# 8288

Diag. Cht. No. 8152-2.

U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

### DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. H0-1356 Office No. H-8288

### LOCALITY

State S. E. Alaska

Ceneral locality

Locality Northern Part of Sea Otter

Sound

1956

CHIEF OF PARTY

R. A. Earle

LIBRARY & ARCHIVES

April 5, 1960

USCOMM-DC 5087

### 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.

REGISTER NO. H-8288

Field No. H0-1356

| State S. E. Alaska General locality Summer Streets                      |        |
|---|--------|
| Locality Northern part of Sea Otter Sound                               |        |
| Scale 1:10,000 Date of survey 15 Aug. to 5 Oct.                         | 1956   |
| Instructions dated 21 November 1955.                                    |        |
| Vessel Ship HODGSON, Launch No. 98 and Motor Whaleboat No. 169          |        |
| Chief of party Robert A. Earle  |        |
| Surveyed by Robert A. Earle, Paul Taylor and James P. Randall           |        |
| Soundings taken by fathometer, graphic recorder, hand lead,             |        |
| Fathograms scaled by H. W. H. & L. F. H.                                |        |
| Fathograms checked by H. W. H. & A. M. L.                               |        |
| Protracted by Clarence R. Lehman  |        |
| Soundings penciled by Clarence R, Lehman                                |        |
| Soundings in fathoms at MIN MLLW and are based on a sound of 800 fms/se | 1e 10e |
| REMARKS: Approximately 75% of the positions on this sheet were          |        |
| pricked through from film positives of the Boat Sheet.                  |        |
|   |        |
|   |        |
|   |        |

#### DESCRIPTIVE REPORT

### to accompany

HYDROGRAPHIC SURVEY NO. H-8288 (FIELD NO. HO-1356)

SCALE 1:10,000

R. A. EARLE, COMDG.

#### SHIP HODGSON

### A. PROJECT:

This survey was executed as a part of Project 13470 in accordance with Revised Instructions, dated 21 November 1955.

### B. SURVEY LIMITS AND DATES:

The area covered by this survey lies along the northern part of Sea Otter Sound between the eastern shores of Davidson Inlet and the southern reaches of El Capitan Pass; and includes White Cliff Passage. The limits are delineated by Lat. 55° 50173 North and 55° 55:2 North and by the west shore of Tuxekan Island and Long. 133° 32:2 West.

This survey connects on the north with contemporary survey H-8289 and prior Survey 4329 on the west with contemporary survey H-8287 and on the south with prior surveys H-2732 and H-2733.

Joins on the South H-8393(1957) (1904) Joins on Ser H-6392(1957)

Field work was started on 15 August 1956 and completed on 5 October 1956.

### C. VESSELS AND EQUIPMENT:

This survey was executed with hydrographic launch No. 98; Motor Whale Boat No. 169; and the Ship HODGSON.

All soundings were taken with 808 fathometers No'd. 62S and 10LS and portable EDO's No'd. 206 and 207. These soundings were supplemented by hand lead soundings on critical shoals.

### D. TIDE AND CURRENT STATIONS:

A portable tide gage was maintained at New Tokeen, Alaska, Lat. 55° v 56' 15" North, Long. 133° 19' 28" West, and was used without time or range corrections for the reduction of all soundings. of himit of H-8288

No current stations were occupied within the limits of this sheet.

### E. SMOOTH SHEET:

The smooth plotter's report will be included as an addendum to this report.

### F. CONTROL STATIONS:

LITE (WHITE CLIFF PASSAGE LIGHT 1956) ALDER 2 1922 BIRD 2 1922 MID 1904-56 CLIFF 1913 MINK 1904-56 CUT 1904-56 MOUTH 1904-56 DRILL 1904-56 NEST 1904-56 DUCK 1904-22 PIN 1904-56 EAST 1922 POLE 1913-56 FOX 1903-46 SHELL 1904-56 HOT 1904-22 STAR 1904-56 HOOT 1904-56 TIDE 1904-56 HOOT ISLAND ROCK LIGHT 1956 TURN 1904-56 LIP 1904-56 TWIN 1904-56

Other stations were located by photogrammetric methods on manuscripts T-10397 through T-10399, T-10404, T-11100 and T-11427.

Where stations were needed and no identifiable photo points were nearby, they were located by sextant angles at the station or from cuts taken V from the launches.

A list of all stations with their source is attached to the cover sheet of sounding volume No. 1. H- 8288 QEROCT

### G. SHORELINE AND TOPOGRAPHY:

All shoreline on the boat sheet was taken from preliminary manuscripts No'd. T-10397 through T-10399, T-10404, T-11100 and T-11427. No shoreline discrepancies were noted by the hydrographer.

No attempt was made by the hydrographer to define the low water line due to the numerous rocks and reefs that abound in the area. Lines were run, however, as near the shore as feasible in an effort to develop the adjacent 5 fathom curve.

The area between Eagle Island and Clump Island is exceptionally foul. Field was having trouble with control. Note vol. 4, PP.61-68 H. SOUNDINGS:

All soundings were taken with 808 fathometers No'd. 628 and 1048, and portable EDO fathometers No'd. 206 and 207. These soundings were supplemented on critical rocks and shoals by vertical casts taken with a standardised lead line.

Only the least depth, plus representative soundings, were recorded on w. shoals which were investigated with the hand lead.

The fathometer was used on the Ship HODGSON was set each morning over a relatively flat bottom, in order that it would record the correct depth. The transducer depth (draft) was measured and the fathometer initial setting was read and recorded. Compensation was made for changes occurring in these values during the day, by an initial correction which was entered in the sounding volumes.

The fathometer used on Launch 98 was set at the correct depth each morning, and checked at the end of the day, with a bar held two fathoms below the surface. The fathometer initial setting was recorded.

The same proceedure was used with the portable EDO fathometer on MWB 169, except that the bar was lowered to a depth of four fathoms.

The 808 fathometer reeds were calibrated for 800 fathoms per second.

Speed checks were taken at regular intervals by the hydrographer.

The EDO fathometers are calibrated for a line frequency of 60 cycles of per second with a tolerance of plus or minus 3%. All variations were noted and corrections applied to the soundings. (SEE "Cycle Corrections EDO Fathometers Nos. 206 - 207", attached.)

808 fathometer phase comparisons and corrections, which were applied, are listed and attached to this report.

### I. CONTROL OF HYDROGRAPHY:

All hydrography was visually controlled by sextant angles taken on shore signals. Tan and O Far are the same signal. See vol. 10, p. 23

There are instances of changes in sounding speed on or near shoals.

These speed variations were due to either, or a combination of, current, 
>kelp, rudder drag, and slight changes of engine speed. Sufficient fixes were taken so that the soundings are not appreciably displaced.

Reference should be made to the boat sheet for line directions bet- ween fixes along beach lines.

### J. ADEQUACY OF SURVEY:

This survey is complete and adequate for the area. No additional field work is considered necessary at this time.

All junctions with contemporary surveys No'd. 8289 and 8287 were satisfactory. Also with H-8393 (1957) and H-8392 (1957)

While numerous bottom samples were obtained over the area, it was considered unnecessary to adhere strictly to the specified spacing. (See paragraph 4 of Reference 3842, Hydrographic Manual.)

### K. CROSSLINES:

Fifty two miles, or about 8% of all sounding lines, are crosslines. All crossings appear to be satisfactory.

### L. COMPARISON WITH PRIOR SURVEY:

The area of this survey is covered by prior surveys No'd. H-2732 (1904), Scale 1:20,000, H-2733 (1904), Scale 1:20,000, and H-4329(1923), Scale 1:10,000.

The soundings taken during the present survey are in general agreement

with those from former surveys; however, due to the scarcity of soundings on the original survey, depth curves can be more accurately delineated on the present survey sheets.

No rocks or shoals which were located during the previous survey were redisproved by the present one; however, the least depths were seldom ob- view tained on shoals, and several shoals and many rocks were located which were not shown on the old survey.

Refer to Section "M" below for differences.

### M. COMPARISON WITH CHART:

This survey was compared with Chart No. 8171 and the charted soundings, Reas shown, are more or less correct, although, depth curves will be changed view considerably. All rock symbols were verified.

This survey should supersede all charted data.

Listed in the table below are some dangers, shoals and significant / soundings that differ with the charted data.

| •                       |                    |                                    |                        |   |
|-------------------------|--------------------|------------------------------------|------------------------|---|
| CHART<br>LOCATION       | CHART<br>NOTATION  | NEW<br>LOCATION                    | NEW<br>NOTATION        | REMARKS   |
| 55° 54170<br>133° 32105 | la fm.             | 55° 54169                          | shoal                  | Hand lead investigation./ (Pos. 86f)                                      |
| 55° 54102<br>133° 31169 | 17 fm. V shoal     | 55° 54105 ⁄<br>133° 31172          | lly fm.                | Shoalest sounding found during development.                               |
| Not indica-<br>ted      | 5.5 fm. √<br>shoal | 55° 52139<br>133° 31116            | 0.8 fm.<br>shoal       | Hand lead investigation. (Pos. 209p)                                      |
| 55° 50196<br>133° 31181 | 37 fm. 101.17      | 55° 50.96<br>133° 31179            | H-22                   | Shoalest sounding found   |
| 55° 50184<br>133° 29163 | 21 fm • 90-91      | 55° 50177<br>133° 29173            | shoal                  | Shoalest sounding found during development and hand lead investigation.   |
| 55° 53104<br>133° 28158 | 19 fm.             | 55° 53.03<br>5133° 28159           | 18 fm. 159-16          | Shoalest sounding found during development.                               |
| Not indica-<br>ted      | 나를 fm.<br>shoal    | 55° 53134<br>133° 28138            | 0.8 fm-<br>shoal       | Hand lead investigation (Pos. 32d) Shoalest / point lies outside kelp.    |
| Not indica-<br>ted      | 17 fm.             | 55° 54 <b>!35</b> .<br>133° 271910 | 1.5 fm.<br>shoal       | Hand lead investigation. (Pos. lg). No kelp found on this sounding. SHOPL |
| 55° 55118<br>133° 28153 | . 10 fm. shoal     | 55° 55118<br>133° 28160            | 8.6 fm. 300 shoal 1200 | Shoalest sounding found y during development.                             |

