

6753

6753

Form 504 Rev. April 1935	
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Topographic <del>Hydrographic</del>	Sheet No. A - Sitka - 40
U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES MAR 3 1941 Acc. No. ....	
State Alaska	
LOCALITY	
Sitka Sound	
Kulichkof Rock	
1940	
CHIEF OF PARTY	
L. C. Wilder	

CP

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. A - Sitka - 40

REGISTER NO. **T6753**

State S.E. Alaska

General locality Sitka Sound

Locality Kulichkof Rock

Scale 1:10,000 Date of survey April, 1940

Vessel M.V. "E. LESTER JONES"

Chief of party L. C. Wilder

Surveyed by John C. Ellerbe

Inked by R. H. Woodcock (Seattle Processing Office)

Heights in feet above ----- to ground to tops of trees

~~Contours, approximate contours, from line indicated xxxxx feet~~

Instructions dated February 14, 1940

Remarks: Projection added in Seattle Processing Office.

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET REGISTER NO.

SITKA SOUND

Project No. HT-247

M.V. "E. LESTER JONES"

1940

**AUTHORITY:**

The work on this sheet was accomplished in accordance with Director's Instructions for Project HT-247, dated February 14, 1940.

**CONTROL:**

Triangulation of 1893, 1928, and 1938.

**EXTENT:**

This sheet covers a survey of Kulichkof Rock and nearby vicinity.

**GENERAL DESCRIPTION:**

Kulichkof Rock, in the east center of Sitka Sound, is a 38 foot rock, which is very prominent. It lies to the eastward of the main ship channel entering Sitka Harbor, and makes an excellent landmark.

A smaller rock lies a few meters to the southward. A large sunken rock lies 450 meters to the W.NW of the rock, and a 3 foot high water rock, part of a reef 100 meters long and running in a NE - SW direction, lies 440 meters to the northward. These two features are breaking most of the time and can be readily seen except on the very calmest of days, when the sunken rocks do not show.

**METHODS USED:**

One planetable set-up only was necessary--at triangulation station SOAP, from which all the surrounding details were rodded in.

**GEOGRAPHIC NAMES:**

The name Kulichkof Rock is well-established locally, and appears on all Coast and Geodetic Survey Charts covering this area.

MAGNETICS:

A declinoire observation was made at triangulation SOAP. The error of this instrument, which was standardized at the Sitka Magnetic Observatory, appears on the attached report on standardization of declinoires.

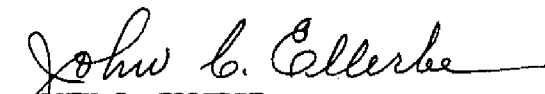
DATUM:

The datum used on this sheet is North American, 1927.

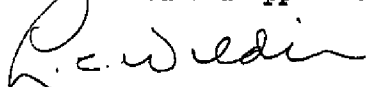
STATISTICS:

Statute miles of shoreline	0.3
Area in square statute miles	--
Number of elevations obtained	4

Respectfully submitted:

  
JOHN C. ELLERBE,  
Jr. H. & G. Engr.,  
Coast and Geodetic Survey.

Forwarded and Approved:



L. C. WILDER,  
H. & G. E., Ch. of Pty.,  
Comdg., M.V. "E. LESTER JONES".

REPORT

on

STANDARDIZATION OF DECLINATOIRES

Season 1940

M.V. "E. LESTER JONES"

L. C. WILDER, COMMANDING

During the field season 1940, while working on projects HT-218 and HT-247, the two declinatoires aboard this vessel were standardized in accordance with instructions.

The spring standardization was made at the Sitka Magnetic Observatory, on April 18, 1940. The azimuth of the mark was obtained from the magnetic observer there. Complete computations for the error of the two instruments were made. It will be noted that declinatoire No. 172 was slightly sluggish.

The fall standardization was made at the newly established station at Lincoln Park, Seattle, Washington, the line from the station to Alki Point Light being used for reference. No magnetic values for the station are known, therefore the computations are being submitted unfinished. It will be noted that declinatoire No. 172 was again found sluggish.

Four readings were taken for the standardization of each instrument. The angles made with the true azimuth line were then scaled with a steel protractor, and the four values meaned. The resulting mean angle was applied to the true azimuth of the mark in each case to determine the value of magnetic north by declinatoire. The true variation was then applied to this value to determine the error of the instrument concerned.

Declinatoire No. 172, which is obviously out of order, is being returned to the office and requisition for replacement has been made.

Following are the computations for each standardization:

(1). SITKA MAGNETIC OBSERVATORY--April 18, 1940.

Declination	29° - 57' E.
Diurnal Variation	<u>+02'</u>
Actual Variation	29° - 59' E.

	Declinatoire C.L.Berger & Sons(A) (10:25 a.m.)	Declinatoire # 172 (10:30 a.m.)
Azimuth of mark	172° - 36' True	172° - 36' True
Mn. angle measured (4)	<u>142° - 39'</u>	<u>141° - 31'</u>
Magnetic North by declinatoire	29° - 57'	31° - 05'
Actual Variation	<u>29° - 59'</u>	<u>29° - 59'</u>
Declinatoire Error	-02'	+1° - 06'

(2). LINCOLN PARK, SEATTLE, WASHINGTON--October 12, 1940. (not suitable for observations)

Declination 23° 18' E  
 Diurnal Variation + 02'  
 Actual Variation 23° 20' E

	Declinatoire C.L.Berger & Sons(A) (1:08 p.m.)	Declinatoire # 172 (1:04 p.m.)
Azimuth of Mark	342° - 37' True	342° - 37' True
Mn. Angle measured (4)	<u>40° - 42'</u>	<u>39° - 53'</u>
Magnetic North by declinatoire	<u>23° - 19'</u>	<u>22° - 30'</u>
Actual Variation	<u>23° - 20'</u>	<u>23° - 20'</u>
Declinatoire Error	+ 01'	+ 50'

The values which are unknown are to be filled in by the Office and computations completed.

Respectfully Submitted:

*John C. Ellerbe*  
 J. C. ELLERBE,  
 Jr. H. & G. Engr.  
 U. S. Coast and Geodetic Survey

Forwarded; Approved:

*L. C. Wilder*  
 L. C. WILDER,  
 H. & G. E., Ch. of Pty.,  
 Comdg., M.V. "E. LESTER JONES".

*Forwarded by*  
*Gen. L. Bean*  
 Officer in Charge,  
 Seattle Processing Office.

## Remarks

## Decisions

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M 234		

# GEOGRAPHIC NAMES

Survey No. **T6753**

GEOGRAPHIC NAMES		On Chart No.		On previous survey No.		On U. S. quadrangle Maps		From local information		On local Maps		P. O. Guide or Map		Rand McNally Atlas		U. S. Light List	
Name on Survey		A,	B,	C,	D	E	F	G	H	K							
<u>Kulichkof Rock</u>																	1
<u>Sitka Sound</u>																	2
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M 234

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
~~PHOTOSTAT OF~~

~~No. 11~~

No. T **T6753**

received Mar. 3, 1941  
registered Mar. 5, 1941  
verified  
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
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RETURN TO

82	T. B. Reed
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DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF TOPOGRAPHIC SURVEY

REGISTER NO. 6753

Field No. A

S. E. Alaska; Sitka Sound; Kulichkof Rock  
Surveyed April 1940; Scale 1:10,000  
Instructions dated February 14, 1940

Plane Table Survey

Aluminum Mounted

Chief of Party - L. C. Wilder  
Surveyed by - John C. Ellerbe  
Inked by - R. H. Woodcock  
Reviewed by - G. F. Jordan  
Inspected by - H. R. Edmonston, January 14, 1943

1. Junction with Contemporary Surveys

This is a survey of a small detached area near the middle of Sitka Sound. There are no adjoining surveys. H-6355 (1938) located the rocks North and WNW of Kulichkof Rock and differs only in the representation of the northerly rocks. The present survey should be accepted.

2. Comparison with Prior Surveys

T-2148 (1893) is the only prior topographic survey and the detail of Kulichkof Rock is considered to have been transferred from it to T-2290 (1897). The rock awash charted on 8255, 450 meters WSW of Kulichkof Rock is considered to have been erroneously located on the prior survey and is actually the same rock shown WNW on the present survey and on H-6355 (1938). The reason for this discrepancy is believed to be incorrect orientation on the prior survey, a condition which was also noted at Vitskari Island. This is confirmed by the fact that the protracted angle from signal SOAP between the rock awash and the small islet south of Kulichkof Rock is the same on the prior and present survey, but the azimuths are 30° less on the prior survey.

The rock awash north of Kulichkof Rock on H-2175 (1893) is considered to be 35 meters east of its correct position as shown on the present survey.

3. Comparison with Chart 8255 (latest print of 4-20-42)

a. Topography

The topography on the chart has already been discussed in the preceding paragraphs. It is to be noted that the sunken rock and notation "breaks in moderate swell" was applied from the present survey before review. Contemporary survey H-6355 (1938) obtained soundings on the rock, and the present survey has been corrected to show a rock awash at MLLW.

b. Magnetic Meridian

The magnetic determination is satisfactory.

4. Compliance with Instructions for the Project

The survey is satisfactory. It would have been advisable to have investigated and commented on the charted rock awash 450 meters southwest of Kulichkof Rock, which is disposed of in Par. 2.

5. Condition of Survey

a. The unchecked triangulation stations have been verified.

b. The descriptive report is satisfactory.

6. Additional Field Work


No additional field work is necessary.

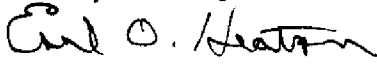
7. Superseded Surveys

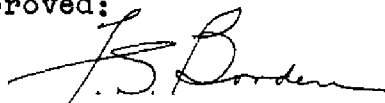

T-2148 (1893) in part

T-2290 (1897) " "

Examined and approved:

  
Chief, Surveys Branch

  
Chief, Section of Hydrography

  
Chief, Division of Charts  
  
Chief, Division of  
Coastal Surveys