

6241

U. S. COAST & GEODETIC SURVEY
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Form 504
Rev. April 1935
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

H6241

DESCRIPTIVE REPORT

~~Hydrographic~~ } Sheet No. 1137 H6241
Hydrographic }

State ALEUTIAN ISLANDS
~~ALASKA~~

LOCALITY

~~ALEUTIAN ISLANDS~~

UNALASKA ISLAND

KULILIAK BAY

1937

CHIEF OF PARTY

A. M. Sobieralski

U. S. GOVERNMENT PRINTING OFFICE

ep
117

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 1137

REGISTER NO. H 6241

State ~~Alaska~~ Alutian Islands

General locality ~~Alutian Islands~~ Unalaska Island

Locality ~~Unalaska Island~~ Kuliliak Bay

Scale 1: 10,000 Date of survey July, Aug., Sept., 1937

Vessel U.S.C. & G.S.S. Surveyor

Chief of Party A. M. Sobieralski

Surveyed by J. C. Tison, Jr., W. F. Deane, J. Laskowski

Protracted by J. C. Tison, Jr.

Soundings penciled by J. C. Tison, Jr.

Soundings in fathoms ~~feet~~

Plane of reference MLLW

Subdivision of wire dragged areas by -----

Inked by G. H. Everett

Verified by G. H. Everett

Instructions dated April 13, 1934

Remarks: -----

Descriptive Report

to accompany

Hydrographic Sheet No. 1137 H-6241

Kuliliak Bay - Inner Part

Season 1937

Instructions: The work was executed under The Director's Instructions dated April 13, 1934.

Limits: This sheet covers the inner part of Kuliliak Bay and the entrance to the inner Bay.

Survey Methods: All sounding lines were run by one of the Surveyor's launches, using the hand lead and wire for sounding and sextant fixes for control. Soundings inside the entrance to the inner Bay were all taken with the hand lead, and those in the entrance and just outside, where the water is deeper, with the wire. All soundings were corrected as prescribed in Special Publication # 143.

Signals for control of this hydrographic survey were located by topography on Sheet UA - 37, ^(T-6574) scale 1 : 10,000. No difficulty was experienced in obtaining strong sextant fixes for control of the sounding lines.

A combination of ranges and compass courses was used in maintaining direction of the sounding lines. Difficulty was experienced in selecting strong ranges for steering, and foggy weather also hindered in this respect. The sounding lines inside the Bay were run in very windy weather and as a result are quite crooked due to wind drift. Care was taken to change direction of the lines only when sextant fixes were obtained, so in spite of the crooked lines it is felt that each individual sounding is well located.

Discrepancies: No discrepancies were noted during the course of the work, either in depths, position of soundings, or location of signals.

Dangers: In latitude $53^{\circ}-27.65$ and Longitude $167^{\circ}-02.26$ a sunken rock with 2 ft. of water over it was found.

In Latitude $53^{\circ}-28.04$ and Longitude $167^{\circ}-01.2$ a rocky shoal with least depth of $3 \frac{5}{6}$ fms. was found.

Sunken rocks shown in ink in the following localities were located by topography on Sheet UA - 37, ^(T-6574) and depths of water shown over them were obtained at the time of the topographic survey with an improvised sounding rod graduated in feet:

A single rock 42 meters southeast of triangulation station Kail 1935.
Four rocks outlining a group just offshore from topographic signal It.
55 meters southeast from topographic signal Ax. *Depths of water over*
85 meters WSW from topographic signal Do. *These sunken rocks were*
175 meters East from signal Yes. *shown in pencil on the smooth*
Two rocks just offshore from signal Not. *sheet by the Field Party. They*
The depths are reduced for tide. *were inked in the office.*

Channels: This survey shows the narrow entrance to the inner Bay to be free of dangers, with slightly deeper water to be found on its eastern side. The controlling depth for a mid-channel course through the entrance is $9\frac{1}{4}$ fathoms, and for a true north or south course passing 115 meters west of Dame Rock it is 10 fathoms. The entrance is best approached from the southeast, by giving Dame Rock a berth of at least 150 meters on its south side so as to stay well outside the 10 fathom curve.

