

6466

6466

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

**DESCRIPTIVE REPORT**

~~Topographic~~ } Sheet No. H 6466  
Hydrographic }

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U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES  
MAR 6 1940  
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State Southwestern Alaska

LOCALITY

Northwest Coast of Unimak Island

Cape Serichef N.E. to Lat. 52-43

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1939

CHIEF OF PARTY

E. W. Eickelberg

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.

H6466

Field No. 21

REGISTER NO. H 6466

State ~~Southwestern Alaska~~ *Alutian Islands*

General locality *Northwest Coast of Unimak Island*

Locality *Cape Sarichef Northwest to Lat. 52 - 43'*

Scale *1:20,000* Date of survey *June 27 to Aug. 18, 19 39*

Vessel *Port and Starboard Launches from Ship GUIDE*

Chief of Party *E. W. Eickelberg*

Surveyed by *R. C. Rowse and G. M. Marchand*

Protracted by *C. A. Kester*

Soundings penciled by *C. A. Kester*

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 *March 8*, 19 *39*

Remarks: *Smooth sheet prepared by Oakland Processing Office*

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET H 6466  
Project HT-231  
Bering Sea  
North Coast of Unimak Island  
U.S.C. & G.S.S. GUIDE  
1939

INSTRUCTIONS:

Instructions for this project were dated March 8, 1939.

SURVEY METHODS:

The ship's launches were used for sounding and the procedure was according to the standard practice for visual hydrography. The work on this sheet was divided into parts and done on two boat sheets, 21 A and 21 B. The outer launch, in charge of Lieut. R. C. Rowse, sounded, in general, outside the ten fathom curve and used wire soundings, while the inside launch, in charge of Lieut. G. M. Marchand, sounded the area adjacent to the coast with handlead.

The general system of sounding lines was parallel with the shore line and the spacing was in accordance with the instructions.

The area covered by the southwestern half of the sheet has a rocky shore line and several points with fould areas extending out several hundred meters. The water off these places was sounded with a system of cross lines normal to the general system of lines and in addition drift soundings were taken where there were indications of rocks or shoals.

DISCREPANCIES:

Soundings 1-3 d (red) appear to be from 1 to 2 fathoms shoaler than lines crossed. Lat. 54-39.1, Long. 164-49.7.

19 fms. on 1 e (red) does not check 21 fms. on 35 c (red); bottom fairly even and positions about 10 meters apart. 1 e may be misplaced to seaward. Lat. 54-39.4, Long. 164-49.8

17 fms. 29-30 e (red) appears too deep for 15 fms. on 23 d (red). Lat. 54-40.2, Long 164-46.

11 fms. 156-157 e (red) is rather shoal for the 14 fms. on 39 a (red) a short distance outside. Lat. 54-38.7, Long. 164-50.1.

14 fms. 55-56 b (red) appears too deep compared to 11 fms. on cross line 111-112 d (blue). Lat. 54-37.9, Long. 164-52.1.

These crossings accepted as noted H.M.M.

3-1/8 fms. on 99 j (blue) and 3-5/8 fms. before 99 j appear to be 1 fathom too deep according to their location and the crossing between 102-103 j, and were decreased 1 fathom to 2-1/8 fms. and 2-5/8 fms. respectively. Lat. 54-42.0, Long. 164-40.5. *plotted plotted*

Soundings between the following positions were not plotted due to congestion of soundings: Inshore launch (blue) 16-20 h, 21-23 h, 30-31 h, 37-38 n, 39-43 h, 50-54 h, 5-9 j, and 13-14 j. *Important Soundings transferred to smooth sheet H.W.M.*

DANGERS AND SHOALS:

(There are no dangers to navigation in the area covered by this hydrographic sheet. Along the rocky portion of the coast shoal areas, with uneven, rocky bottoms, extend out from the points but the ten fathom depth curve is not more than 0.6 mile from any of the points. There are no indications of off-lying pinnacle rocks.) The following drift soundings were taken in areas where there were indications of possible shoals: 25

Lat. 54-36.7, Long 164-55.7. 45 minutes was spent drift sounding in this area and a minimum depth of 7 1/2 fms. was obtained along the top of the ridge. ✓

Lat. 54-36.5, Long 164-55.1. 15 minutes was spent drift sounding and a minimum depth of 1-5/8 fms. was obtained on Positions 76 and 78 c. ✓ ✓

Lat. 54-37.15, Long 164-52.8, 30 minutes was spent drift sounding and a minimum depth of 2-1/8 fms, rocky bottom, was obtained on Position 117 e. ✓ ✓

Lat. 54-38.2, Long 164-51.6. 22 minutes was spent drift sounding in this area and a minimum depth of 5 fms. was obtained on Position 91 e. ✓ ✓

Lat. 54-38.35, Long 164-49.1. 10 minutes was spent drift sounding in this area and a minimum depth of 3-4/8 fms was obtained on Position 18 m. ✓ ✓

Lat. 54-38.8, Long 164-48.5. Part of the soundings in this area were plotted on an overlay. The minimum depth is 4-1/8 fms. ✓ ✓

CHANNELS:

There are no channels in the area covered by this sheet. 25

ANCHORAGES:

There are no important anchorages along the shore line covered by this sheet. There is good holding ground along all of the coast, excepting the rocky points. The Ship GUIDE frequently anchored off 25

signal PLUM, Lat. 54-38.7, Long 164-49.5, during times with southeasterly winds. The bottom along most of the coast is black sand. ) 25

LANDMARKS FOR CHARTS:

Objects suitable as landmarks for charts will be described and submitted on the proper forms in connection with Hydrographic Sheet H 6465.

COMPARISON WITH TOPOGRAPHIC SHEETS "A" and "B", 1939:

The following were located while doing hydrography and were added to the topographic sheets:

The foul area extending out from Signal PIL in Lat. 54-36.5, Long. 164-53.5, located by note in sounding Volume No. 1, page 43, Position 98-99 c.

Rock awash in Lat. 54-37.9, Long 164-51.1, located by beam distance on Position 59-60 d. Volume 1, page 59.

Rock awash in Lat. 54-38.6, Long 164-47.7, located by three cuts on Positions 45, 46 and 48 g. Volume 2 page 48.

Sunken ledge extending out from the shore line in Lat. 54-39.3, Long. 164-43.7, located by note on Position 101 m. Volume 3, page 58.

COMPARISON WITH PREVIOUS AND CONTEMPORARY SURVEYS:

There are no previous surveys of this area.

The junction with H 6389 (DISCOVERER, 1938) on the southwestern end of the present survey is satisfactory. The patch of kelp shown on H 6389 in Lat. 54-36.5, Long. 164-55.1, was not present in the early summer of 1939. See note under DANGERS for minimum sounding in this area.

Sheet No. H 6465 (Field Sheet No. 41) which lies outside of this survey is not completely plotted as yet and a comparison can not be made.

GEOGRAPHIC NAMES:

See descriptive report for Topographic Sheets "A" and "B", 1939.

Respectfully submitted,

*Gilbert R. Fish*  
Gilbert R. Fish,  
Jr. H. & G. Engineer,  
Officer in charge,  
Oakland Processing Office.

LIST OF SIGNALS

to accompany

HYDROGRAPHIC SHEET H 6466

TRIANGULATION

Name	Hydrographic name
Leo 1939	Leo
Pogro 1939	Gro
Raven 1937	Raven
Sarichef L. H. 1937	Chef
Tundra Vee 1939	Vee

HYDROGRAPHIC SIGNALS

Name	Recorded
Gull	Volume 3 , Page 26 and 28

TOPOGRAPHIC SIGNALS

Sheet "A" 1939.

Sheet "B" 1939

Ace	Hok	Ray	Ant	New	Win
Bit	Las	Rim	Boy	Nip	
Cab	Log	Run	Cur	Nob	
Can	Low	Sad	Cat	One	
Cron	Mas	San	Eva	Pet	
Dog	Med	Sea	Fox	Pot	
Fat	Mis	Spa	Glo	Rad	
Fog	Out	Tin	Keg	Sam	
Gig	Pil	Tre	Kit	Sim	
Hay	Pin	Wart	Mad	Sis	
Hi	Plum	Wee	Mut	Una	

From Photostat of H 6389, DISCOVERER, 1938

Cro  
Is

STATISTICS

to accompany

HYDROGRAPHIC SHEET H 6466

Date 1939	Day Letter	No. of Sdgs.		No. of Pos.	Stat. Mi. Sdgs.	
		Mach.	H.L.		Mach.	H.L.
June 27	a(blue)		355	103		16.0
"	a(red)	347		121	23.6	27.0
July 1	b(blue)	229	229	61		9.3
"	b(red)	234		84	16.5	
July 10	c(blue)		504	133		14.5
"	c(red)	395		147	27.0	
July 11	d(blue)		588	140		22.0
"	d(red)	423		212	25.8	
July 12	e(blue)		449	117		17.6
"	e(red)	360		161	21.0	
July 14	f(blue)		521	128		21.9
"	f(red)	242		86	10.9	
July 15	g(blue)		543	160		23.5
"	g(red)	439	18	226	19.4	1.0
July 20	h(blue)		186	72		8.5
"	h(red)	128		62	6.9	
Aug. 7	j(blue)		473	107		17.7
"	j(red)	245		97	13.0	
Aug. 9	k(blue)		266	69		15.2
" 10	l "		275	69		13.9
" 18	m "		678	175		26.5
Totals		2813	5085	2530	164.1	207.6

