65.271

# 7929

Diag. Cht. No. 6450-2

Form 50

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

# DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. SU-1444 Office No. 44-7929

LOCALITY

State WASHINGTON

General locality PUGET SOUND

Locality ADITRALTY INLET

194 4

CHIEF OF PARTY

C.D. MEANEY

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# DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

# 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. SU-1444

# REGISTER NO. H-7929

State Washington
General locality Puget Sound
Locality Admiralty Inlet
Scale 1:10,000 Date of survey December , 1944
Vessel SURVEYOR
Chief of PartyC.D. MEANEY
Surveyed by C.D. Meaney, L.S. Hubbard, R.C. Rowse
Protracted by Marion G. McLean
Soundings penciled by <u>Marion G. McLean</u>
Soundings in fathoms fresch
Plane of reference MLLW
Subdivision of wire dragged areas by
Inked byR. E. Elkins
Verified by R.E. Elkins
Instructions dated September 30, 1941 , 19
Remarks: Project CS-271 This survey is incomplete;
surveys were discontinued in this area.

U. S. GOVERNMENT PRINTING OFFICE

NOTES FOR DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SURVEY Field No. SU-1444. H-7929

Admiralty Inlet, Washington

1944

Scale 1:10,000

Ship SURVEYOR

C.D. MEANEY. Commanding

### A. Project

The authority for this survey is contained in the Director's Instructions; Project 271, dated September 30, 1941, and letter from Supervisor, N. W. District, dated November 11, 1944.

### B. Survey Limits and Dates

This survey consists of several lines of hydrography in Admiralty Inlet between the latitude of Marrowstone Point on the north and Bush Point on the south. It is a revision survey of an area shown on Chart 6450. Additional sounding and topography should be executed on this sheet. before the chart is revised. This survey makes a junction on the north with sheet H-6816,1942-1943, scale 1:10,000. Hydrography was started on December 14, 1944 and was suspended on December 15, 1944. The SURVEYOR was instructed to carry on surveys in Hood Canal when the winter season was resumed.

### C. Vessel and Equipment

The SURVEYOR was the only vessel used in this survey, no work being accomplished in the shoaler areas.

The turning radius of the SURVEYOR, with a hard over helm is about 200 meters.

The Dorsey III fathometer, serial No. 40, was used for sounding, with check recordings being obtained by means of the U.S. Navy N.M.C. fathometer, No. 52. For brief intervals when the Dorsey fathometer was not functioning soundings are scanned from the N.M.C. fathograms.

Both fathometers were used in depths from 40 to 105 fathoms.

The Dorsey fathometer is standardized for a velocity of sound of 820 fms. persecond. The N.M.C. fathometer is standardized for a velocity of sound of 800 fms. per. second.

Serial temperatures and salinities were taken on December 15, 1944.

### D. Tide Stations

A portable automatic tide gage was installed on a dock south of Marrowstone Point, in Latitude 48° 05.5' N. Longitude 122° 41.4' W. Maragrams from this satation should be used for tide reducers for all the area sounded.

### E. Smooth Sheet

(to be written by Processing Office)

### F. Control Stations

Triangulation stations RAWLINS, PARAPET, NADULE and LAGOON 1921, established in 1921 by E.W. Bickelburg, Chief of Party, were recovered. Stations PARAPET 2, COOK, CRAVE, MARROW and LAGOON 1942, established in 1941 and 1942 by L.D. Graham, Chief of Party, were recovered. Additional triangulation control was established from these recovered triangulation stations.

The positions of all signals used in hydrography were determined by triangulation.

# G. Shoreline and Topography

No topography was executed during this the field season of this survey.

### H. Soundings

All soundings were obtained by fathometer, the readings of the Dorsey III fathometer being checked by fathograms from the U.S. Navy N.M.C. fathometer recorder.

The usual corrections for initial settings, salinity and density and tide were applied.

# I. Control of Hydrography

Visual three point fixes were used to control all hydrographic lines.

# J. Adequacy of Survey

There were only several lines of hydrography run on this survey. Inshore hydrography was not started. Additional hydrography and topography should be executed.

Instructions call for continuing hydrographic surveys south of the area surveyed in 1944.

A junction was made on the north end with surveys, executed in 1942 by the SURVEYOR, C.M. DURGIN, Chief of Party. The soundings of the two surveys check satisfactorily. Depth curves can be drawn at the junctions.

### K. Crosslines

About three per cent of cross lines were run. There were no discrepancies in crossings noted on the boat sheet.

# L. and M. Comparison with Prior Surveys & Chart

Previous sounding available are shown on Chart 6450.

Plans have been made to resurvey Admiralty Inlet and revise the chart at some time in the future. Additional hydrography should be executed before the present chart is revised.

### N. Dangers and Shoals

No dangers or shoals exist in the area actually sounded.

### O. Coast Pilot Information

Tidal currents of moderate strength were encountered. The currents in general follow the direction of the channel. Eddies exist at strength of current in an area about  $\frac{1}{4}$  mile in diameter, located in Latitude  $48^{\circ}$  03.0° and Longitude  $122^{\circ}$  38.2°.

All the area between Marrowstone Point Light and Bush Point Light is at present restricted from anchoring by the military authorities.

revised to area north of Lagoon Pt. [Lat. 48°04.5'), N.M. 5(1945).

# P. Aids to Navigation'

Marrowstone Point Light and Bush Point Light are the only charted aids to navigation in the area surveyed. Their positions are listed on form 567.

A new position for Bush Point Light was obtained by triangulation.

1-267 (1945)

# Q. Landmarks for Charts

Landmarks which should be charted are listed on form 567. The landmarks are as follows: Chimney on Housey, Marrowstone Peint; White wooden tower near station PARAPET 1942; White wooden tower on high ground; white wooden tower on low ground; Bush Peint Light.

# R. Geographic Names

No changes or additions to charted names can be recommended.

# S. Silted Areas

No silted areas were detected on the fathograms.

# U. Velocity Corrections

The velocity corrections were determined in accordance with standard procedure. A copy of the abstract of the corrections is included in this report.

C.D. MEANEY, Lieut. Comdr., C. & G. Survey

Commanding Ship SURVEYOR

Su 1444

Admiralty Inlet

Washington

Tide Note.

Merch 29, 1945

### MEMO:

The Marigrams from the Marrowstone Point - tide gage were still in the field at the time of turning records over to the Processing Office. They will be picked up on the way north and mailed to the Processing Office.

C.D. MEANEY Commanding Officer U.S.C. & G.S.S. SURVEYOR

# ABSTRACT OF VELOCITY CORRECTIONS

Hydrographic Survey: Field No. SU-1444

Period:

December 14 & 15, 1944

Dorsey III fathometer, 820 fms. per second.

	1	Deļ	th		Correction
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41	_	4	to	53-3	- 4.0
53	-	4	to	65-3	<b>-</b> 5.0
65	_	4	to	78-0	<b>-</b> 6.0
78	_	1	to	90-0	- 7.0
90	-	1	to	102-0	- 8.0
108	-	1	to	114-0	- 9.0
114	-	1	to	126-3	- 10.0

# LIST OF STATIONS ON FIELD NO. SU-1444

Hame used in hydrogrpahic survey.	Origin of Station
Bush	Bush Peint Light, 1944
Soaf	Scaffeld, lower, 1944
Stone	Chimney on white house at Marrowstone Point, 1944.
Codk	Cook, 1941, 1944 (no check)
Par	Par, 1944
Lagoon	Lagoon, 1921
Yel	Yel, 1944

# Su 1444 Admiralty Inlet Washington

Processing Office Notes.

This sheet was started as part of Proj. 271, resurvey of Admiralty Inlet. The SURVEYPRN had filled less than half a sounding record when work was suspended. It was expected that work would be resumed and the sheet has been held from year to year, the amount accomplished being so little. As there seems no present prospect that the work will be continued the sheet is forwarded to washington. If work should be undertaken again the smooth sheet and boat sheet could be returned to Seattle.

Edgar E Smith

11/16/52

# Su 1444

# Admiralty Inlet

Washington

List of geographic names penciled on smooth sheet.

Admiralty Inlet
Marrowstone Island
Whidbey Island

Ed. May, 1929 Ed. May, 1929 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY  TIDES: HOURLY HEIGHTS															
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Date Summed by

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Tabulated by

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Tabulated by \_\_\_\_\_ Date \_\_\_\_ Date \_\_\_\_ Date

# Statistics for Survey, Field No. SU - 1444.

Day	Date 1944	Vol.	No. Positions	No. St. Miles
A	Dec. 14	1	76	37•7
В	Dec. 15	· 1	38	16.1

# Total Statistics for Survey:

114 Positions

53.8 Statue Miles

5.0 Sq. St. Miles

# Hydrographic Surveys (Chart Division)

# HYDROGRAPHIC SURVEY NO. H-7929...

Records accompanying survey:		
Boat sheets .l; sounding volsl; w	ire dra	g vols;
bomb vols; graphic recorder rolls	;	
special reports, etc. J. Descriptive Report; .L.	Smooth S	beet; l Cahier
Velocity Corrections;	•••••	• • • • • • • • • • • • •
The following statistics will be submitted wi rapher's report on the sheet:	th the	cartog-
Number of positions on sheet		114
Number of positions checked		3
Number of positions revised		
Number of soundings revised (refers to depth only)		•••••
Number of soundings erroneously spaced		•••••
Number of signels erroneously plotted or transferred		
Topographic details	Time	
Junctions	Time	1 hr.
Verification of soundings from graphic record	Time	
Verification by	12 hr.	Date 12-15-52
Reviewed by R.E.Elkins Time	22 hr.	Date /2-/7-52

