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Form 504 Ed. June, 1923			
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DESCRIPTIVE REF	ORT		
Topographic	1661	, ,	
Topographic Sheet No. F	1001		
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LOCALITY	,		
Kodiak Island			
. Sitkalidak Island, vic	inity	ļ	
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of Cape Barnabas.		ļ	
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1931			
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F.B.T. Siems, H. & C. E.			
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DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET NO. "F"



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STEAMER SURVEYOR

F.B.T.SIEMS, COM'D'G.

INSTRUCTIONS:

DIRECTOR's instructions dated April 22,1932:

AREA SURVEYED:

The area surveyed on this sheet includes the shore line from BARNABAS, 1931 to WEDGE, 1931; supplementing Topographic Sheet "F", 1931 (T-4661) which covered this area but was surveyed by hydrographic methods due to inacessibility on account of unfavorable weather at the end of the 1931 season. This sheet joins T-4397 of 1928 and T-4662 of 1931.

CONTROL AND SURVEY METHODS:

The control for this work was furnished by the 1931 triangulation and traverse. Signals located by sextant cuts in this area last season were recovered and located by plane table traverses checking the original positions. Traverse of shore line WEDGE to BEACH was run in by G.M.Marchand; BEACH to MARE by M.G.Ricketts, the latter on a celluloid projection which is forwarded with sheet "B". The form lines on this sheet were transferred from T-4661. Some slight changes were made in the vicinity of Cape Barnabas and in the 100 and 200 ft. form lines elsewhere on the sheet. The latter changes were made on account of the shoreline of the 1931 survey being in error in places.

COMPARISON WITH PREVIOUS SURVEYS:

In the rerun of the 1931 topography, a tracing made of the completed 1932 work shows only a few minor discrepancies in depth of bights and shape of points. For additional details reference should be made to Descriptive Report of Sheet "F",1931. (7466/)

STATISTICS:

Approved and forwarded:

Max G.Ricketts, Jr. H.&G.E.

U.S.C. & G.Survey.

F.B.T.SIEMS, H.&G.E., Chief of Party, C.&G.S.

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC FIELD SHEET "F"

These instructions are subvisited with the wind 1931 Aurung as much it information is applied to the 1932 to working F.B.T. SIEMS, COM'D'G. EVE.

STR. SURVEYOR

Instructions dated April 17, 1931

4661

AREA SURVEYED:

The area surveyed on this sheet includes the shoreline and adjacent land features for a distance of six statute miles in a southwesterly direction from Cape Barnabas, Sitkalidak Island, Alaska. The sheet adjoins T-4397, surveyed in 1928 and Topographic Field Sheet E, surveyed in 1931.

GENERAL DESCRIPTION:

The shoreline is extremely rugged and is composed of rocky cliffs approximately 100 feet high. The slopes adjacent the shore are very steep and are covered with grass. There are a number of rock outcrops and land-slides in the vicinity of Cape Barnabas.

CONTROL:

The triangulation stations Right, 1928; Barnabas, 1928; Sigma, 1931; Wed, 1931; and Wedge, 1931 were used for the control of this survey. One station NAB, was located by theodolite and tape traverse (offset method) to supplement the triangulation. (See Descriptive Report to Accompany Topographic Sheet "E", 1931 for a description of the method employed in running theodolite and tape traverses by this field party.) The computations and a list of the traverse positions are included in this report.

The triangulation stations Right and Barnabas, established in 1928 on an independent datum, were corrected to the Valdez Datum by the addition of 9.30 seconds in latitude and 10.51 seconds in longitude. These values represent the latitude and longitude discrepancies between the two datums as determined by field computations when a junction of the two schemes was made early in the season. Practically no discrepancy was noted inddistance and the azimuth discrepancy amounted to 18 seconds of arc.

The positions of remaining triangulation stations, Wed, Sigma, and Wedge are based on a scheme originating at the line, Nite, 1928 - Rook, 1928, Nite and Rook were first corrected to the Valdez Datum by the addition of the latitude and longitude differences referred to above. Revised computations at the end of the field season give discrepancies of 9.25 seconds in latitude and 10.35 seconds in longitude between the two datums.

SURVEY METHODS:

This sheet was surveyed entirely by the use of hydrographic methods. This method was resorted to because it was considered impractical to attempt the survey by the usual planetable methods on account of the inaccessible nature of the shoreline. Lack of sufficient time was also a factor in causing the survey to be made from offshore.

Whitewash signals were established along the coast during perfect weather and sea conditions in sufficient numbers to furnish control for the inshore hydrographic survey and were located by sextant cuts from the Str. SURVEYOR, laying to offshore. In observing these cuts each one was taken simultaneously with the position angles thus eliminating any error due to the drift of the vessel. Three or more cuts were taken to each signal and carefully plotted on the sheet by the use of a steel protractor. All the cuts were plotted by the Chief of Party and as good intersections were obtained no checking was deemed necessary. The plotting was done immediately after the projection was drawn so as to eliminate distortional errors. Good intersections were obtained in all cases. The cuts referred to are recorded in Vol.5 of the Sounding Records of Hydrographic Sheet No.43, pages 54 to 72, inclusive.

Using the hydrographic signals thus located for control, sextant cuts were taken from the Tender WILDCAT to objects, such as, rocks, driftwood, etc., at the high-water line throughout the entire length of the sheet. These supplementary points together with the signal positions furnished the control for the sketching of the shoreline which was done from a distance of one quarter mile offshore.

The signals on this sheet, most of which are on the salient features, are considered more accurately located than could be done by planetable methods in this particular area. However, the shoreline should be considered as a reconnaissance survey. It is thought that this survey will adequately serve for charting purposes until such a time when a detailed survey of the shoreline can be made by means of aeroplane photographs. It completes the top ographic survey of Sitkalidak Island.

The locations and elevations of the mountains were obtained by means of sextant angles from the Tender WILDCAT, laying to, offshore. In determining the elevations, the height of eye, distance of the observer from the shore and the curvature of the earth was considered. The form lines were carried to a satisfactory junction with T-4397 and Sheet "E", 1931.

COMPARISON WITH PREVIOUS SURVEYS:

No previous surveys of this area have been made.

PHOTOGRAPHS:

A photograph of the shoreline from the vicinity of Triangulation station Wedge to the vicinity of Cape Barnabas accompanies this report. The elevations of the mountainous features are shown on this photograph for the purpose of identification.

GEOGRAPHICAL NAMES:

Cape Barnabas -- This is a well established name which should be retained.

No new geographic names were ascertained.

LIST OF HYDROGRAPHIC POSITIONS:

Object and Description	Lat.	D.M.	Long.	D.P.	Height	Remarks
*BUMP (Out)-South tip	57-07	822	152-55	114	- 	Station not marked

of rocky point 2½ miles S.W. of Cape Barnabas. There is a small stream emerging from a deep valley, ½ mile west of the station.

*This Station was called BUMP on Sheet 27, and Out on Sheet 43.

MAR---the offshore point 57-07 1768 152-53. 892 --- Station not marked of the large rock $1\frac{1}{2}$ miles S.W. of Cape Barnabas.

DISCREPANCIES:

A discrepancy of 80 meters exists between the triangulation (1931) position of BAR and the position of the same point as determined by topography in 1928 (See T-4397). Also a discrepancy of 130 meters exists between the 1931 hydrographic location of the mountain crest in Latitude 57° 68.5'; Longitude 152° 54.6' and the same crest as located by topography (T-4397) in 1928. The 1931 position was verified by theodolite cuts from triangulation stations TABLE, NITE, and ROOK, which were plotted on Hydrographic Sheet No. 161.

STATISTICS:

Miles of shoreline surveyed in statute miles ----- 5.0

Respectfully submitted,

G.M.Marchand, Jr. H.&G.E. U.S.C. & G.S.S. SURVEYOR

Approved and Forwarded:

F.B.T.SIEMS, H.&G.E. Chief of Party, C.&G.S.