Total No. of Sdgs.	Total Miles	Total Positions
7898	371.7	2530

Area of sheet - 19.5 square statute miles.

STATEMENT

to accompany

HYDROGRAPHIC SHEET H 6466

The smooth plotting on this sheet was done by Mr. C. A. Kester, Hand, Hydrographic Observer, under the general supervision of Lieut. G. M. Marchand and Lieut. (j.g.) G. R. Fish at the Oakland Processing Office. The soundings were penciled by Mr. Kester.

The depth curves were drawn and the descriptive report was written by Lieut. (j.g.) G. R. Fish.

The completed smooth sheet has been inspected and is approved.



E. W. Eickelberg,  
Chief of Party,  
Commanding Officer,  
U.S.C.& G.S.S. GUIDE.



Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H6466**

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

Number of positions on sheet	2530
Number of positions checked	45
Number of positions revised	12
Number of soundings recorded	7898
Number of soundings revised	7
Number of soundings erroneously spaced	22
Number of signals erroneously plotted or transferred	—

Date: *April 16, 1940*

Verification by *G.H. Everett*

Review by *Harold W. Murray*

Time: *60½ hrs*

Time: *5¼ hrs.*

# Verification Report

## Contemporary Topo Surveys:

T6602 (1937) Plane Table Survey ✓  
Other surveys not registered to date.

Records - Conform to general instructions ✓

Curves - The 5, 10, 20 fathom curves are complete ✓  
3 fathom curve broken in, foul areas but for most part complete ✓  
1 and 2 fathom curves broken close to shore and in foul areas.

Junctions - Two adjoining surveys not registered to date. Rec'd and compared. 4/24/40 H.W.M. ✓  
Junction at western limit made with H6389 (1938) ✓  
with a satisfactory junction and with H6388 (1938)  
Junction with H6388 (1938) shows in a few soundings a deeper depth by 1 to <sup>2</sup>/<sub>3</sub> fathoms on this survey. Since ✓  
H6388 used fathometer against machine sounding on this survey, the shoaler soundings of H6388 were given preference.

Rocks : The following rocks were located by hydro party and probably will not show on topo surveys. ✓

(1) Rock bearing 2' MLLW at Lat.  $54^{\circ}-37.88'$ ; Long.  $164^{\circ}-51.1'$  ✓

(2) Ledge off  $\odot$  Pil at Long.  $164^{\circ}-53.5'$

(3) Rock bearing 1' MLLW at  $54^{\circ}-38.63'$ ;  $164^{\circ}-47.65'$

(4) Ledge at  $54^{\circ}-39.3'$ ;  $164^{\circ}-43.7'$

Drafting - The field drafting was very good. Shore line from ✓  
T6602 (1937) was added in office.

Submitted 4/16/40 G. Everett.

HYDROGRAPHIC SURVEY NO. H6466

Smooth Sheet Yes

Boat Sheet 2

Records; Sounding 6 Vols., Wire Drag     Vols., Bomb     Vols.

Descriptive Report Yes

Title Sheet Yes

List of Signals ~~No~~ Yes

Landmarks for Charts (Form 567) ~~No~~ Yes

Statistics Yes

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524) 1

Special Chart for Lighthouse Service No  
(Circular Nov.30, 1933)

Hydrography: Total Days 12 ; Last Date Aug. 18

Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Remarks

Decisions

	Remarks	Decisions
1		545645
2		545640 USG.B.
3	From Alaska C.P. II, 1938, p. 385: do not list Pending report on names mentioned in Dex. Report p. 3. Name applies to area covered by this sheet.	545645
4		
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27		

GEOGRAPHIC NAMES

Survey No.

**H6466**

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>Cape Sarichef</u>										1
<u>Unimak Island</u>										2
Dublin Bay										3
										4
										5
										6
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										8
										9
										10
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										26
										27

Names underlined in red approved  
by L. Heck on 5/10/40

RAC  
H.R.