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### DIVISION OF CHARTS

# REVIEW SECTION - NAUTICAL CHART BRANCH

# REVIEW OF HYDROGRAPHIC SURVEY

# REGISTRY NO. H-7929

FIELD NO. SU-1444

Washington, Puget Sound, Admiralty Inlet

Project No. 271

Surveyed - December 1944

Scale 1:10,000

Soundings:

Control:

Dorsey III Fathometer NMC Fathometer

Sextant fixes on shore signals

Chief of Party - C. D. Meany Surveyed by - C. D. Meany, L. S. Hubbard, R. C. Rowse Protracted by - M. G. McLean Soundings plotted by - M. G. McLean Verified and inked by - R. E. Elkins Reviewed by - R. E. Elkins, 17 December 1952 Inpsected by - R. H. Carstens

# 1. Shoreline and Signals

No contemporary shoreline surveys of this area have been made.

The origin of the control is given in the Descriptive Report.

### 2. Sounding Line Crossings

Depths at crossings are in good agreement.

# 3. Depth Curves and Bottom Configuration

The configuration of the bottom is incompletely revealed by the sparse lines on this reconnaissance survey. Additional soundings are required for adequate delineation of the depth curves.

With minor irregularities the bottom slopes from depths of about 55 fms. to a depression of 106 fms.

### 4. Junctions with Contemporary Surveys

Present depths are in adequate agreement with depths on H-6816 (1942-43) on the north and with charted depths on the east, west, and south.

# 5. Comparison with Prior Surveys

a. H-333 (1852) 1:200,000 H-510 (1855) 1:100,000

These early reconnaissance surveys contain no critical soundings within the area of the present survey. Differences of as much as 40 fms. between prior and present soundings are ascribed to faulty positioning of the early reconnaissance soundings.

# b. H-1729 (1885-86) 1:20,000

A comparison between depths on the present survey and on the prior survey reveals only minor differences of 1 to 2 fathoms in 40-to 100-fm. depths. The present survey supplements the sparse hydrographic information in this area contained on the prior survey.

# 6. Comparison with Charts

6405, latest print date 8/14/50 6450, latest print date 8/11/52

# A. Hydrography

The charted hydrography originates with the prior survey H-1729 (1885-86). The present reconnaissance survey should be used to supplement the charted depths in this area.

# B. Aids to Navigation

No aids to navigation are charted within the area of this survey.

# 7. Condition of Survey

- a. The sounding records and Descriptive Report are complete and comprehensive.
- b. The smooth plotting was well done.
- c. The sparse development on the present survey furnished information only of a reconnaissance nature.

# 8. Compliance with Project Instructions

This survey complies with the Project Instructions except for very wide spacing of sounding lines. Termination of surveying operations in this area in 1944 left the survey incompleted.

# 9. Additional Field Work Recommended

No additional field work is recommended on this reconnaissance survey. New basic surveys which will cover the area of the present survey are to be made extending southward from survey H-6816.

H. R. Edmonston

Chief, Nautical Chart Branch

Examined and approved:

H. Arnold Karo

Chief, Division of Charts

J R Fish

Chief, Section of Hydrography

Earl O. Heaton

Chief, Division of Coastal Surveys

The field work on this survey was conducted under the personal supervision of Commander Glendon E. Boothe who has inspected the work and boat sheet.

The survey is believed complete and adequate for charting and complies with the instructions.

Riley J. Sipe Comdr., USC&GS Comdg. USC&GSS SURVEYOR

FORM 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. Jude 1987

# TIDE NOTE FOR HYDROGRAPHIC SHEET

### DANTSTONDER THREE BURNES TO THE TRANSPORTER FOR

11 August 1952

Division of Charts: R. H. Carstens

Plane of reference approved in volumes of sounding records for

HYDROGRAPHIC SHEET

7929

Admiralty Inlet, Washington Locality

C. D. Meaney in 1944 Chief of Party: Plane of reference is mean lower low water, reading 2.6 ft. on tide staff at Fort Flagler, Marrowstone I. 9.8 ft. below B. M. 1 (1944)

Height of mean high water above plane of reference is 8.1 feet.

Condition of records satisfactory except as noted below:

E.C. McKay Section of Tides Chief, Division of Tides and Currents.

U. B. GOVERNMENT PRINTING OFFICE

# NAUTICAL CHARTS BRANCH

SURVEY NO. H-7929

# Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
8/24/52	6401	N.W Burgayne	Before After Verification and Review - critical corv.
1/14/53	6405	6B Samuel	Before After Verification and Review
4 may 53	6450	NEMae Ewin	After Verification and Review
1-8-54	6401	XX Bonson	Before After Verification and Review Fully applied
			Before After Verification and Review
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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.