Elevations 1062 1010 1812 1498 1705 1475 in feet...... 1325 1625

Photograph of Sitkalidak Island as seen from a point 3 1/2 statute miles, 160 degrees (true), from triangulation station DAN, 1931.

Note: For the purpose of identification the elevations of the mountains are shown beneath the photograph. These elevations are in agreement with those indicated on the topographic sheet.

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Station_ Measur_ Diff._ 28.51 30.00 (1.484.) 29.907 8.04 28.51 RAVERSE 1.475 68 1.454997 0 59 054 8.235 283 3.219 714 11 36 45 93/2 81 Distance A BARNABAS 8 2. /62 87 A-8 70 240 Nob to Roma 165 03 55 Barrarbas to 1 A. Bernalos to a Table 1 to ONab 1 to Table 143 44 166 Harrisontal 235 18th 848 1976 481 61 bhe 133.03.36 4 15 24 Azimuth 8.870.547 C 1.030 1/2 (4-0)+c 9998 800 0 M-B) + D 3.2/2/28 10.8 W 145.1 S 3073E

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4661.
Cape Barnabas, Sitkalidak Island, Kodiak, Alaska.
Surveyed July 1932.
Instructions dated April 22, 1932 (Surveyor).

Chief of Party - F. B. T. Siems. Surveyed by - G. M. Marchand and M. G. Ricketts. Inked by - M. G. Ricketts.

- 1. The plan and character of this survey conform to the requirements of the Topographic Manual. The sheet supersedes a reconnaissance survey made in 1931 to locate signals for the hydrographic work of that year. All the signals were recovered and the planetable survey found the 1931 location of signals correct. The new shoreline has not been transferred to the hydrographic sheet (H. 5178).
- 2. The 1931 form lines were transferred and adjusted to the rerun shoreline by the field party. In the junction with T. 4662 to westward, the lines agree but the two elevations common to the sheets differ by 7 and 8 feet. In the junction with T. 4397 to eastward, the form lines differed in the vicinity of A Bar but the form lines were carried to a good junction and T. 4397 has been corrected to agree with the later survey.
- 3. The field drafting is excellent.
- 4. The obsolete (reconnaissance) sheet was destroyed as all pertinent information is shown on the 1932 sheet and /or is given in the descriptive report. The two Descriptive Reports have been combined.
- 5. Reviewed by R. J. Christman, March 18, 1933.

Inspected: E. P. Ellis.

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Approved: L. O. Colbert, Chief, Section of Field Records.

Chief, Division of Charts

Ohief, Section Field Work

Chief, Div. of Hyd'y and Top'y

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. _______

REGISTER NO. 4661

State Alaska
General locality Kodiak Island
Locality Cape Barnabas, Sitkalidak Island
Scale 20,000 Date of survey July, 1932 , 192
Vessel Surveyor
Chief of Party F. B. T. Siems
Surveyed by G. M. Marchand, Max G. Ricketts
Inked by M. G. Bicketts
Heights in feet above MaHaWato ground TXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
CONTROL OF THE CONTRO
Instructions dated April 22, 1932 , 192
Remarks: This is a rerun by planetable of sextant topography
in the area covered by Sheet No. F, 1931 (Reconnaissance)

APR 27 1932

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

466

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"

REGISTER NO. 4662 ALASKA State General locality KODIAK ISLAND COAST OF SITKALIDAK ISLAND Locality..... September 1931 Scale 1:20,000 Date of survey Vessel U.S.C. & G.S.S. SURVEYOR F.B.T.SIEMS Chief of Party..... Surveyed by A.C.Thorson Inked by A.C.Thorson Heights in feet above M.H.W. to ground xtoxtessefxires CONTRACT APPROXIMATEX CONTRACT, Form line interval 100 feet Instructions dated April 17 1931

Remarks: