

# 9056

9056

Diag. Cht. No. 8252-2.

FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE  
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey **Hydrographic**

Field No. **FA-10-5-69** Office No. **H-9056**

### LOCALITY

State **Alaska**

General locality **Hoonah Sound**

Locality **Vicinity of Moser Island**

19.69

CHIEF OF PARTY

**J. B. Watkins, Jr.**

LIBRARY & ARCHIVES

DATE **12-17-70**

HYDROGRAPHIC TITLE SHEET

H-9056

INSTRUCTIONS - 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.

FA-10-5-69

State Alaska

General locality Hoonah Sound  
~~Southeast Alaska~~

Locality Vicinity of Moser Island  
~~Hoonah Sound~~

Scale 1:10,000 Date of survey 4 - 23 September 1969

Instructions dated 18 February 1969 Project No. OPR - 488

Vessel USC&GSS FAIRWEATHER, FA-3, FA-4 & FA-5

Chief of party John B. Watkins Jr.

Surveyed by FAIRWEATHER Officers

Soundings taken by echo sounder, ~~XXXXXXXX~~ DE 723 No. 559, 561 & Ross No. 400A

Graphic record scaled by FAIRWEATHER personnel

Graphic record checked by FAIRWEATHER personnel

Protracted by \_\_\_\_\_ Automated plot by PMC Digital Plotter

Soundings penciled by \_\_\_\_\_

soundings in fathoms ~~XXX~~ at ~~XXXX~~ MLLW \_\_\_\_\_

REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*DRK*

Descriptive Report  
to Accompany  
Hydrographic Survey H-9056  
(Field No. FA-10-5-69)

USC&GS SHIP FAIRWEATHER 1969, Scale 1:10,000

John B. Watkins, Jr., CAPT., USESSA  
Chief of Party

A. PROJECT

Hydrographic Survey H-9056 is part of OPR-488, Hoonah Sound, Alaska. The work was accomplished under Project Instructions, dated 18 February 1969 and in accord with the General Project Instructions dated 4 February 1969.

B. AREA SURVEYED

This boatsheet encompasses the area in Hoonah Sound, Southeast Alaska, from 57°-36' N to 57°-43' N and 135°-34' W to 135°-41' W. The area surveyed is adjacent to Moser Island and includes part of both the North and South Arms of Hoonah Sound.

This survey was accomplished during 4 September thru 23 September 1969.

This was one of five 1:10,000 scale boatsheets completed on this project, and junctions with adjoining sheets H-9055 (FA-10-4-69), H-9057 (FA-10-6-69), and H-9058 (FA-10-7-69).  
(1969) (1969) (1969)

C. SOUNDING VESSELS

The Ship FAIRWEATHER and three launches were used to accomplish the hydrography. The position numbers and color code applicable to each vessel are as follows:

FAIRWEATHER	violet	0001-0006 (bottom samples only)
FA-3	green	2001-3067
FA-4	blue	4001-4455
FA-5	red	6001-6395

D. SOUNDING EQUIPMENT

The vessels, fathometers, and depth range in which each was used are as follows:

Vessel	Type	Model	Serial No.	Depth (fms)
FA-3	Echo	Raytheon DE-723	559	0 - 125
FA-4	Echo	Ross Model 400A	Prototype	0 - 100
FA-5	Echo	Raytheon DE-723	561	0 - 100

The echo sounder corrections include the results of bar checks, the fathometer initial corrections, and velocity corrections determined by Nansen casts. An abstract of the cumulative corrections to the soundings is included with this report.

E. SMOOTH SHEET

*Recorded bar checks are entered for digital readout. Analog values not listed.*

The position and sounding data were recorded, logged for automated processing, and plotted on boatsheets by ship's personnel. The signal list was prepared and a signal overlay plotted by the Gerber Digital Plotter was verified by ship's personnel. The final smooth sheet is to be plotted ~~electronically~~ *electronically* and verified by personnel at Pacific Marine Center.

F. CONTROL

Visual control was used throughout the survey. A list of the signals and their locations is included with this report.

Signals were of four types; triangulation, hydrographic, photo-hydro, and third order triangulation (not marked, not described). The photo identified signals were located using photographs of PH6306 and plotted on incomplete map manuscripts T-13180, T-13181, T-13183, T-13184, T-13185, T-13187, and T-13188. The third order triangulation stations (n. m. n. d.) were part of a network established in the North Arm specifically to locate additional signals.

G. SHORELINES

Shoreline was transferred to the boatsheet from the cronaflex positives of the map manuscripts listed in section F. Details of the shoreline were verified in the field using the field ratio prints and the field edit ozalid copies of the Incomplete Manuscripts.

Several discrepancies were found in the description of materials on the beaches and delineation of several ledges. Several rocks along the shoreline were searched for but not found or found to be part of the beach line. Corrections were applied to the cronapaque ratio photographs and the field edit ozalid copies of the Incomplete Manuscripts.

Delineation of the low water line by soundings was prevented in many places by the extremely steep shoreline.

H. CROSSLINES

Crosslines consisting of about 11% of the total survey mileage were run. Crossings were satisfactory throughout.

I. JUNCTIONS

Good agreement was found between this sheet and the <sup>(1969)</sup> adjoining sheets of this same project, H-9055 (FA-10-4-69), H-9057 (FA-10-6-69), and H-9058 <sup>(1969)</sup> (FA-10-7-69).

There are no other contemporary surveys which border the area covered by this boatsheet.

J. COMPARISON WITH PRIOR SURVEYS

The results of the survey were compared with two prior surveys, Register No. 2238, 1895, scale 1:40,000, and Register No. 2239, 1895, 1:40,000. Comparison of soundings was adequate throughout. Minor differences were noted in the shoreline delineation, but these are probably due to the methods used to establish the shoreline in the prior survey, and are of small magnitude.

There was no presurvey review.

K. COMPARISON WITH THE CHARTS

Adequate agreement was found between this survey and chart 8252, scale 1:217,828.

L. ADEQUACY OF THE SURVEY

The survey is considered complete and adequate to supersede the prior survey for charting.

M. AIDS TO NAVIGATION

There are no aids to navigation in the area of the survey.

N. STATISTICS

	FAIRWEATHER	FA-3	FA-4	FA-5
Positions	6	1067	455	395
Sounding lines (n.m.)	0	189.6	46.8	60.9
Oceanographic stations	2	0	0	0
Bottom samples	6	11	1	0

Area surveyed = 12 Sq. n.m.

0. REFERENCES TO REPORTS

1. Season's Report, Ship FAIRWEATHER, 1969, to be forwarded.
2. Fathometer Report, Ship FAIRWEATHER, 1969, to be forwarded.
3. Field Edit Report, Hoonah Sound (OPR-488), 1969, Ship FAIRWEATHER, to be forwarded.
4. Special Report, Ross 400 Fathometer, 1969, December 4, 1969.

Respectfully submitted

*Martin R. Mulhern*

Martin R. Mulhern  
ENS., USESSA

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LIST OF STATIONS ON H-9056 (FA-10-5-69)

Name used in Hydrographic Survey	latitude ° ' "	longitude ° ' "	origin of station
230	57 38 1355	135 38 0183	230 T-13184
228	57 38 0997	135 37 0431	228 "
226	57 38 0619	135 37 0095	226 "
222	57 40 0948	135 37 0622	222 "
221	57 39 1721	135 35 0614	221 "
219	57 39 0036	135 35 0382	219 "
010	57 41 0457	135 35 0524	010 "
008	57 39 1695	135 32 0874	008 T-13185
011	57 42 0244	135 37 0549	011 T-13181
013	57 42 1513	135 39 0915	013 "
009	57 40 1278	135 34 0701	009 T-13185
406 <sup>20</sup>	57 36 0033	135 34 0842	406 T-13188
220	57 36 1356	135 34 0711	220 "
218	57 36 0985	135 34 0025	218 "
217	57 37 0319	135 34 0177	217 "
215	57 36 1387	135 33 0280	215 "
214	57 36 0626	135 34 0219	214 "
425 <sup>32</sup>	57 36 1194	135 36 0414	425 T-13187
236	57 39 1814	135 40 0005	236 T-13184
234	57 39 1097	135 39 0570	234 "
232	57 39 0240	135 38 0848	232 "
224	57 42 0908	135 41 0322	224 T-13180
015	57 43 0896	135 41 0609	015 "
014	57 43 0375	135 41 0082	014 △ C, 3rd. order, n.d.n.m.*
012	57 42 0828	135 39 0004	012 △ A, 3rd. order, n.d.n.m.*
223	57 42 0728	135 41 0022	223 △ B, 3rd. order, n.d.n.m.*
455 <sup>34</sup>	57 37 0703	135 41 0530	455 T-13183
433 <sup>35</sup>	57 38 1276	135 40 0870	433 " (hydrographic)
427 <sup>34</sup>	57 38 0558	135 40 0659	427 "
426 <sup>33</sup>	57 37 1244	135 40 0945	426 "
201	57 41 0699	135 38 0530	201 △ YOYO 1966, III, p.1042
202	57 37 1692	135 39 0140	202 △ FICK 1966, III, p.1042
423 <sup>30</sup>	57 37 1356	135 40 0309	423 T-13183
424 <sup>31</sup>	57 37 0969	135 40 0229	424 " (hydrographic)
238	57 40 1449	135 41 0430	238 "
212	57 35 1691	135 33 0554	212 T-13188
213	57 36 1583	135 32 0722	213 "

\*see Horizontal Angle Volumes 1&2.

TIDE NOTE FOR OPR-488, HOONAH SOUND, ALASKA

Tide corrections for OPR-488 were determined from data obtained from the bubbler tide gage at Nismeni Point (57°33.7'N, 135°24.7'W). Hourly heights were scaled by the ship's personnel.

*off  
JULY  
Sheet*





Environmental Science Services Administration  
COAST AND GEODETIC SURVEY  
Rockville, Md. 20852

Date: December 11, 1969

Reply to  
Attn of: C331W-218-CSS

Subject: Tidal Data, OPR-488, Hoonah Sound, Alaska

To: Commanding Officer  
USC&GSS FAIRWEATHER

In response to your memorandum of September 26, 1969, there are enclosed verified tide reducers and Form 712 for Nismeni Point, Alaska.

Listed below are the mean lower low water plane on the mari-gram and the respective time and height relationships between the two locations:

<u>Location</u>	<u>MLLW Plane (Ft.)</u>	<u>Time of Tide</u>	<u>Diurnal Range (Ft.)</u>
Nismeni Point	5.5	0	15.0
Patterson Bay	9.2	-010 Min.	15.2

For all practical purposes either gage can be used for obtaining tide reducers. However, it might be better to use Nismeni Point since this record is of longer duration.

*L. C. Wharton*  
L. C. Wharton  
Tides and Currents Branch  
Oceanography Division

2 Enclosures

cc:  
PMC

USC&GSS FAIRWEATHER

MSS - 20

John B. Watkins, Jr., Comdg.

VELOCITY CORRECTIONS  
Hoonah Sound - 1969

Corrections to be applied to sheet numbers FA-10-3-69, FA-10-4-69,  
FA-10-5-69, FA-10-6-69, and FA-10-7-69.

Applicable Depths (fms)	Corrections (fms)
0 - 15	+0.1
15 - 55	+0.2
55 - 110	+0.3
110 - 140	+0.4

INITIAL CHECK CORRECTIONS  
Hoonah Sound - 1969

Sheet Number	Position Number	Corrections (fms)
FA-10-5-69	2001-2036	-0.2
	2037-2110	-0.1
	2306-2310	-0.1
	2774-2778	+0.1
	2781-2829	-0.1
	2840-2845	+0.1
	2903-2940	-0.1
	2965-2983	-0.1
	3006-3010	-0.1
	3025-3037	-0.1
	3057-3067	-0.1
	6012-6022	-0.2
	6023-6036	-0.1
	6061-6106	-0.1
	6107-6152	-0.1
	6233-6235	-0.1
	6244-6247	-0.1
	6249-6267	+0.1
	6289-6301	+0.1
	6308-6316	-0.1

USC&GSS FAIRWEATHER

MSS - 20

John B. Watkins, Jr., Comdg.

*Instrumental*

ECHO CORRECTIONS  
Hoonah Sound - 1969

Launch FA-3 Sheet number	Date	Corrections (fms)	
FA-10-3-69	8-21	+0.2	
	8-22	+0.2	
	8-24	+0.2	USE
	8-27	+0.3	+0.2
	9-23	+0.3	
FA-10-4-69	8-27	+0.4	
	8-28	+0.3	USE
	9-23	+0.3	+0.3
FA-10-5-69	9-05	+0.2	
	9-06	+0.4	
	9-07	+0.2	USE
	9-08	+0.3	as shown
	9-09	+0.2	
	9-10	+0.4	
	9-11	+0.3	
	9-16	+0.2	
	9-17	+0.2	
	9-19	+0.1	
9-20	+0.1		
FA-10-6-69	9-05	+0.1	
	9-06	+0.4	
	9-07	+0.2	
	9-08	+0.2	USE
	9-09	+0.2	as shown
	9-10	+0.4	
	9-16	+0.2	
	9-18	+0.2	
	9-19	+0.1	
	9-22	+0.2	

USC&GSS FAIRWEATHER

MSS - 20

John B. Watkins, Jr., Comdg.

*Instrumental* ~~ECHO~~ CORRECTIONS  
Hoonah Sound - 1969

Launch FA-4 Sheet Number	Date	Corrections (fms)
FA-10-3-69	8-23	+0.4
	8-25	+0.4
	8-26	+0.4
FA-10-4-69	8-26	+0.4
	9-03	+0.4
	9-05	+0.4
	9-06	+0.4
FA-10-5-69	9-06	+0.4
	9-07	+0.3
	9-16	+0.4
	9-22	+0.4
	9-23	+0.4
FA-10-7-69	9-07	+0.3
	9-10	+0.4
	9-11	+0.4
	9-16	+0.4
	9-17	+0.4
	9-18	+0.4
	9-19	+0.4
	9-20	+0.4
	9-21	+0.4

USE  
+0.4

USC&GSS FAIRWEATHER

MSS - 20

John B. Watkins, Jr., Comdg.

*Instrumental*

ECHO CORRECTIONS  
Hoonah Sound - 1969

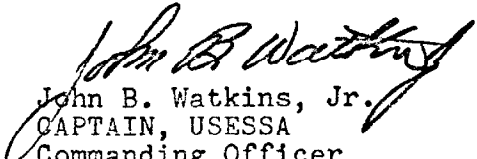
Launch FA-5 Sheet Number	Date	Corrections (fms)	
FA-10-4-69	8-21	+0.3	} USE +0.3
	8-22	+0.4	
	8-24	+0.3	
	8-25	+0.4	
	8-26	+0.3	
	8-27	+0.4	
	8-28	+0.3	
	9-07	+0.4	
	9-08	+0.3	
	9-10	+0.3	
	9-22	+0.2	
FA-10-5-69	9-07	+0.4	}
	9-08	+0.3	
	9-10	+0.3	
	9-11	+0.2	
	9-21	+0.3	
	9-23	+0.4	
FA-10-7-69	9-19	+0.3	}
	9-23	+0.4	

TRANSMITTAL SHEET

H-9056

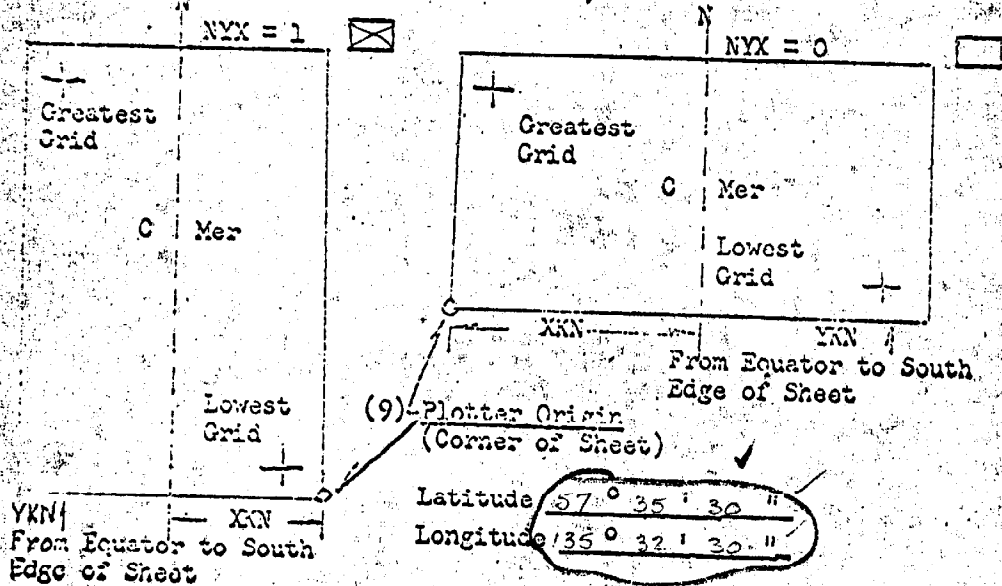
FA-10-5-69

The field work and examination of records was accomplished under the supervision of this command. The boatsheet was inspected daily for completeness and accuracy. The survey is considered complete and adequate and no additional field work is considered necessary.

  
John B. Watkins, Jr.  
CAPTAIN, USESSA  
Commanding Officer  
USC&GSS FAIRWEATHER

20039

- (1) Project No. OPR-488
- (2) H No. 9056
- (3) Field No. FA-10-<sup>5-69</sup>~~8-68~~
- (4) Requested by \_\_\_\_\_
- (5) Ship or Office FAIRWEATHER
- (6) Date Required IMMEDIATE
- (7) Visual  Ft.(0) or Fathoms (1)  (8) Electronic  (fill out form #3)
- (10) XKN (SP 5) Distance from CNER to East Edge (NYX = 1) or West Edge (NYX = 0). 4485.51 Meters
- (11) YKN (SP 241) Distance from Equator to South Edge of Sheet. 6385.493.46 Meters
- (12) Central Meridian 135° 37' 00"
- (13) Survey Scale 1:10,000
- (14) Size of Sheet (Check one) 36x50  42x60
- (15) NYX, Orientation of sheet (Check one) NYX = 1  NYX = 0



- (9) Plotter Origin (Corner of Sheet)
- Latitude 57° 35' 30"  
Longitude 135° 32' 30"
- Grid Limits
- (16) Greatest Latitude 57° 43' 30" (Projection Line Interval Page 4 Hydro Manual)
  - (17) Lowest Latitude 57° 36' 00"
  - (18) Difference 7' 30"
  - (20) 15' 15" XSN
  - (21) Greatest Longitude 135° 41' 30"
  - (22) Lowest Longitude 135° 33' 00"
  - (23) Difference 8' 30"
  - (24) 1' 30"
  - (25) 16' XSN



GEOGRAPHIC NAMES  
Survey No. H-9056

Name on Survey	Source of Name										
	A	B	C	D	E	F	G	H	K		
Chichagof Island											1
Fick Cove											2
Hoonah Sound											3
Moser Island											4
North Arm Hoonah Sound											5
Pedersen Point											6
South Arm Hoonah Sound											7
Vixen Islands											8
White Cliff Point											9
Emmons Island											10
											11
											12
											13
											14
											15
											16
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											20
											21
											22
											23
											24
											25
											26
											27

PREPARED BY

*Frank W. Ricketts*  
CARTOGRAPHIC TECHNICIAN

APPROVED BY

*A. Joseph Wright*  
CHIEF GEOGRAPHER

TIDE NOTE FOR HYDROGRAPHIC SHEET

May 5, 1970

~~Nautical Chart Division~~ Pacific Marine Center

Plane of reference approved in  
~~XXXXXX for sounding records~~ for Tide tape printout

HYDROGRAPHIC SHEET 9054, 9055, 9056, 9057, 9058

Locality: Hoonah Sound, Alaska

Year  
~~XXXXXX~~ 1969

Plane of reference is mean lower low water

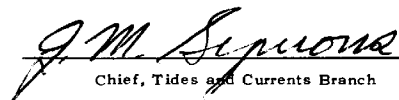
Tide Station Used (Form C&GS-681):

<sup>Point</sup>  
Nesmeni Cove  
Hoonah Sound, Alaska

Height of Mean High Water above Plane of Reference is as follows:

13.7 feet

Remarks

  
Chief, Tides and Currents Branch

FORM C&GS-946  
 (REV. 11-69)  
 (PRESC. BY)  
 HYDROGRAPHIC  
 MANUAL 20-2,  
 6-94, 7-13)

U.S. DEPARTMENT OF COMMERCE  
 ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION  
 COAST AND GEODETIC SURVEY  
 NAUTICAL CHART DIVISION

**HYDROGRAPHIC SURVEY STATISTICS**  
**HYDROGRAPHIC SURVEY NO. H-9056**

**RECORDS ACCOMPANYING SURVEY:** To be completed when survey is registered.

RECORD DESCRIPTION	AMOUNT	RECORD DESCRIPTION	AMOUNT			
SMOOTH SHEET	1	BOAT SHEETS <i>1-Mylar 1-Paper</i>	2			
DESCRIPTIVE REPORT	1	OVERLAYS <i>1-Mylar POC; 1-Tracing Reproduction 1-Prim. SO; 1-Excess A&amp;B</i>	4			
DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/SOURCE DOCUMENTS
ENVELOPES			<i>1 Pkg.</i>			
CAHIERS	<i>1</i>					
VOLUMES	<i>12</i>					
BOXES						

T-SHEET PRINTS (List) *T-13180; T-13181; T-13183; T-13184; T-13185; T-13187; T-13188*

SPECIAL REPORTS (List)

**OFFICE PROCESSING ACTIVITIES**

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

PROCESSING ACTIVITY	AMOUNTS			
	PRE-VERIFICATION	VERIFICATION	REVIEW	TOTALS
POSITIONS ON SHEET				<i>1922</i>
POSITIONS CHECKED		<i>1922</i>	<i>27</i>	
POSITIONS REVISED		<i>119</i>	<i>6</i>	
DEPTH SOUNDINGS REVISED		<i>19</i>	<i>22</i>	
DEPTH SOUNDINGS ERRONEOUSLY SPACED		<i>0</i>	<i>0</i>	
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED		<i>0</i>	<i>0</i>	
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS		<i>30</i>	<i>13</i>	<i>43</i>
JUNCTIONS		<i>24</i>	<i>8</i>	<i>32</i>
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		<i>100</i>	<i>47</i>	<i>147</i>
SPECIAL ADJUSTMENTS		<i>—</i>	<i>5</i>	<i>5</i>
ALL OTHER WORK		<i>171</i>	<i>1521</i>	<i>1692</i>
<b>TOTALS</b>		<i>325</i>	<i>88109</i>	<i>443</i>
PRE-VERIFICATION BY	BEGINNING DATE		ENDING DATE	
VERIFICATION BY <i>Vincent F. Flor</i>	BEGINNING DATE <i>Mar. 27, 1970</i>		ENDING DATE <i>Nov. 17, 1970</i>	
REVIEW BY <i>George K. Myers</i>	BEGINNING DATE <i>Oct 22, 1971</i>		ENDING DATE <i>Nov 5, 1971</i>	

Insp. by *Dale E. Westbrook* 18 hrs. 1/19/73 USCOMM-DC 36271-P68

OFFICE OF MARINE SURVEYS AND MAPS

MARINE CHART DIVISION

HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO. H-9056

FIELD NO. FA-10-5-69

Alaska, Hoonah Sound - Vicinity of Moser Island

SURVEYED: September 4-23, 1969

SCALE: 1:10,000

PROJECT NO.: OPR-488

SOUNDINGS: Raytheon DE-723 Depth  
Recorders, Ross 400A  
Digital Depth Recorder,  
Leadline

CONTROL: Sextant angles on  
shore signals

Chief of Party .....	J. B. Watkins, Jr.
Surveyed by .....	M. R. Mulhern
.....	B. L. Keck
.....	W. D. Neff
.....	J. J. Lenart
.....	A. F. Divis
.....	D. C. Suva
.....	J. E. Thomasson
Protracted by .....	Gerber Digital Plotter
Soundings plotted by .....	Gerber Digital Plotter
Verified and inked by .....	V. F. Flor
Reviewed by .....	G. K. Myers
.....	November 5, 1971
Inspected by .....	D. E. Westbrook

1. Description of the Area

This survey covers a portion of Hoonah Sound, Southeast Alaska in the vicinity of Moser Island and includes parts of both the North and South Arms of Hoonah Sound. Vixen Islands, a group of small islets, are located along the southern limit of the survey.

The bottom in this area is characterized by steep slopes which drop off to depths of up to 125 fathoms. The shore is bordered by sand, gravel, and boulder beach which is frequently broken by portions of rock ledge.

The survey is comparatively clear of offlying features critical to navigation except along the southwest side of North Arm and near Vixen Islands where small detached reefs comprise the major dangers.

