFICERS

Settler Cove: Due to the fact that a couple of ranchers have settled here, this was the name suggested for the prominent cove just west of Peregrebni Point.

Rock Cove, named after triangulation station ROCK 1933, was the name suggested for the cove just west of the above named triangulation station.

Barabara Cove, which is an Aleutic name for a structure made out of dirt and poles, was suggested, for such a structure of this kind was found at this cove.

REMARKS

The shoreline of this sheet was inked in by J. H. Brittain, the remainder of the sheet being drafted and inked in with the information and data as furnished.

STATISTICS

37.4 statute miles of high water line.

43.4 square statute miles area.


10.5 statute miles of low water line.

103 elevations determined.

Respectfully submitted:

J. H. Brittain,
Jr. H. & G. Engr.,
N. O. Fortin
By H. O. Fortin,
Jr. H. & G. Engr.

Approved and forwarded:


H. B. Campbell,
H. & G. Engr., Comdg.

Date. June 7, 1935

Survey No. T 4842

Chart No. 8502

Diagram No. 8570

Approved by the Division of Geographic Names, Department of Interior. *

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

[illegible]

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 4842 (1933)

Kizhuyak Bay, Kodiak Island, S. W. Alaska

Surveyed May - June, 1933

Instructions dated April 21, 1932; March 25, 1933 (DISCOVERER)

Chief of Party - H. B. Campbell.

Surveyed by - J. H. Brittain.

Inked by - J. H. Brittain and H. O. Fortin.

1. Condition of Records.

- a. The topographic sheet was complete except that the note "Valdez Datum" was omitted. This has been added. The names "Settlers Cove," "Barabara Cove," and "Rock Cove" have been left in pencil pending approval by the Division of Geographic Names.
- b. The Descriptive Report and the sheet do not show that the Declinatotre used for placing the magnetic meridian was checked as provided in par. 17, Topographic Manual.
- c. No Form 524, Description of Recoverable Stations, was submitted.
- d. No Form 567, Landmarks, was submitted. The non-existence of important landmarks is noted in the Descriptive Report.

2. Compliance with Instructions for the Project.

The survey complies with the instructions except that no proper junction of formlines was made with the 1907 survey (T-2853).

3. Junction with Contemporary Surveys.

- a. T-4843 (1933) joins to the eastward and junction is satisfactory.
- b. T-2853 (1907) joins to the northwest and junction is satisfactory for shoreline. Form lines do not join properly though several of the elevations are in good agreement.

4. Comparison with Prior Surveys.

a. T-2855 (1907).

The entire area of this sheet was resurveyed. Discrepancies of 5 to 50 meters were noted in the shoreline, principally in the bights between the points. Features along shore, rocks, etc., are in good agreement, except:

- (1) A rock awash in lat. $57^{\circ}50.95'$, long. $152^{\circ}52.45'$ is shown about 60 meters too far south on the 1907 survey.

(2) The 1907 survey shows rocks awash near the low water line about 3/4 and 1 mile southwest of the above rock, which were not located by the 1933 survey. They have been placed on T-4842 (1933) in red.

b. Elevations and formlines are not in good agreement on the two surveys. The 1907 survey shows very few elevations and sketching of formlines is very much generalized.

The 1933 survey should supersede this survey for future charting purposes.

5. Field Drafting.

Inking of sheet in general is satisfactory. The use of an abbreviated form for the year of location of triangulation station is not authorized by the Topographic Manual. The full form 1907 instead of '07 is preferable.

6. Additional Work Recommended.

A revision of the formlines at the junction of T-2853 (1907) and T-4842 (1933) should be made when work is resumed in the vicinity.

7. Superseding Old Surveys.

Within the area covered, the present survey, with indicated additions, will supersede the following for charting purposes:

T-2855 (1907) in part.

8. Reviewed by - R. J. Christman, September, 1934.

Examined and approved:

C. K. Green, *C. K. Green*
Chief, Section of Field Records.

L. O. Colbert
Chief, Division of Charts.

Paul A. Smith
Acting
Chief, Section of Field Work.

R. K. Linkens
Act.
Chief, Division of H. & T.