

4582

Form 504  
Ed. June, 1928

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
R.S. Patton, Director

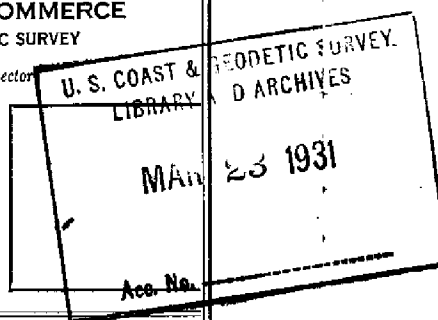
State: Alaska

DESCRIPTIVE REPORT  
*Topographic* } Sheet No. "D"  
*Hydrographic* } 4582

LOCALITY  
Kodiak Island - S. Coast  
South Coast of Kodiak, Alaska,  
Iskutalik, & Geese Islands  
Geese Is. to Cape Trinity

1950

CHIEF OF PARTY  
F. H. HARDY



DESCRIPTIVE REPORT  
to accompany  
TOPOGRAPHIC FIELD SHEET "D".

Str. SURVEYOR.

F. H. HARDY Com'd'g.

South Coast of Kodiak, Wart,  
Aiaktalik, and Geese Islands.

Project No. 58.

4582

DATE OF INSTRUCTIONS.

This survey was executed according to  
Instructions dated April 1-st, 1930.

This report covers the topographic work  
done in the survey of the area mentioned below.

LIMITS.

This sheet extends from Latitude  $56^{\circ} 40.0'N.$   
to Latitude  $56^{\circ} 49.2'N.$  and from Longitude  $153^{\circ} 46.7'W.$   
to Longitude  $154^{\circ} 09.8'W.$

GENERAL DESCRIPTION.

The shoreline of that part of Kodiak Island  
covered by this sheet is marked by grass and rocky bluffs  
thirty-three to two-hundred and thirty-five feet in height.  
From the bluffs rise a gradual tundra slope of knolls  
varying in height to four-hundred and seventy-six feet.  
Off-lying rocks, reefs, and growing kelp extend the total  
length of the shoreline.

Wart Island is bounded by rocky bluffs fifty  
to ninety-two feet in height and is covered with roll-  
ing tundra. There are several wart-like grassy knolls  
varying in height to one-hundred and fifty-eight feet.

The main part of Aiaktalik Island is bounded  
by dirt and grass bluffs twenty-six to one-hundred and  
forty-one feet in height, surmounted by a gradual tundra  
slope varying in height to three-hundred and eight feet.

GENERAL DESCRIPTION (continued).

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The north point of the spit extending to the north of the island is bounded by a grass bluff forty to fifty-six feet in height. The area between this bluff and the main island is low and swampy. The western and smaller part of the island is bounded by rocky bluffs varying in heights to ninety-four feet, surmounted by a gradual tundra slope terminating in a grassy knoll one-hundred and seventeen feet in height. On the most western part of the island is a cylindrical rock formation fifty feet in diameter and fifty-eight feet in height. The top of the rock is covered with grass. On the northwest point of Aiatalik Island and due north of the Indian village is a flat tundra-covered tableland bounded by a rocky bluff one-hundred and twenty-two feet in height. The area south of the village is low and swampy.

The Geese Islands are bounded by rocky bluffs thirty to one-hundred and thirty feet in height. There is a brackish water lake in the center of the eastern one of the Geese Islands. To the north and south from the lake rise gradual tundra slopes varying in height to one-hundred and fifty feet. The center one of the Geese Islands is covered with rolling tundra from fifty to one-hundred and forty-seven feet in height. A narrow strip running north and south across the center of the island is low and swampy. The western one of the Geese Islands is covered with rolling tundra to forty-eight feet in height, except for a rock bluff on the southwest point of the island which is eighty-seven feet high. A narrow swamp extends north and south across the island just east of the rock bluff.

Off-lying rocks, reefs, and growing kelp surround Wart, Aiaktalik, and the Geese Islands.  
In Latitude  $56^{\circ} 45.2'N.$  and Longitude  $153^{\circ} 46.8'W.$  is a group of rocks baring four to seven feet at M.L.L.W.  
In Latitude  $56^{\circ} 40.5'N.$  and Longitude  $154^{\circ} 00.0'W.$  is a foul area. This area is about one mile in diameter and is filled with rocks and reefs baring one to six feet at M.L.L.W.  
In Latitude  $56^{\circ} 42.7'N$  and Longitude  $154^{\circ} 07.0'W.$  is a rocky reef baring eleven feet at M.L.L.W.  
In Latitude  $56^{\circ} 42.8'N$  and Longitude  $154^{\circ} 06.7'W.$  is a rocky reef baring ten feet at M.L.L.W.

LANDMARKS.

Signal Tar: A cylindrical rock formation fifty feet in diameter and fifty-eight feet in height located in approximate Latitude  $56^{\circ} 42.2'N.$  and Longitude  $154^{\circ} 08.4'W.$

LANDMARKS (continued).

Signal Ste: The steeple of the church in the Indian village on Aiaktalik Island located in approximate Latitude  $56^{\circ} 42.2'$  N. and Longitude  $154^{\circ} 07.1'$  W. The steeple is approximately thirty feet high.

CHARACTER OF CONTROL.

The control for this survey was a scheme of third order triangulation determined by the parties of R.R.Lukens, in 1929, and F.H.Hardy in 1930.

SURVEY METHODS.

Due to the proximity and visibility of the triangulation stations, resection was used in this survey. All topographic signals and off-lying features were located either by intersection or by rod readings.

DISTORTION OF SHEET.

The distortion of this sheet during the field season was one meter per minute of Latitude and six meters per minute of Longitude.

JUNCTION OF SHEET.

This sheet joins topographic sheet No.T 4493 on the northwest and makes a satisfactory junction with a photostat of that sheet.

LIST OF NAMES.

Well established local names:-

Russian Harbor.  
Aiaktalik Island.  
Geese Islands,  
Sitkinak Straits.

Names assigned by Field Officers:-

Wart Island.  
Geese Island Straits. (Well established local name)  
D. + H.

FORM LINES.

All positions and their elevations for the form lines shown on this sheet were determined by planetable.

GENERAL.

The form land marks for charts showing new and prominent objects located by planetable and a list of planetable positions are attached to this report.

Respectfully submitted,

Ernest B. Lewey  
Ernest B. Lewey,  
Jr. H.&G.E. C&GS.

Approved

Is. Hardy

Comdr. St. Lawrence.

# LIST OF PLANETABLE POSITIONS

Object	Latitude		D.M.	Longitude		D. P.	Remarks
	o		Meters	o		Meters	
0 Oar	56	49	222.5 (1633.5)	153	50	677.0 (340.9)	Broken oar cemented in crevice in rock

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4582

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"

REGISTER NO. 4582

State ~~S. W.~~ Alaska

General locality Kodiak Island - S. Coast

Geese Is. to Cape Trinity  
Locality ~~South Coast of Kodiak, Bart, Alaska~~  
~~Geese Islands.~~

Scale 1:20,000 Date of survey June-July, 1930.

Vessel STR. SURVEYOR

Chief of Party F. H. HARDY

Surveyed by E. B. LEWEY

Inked by E. B. LEWEY

Heights in feet above M. H. W. to ground ~~35-tops-of-trees~~

~~Contour, - Approximate contour,~~ Form line interval 100 feet

Instructions dated April 1, 1930.

Remarks: