

7045

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<p>Form 504</p> <p>U. S. COAST AND GEODETIC SURVEY</p> <p>DEPARTMENT OF COMMERCE</p> <p><b>DESCRIPTIVE REPORT</b></p>	
<p>Type of Survey <u>Hydrographic</u></p>	
<p>Field No. <u>JO 2001</u> Office No. <u>H-7045</u></p>	
<p>LOCALITY</p>	
<p>State <u>Washington</u></p>	
<p>General locality <u>Saratoga Passage</u></p>	
<p>Locality <u>Snotelum Pt. and Demock Pt.</u></p>	
<p><u>1945</u></p>	
<p>CHIEF OF PARTY</p>	
<p><u>H. E. Finnegan</u></p> <p><u>E. LESTER JONES</u></p>	
<p>LIBRARY &amp; ARCHIVES</p>	
<p>DATE .....</p>	

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.  
**H7045**

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. JO 2001

REGISTER NO.

State Washington

General locality Saratoga Passage

Locality Snatelum Pt. and Demock Pt.

Scale 1:10,000 Date of survey May, 1945

Vessel E. LESTER JONES

Chief of Party H. E. Finnegan

Surveyed by Curtis LeFever H. C. Applequist

Protracted by Marion T. Gwinn

Soundings penciled by Marion T. Gwinn

Soundings in fathoms and tenths  
~~and~~ ~~Fathoms~~

Plane of reference MLLW

Subdivision of wire dragged areas by

~~Interval~~ Soundings by recording fathometer.

Verified by

Instructions dated Telegram - April 13, 1945, 19

Remarks: Smooth Sheet and Plotting by the  
Seattle Processing Office

Description Report  
to Accompany  
Field Examination No. J.2001  
Saratoga Passage, Washington  
MV E LESTER JONES  
May 4-5, 1945

AUTHORITY

A hydrographic examination of the Torpedo Bombing area in Saratoga Passage was requested by the Commanding Officer Naval Air Station, Whidby Island, Washington. This work was authorized by Supervisor's Order dated April 11, 1945 and the Director's telegram dated April 13, 1945.

The exact limits of the area to be examined were indicated by Lieut. Taylor USN Oak Harbor on May 1st. This is the area which was covered by this hydrographic survey.

DATES OF SURVEY

The vessel arrived at Saratoga Passage May 1st, but signal building could not start until late May 2nd due to a scheduled bombing operation. In the meantime a tide gage was installed and leveled-in, at Coupeville, Washington. Hydrography was accomplished on May 3rd and early May 4th, after which bombing practice started again.

BAR CHECKS

No bar check was obtained at the beginning of the first day. The initial was set for the draft of the vessel, 8 feet at the oscillator. This fathogram record, a partially used roll when hydrography was started, ran out after about 2 hours so that no bar check was obtained on Fathogram Record No.1 (A-day).

A new roll was installed and a bar check was obtained before continuing hydrography on Record No.2.

A comparison of the initial settings on Record No.1 (A-day), which was set to read 8 feet, and on Record No.2 (for A-day), which was set so that initial read correctly for bar set at depth of 4 fathoms, indicates a correction of minus 3 feet or 0.5 fathoms due to error in initial setting on Record No.1. This correction was entered in the record book and used for reducing the soundings recorded for the morning of A-day, covered by Fathogram Record No.1.

VELOCITY CORRECTIONS

Velocity corrections, which were computed from the temperature and salinity observations, are entered in record in accordance with following table:-

Depths	Corrections
17- 23.9	0.3 fathoms
24- 29.9	0.4 "
30- 36.9	0.5 "
37- 42.9	0.6 "
43- 47.9	0.7 "
48-	0.8 "

ADDITIONAL WORK REQUIRED

No additional work is required for the purpose for which the examination was made. ✓

Additional cross lines and bottom samples should be obtained in this area for regular revision surveys. ✓

For the area covered, this survey is considered adequate for the present chart. ✓

COPIES OF SURVEYS

The Commanding Officer, Naval Air Station, Whidby Island requests that two copies of the processed survey be furnished to him when completed by the processing office. ✓



H.E. Finnegan  
Chief of Party C&GS

JO 2001

Saratoga Passage

Washington

Control-

1944 Triangulation, adjusted. ✓

Two hydro stations are located by angle and distance from triangulation stations, data recorded in sounding book. ✓

Shoreline-

That from old sheets is shown in dashed pencil lines. The recently surveyed shoreline from T-6684a is inked. ✓

(1939)

JO 2001

Statistics

<u>Date</u>	<u>Day Letter</u>	<u>Volume #</u>	<u>Vessel</u>	<u>Positions</u>	<u>Stat. Miles Sdg. Line</u>
May 3, 1945	A	1	E. L. JONES	146	51.0
May 4, 1945	B	1	"	<u>23</u>	<u>7.8</u>
		<b>Total:</b>		169	58.8

Area - Square Statute Miles ----- /2.5

JO 2001

Saratoga Passage, Washington

Tidal Note

Coupeville, Washington

Portable Automatic Tide Gage

Latitude                    48° 13.4

Longitude                    122 41.4

Staff reading of MLLW ----- 2.05 ft

Respectfully submitted,

*Edgar E. Smith*

Edgar E. Smith  
Cartographic Engineer  
Seattle Processing Office

Approved and Forwarded:

*F. H. Hardy*

F. H. Hardy  
Officer in Charge,  
Seattle Processing Office



Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. **H7045**

Records accompanying survey:

Boat sheets .1..; sounding vols. ..1..; wire drag vols. ....;  
bomb vols. ....; graphic recorder rolls-2.....;  
special reports, etc. ....  
.....

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

Number of positions on sheet	.149.	
Number of positions checked	.23.	
Number of positions revised	..1..	
Number of soundings recorded	.680.	
Number of soundings revised (refers to depth only)	..3..	
Number of soundings erroneously spaced	..1..	
Number of signals erroneously plotted or transferred	..0..	
Topographic details	Time ..4..	
Junctions	Time ..17.04.45	
Verification of soundings from graphic record	Time ..2..	
Verification by <u>John M. MacInnes</u>	Total time .16 hrs.	Date 9-26-45
Review by <u>J.A. McCormick</u>	Time .3 hrs.	Date 10/4/45

GEOGRAPHIC NAMES

Survey No. **H7045**

Name on Survey	A On Chart No.	B On previous survey	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
Saratoga Passage					481 225				1
Whidbey Island					482 226				2
Snatelum Point								U.S.G.B.	3
Demock Point					482 225				4
Camano Island					481 224			U.S.G.B.	5
Crescent Harbor					482 225				6
									7
									8
									9
									10
									11
Couperville					(location of tide staff) 482 226				12
									13
									14
									15
									16
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									27

SAVED UNDER THE PROVISIONS OF THE NATIONAL ARCHIVES ACT BY L. HECK ON 9/28/45

TIDE NOTE FOR HYDROGRAPHIC SHEET

September 19, 1945.

~~Division of Hydrography and Topography~~

Division of Charts: Attention: H. W. MURRAY

Plane of reference approved in  
1 volumes of sounding records for

HYDROGRAPHIC SHEET 7045

Locality Saratoga Passage, Puget Sound, Washington.

Chief of Party: H. E. Finnegan in 1945  
Plane of reference is mean lower low water, reading  
2.0 ft. on tide staff at Coupeville  
15.3 ft. below B. M. 1

Height of mean high water above plane of reference is 10.6 feet.

Condition of records satisfactory except as noted below:

*E. K. Allen*

Chief, Division of Tides and Currents.

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 7045

FIELD NO. JO-2001

Washington; Saratoga Passage; Snatelum Point and Demock Point  
Surveyed in May 1945

Scale 1:20,000

Soundings:

Control:


808A Fathometer

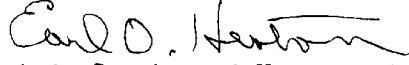
Three-point fixes on shore signals

Chief of Party - H. E. Finnegan  
Surveyed by - C. LeFever; H. C. Applequist  
Protracted by - M. T. Gwinn  
Soundings plotted by - M. T. Gwinn  
Verified and inked by - J. M. McAlinden  
Reviewed by - J. A. McCormick, Oct. 4, 1945  
Inspected by - H. W. Murray


This is a special survey, made at the request of the U. S. Navy. It has been compared with previous surveys H-1884 and H-1885 of 1888 and with Charts 6404 (Print of 6/1/44) and 6450 (Print of 9/18/45) and found to be in substantial agreement with all four. The survey is satisfactory in every respect for the purpose intended.

Examined and approved:

  
Chart Division  
Robert W. Knox  
Chief, Nautical Chart Branch

  
Chief, Section of Hydrography

  
Chief, Chart Division

  
Chief, Division of Coastal Surveys

# NAUTICAL CHARTS BRANCH

SURVEY NO.   H7045  

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
11/26/45	6450	L. A. McLann	<del>Before</del> After Verification and Review (No correction)
Apr. 1947	6404	Emminizer	<del>Before</del> After Verification and Review
			Before After Verification and Review
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			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.