Proceeding to sheltered anchorage inside the inner Bay, the controlling depth is $4\frac{5}{6}$ fathoms after passing the entrance. The channel with this depth lies close to the southeast shore of the Bay and just outside a heavy fringe of kelp along the northwest shore of Point Divide. On the north side of this channel the water shoals very gradually to the opposite side of the Bay. Northeast of Pampas Point the water deepens and the bottom is very flat, with $7\frac{1}{4}$ fathoms being the controlling depth for anchoring in the area east of Nesting Island and southeast of Sand Point. ✓

To proceed to anchorage in the above area from the outer part of Kuliliak Bay, approach the entrance to the inner Bay from the southeast or south-southeast giving Dame Rock a berth of at least 150 meters on its south side. Enter on a true north course passing 115 meters west of Dame Rock. When Bird Rock is on the port beam change course to $52\frac{1}{2}^{\circ}$ True and pass 105 meters off Pampas Point. When Nesting Island bears true north change course to $41\frac{1}{2}^{\circ}$ true and continue to anchorage with Nesting Island bearing 256° True. ✓

Anchorage: Sheltered anchorage in all weather can be had in the area east of Nesting Island and south of Lat. $53^{\circ}-28.0$ with good holding ground. Violent willi-waws occur in the part of the Bay above Lat. $53^{\circ}-28.0$ in northerly and westerly weather. A heavy dory beached at Sand Point was rolled over and over by the wind, showing the force it attains. ✓

Miscellaneous: Fog often drifts in, and in northerly and westerly weather winds always draw through the wide low valley extending westward to Kashega Bay from the vicinity of triangulation station Gab 1935. ✓

In heavy southerly weather, sharp, broken seas were noted in the entrance to the inner Bay. Swells enter the inner Bay and break along the northern and western shoreline from Entrance Rock around to Nesting Island. Small boat landings can be made in all but very extreme southerly weather in the shallow rocky bight located between signal Eve and triangulation station Gab 1935. ✓

The kelp indicated on the west side of the entrance, from signal Rap northward to signal Eve, is very thick, presenting a mat-like appearance in calm weather. It thins out as the shoreline is approached, and the area just outside the reef line is filled with numerous sunken rocks. ✓

The kelp along the northwest shore of Point Divide is also very thick and grows solidly from the low water line to a distance off shore of from 45 to 65 meters. ✓

Miscellaneous (continued): From triangulation station Gab 1935 eastward to signal B&I a continuous band of kelp of varying widths parallels the northern shoreline. It is normally very thick and mat-like in appearance but after a period of heavy southerly weather is not so noticeable, it having been torn up in great quantities by breaking seas. Between this kelp and the low water line is a narrow strip of comparatively open but shoal water where numerous sunken rocks are visible and sparse kelp grows.

Junctions with other Surveys: This sheet joins Hydrographic Sheet No. 2537 on the south and east. A satisfactory junction was accomplished with no apparent discrepancies.

Comparison with previous Surveys: A comparison with Topographic Sheet UA - 37 shows no discrepancies in topographic detail except that the low water line on the north side of Sand Point is indicated to be slightly further offshore than is shown on the topographic sheet.

A comparison with Chart 9196 shows depths given on that chart to be deeper than those obtained on this sheet. The deeper soundings on Chart 9196 are probably due to lack of correct tidal information and to faulty location of individual soundings.

Geographic Names: All place names shown on this sheet are fully discussed in the Descriptive Report accompanying Topographic Sheet UA - 37. (T-6594).

Statistics - Hydrographic Sheet Field No. 1137 H-6241

Launch No. 4.

<u>Date</u>	<u>Volume</u>	<u>Day</u>	<u>Statute Miles</u>	<u>Positions</u>	<u>Soundings</u>
7/19/37	1	a	10.6	109	520
7/21/37	1	b	13.7	119	520
7/27/37	1	c	10.2	106	448
7/28/37	1	d	7.2	67	293
7/28/37	2	d	6.4	83	295
7/30/37	2	e	11.0	34	150
7/31/37	2	f	9.3	82	280
8/22/37	2	g	3.3	46	101
9/1/37	2	h	7.0	120	338
Totals			78.7	766	2945

Area - - - - 2.2 sq. statute miles.

List of Signals Used for ControlHydrographic Sheet Field No. 1137 H-6241Triangulation Stations:

Kiluk 1935	Gab 1935	Kuli 1935
Kash 1935	Kail 1935	Split 1935
Entrance Rk. 1935	Divide 1935	Lili 1935

Topographic Stations: Topographic Sheet UA - 37

New	Way	Um
Old	Bak	Al
Pal	Ax	In
Rap	Hid	Me
Eve	Ned	Ti
Liza	Dom	Ab
Got	Do	Ex
Bil	An	It
Up	Kin	On
Crap	Law	Bo
Pa	Nil	Lit
No	Sic	Pin
Yes	Ton	Now
Lip	Not	

Respectfully submitted:

James C. Tison, Jr.
 James C. Tison, Jr.
 Jr. H.&G.E.