| A                          | CTT L TO M  | STYRIF              | ATTARR               |   |                                       |
|----------------------------|---|---------------------|----------------------|---|---------------------------------------|
| CHART                      | CHART   | NEM                 | NEW                  |   |                                       |
| LOCATION                   | NOTATION  | LOCATION            |                      |   |                                       |
| 55 55195                   | 10 fme  | No indic            | ation 14 A           | To Shoalest                             | sounding found                        |
| 1339-27150                 | This area off                                       |                     |                      | during de                               | - trempoleve                          |
| -1.70                      | Survey ,  | •                   |                      | X This area                             | ovelopment.                           |
| 55° 55116                  | 7 6 0   | , 55° 551           |                      | ^                                       | sounding found                        |
|                            | 7 fm. all shoal all all all all all all all all all | y 22° 22°           |                      |   |                                       |
| 133° 27 <b>\3</b> 5        | anost of 10,  | 133° 271            |                      | L during a                              | evelopment.                           |
|                            | Shoal   | ,                   | 19-                  | _                                       | _                                     |
| 55° 51.48                  | رم £4 fm. 24 fm.                                    | b 55° 511           | 65 · <del>20</del> № | $n \cdot \sqrt{2} \times Shoalest$      | sounding found versions               |
| <b>55°</b> 51 <b>881</b>   | shoal "U  | ن 55° 51 لا         | 38 🥌 shoal           | l 15 3 during de                        | evelopment.                           |
| 133° 24:91                 | ري چار  | 133° 251            | 10 28/               |   | • • • • • • • • • • • • • • • • • • • |
| 133° 25118                 | shoal   | 133° 251            | 10                   | •                                       |                                       |
| 1)) 2)•10                  | · ·   |                     | · . ~                |   |                                       |
| CC9 C113C                  | *10 a 10  | \ EC° E11           | 20 20                | - Chaslant                              | counding found                        |
| 55° 51:15                  | *19 fm - 130  | 27 DD DTP           | 20 2 <b>76</b> fr    |   | sounding found                        |
| 13 <b>3°</b> 23 <b>\82</b> | shoal of G  | V133, 531           | 71 130 "G", v        | of 14 during d                          | evelopment. V.                        |
|                            |   |                     | , i                  | X XFORWARA                              | 1017-0286                             |
| 55° 51840                  | 9 fm.60-61  | 's" 55° 51 <b>3</b> | 37 / 2·4 1           | fm- Shoalest                            | sounding found                        |
| 133° 20!58                 | shoal vol. 7  | 133° 201            | 396 shoal            |   | evelopment. V                         |
|                            | •   |                     |                      |   |                                       |
| Not indica-                | 17 fm -77-78  | 55° 511             | 16 3.7               |   | sounding found                        |
|                            |   |                     |                      |   |                                       |
| ted                        | V 01.7  | 133° 201            | 50 shoal             | i auring d                              | evelopment.                           |
| _                          |   |                     | 2 1                  | •                                       |                                       |
| <b>55°</b> 51 <b>400</b>   | 2 m+47-48   | 55° 518             | 00 .^ 2~fm           |   | sounding found                        |
| 133° 21108                 | shoal "V"   | 133° 211            | sho <b>a</b> :       | land during de                          | evelopment.                           |
|                            | 10/10   |                     | v                    | •                                       | . •                                   |
| <b>55°</b> 50 <b>193</b>   | 20 fm. V  | 55° 501             | 93. 12 Å             | n. Shoelest                             | sounding found                        |
| 1220 22106                 |   | 133° 22•            |                      |   |                                       |
| 133° 22196                 | v 01.15   | 177 220             | •                    | _                                       | evelopment.                           |
|                            | · · · · · · · · · · · · · · · · · · ·               |                     |                      | 3 /                                     |                                       |
| Not indica.                | == \O(O)  | 55° 534             | 48 7 J 1.7           |   | sounding found                        |
| ted                        | 1 , 401.  | 7133 231            | 71 shoa!             | during de                               | evelopment and                        |
| •                          |   |                     |                      | hand lead                               | d investigation.                      |
|                            |   |                     | 4                    |   |                                       |
| Not indica-                |   | 55° 531             |                      | · • • • • • • • • • • • • • • • • • • • | sounding found                        |
| ted                        | 119-120 "r"   | 133 231             |                      |   | evelopment and                        |
| rou                        | vo[.7   | ±22 <20 ×           | onou.                |   |                                       |
|                            | , , ,   |                     |                      | hand lead                               | d investigation.                      |

The above soundings were taken from the boat sheet where predicted tides were used for the reduction of soundings. They may change slightly when the actucal reducers are applied.

Particular attention should be given to the numerous rock locations of and notes on the boat sheet and photo manuscripts.

### N. DANGERS AND SHOALS:

Refer to Section "M" above.

### O. COAST PILOT INFORMATION:

Refer to Coast Pilot Report.

### P. AIDS TO NAVIGATION:

There are two fixed aids to navigation within the limits of this sheet both of which were located by triangulation. They are:

- 1. White Cliff Passage Light 1956 (Hydro name "LITE")
- 2. Hoot Island Rock Light 1956 (Tope name "LAN")

### Q. LANDMARKS FOR CHARTS:

The only landmark of note is White Cliff, White Cliff Island, which / is already noted on Chart 8171.

### R. GEOGRAPHIC NAMES:

There is one addition to the Geographic Names on this sheet.

The long narrow arm, 0.9 mile by 04 mile, located on the west coast of Tuxekan Island between Latitudes 55° 5113 North and 55° 5114 North and Longitudes 133° 1818 West and 133° 1913 West, has been called SCOTT COVE, by the local inhabitants for many years (133° 18.3' \& 133° 19.8')

### S. SILTED AREAS:

No significant areas of deposition or alongshore shifting of silt vere noted.

T Through X:

Not applicable.

### Y. TABULATION OF APPLICABLE DATA:

- 1. Tidal Data Forwarded 6/21, 6/22 and 10/30/56.
- 2. Air Photo Data Forwarded 10/16, 10/22 and 11/15/56.
- 3. Triangulation Data Forwarded 9/4 and 10/16/56.
- 4. Coast Pilot Report Forwarded 12/12/56.
- 5. EDO Cycle Corrections Attached.
- 6. Phase Comparisons Attached.
- 7. Daily Statistics Attached.

Respectfully submitted, Lands P. Randall

James P. Randall, Lt.(jg), USC&GS

Approved and forwarded:

Robert A. Earle,

CDR. USC&GS

Comdg. Ship HODGSON

### DAILY STATISTICS

### HYDROGRAPHIC SURVEY NO. H-8289 (FIELD NO. HO-1356) LAUNCH NO. 98

| LAUNCH NO. 98 |              |                                       |   |                 |                |  |  |  |
|---------------|--------------|---------------------------------------|---|-----------------|----------------|--|--|--|
| DATE          | DAY LTR.     | VOL NO.                               | NO. OF POS.                             | NAUT. MILES     | HANDLEADS      |  |  |  |
| 8/25          | 8.           | 1                                     | 45                                      | 3.0             |                |  |  |  |
| 8/27          | ъ            | 1                                     | 110                                     | 11.4            |                |  |  |  |
| 8 <b>/28</b>  | o            | 1                                     | 77                                      | 6.5             |                |  |  |  |
| 8/29          | ď            | 1&2                                   | 135                                     | 10.2            | •              |  |  |  |
| 8/31          | •            | 2                                     | 167                                     | 18.8            |                |  |  |  |
| 9/1           | f            | 2&3                                   | 181                                     | 20•5            |                |  |  |  |
| 9/4           | g            | 3                                     | 56                                      | 2•9             | 1              |  |  |  |
| 9/12          | h            | 3&4                                   | 171                                     | 19.2            | _              |  |  |  |
| 9/13          | <u></u><br>j | 4                                     | 192                                     | 22.6            |                |  |  |  |
| 9/14          | k            | 4 <u>&amp;</u> 5                      | 145                                     | 14.5            |                |  |  |  |
| 9/15          | î            | 4-J                                   | 161                                     | 17.5            |                |  |  |  |
| 9/17          | m            | 5<br>5                                | 96                                      | 10.1            | 7              |  |  |  |
| 9/19          | n            | 5&6                                   | 109                                     | 7•3             | 1              |  |  |  |
| 9/20          |              | 6                                     | 210                                     | 22.4            |                |  |  |  |
| 9/21          | p            | 6&7                                   | 174                                     | 18.4            |                |  |  |  |
| 9/22          | q<br>r       | 7                                     | 130                                     | 13.7            | 9              |  |  |  |
| 9/25          |              | 7&8                                   | 176                                     | 23.5            | 9              |  |  |  |
| 9/26          | s<br>t       | 7.665<br>8                            | 167                                     | 24.8            |                |  |  |  |
| 9/20          |              |                                       |   |                 |                |  |  |  |
| 9/28          | u<br>—       | 8&9                                   | 17 <b>1</b><br>66                       | 25.4            |                |  |  |  |
| 10/1          | ▼            | 9                                     |   | 10.6            |                |  |  |  |
| 10/2          | W            | 9                                     | 137                                     | 9•7             |                |  |  |  |
| 10/3          | x            | 10                                    | 56                                      | 6.3             |                |  |  |  |
| 10/4          | y            | 10                                    | 146.                                    | 13.0            | ••             |  |  |  |
| 10/5          | 2            | 10                                    | 22                                      | 0.9             | 12             |  |  |  |
|               | TOTALS       | 5                                     | 3100                                    | 333.2           | 29             |  |  |  |
|               | • .          | Q1                                    | IIP HODGSON                             |                 |                |  |  |  |
| 8/15          | A            | 11                                    | 180                                     | 41.0            |                |  |  |  |
| 8/17          | В            | 11                                    | 69                                      | 12 <b>.2</b>    | 12             |  |  |  |
| 8/23          | C            | 12                                    | 82                                      | 16.4            | 12             |  |  |  |
| 8/24          |              | 12&13                                 |   | 10.4            | 7              |  |  |  |
| 0/24          | D            |                                       | 213                                     | 59 <b>-</b> 3   | 3              |  |  |  |
| 8/25          | E            | 13&14                                 | 183                                     | 54.9            | 0              |  |  |  |
| 8/27          | F            | 14                                    | 143                                     | 34.4            | 8              |  |  |  |
| 8/31          | G            | 14& <b>1</b> 5                        | 184                                     | 34.1            | 21             |  |  |  |
| 10/1          | H            | 15                                    | 26                                      | 4.0             | 9              |  |  |  |
|               | TOTALS       | 5                                     | 1089                                    | 256.3           | 53             |  |  |  |
|               |              | MOTOF                                 | R WHALEBOAT 169                         |                 |                |  |  |  |
| 9/12          |              | 16                                    | 167                                     | 20.8            |                |  |  |  |
| 9/13          | ъ            | 16                                    | 175                                     | 17.6            |                |  |  |  |
| 9/14          | 0 .          | 17                                    | 200                                     | 30 <b>.1</b>    |                |  |  |  |
| 9/15          | ď            | 17                                    | 74                                      | 7.0             | 13             |  |  |  |
| 9/22          | •            | 17&18                                 | 132                                     | 10.7            | -)             |  |  |  |
| 10/1          | f            | 18                                    | 27                                      | 3.2             |                |  |  |  |
| /-            | TOTAL        |                                       | 775                                     | 89.4            | 13             |  |  |  |
|               | <del></del>  | · · · · · · · · · · · · · · · · · · · | 112                                     | -/- <del></del> | <del>-</del> / |  |  |  |
|               | GRANI        | TOTALS                                | 4955                                    | 678.9           | 95             |  |  |  |
|               |              |                                       | • | , ,             |                |  |  |  |

AREA = 33.0 sq. nautical miles

### APPROVAL SHEET

HYDROGRAPHIC SURVEY NO. H-8289 (FIELD NO. HO-1356)

The boat sheet and field records for this survey, where the hydrography was not done by the writer, were examined daily during the season. As the survey is considered complete and adequate, no additional field work is deemed necessary.

The person plotting the smooth sheet should write an addendum to this report.

Schott Earle, Robert A. Earle,

CDR, USC&GS

Comdg., Ship HODGSON

#### PROCESSING OFFICE NOTES H-8288

### SMOOTH SHEET

The projection was hand constructed and the triangulation plotted / by ship personnel.

Topographic and hydrographic signals were transferred, plotted and / checked by personnel of the Seattle Hydrographic Processing Unit.

#### SHORELINE AND TOPOGRAPHY

The shoreline and topographic detail were transferred from advanced prints of the same manuscripts listed in the field report.

### ADEQUACY OF SURVEY

The survey is complete and adequate for charting. Junctions with contemporary surveys H-8287, H-8289 and H-8391 were found to be in agreement and the depth curves can be adequately drawn at the junctions.

### COMPARISON WITH CHART

This survey has been compared with Chart 8171, 5th Ed., Revised 1/14/57, / which was revised from boat sheet data. (Nexifica used 6th Edition, Dec. 19, 1960)

Items under this heading in the field report have been checked or corrected, in ink, to smooth sheet values. (Herewith attached to D.R.)

See additional items from smooth sheet listed under Dangers and Shoals. See also the section of Chart 8171 attached to this report for comparison between smooth sheet and chart.

### DANGERS AND SHOALS

| Location                     | Depth | Remarks            |
|------------------------------|-------|--------------------|
| 55° 521.26′<br>133 29 .30′   | 3.7-  | pos. 53-54m/       |
| 55° 52'.17′<br>133 29 .50v   | 2.3~  | 34-35m/            |
| 55° 53'.20~<br>133 31 .64~   | 2.4   | 87-88m ~           |
| -55° 53'.54<br>133 22 .80 ⁄  | 1.8/  | 141-142q/          |
| 55° 53'.97 ⁄<br>133 19 .70 ⁄ | 1.1~  | 118-119 <b>y</b> / |
| 55° 521.83/<br>133 24 .14/   | 2.6/  | 19r√               |

| Location                                    | Depth                     | Remarks                           |
|---|---------------------------|-----------------------------------|
| 55° 53 <b>'.6</b> 0/<br>133 20 <b>.33</b> / | rk awash 🗸                | llz ✓                             |
| 55° 53 <b>'.78</b> ~<br>133 19 <b>.83</b> ~ | rk awash $(2)$ or 5.5     | from 32y V                        |
| 55° 531.90-<br>133 19.75<br>* MISO/OHEd     | charted depth-<br>*1/4 fm | smooth sheet-<br>shows 11-12 fms. |

Respectfully submitted

William M. Martin
Supervisory Cartographer

Approved and Forwarded

G./C. MAST, CAPTAIN, C&GS SEATTLE DISTRICT OFFICER

| CYCLE        | +58 •25<br>-61 •75<br>DEPTH          | CYCLE      | +58 •00<br>-62 •00<br>Depth |
|--------------|--------------------------------------|------------|-----------------------------|
| CORRECTION   | FMS.                                 | CORRECTION | FMS.                        |
|              |                                      | 0.0        | 0.0 - 1.5                   |
| 0.0          | 00 - 1.7                             | 0.1        | 1.6 - 4.6                   |
| 0.1          | 1.8 - 5.3                            |            | 4.7 - 7.8                   |
| 0.2          | 5.4 - 8.9                            | 0.2        |                             |
| 0•3          | 9.0 - 12.5                           | 0.3        | 7.9 - 10.9                  |
| 0-4          | 12.6 - 16.0                          | 0.4        | 11.0 - 14.0                 |
| 0•5          | 16.1 - 19.6                          | 0•5        | 14.1 - 17.1                 |
| 0.6          | 19.7 - 23.2                          | 0.6        | 17.2 - 20.3                 |
| 0.7          | <b>23.3 -</b> 26.7                   | 0.7        | 20.4 - 23.4                 |
| 0.8          | 26.8 - 32.1                          | 0•9        | 23.5 - 29.6                 |
| 1.0          | 32.2 - 39.2                          | 1.0        | 29.7 - 34.3                 |
| 1.2          | 39.3 - 46.4                          | 1.2        | 34.4 - 40.6                 |
| 1.4          | 46.5 - 53.5                          | 1.4        | 40.7 - 46.8                 |
| 1.6          | 53.6 - 60.7                          | 1.6        | 46.9 - 53.1                 |
| 1.8          | 60.8 - 67.8                          | 1.8        | 53.2 - 59.3                 |
| 2.0          | 67.9 - 75.0                          | 2.0        | 59.4 - 65.6                 |
| 2.2          | 75.1 - 82.1                          | 2.2        | 65.7 - 71.8                 |
| 2.4          | 82.2 - 89.2                          | 2.4        | 71.9 - 78.1                 |
| 2.6          | 89.3 - 96.4                          | 2.6        | 78.2 - 84.3                 |
| 2.8          | 96.5 -103.5                          | 2.8        | 84.4 - 90.6                 |
| 2.0          | 7007 -20707                          | 3.0        | 90.7 - 96.8                 |
| CYCLE        | +57 • <b>75</b><br>-62 •25           | 3.2        | 96.9 -103.1                 |
| CORRECTION   | DEPTH                                |            |                             |
| 00144501104  | fms.                                 |            |                             |
| 0.0          | 0.0 - 1.3                            |            |                             |
| 0.1          | 1.4 - 4.1                            |            |                             |
| 0.2          | 4.2 - 6.9                            |            |                             |
|              | 7.0 - 9.7                            |            |                             |
| 0-3          | 9.8 - 12.5                           |            |                             |
| 0.1          |                                      |            |                             |
| 0.5          | 12.6 - 15.2                          |            |                             |
| 0.6          | 15.3 - 18.0                          |            |                             |
| ^ <b>0.7</b> | 18.1 - 20.8                          |            |                             |
| 0.8          | 20.9 - 23.6                          |            |                             |
| 0.9          | 23.7 - 26.3                          |            |                             |
| 1.0          | 26.4 - 29.1                          |            |                             |
| 1.1          | 29.2 - 31.9                          |            |                             |
| 1.2          | 32.0 <b>-</b> 36.1                   |            |                             |
| باء 1        | 36.2 - 41.6                          |            |                             |
| 1.6          | 41.7 - 47.2                          |            |                             |
| 1.8          | 47.3 - 52.7                          |            |                             |
| 2.0          | 52 <b>.</b> 8 <b>-</b> 58.3          |            |                             |
| 2 <b>.2</b>  | 58 <b>.</b> 4 <b>-</b> 63 <b>.</b> 8 |            |                             |
| 2.4          | 63.9 - 69.4                          |            |                             |
| 2•6          | 69.5 - 75.0                          |            |                             |
| 2.8          | 75 <b>.1 - 80.5</b>                  |            |                             |
| 3.0          | 80.6 - 86.1                          |            |                             |
| 3.2          | 86 <b>.2 -</b> 91 <b>.6</b>          |            |                             |
| 3.4          | 91.7 - 97.2                          |            |                             |
| 3.6          | 97.3 -102.7                          |            |                             |
| <b>)</b>     |                                      |            |                             |

✓

PHASE COMPARISON

### LAUNCH 98 - FATHOMETER NO. 1045 - 1/25/56

|         | Fathoms . |       |
|---------|-----------|-------|
| A Scale | B Scale   | corr. |
| L2.6    | 12.8      | -0.2  |
| 127     | 12.8      | -0.1  |
| 12.6    | 12.7      | -0.1  |
| 13.0    | 43.2      | -0.2  |
| 12.9    | 43.1      | -0.2  |
| 12.5    | 12.7      | -0.2  |
| 42.3    | 42.4      | -0.1  |
| 12.0    | 1,2.3     | -0.3  |
| 12.0    | 12.2      | ~0.2  |
| 12.0    | 12.3      | -0.3  |
| ide TV  | Sum       | -1.9  |
|         | Mean      | -0.19 |

### PHASE COMPARISON

LAUNCH 98 FATHOMETER 62-S

| A B A-B B C B-C  16.0 15.11 +0.6 75.1 73.3 +1.8  15.6 15.2 +0.11 71.8 73.0 +1.8  15.5 15.0 +0.5 71.7 72.8 +1.9  15.2 11.7 +0.5 71.8 72.8 +2.0  15.0 11.6 +0.11 71.0 72.7 +1.3  15.0 11.5 +0.5 71.6 72.6 +2.0  11.8 11.3 +0.5 71.6 72.6 +2.0  11.6 11.2 +0.1 71.6 72.5 +2.1  11.3 11.3 11.1 +0.2 71.1 72.1 +2.0  11.3 11.3 11.1 +0.2 71.1 72.1 +2.0  11.3 11.3 11.5 72.1 +2.0  Sum +1.5 8um 18.9  (31 May 1956) Mean +0.15 (31 July 1956 Mean +1.89 |     |   | *   |  |  |  |  |
|--|-----|---|---|--|--|--|--|
| 14.3   13.8   +0.5   74.4   72.4   +2.0     Sum   +4.5   Sum   18.9     (31 May 1956)   Mean   +0.45   (31 July 1956   Mean   +1.89     18.6   |     | 14<br>14<br>14<br>14<br>14<br>14<br>14<br>14<br>14<br>14<br>14<br>14<br>14<br>1 | 14.5<br>14.6<br>14.6<br>14.5<br>14.5<br>14.5<br>14.5                | +0.6<br>+0.4<br>+0.5<br>+0.5<br>+0.4<br>+0.5<br>+0.5<br>+0.4 | 75.1<br>74.8<br>74.7<br>74.8<br>74.6<br>74.6<br>74.6 | 73•3<br>73•0<br>72•8<br>72•8<br>72•7<br>72•6<br>72•6<br>72•5 | +1.8<br>+1.8<br>+1.9<br>+2.0<br>+1.3<br>+2.0<br>+2.1 |
| Sum   +4.5   Sum   18.9     18.6   |     | 44.3  | 44.1  | +0.2   |  |  |  |
| (31 May 1956) Mean +0.45 (31 July 1956 Mean +1.89  148.6   |     | 44.3  |   |  | 74-4   |  | +2.0   |
| 148.6  |     |   |   |  | •  |  |  |
| 148.7 148.11 +0.3 148.6 143.6 +0.2 149.0 148.5 +0.5 149.0 148.8 +0.2 149.0 148.8 +0.2 149.0 148.8 +0.2 149.0 148.7 +0.3 149.0 148.7 +0.3 149.0 148.7 +0.3 149.0 148.7 +0.3 149.0 148.7 +0.3  | (31 | May 1   | 1956) Mean  | +0.45  | (31 July   | 1956 Hean  | +1.89  |
|  | 1   | 148.6<br>149.0<br>149.0<br>149.0<br>149.0<br>149.0                              | 1.8 .1.<br>1.8 .5<br>1.8 .6<br>1.8 .8<br>1.8 .8<br>1.8 .8<br>1.8 .7 | +0.3<br>+0.2<br>+0.5<br>+0.4<br>+0.2<br>+0.2<br>+0.3<br>+0.3 |  |  |  |
|  | (10 | Aug.  | 1956) Mean  |  | •  |  |  |