Form 712  
DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY  
Rev. June 1937

### TIDE NOTE FOR HYDROGRAPHIC SHEET

March 16, 1940

Division of Hydrography and Topography:

✓ Division of Charts: Attention: Mr. H. R. Edmonston.

Plane of reference approved in  
6 volumes of sounding records for

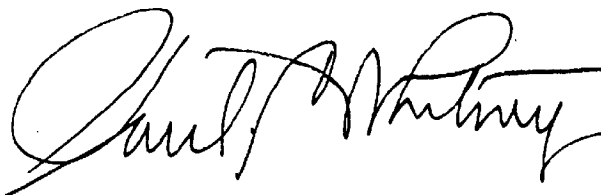
HYDROGRAPHIC SHEET 6466

Locality Cape Sarichef NW to Lat. 54° 43', NW of Unimak Island, Alaska

Chief of Party: E. W. Eickelberg in 1939  
Plane of reference is mean lower low water reading  
4.4 ft. on tide staff at Cape Sarichef  
13.4 ft. below B. M. 1

Height of mean high water above plane of reference is 4.7 feet.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT PHOTOSTAT OF	}	No. H <b>H6466</b> <del>No. T</del>	}	received March 6, 1940 registered March 8, 1940 verified reviewed approved
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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
20			
22			
24			
25	✓	<i>a.f.m.</i>	<i>Pages 2 and 3</i>
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	T. B. Reed
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*✓ JBR*

DIVISION OF CHARTS

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6466 (1939) FIELD NO. 21

Aleutian Islands, Northwest Coast of Unimak Island,  
Cape Sarichef Northeast to Latitude 54°43'.

Surveyed in June - August 1939, Scale 1:20,000.

Instructions dated March 8, 1939 (GUIDE).

Soundings:  
Hand Lead and Machine.

Control:  
Three Point fixes on shore signals.

Chief of Party - E. W. Eickelberg.  
Surveyed by - R. C. Rowse and G. M. Marchand.  
Protracted by - C. A. Kester.  
Soundings plotted by - C. A. Kester.  
Verified and inked by G. H. Everett.  
Reviewed by - Harold W. Murray, April 24, 1940.  
Inspected by - H. R. Edmonston.

1. Shoreline and Signals.

The shoreline and signals originate with T-6602 (1937) and T-6681, T-6682, and T-6683 of 1939.

2. Sounding Line Crossings.

Agreement of sounding line crossings is satisfactory. Several discrepancies of 1 to 3 fathoms in single soundings are noted in the Descriptive Report. These discrepancies may be attributed to small differences in position since similar depths are usually shown close by. The deeper conflicting depths were omitted in the office verification.

3. Depth Curves.

The usual depth curves may be satisfactorily drawn.

4. Junctions with Contemporary Surveys.

- a. The junction on the southwest with H-6389 (1938) is satisfactory. The descriptive report (page 3), however, states that the patch of kelp shown on the 1938 survey in lat. 54°36.5', long. 164°55.1' was not present in the early summer of 1939.
- b. The junction on the northwest with H-6388 (1938) is satisfactory.
- c. The junction along the northwest and north with H-6465 (1939) will be considered in the review of that survey.



d. The junction on the north with H-6567 will be considered when that sheet is received from the field.

5. Comparison with Prior Surveys.

No prior surveys have been made by this Bureau in this area.

6. Comparison with Chart 8860 (New Print dated July 13, 1939).

Several charted soundings falling within the limits of the present survey originate with miscellaneous sources. These soundings vary about 10 fathoms deeper than the present survey and should be disregarded.

7. Condition of Survey.

- a. The sounding records are neat and legible and conform to the requirements of the Hydrographic Manual.
- b. The field protracting and plotting is satisfactory.
- c. The Descriptive Report is clear and satisfactorily covers all matters of importance.

8. Compliance with Instructions for the Project.

The plan, character and extent of the survey satisfy the Instructions for the Project.

9. Additional Field Work Recommended.

This is an excellent survey and no additional field work is recommended.

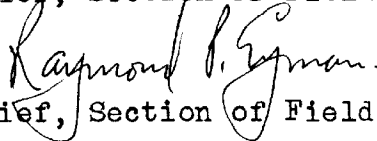
10. Superseded Prior Surveys.

There are no prior surveys in this area made by this Bureau.

Examined and approved:



T. B. Reed,  
Chief, Section of Field Records.



Chief, Section of Field Work.



Chief, Division of Charts.



Chief, Division of H. & T.

Approved to O.R. 8860 - July 1940 - J.M.G.  
" " " 8802 Nov. 1940 J.M.A.