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Predominant bottom characteristics in this area are sand, gravel, and green mud.

## 2. Shoreline and Control

The source of control is adequately described in Part F of the Descriptive Report.

The shoreline is from advanced photogrammetric manuscripts T-13180-81, T-13183-85, and T-13187-88 compiled from 1967 air photography and a 1969 field edit.

Several foreshore characteristics shown as "Rocky," "rky," and "RKY" on the above manuscripts were described by the more appropriate "Boulders" on the smooth sheet of the present survey.

## 3. Hydrography

A. Depths at crossings are in good agreement.

B. The usual depth curves are adequately delineated, except along steep and rugged slopes in close proximity to the shore. Several isolated features have been emphasized by brown depth curves.

C. The development of bottom configuration and investigation of least depths are considered adequate except that a pinnacle rock (0.9-fm.) located at lat.  $57^{\circ}37.03'$ , long.  $135^{\circ}35.55'$  was not investigated. Leadline soundings should have been obtained to determine the least depth over this feature.

## 4. Condition of the Survey

The sounding records, field verification, Descriptive Report, and various sounding printouts are adequate and conform to the requirements of the Hydrographic Manual supplemented by the Instruction Manual-Automated Hydrographic Surveys.

In addition to the DE-723 Depth Recorder, a prototype Ross 400A Depth Recorder and digital display system was used. Depths recorded by these instruments were found in good agreement. However, differences between the depth determined by the crystal stabilized digital depth unit and the analog trace of the fathogram in the Ross system were not considered by the verifier when depths were scanned from the Ross graphic record. The records also should have made it clear that the bar checks were compared to the digital readout to obtain the echo corrections.

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## 5. Junctions

Adequate junctions were <sup>effected</sup> with H- H-9055 (1969) on the east and southeast, H-9057 (1969) on the north, and H-9058 (1969) on the northwest.

## 6. Comparison with Prior Surveys

H-2238 (1895) 1:40,000

H-2239 (1895) 1:40,000

These surveys provide the only prior coverage of the present survey area. A comparison of prior and present depths indicates a stable bottom.

Differences in depths are generally less than 1 fathom, however, the more detailed development on the present survey revealed numerous features which went undetected on the prior surveys.

The present survey is adequate to supersede the prior surveys within the common areas.

## 7. Comparison with Chart 8252 (latest print date May 1, 1971)

### A. Hydrography

The charted hydrography originates with the previously discussed surveys which require no further consideration supplemented by partial application of depths from the verified smooth sheet of the present survey.

The rock awash charted in lat.  $57^{\circ}38.2'$ , long.  $135^{\circ}37'$  from T-2225 (1895) has been discredited in that position by the present survey.

The present survey is considered adequate to supersede the charted hydrography within the common area.

### B. Aids to Navigation

There are no charted aids within the area of the present survey.


## 8. Compliance with Project Instructions

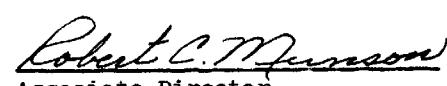
This survey adequately complies with the Project Instructions.

9. Additional Field Work

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

Examined and Approved:

  
\_\_\_\_\_  
Chief  
Marine Chart Division

  
\_\_\_\_\_  
Associate Director  
Office of Marine Surveys and Maps



H-9056

Items for Future Pre-Survey Review

No significant changes in the bottom were noticed since the prior surveys were made in 1895 in this area of Hoonah Sound.

A future survey should include an investigation of the 0.9-fm. pinnacle rock in lat.  $57^{\circ}37.03'$ , long.  $135^{\circ}35.55'$ .

Position Index Lat.	Index Long.	Bottom Change Index	Use Index	Resurvey Cycle
0573	1354	1	1	50 yrs.
0573	1355	1	1	50 yrs.
0574	1354	1	1	50 yrs.
0574	1355	1	1	50 yrs.

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Reg. No. 9056

The Computer and Excess Sounding Cards for this survey have not been corrected to reflect the changes made to the Computer Card and Excess Card Printouts at this time of the review.

When the cards have been updated to reflect the final results of the survey, the following shall be completed:

CARDS CORRECTED

DATE \_\_\_\_\_ TIME REQ'D \_\_\_\_\_ INITIALS \_\_\_\_\_

REMARKS:

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