

6655

Original

Form 504  
Rev. April 1935

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

~~TERRITORIAL~~ }  
Hydrographic } Sheet No. 6655

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U. S. COAST & GEODETIC SURVEY  
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State ALASKA

LOCALITY

Southeastern Alaska

Sitka Sound

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1941

CHIEF OF PARTY

E. O. Haston

6655

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

H6655

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. 2111

REGISTER NO. 6655

State ALASKA

General locality Southeastern Alaska

Locality Sitka Sound

Scale 1:20000 Date of survey Apr 9 - Apr 24, 1941, 19 41

E. LESTER JONES

Vessel WESTDAHL

L. C. Wilder

Chief of Party Earl O. Heaton

L. C. Wilder, R. C. Bolstad, J. C. Ellerbe

Surveyed by E. O. Heaton, J. C. Boss, H. G. Conarly

Protracted by R. M. Sylar

Soundings penciled by R. M. Sylar

Soundings in fathoms ~~1000~~ 1000 Fathoms

Plane of reference MLLW

Subdivision of wire dragged areas by \_\_\_\_\_

Inked by Levy King Nov 30, 1942

Verified by \_\_\_\_\_

Instructions dated Feb. 14, 1940, May 14, \_\_\_\_\_, 1941

Remarks: Reductions, smooth sheet and plotting by

Seattle Processing Office



DESCRIPTIVE REPORT

TO

H6655

ACCOMPANY

HYDROGRAPHIC SHEET

REGISTER NO. 6655

FIELD NO. 2141

MOTOR VESSEL WESTDAHL

E. O. HEATON, COMDG.

INSTRUCTIONS: The survey was made in accordance with Instructions dated February 14, 1940 to the commanding officer of the E. Lester Jones and Supplemental Instructions, dated May 14, 1941 to the commanding officer of the WESTDAHL.

The work was begun in April 1940 by the E. LESTER JONES. It was resumed in April 1941 by the WESTDAHL and completed during the season. This report covers only the area surveyed by the WESTDAHL.

SURVEY METHODS: The work was done by the conventional method of visual fixes and fathometer soundings. Most of the soundings were taken by the Dorsey, III fathometer but on May 13th and 15th, while the Dorsey fathometer was not functioning, the 808A fathometer was used. Corrections, based on serial temperatures and salinities are given in a separate fathometer report.

A few hand lead and wire soundings were also taken, mostly while drift-sounding for least depths.

DISCREPANCIES: So far as can be determined from the boat sheet, no discrepancies in soundings or in positions exist.

DANGERS: Although numerous soundings shoaler than those appearing on the present chart of Sitka Sound were found, only one new shoal was found which constitutes a danger. This is the 2 fathom shoal in Lat.  $56^{\circ} 49.95'$ , Long.  $135^{\circ} 33.2'$ , see position No. 114Y and 115Y, page 54, volume 7. It was reported as soon as found, has been published in Notice to Mariners, and appears on the newest charts.

Considerable development and drift sounding was done on the shoal marked by lighted whistle buoy No. 2 near Biorka Reef. However no sounding as shoal as 7 fathoms (as reported by the commanding officer of the "Hemlock") was found. An attempt was made to sweep the area with a marlin sweep but, on account of the current, it was not possible to sweep the exact area desired. The shoalest sounding obtained was 7 fathoms, position 74AA, page 16, volume 8. <sup>74 fm considered adequate</sup> <sup>9 fm, not 7 fm was reported in chart letter 146 (1940)</sup>

16, volume 8.  
21 13

# H6655

COMPARISON WITH PREVIOUS SURVEYS: This sheet covers the area surveyed on hydrographic sheet No. H 2175 (1893). The present survey made with modern methods, resulted in the finding of many shoals which were missed in the older survey, as the bottom of Sitka Sound is very irregular.

It was noted that the topography of Kita and Peisar Islands and of minor islands on the east shore of Sitka Sound was erroneous and should be revised. For example, Chart No. 8255 shows a small island which does not exist. See position 2LL, Page 36, Volume 10. ✓ see Review  
Par. (5)  
T-2148  
(b)

GEOGRAPHIC NAMES: The names shown on Chart No. 8255 seem to be well established. No new names are reported here. ✓

STATISTICS: Sheet No. 6655 (WESTDAHL)

Area, square statute miles - - - - -	-85.6
Statute miles of sounding line - - - - -	869.1
Number of soundings - - - - -	19906
Number of positions - - - - -	-2762

Respectfully submitted:

*J. C. Bose*  
J. C. Bose,  
H. & G. Engr.

Approved and forwarded:

*Earl O. Heaton*  
Earl O. Heaton,  
H. & G. Engr.  
Chief of Party.

ADDITIONAL NOTES BY SEATTLE PROCESSING OFFICE

DISCREPANCIES

In the vicinity of Biorka Reef at Lat. 56° 52'.8 Long. 135° 38'.3 discrepancies in the soundings appear on nearly all of the lines of "S" day running east and west between positions 31S and 48S. Most of these discrepancies occur where the "S" day lines cross the lines between 49D and 64D day or along the west side of Biorka Reef. Due to the broken bottom here, it is quite possible that most of these soundings are correct. The junction of the insert and the main sheet agree very well except in this same vicinity. Here the soundings between positions 3AA and 4AA day (on the Insert) appear to be in error as much as 25 fms. Although the plotting of position 4AA agrees with that on the boat sheet, it is believed that it is in error and should be moved about 100 meters west. This would affect the depth curves very little but would eliminate the 53 fm. sounding on the 28 fm. sounding, etc.

*On very irregular slope of 8 fm shoals in 60 fm. Shoaler soundings accepted. There are no discrepancies regarding critical depths.*

*Deeper soundings rejected.*

At Lat. 56° 56'.0 Long. 135° 30'.9 a 49 fm. sounding (11M to 12M) occurs in approximately 60 fms. of water with a good 54 fm. crowing on the shoaler side of it. This 49 fm. sounding, at first, appears to be in error, but on inspection of the 50 fm. curve and soundings in the same vicinity, it is probably correct. ~~It can be noted that two 50 fm. soundings were found in about 80 fms. of water 1/4 mile south, and a 37 fm. sounding in 60 fms. of water about 1/3 mile to southwest, all indicating irregular bottom.~~

*on steep irregular slope of 38 fm shoal in 80 fm*

*these soundings pos. 27-28, "A" day were disproved on "Y" and "GG" and rejected.*

SHOALS

Numerous shoals appear in the area covered by this sheet due to the irregular bottom, but they are especially plentiful in the southeast corner of the area covered between Latitudes 56° 52' and 56° 57' and Longitudes 135° 27' and 135° 31'. 150 meter spacings of sounding lines cover most of this area where the soundings are shoaler than 50 fathoms with no closer development. It is believed that upon closer development many shoaler soundings would appear.

*These undeveloped shoals are from 16-20 fms. and fall in 20-30 fms depths*

At Lat. 56° 59'.08 Long. 135° 25'.1, a 3 1/6 fm. sounding was found by the M.V. E.L.JONES while developing this shoal, and is shown as the least depth obtained during the 1940 season, in this vicinity. On April 24, 1940 a dory was put out to drift sound this shoal. A "strong swell about ready to break" was running, making it too dangerous for the dory to venture over the shoalest spot. The position of the highest point of swell over the shoal was determined, but the least depth at this point was not sounded. This least depth is shown as 2 fathoms on Chart N-8255 and this work does not contradict it.

*Sunken rock plotted. See Review Par. 7(a)(1)*

WIRE DRAG

The wire drag work is plotted on a linen overlay, now included with this report.

Two small spots were examined with the aid of a small wire drag:

Lat. 57° 01'.41  
 Long 135° 28'.75                      least depth      6 1/6 fms. ✓ ✓

Lat. 56° 59'.96  
 Long. 135° 27'.38                      least depth              8 fms. ✓ ✓

On the second position the same depth had already been found with the recording fathometer; on the first one the fathometer found 6 4/6 fms. a few meters north of the least depth. These were reported April 30, 1940 by L. C. Wilder. See copy of letter attached.

H6655

PLOTTING

On account of badly broken bottom, soundings have been made slightly smaller than 2 millimeters to get in enough soundings to show these irregularities. *All inked soundings are clear and legible.*

CONTROL

The signals are located by triangulation and topography as shown on the list of signals. Mas and Lil were transferred from E-4554 of 1925. *checked on T-4179(1925)*

Vi, Of, Nor, Tow, Mid, Sot, and Ea are determined from 4th order computations attached to this report.

STATISTICS -- E. LESTER JONES & WESTDAHL

Stat. Miles Sounding Line	1073.6
Number of Positions	3503
Number of Soundings	24814
Area, Square Stat. Miles	95.8

WIRE DRAG STATISTICS

Number of Positions	43
Number of Soundings	8
Miles of Line	1.4
Area, Square Stat. Miles	0.1


*Roy M. Syler*  
 Roy M. Syler  
 Sr. Triangulation Obsr.  
 Seattle Processing Office

The triangulation computations included with this report are for signals used on the sheet. They are attached on the recommendation of the field party.

The discrepancies mentioned in paragraph one of Page ~~one~~<sup>three</sup> of the ~~Additional Notes by the Seattle Processing Office~~ are probably due to taking close-by objects for fixes on one day and rather distant ones on the other.

The shoaler soundings referred to in paragraph two of Page ~~one~~<sup>three</sup> may be erroneous. It is unfortunate that no remarks were made in the sounding records nor the sudden changes in depth marked by check marks by the recorder.

The processing of the sheet has been inspected and is approved.

  
E. H. Bernstein  
Lieut. Commander  
Officer in Charge  
Seattle Processing Office

# H6655

## TIDAL NOTE

Tide reducers for sheet No. H-6655 were derived from the record of the standard gage at Sitka. Hourly heights were furnished by the Washington Office.

Mean lower low water corresponds to a reading of 5.0 feet on the staff. No time difference was applied.

Position of Gage:

Lat.  $57^{\circ} 02.95'$

Long.  $135^{\circ} 20.3'$



## LIST OF SIGNALS (H-6655)

TRIANGULATIONTOPO SHEET T-6827<sup>8a</sup> (1941)

<u>Fluke</u> 1893	Black
<u>Foam</u> 2 1928	Wil
<u>Vitskari</u> Rock Lt. 1940	Reef
<u>Blakk</u> 1938	Pol
<u>Sentinal</u> Rock 1938	Sand
<u>Signal</u> Island Lt. 1938	Flag
<u>South</u> Tank 1941 ( <u>ite</u> )	Log
<u>Perch</u> 1893	Bil
<u>Hekholms</u> Lt. 1938	Pole
<u>Soap</u> 1893	
<u>Run</u> 1938	<u>FROM HYDROGRAPHIC SHEET T-4179</u> <u>H-4554</u> (1925)
<u>Spar</u> 1893	Mas
<u>Bat</u> 1893	Lil
<u>Visokoi</u> 1925	
<u>Kaiuchali</u> 1925	
<u>Woodhouse</u> 1925	

FOURTH ORDER TRIANGULATION

V1  
 Of  
 Nor  
 Tow  
 Mid  
 Set  
 Ea

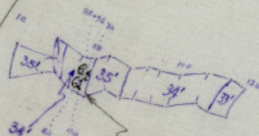


57°01'

135°30'

29'

28' 02'

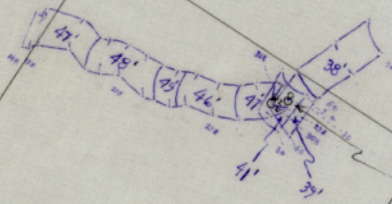


Least depth = 66 fm.

00'

27'

01'



Least depth = 8 fm.

26'

57°00'



SOAP

1893

Wire Drag investigation to locate least depths. Work recorded in Vol. 5



Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. **H6655**

Records accompanying survey:

Boat sheets ~~three~~, sounding vols. ~~...~~(16), wire drag vols. ....;  
 bomb vols. ....; graphic recorder rolls (2) 1 is combined with H-6667  
 special reports, etc. .1 Cahier of computations, <sup>1 tracing now with report.</sup> ~~2 overlay tracings~~ <sup>The other tracing of insert destroyed.</sup>  
~~2 reports of fathometer corrections containing work on H-6666 & H-6667...~~

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

Number of positions on sheet	3546
Number of positions checked	86
Number of positions revised	17
Number of soundings recorded	24822
Number of soundings revised (refers to depth only)	148
Number of soundings erroneously spaced	23
Number of signals erroneously plotted or transferred	0
Topographic details	Time .3 Hrs.
Junctions	Time .75 Hrs.
Verification of soundings from graphic record	Time .....

Verification by *Lusy King*..... Total time 476.4 Hrs Date Nov. 30, 1942

Review by ..... *G.F. Jordan*..... Time ..66. Date 12/23/42.

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

(2141) 46655

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

Notes for Hydrographic Descriptive Report  
Sitka 1940.

This sheet is to be completed in spring of 1941 as now planned. (Return both boat sheets before Apr. 1st)

Dangers; See letter dated April 30 1940.

Shoals have no kelp upon them and seem to be very steep sided and are particularly difficult to get a lead on.

Methods; It is believed that the wire drag work should not be plotted as such but should be used only in verifying least depths. *wire drag considered as furnishing least depths only.*

Considerable difficulty was experienced in dragging over these shoals as small boats and outboards are not satisfactory vessels for this work.

Landmarks; There are no landmarks other than lights and prominent islands. It is understood that the radio towers at the Naval Base are to be removed. This can be reported upon in the spring of 1941 when work is resumed.

FEB 7 1941

copy  
POST-OFFICE ADDRESS:

Commanding Officer,  
M. V. "E. LESTER JONES",  
601 Federal Office Building,  
Seattle, Washington

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

Ketchikan, Alaska  
April 30, 1940.

To: The Inspector, Seattle Field Station,  
U. S. Coast and Geodetic Survey,  
601 Federal Office Building,  
Seattle, Washington.

From: The Commanding Officer,  
M. V. "E. LESTER JONES".

Subject: Notice to Mariners.

You are respectfully informed that this vessel, while surveying in the vicinity of Sitka, determined the positions of the following soundings. Only the first could constitute a danger to larger vessels using the main ship channel, although the second could possibly become a danger in case a large vessel, such as a heavy naval unit, should pass over it in heavy weather.

The positions of Biorka lighted whistle buoy and the first sounding (6-1/6) on the list are given by latitude and longitude for Coast Survey records, as well as by distance and bearing.

Many other unknown shoals were located, but they lie only short distances from foul water and are well out of the main ship channels. Following are the soundings with their respective positions:

1. 6-1/6 fms. - Lat. 57 - 01 + 761 meters, Long. 135 - 28 + 781 meters, 4564 yds, 327° T from Kulichkoff Rock.  
    + 56° 59.96'   λ 135° 27.38'
2. 8 fms. - 1306 yds, 313° T from Kulichkoff Rock.  
    + 56° 58.9'   λ 135° 25.25'
3. 4-1/2 fms. - 1873 yds, 130½° T from Kulichkoff Rock, 56° 59' λ 134° 26'
4. Sunken Rk. 3½<sup>fms</sup> near Rk (16-17E red) + 56° 59.08' λ 135° 25.1' } See Review, Par. 7(a)(1)  
(Approx 2 fm) - 1827 yds. - 121° T from Kulichkoff Rock.  
    3½ fms 6b Vol. 4 + 56° 59.7' λ 135° 25.3'
5. 2-5/6 fms. - 1378 yds., 77° T from Kulichkoff Rock. See Review Par 7(a)(2)
6. Biorka Whistle Buoy - Lat. 56 - 52 + 1635 meters, Long. 135 - 38 + 205 meters, 2620 yds, 305° T from Biorka Reef (1/4 fm. discontinued)
7. 8-1/2 fms. - 156 yds., 356° T from Biorka Whistle Buoy.

FEB 7 1941

copy

The positions of all soundings listed may be plotted on chart 8255.  
It will be noted that the true position of Biorka lighted whistle buoy is about 280 yds., 320° T from the position shown on chart 8255 at the present time.

*this buoy  
discontinued  
See Review  
Part (b)*

L. C. Wilder,  
Commanding Officer,  
M. V. "E. LESTER JONES".

LCW/JCE:rb

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6655

Field No. 2141

Southeastern Alaska, Sitka Sound  
Surveyed in 1940 and 1941; Scale 1:20,000  
Instructions dated  
February 14, 1940 and May 14, 1941

Soundings:  
Dorsey 3 Fathometer;  
808A Fathometer

Control:  
Three-point Fix on Shore Signals

Chief of Party - L. C. Wilder; Earl O. Heaton  
Surveyed by - Ship's Officers  
Protracted by - R. M. Sylar  
Soundings plotted by - R. M. Sylar  
Verified and inked by - Leroy King  
Reviewed by - G. F. Jordan  
Inspected by - H. R. Edmonston

1. Shoreline and Signals

The signals are from previously established triangulation stations and those established during the present survey and from T-6828(a) and T-4179 (1925).

The undated triangulation stations on Biorka Island are fourth order and were established during the present survey.

The shoreline and adjacent rock detail are from T-6828(a) (1941), T-6753 (1940), T-4390 (1928) and T-4179 (1925). T-6889 (1942) is incomplete and is in pencil but was consulted during this review.

2. Sounding Line Crossings

Satisfactory.

3. Depth Curves

Satisfactory.

4. Junctions with Contemporary Surveys

Satisfactory junctions are made with H-6667 (1941) on the north, H-6354 (1938) and H-6355 (1938) on

the northeast, H-4554 (1925) on the south and with H-4842 (1928) on the northwest. Contemporary surveys have not been completed on the east.

#### 5. Comparison with Prior Surveys

Most of the area was covered by surveys made 50 years ago. The general agreement is satisfactory, considering the irregular bottom. Minor disagreements in depths are considered due to the less reliable older surveys and are not considered in the following paragraphs.

#### H-2175 (1893)

- a. The 9-fm. sounding charted on 8255 at Lat.  $56^{\circ}59.5'$ ; Long.  $135^{\circ}26.7'$ , in 13fm. on the present survey, was misplotted. It actually falls N.E. of the charted position in comparable depths on the present survey.
- b. The 9-fm. sounding charted on 8255 at Lat.  $56^{\circ}57.5'$ ; Long.  $135^{\circ}27.4'$ , on 10fm. shoal on the present survey, is actually 9-3/4fm. The 10-fm. sounding on the present survey is considered adequate.
- c. The 52-fm. sounding charted on 8255 at Lat.  $56^{\circ}55.2'$ ; Long.  $135^{\circ}30.6'$ , in 85fm. on the present survey, was misread in the records and is actually 82fm.
- d. The 28-fm. sounding charted on 8255 at Lat.  $56^{\circ}52.85'$ ; Long.  $135^{\circ}31.2'$  is from a line all of which soundings are shoaler than the present survey. It is considered that the 30-fm. shoal sounding on the present survey is adequate and that the 28 should be disregarded.
- e. The 11-fm. shoal charted on 8255 at Lat.  $56^{\circ}52.55'$ ; Long.  $135^{\circ}32.0'$  is a sounding from a line which is controlled by small angles on distant objects. It is considered that the location 150 meters N.W. on the present survey is adequate and that the prior location should be disregarded.
- f. The 17-fm. sounding charted on 8255 at Lat.  $56^{\circ}52.45'$ ; Long.  $135^{\circ}35.8'$ , in 30fm. on the present survey, comes from development lines which are considered inadequately controlled by angles on mountain peaks 15 miles distant. The present survey is adequate and the 17-fm. sounding should be disregarded.

- g. Biorka Reef, 1/4-fm. sounding, charted on 8255 at Lat.  $56^{\circ}52.15'$ ; Long.  $135^{\circ}36.25'$ , falls 150 meters north of the location shown on the present survey. The signal control for this area is considered inadequate on the prior survey, as noted above, and the present survey should be accepted. Also, the charted 12-fm. sounding east of the charted buoy is considered out of position for the same reason and should be disregarded.

T-2148 (1893), H-2175 (1893), H-6355 (1938), T-6753 (1940)

Discrepancies which involve these four surveys are found in the locations of rocks near Kulichkof Rocks at Lat.  $56^{\circ}59.5'$ ; Long.  $135^{\circ}26.5'$ . The review for H-6355 (1938) recommended investigation of the rock 475 meters north of the above position and a resurvey was authorized under Par. (7) of the present instructions and accomplished on T-6173 (1940).

There is also a discrepancy in the location of the rock awash 450 meters WSW from Kulichkof Rock the position of which, as charted from T-2148 (1893), is considered erroneous. The protracted angle from signal SOAP (1893) between the small islet south of Kulichkof Rock and the rock awash is the same on T-2148 and T-6753, but the azimuths are  $30^{\circ}$  less on the prior survey. Incidentally, the orientation of the Vitskari Rocks on this same prior survey was also noted in error in the review of H-6667 (1941). Both H-6355 (1938) and T-6753 (1940) place this rock WNW from signal SOAP (1893). The position of the charted rock awash falls on a 5-4/6-fm. sounding on the present survey. It is recommended that this rock awash be disregarded.

T-2148 (1893)

- a. Two rocks awash and notations of breakers on the present survey at Lat.  $56^{\circ}57'$ ; Long.  $135^{\circ}26'$  to  $27'$  fall outside the limits of the hydrography accomplished. The easterly rock falls 150 meters north of the location given on the prior survey, and it is recommended that this new position supersede that on the prior survey. It is also recommended that Vasilief Bank be retained as charted until the contemporary overlapping survey has been received in the office.



- b. The offshore islet and reef detail west and southwest of Kita Island, charted on 8255 at Lat.  $56^{\circ}56.3'$ ; Long.  $135^{\circ}26'$ , is incorrect on the prior survey, as noted by the hydrographic party and confirmed by T-6889 (1942). It is recommended that this charted detail within the limits of the present survey be disregarded.

H-1440A (1880)

This prior anchorage survey of Symonds Bay on Biorka Island overlaps the present survey and is in general agreement. See comments under the last part of Par. (9).

H-2176 (1893)

This prior survey overlaps the present survey east of Kulichkof Rock and is in agreement. The present survey adequately develops very irregular bottom and sunken rocks in this area.

6. Comparison with Wire Drag Surveys

H-6356 (1938) W.D. makes a small overlap on the northeast corner of the present survey and is in agreement. Three soundings have been transferred from this recent survey.

7. Comparison with Chart 8255 (latest print of 4-20-42)  
Chart 8256 ( " " " 3- 6-40)

a. Hydrography

- (1) The 2-fm. shoal charted on 8255 at Lat.  $56^{\circ}59.08'$ ; Long.  $135^{\circ}25.1'$  originates from advance information on the present survey and is included in the letter attached to this report. This depth was estimated in breakers from the position of the 3-1/6-fm. sounding 30 meters west. The least depth was not obtained and it is recommended that a sunken rock be charted in place of the 2-fm. sounding.
- (2) The 2-3/4-fm. shoal charted on 8255 at Lat.  $56^{\circ}59.7'$ ; Long.  $135^{\circ}25.3'$  originates from the same letter noted above. The smooth sheet value is 3-2/6 fathoms and the 2-3/4 should be disregarded.
- (3) The 4-1/4-fm. shoal charted on 8255 at Lat.  $56^{\circ}59.7'$ ; Long.  $135^{\circ}25.6'$  originates from chart

letter 390 (1938) which gives advance information on H-6356 (1938) W.D. No bearing was given for this last item in the chart letter, and it was erroneously assumed to be on the same bearing as the preceding item. The shoal was subsequently charted from H-6356 W.D. in its correct location 500 meters NNW of the above position. The southerly 4-1/4 should be disregarded.

- (4) The 10-fm. sounding charted on 8255 at Lat.  $56^{\circ}56.4'$ ; Long.  $135^{\circ}27'$  originates from chart letter 744 (1941) which gives advance information on the present survey. The chart letter correctly notes the erroneous island at this position but adds that the charted island falls in 10fm. on the present survey. There may be 10-fm. depths slightly east of the present hydrography but 14fm. is the least depth at the charted 10fm. It is recommended that the 10fm. sounding be disregarded.
- (5) The two sunken rocks, position doubtful, charted on 8255 at Lat.  $56^{\circ}59.1'$ ; Long.  $135^{\circ}24'$  are from information reported to the coast pilot inspection party and submitted in chart letter 138 (1932). It is considered that a 45-minute investigation on the present survey, which resulted in the 2-5/6-fm. shoal, is adequate and that the two sunken rocks should be disregarded.

b. Aids to Navigation

There is only one floating aid to navigation within the limits of the present survey. The lighted red buoy marking the 8fm. shoal 1-1/2 miles northwest of Biorka Reef at Lat.  $56^{\circ}52.9'$ ; Long.  $135^{\circ}38.2'$  has been discontinued and a nun buoy placed 300 meters NNW of Biorka Reef according to H. O. Notice to Mariners No. 5 (1942).

7. Condition of Survey

- a. The sounding records are neat and legible and are complete in all necessary detail.
- b. The Descriptive Report and field plotting are satisfactory.

8. Compliance with Instructions for the Project

Considering the irregularity of the bottom on the present survey the coverage and development is very good with the exception of the area within a 1/2 mile radius surrounding Kulichkof Rock where lack of close development and an excess of "no bottom" soundings are unsatisfactory.

9. Additional Work

The area of the present survey is very irregular and dotted with abrupt shoals, and it is difficult to make satisfactory recommendations as to the adequacy of the survey. A large amount of development work was accomplished, and drift soundings were taken over numerous shoals. It would be extremely costly to investigate every shoal which might be a danger; for instance, the present survey shows 3-fm. pinnacles in 8 to 20fm. and an undeveloped 19-fm. sounding adjacent to a 42-fm. sounding in 60-fm. depths.

It is recommended that wire drag surveys be extended west and southwest from H-6356 (1938) W.D. over the area of the present survey and should include covering the following undeveloped shoals:

Lat. 57°00.7';	Long. 135°28.8'	19fm. in 50fm. depths.
" 56°58.7';	Long. 135°26.9'	7-3/4 " 13fm. "
" 56°58.65;	" 135°26.45'	10-3/4 " 14-30fm."
" 56°57.9';	" 135°26.8'	6-1/6 " 12-20fm."
" 56°58.2';	" 135°28.0'	16 fm." 20-30fm."
" 56°57.9';	" 135°27.6'	7-1/4 " 13-20fm."
" 56°55.9';	" 135°26.9'	7-1/4 " 12-20fm."
" 56°59.6';	" 135°32.6'	9-1/4 " 12-20fm."
" 56°52.2';	" 135°30.5'	9-3/4 " 20fm. at entrance to anchorage
" 56°52.6';	Long. 135°32.2'	11fm. in 20fm. at entrance to anchorage
" 56°51.7';	Long. 135°37.0'	16fm. in 40fm. S.E. of Biorka Reef
" 56°51.7';	Long. 135°35.1'	11fm. in 20fm. west of Biorka Island
" 56°51.1';	Long. 135°34.7'	13fm. in 30fm. west of Biorka Island
" 56°50.5';	Long. 135°34.7'	14fm. in 25fm. west of Biorka Island
" 56°49.9';	Long. 135°34.8'	8-3/4fm. in 20-30fm.

The 20-minute investigation of the last shoal, with least depth of 11fm., is considered inadequate. The 8-3/4fm. is a sounding on a line.

Although the inshore hydrography around Biorka Island is outside the limits of the present survey it is to be noted that the sounding lines in this vicinity are widely spaced and shoal indications undeveloped. Attention is particularly called to Symonds Bay which is mentioned in the Descriptive Report of H-4554 (1925) and in the coast pilot as an anchorage. This bay is charted from H-2175 (1893), which is considered inadequate for an anchorage survey. The bay was formerly shown on anchorage chart 724 of 1880 which was compiled from H-1440 (1879). It has been recommended that a 17-ft. shoal be charted at Lat. 56°51.5'; Long. 135°30.4' from this 1879 survey.

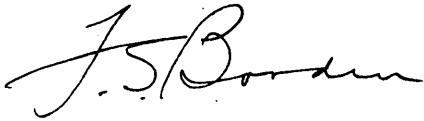
now surveyed  
see  
H-7097(1945)

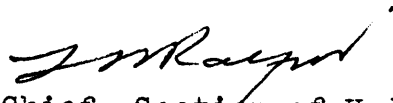
10. Superseded Surveys


H-1440a (1880) in part  
H-2175 (1893) " "  
H-2176 (1893) " "

Examined and approved:

  
Chief, Surveys Branch

  
Chief, Division of Charts

  
Chief, Section of Hydrography

  
Chief, Division of  
Coastal Surveys

Remarks

Decisions

	Remarks	Decisions
1		568350 USG-B
2		571356
3		569354
4	For title.	570355
5		568350 US-G-B
6		"
7		US-G-B
8		570355 "
9	Location of tide staff: not on this sheet.	US-G-B.
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GEOGRAPHIC NAMES  
Survey No. **H6655**

Name on Survey	Source										
	A	B	C	D	E	F	G	H	K		
<u>Biorka Island</u> ✓											1
<u>Kruzof Island</u> ✓											2
<u>Vasilief</u> ✓											3
<del>Shief</del> Bank ✓											3
<u>Sitka Sound</u> ✓											4
<u>Biorka Reef</u> ✓											5
<u>Point Woodhouse</u> ✓											6
<u>Symonds Bay</u> ✓											7
<u>Shoals Point</u>											8
<u>Sitka</u>											9
											10
											11
											12
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											M 234

Names underlined in red approved  
by L. Heck on 1/16/43

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
 DESCRIPTIVE REPORT  
~~PHOTOSTATION~~

No. **H6655**  
~~No. 6655~~

received August 26, 1942  
 registered September 4, 1942  
 verified *J. King Nov. 30, 1942*  
 reviewed  
 approved

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			
26			
30			
40			
62			
63			
82			
83	<i>Pg 184</i>		
88			
90			

RETURN TO

82	R. W. Knox
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RCC  
HLL

TIDE NOTE FOR HYDROGRAPHIC SHEET

September 10, 1942.

~~Division of Hydrography and Topography:~~

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

Plane of reference approved in  
16 volumes of sounding records for

HYDROGRAPHIC SHEET 6655

Locality Sitka Sound, Southeastern Alaska

Chief of Party: L. C. Wilder & E. O. Heaton 1940-41  
Plane of reference is mean lower low water reading  
5.0 ft. on tide staff at Sitka  
15.5 ft. below B. M. 5

Height of mean high water above plane of reference is 9.1 feet.

Condition of records satisfactory except as noted below:

*E. H. Green*  
Chief, Division of Tides and Currents.



applied to ch 8255 2/2/43 JHE.

" " ch 8256 2/6/43 JHE

" " ch 8252 2/12/43 JHE

added 20,504100 fm curves and add'l steps to ch 8255 1/25/46 JHE