Approved & Forwarded:

A. M. Sobieralski
 A. M. Sobieralski
 Chief of Party.

APPROVAL SHEET

to accompany

Hydrographic Sheet Field No. 1137 H-6241

This sheet and the records have been examined and
are approved.

A. M. Sobieralski

A. M. Sobieralski
Commanding Officer
U.S.C.&G.S.S. Surveyor

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H6241**

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet 766
Number of positions checked 29
Number of positions revised 5
Number of soundings recorded 2945
Number of soundings revised 6
Number of signals erroneously plotted or transferred

Date: *Aug. 12, 1938*

Verification by *G.H. Everett*

Time: *40 Hrs.*

Review by

[Signature]

Time: *10 1/2 hours.*

Statistics - Hydrographic Sheet Field No. 1137 H-6241

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Old	Bak	Al
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Yes	Ton	Now
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Respectfully submitted:

James C. Tison, Jr.
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 Jr. H.&G.E.

Approved & Forwarded:

A. M. Sobieralski
 A. M. Sobieralski
 Chief of Party.

APPROVAL SHEET

to accompany

Hydrographic Sheet Field No. 1137 H-6241

This sheet and the records have been examined and
are approved.

A. M. Sobieralski

A. M. Sobieralski
Commanding Officer
U.S.C.&G.S.S. Surveyor

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TIDE NOTE FOR HYDROGRAPHIC SHEET

March 5, 1938.

Division of Hydrography and Topography:

✓ Division of Charts: Attention: Mr. E. P. Ellis.

Plane of reference
~~Tide Benchmarks~~ approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 6241

Locality Kuliliak Bay, Unalaska Island, Aleutian Islands.

Chief of Party: A. M. Sobieralski in 1937
Plane of reference is mean lower low water reading
3.7 ft. on tide staff at Kuliliak Bay
6.4 ft. below B.M. 1

Height of mean high water above plane of reference is 5.0 feet.

Condition of records satisfactory except as noted below:

10
—
2
2
2

Chief, Division of Tides and Currents.

10/15

GEOGRAPHIC NAMES

Survey No. H-6241

Name on Survey	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On Chart No. 8802</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On previous survey No.</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On U. S. quadrangle Maps</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">From local information</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Bakers Diet</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">P. O. Guide or Map</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Rand McNally Atlas</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">U. S. Light List</div> </div>										
	A.	B.	C.	D.	E.	F.	G.	H.	K.		
<u>Unalaska Island</u>	✓									1	
<u>Kuliliak Bay</u>	✓					✓				2	
<u>Perch Bird Rock</u>										3	
<u>Entrance Rock</u>										4	
<u>Repetition Pt Point Divide</u>										5	
<u>Pampas Point</u> → <i>Trava Pt. see topo sheet T-6594</i>										6	
<u>Rock Nesting Island</u>										7	
<u>Williwaw Point Sand Point</u>										8	
<u>Canyon Cove</u>										9	
<u>Dome Rock</u>										10	
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										27	

Names underlined in red approved
 by *JOE* on 4/14/38

Remarks

Decisions

	Remarks	Decisions
1	For Title only	USGB decision
2		see H-6160
3	(2 Bird Rocks S.E. Alaska - Baker)	Submitted to USGB
4	(1 - Entrance RK. S.E. Alaska - Baker)	
5	(1 - Divide Pt. Alaska Pen. - Baker)	Sub. to USGB
6	No duplications in Baker	" "
7	No duplications in Baker	" "
8	sand pt - S.E. Alaska - Baker a desc. term	" "
9	" " - Popof Is. - " a desc. term	" "
10	No duplications - Baker a desc. term.	" "
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18	Notes on locality	
19	Kuliliak - Aleut name meaning (sorrow, anguish) bay named by Sargichef 1792	
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Date: *Aug. 12, 1938*

Verification by *G.H. Everett*

Time: *40 Hrs.*

Review by

[Signature]

Time: *10 1/2 hours.*

HYDROGRAPHIC SURVEY NO. H-6241

Smooth Sheet Yes

Boat Sheet Yes

Sounding Records 2 Vols. _____

Descriptive Report Yes

Title Sheet Yes

List of Signals In D.R.

Landmarks for Charts (Form 567) None

Statistics Yes

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524) None

Special Chart for Lighthouse Service None
(Circular Nov. 30, 1933)

Remarks _____

Total Days 9

Last Date Sept. 1, 1937

Remarks

Decisions

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