### results

A B C D
0.0 +0.3 +2.2 +3.7

## PHASE COMPARISON SHIP HODGSON FATHOMETER 104S

| 46.0<br>46.8<br>47.6<br>49.0<br>50.5<br>51.7<br>52.3<br>53.0<br>53.7  | B<br>45.8<br>46.4<br>47.6<br>48.9<br>49.6<br>50.4<br>51.5<br>52.1<br>53.0<br>53.1<br>Sum       | A-B<br>+0.2<br>+0.4<br>0.0<br>+0.1<br>+0.4<br>+0.2<br>+0.2<br>+0.6<br>+2.2<br>+0.22          | В  | c <u>5-2</u>  | 6-5 <u>6</u><br>B-C   | C<br>118.8<br>119.0<br>119.0<br>120.0<br>120.0<br>120.4<br>120.8<br>121.0<br>121.0 | D<br>126.4<br>126.8<br>127.2<br>127.0<br>128.2<br>128.8<br>129.0<br>129.3<br>129.4<br>Sum | C-D<br>-7.6<br>-7.8<br>-8.2<br>-7.8<br>-7.2<br>-8.4<br>-8.2<br>-8.3<br>-8.8<br>-8.1<br>-8.17 |
|---|--|--|--|---|---|--|---|--|
| 40.1<br>40.3<br>40.6<br>40.6<br>40.8<br>40.8<br>41.0<br>41.0<br>41.0  | 39.6<br>38.8<br>40.0<br>39.9<br>40.0<br>40.1<br>40.2<br>40.2<br>40.2<br>Sum                    | +0.5<br>+0.5<br>+0.6<br>+0.7<br>+0.8<br>+0.8<br>+0.8<br>+0.8<br>+0.8<br>+0.8<br>+0.8<br>+0.8 | 85.5<br>85.8<br>85.8<br>85.8<br>86.0<br>86.1<br>86.2<br>86.2 | 5-29<br>89.6<br>89.8<br>90.0<br>90.0<br>89.9<br>90.0<br>90.2<br>90.2<br>90.3<br>Sum | -4.1<br>-4.0<br>-4.1<br>-4.2<br>-4.1<br>-4.0<br>-4.1<br>-4.0<br>-4.1<br>-4.07 | 122.8<br>123.0<br>123.0<br>123.0<br>122.8<br>122.8<br>122.7<br>122.8<br>122.8      | 131.0<br>131.1<br>131.0<br>131.0<br>130.8<br>130.8<br>130.7<br>130.9<br>130.9             | -8.2<br>-8.1<br>-8.0<br>-8.0<br>-8.0<br>-8.1<br>-8.1<br>-8.5<br>-8.5                         |
|   |  |  |  | to B = 4  | 4.07<br>.0.32<br>.3.75  |  |   |  |
| 50.0<br>50.0<br>49.0<br>4 9.0<br>48.8<br>49.0<br>48.0<br>47.0<br>46.0 | 7-16-56<br>50.0<br>49.9<br>49.0<br>49.0<br>48.7<br>48.6<br>48.6<br>48.0<br>47.0<br>46.0<br>Sum | 0.0<br>+0.1<br>0.0<br>0.0<br>+0.1<br>+0.2<br>+0.4<br>0.0<br>0.0<br>0.0<br>+0.8<br>+0.8       |  | <b>A</b><br>0•0   | RESU<br>B<br>+0•3   | LTS<br>C D<br>-3.8 +11.9   | <b>)</b>  |  |
| 48.0<br>47.4<br>47.2<br>45.2<br>45.2<br>44.9<br>44.9                  | 8-27-56<br>47.4<br>47.4<br>47.2<br>47.0<br>45.0<br>45.0<br>44.8<br>44.7<br>44.7                | +0.6<br>+0.2<br>+0.2<br>+0.2<br>+0.2<br>+0.2<br>+0.2<br>+0.2<br>+0.4                         | - Sum  | +0.26   |   |  |   | <b>,</b>   |

### CYCLE CORRECTION

### EDO FATHOMETERS NOS. 206 & 207

| CYCLE  | +59 <b>•50</b><br>-60 <b>•50</b>  |    | CYCLE  | + 59.25<br>- 60.75  |
|--|---|----|--|---|
| CORRECTION  0.0  0.1  0.2  0.3  0.4  0.5  0.6  0.8 | DEPTHS FMS.  CO = 6.2 6.3 = 18.7 18.8 = 31.2 31.3 = 43.7 43.8 = 56.2 56.3 = 68.7 68.8 = 87.5 87.6 = 112.5 |    | CORRECTION 0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.8 1.0 1.2 | DEPTH FMS.  00 - 4.1 4.2 - 12.5 12.6 - 20.8 20.9 - 29.1 29.2 - 37.5 37.6 - 45.8 45.9 - 58.3 58.4 - 75.0 75.1 - 91.6 91.7 -108.3 |
| CYCLE  | +59 • <b>00</b><br>-61 • <b>00</b><br>Depth   |    | CYCLE  | +58 • 75<br>-61 • 25<br>DEPTH   |
| CORRECTION O.O                                     | FMS .<br>00 - 3.1   |    | CORRECTION 0.0                                     | FM8 • 00 - 2.5  |
| 0.1  | 3.2 - 9.3   |    | 0.1  | 2.6 <b>-</b> 7.5<br>7.6 <b>-</b> 12.5   |
| 0•2<br>0•3   | 9.4 - 15.6<br>15.7 - 21.8   |    | 0•2<br>0•3   | 12.6 - 17.5   |
| 0.4  | 21.9 - 28.1   |    | 0.4  | 17.6 - 22.5   |
| 0•5<br>0•6   | 28 <b>.2 -</b> 34.3<br>34.4 - 43.7  |    | 0•5<br>0•6   | 22.6 - 27.5<br>27.6 - 35.0  |
| 0.8  | 43.8 - 56.2   |    | 0.8  | 35.1 - 45.0   |
| 1.0<br>1.2   | 56 <b>.3 - 68.</b> 7<br>68 <b>.8 - 81.2</b>   |    | 1.0<br>1.2   | 45.1 - 55.0<br>55.1 - 65.0  |
| 1.4  | 81.3 - 93.7   |    | 1.4<br>1.6   | 65.1 - 75.0   |
| 1.6  | 93.8 -106.2   |    | 1.8  | 75.1 - 85.0<br>85.1 - 95.0  |
|  |   |    | 2.0  | 95.1 - 105.0  |
| CYCI   | .E +58•50<br>-61•50   |    |  |   |
|  | DEPTH   |    |  |   |
| CORRECTION<br>0.0                                  | FMS.<br>00 - 2.0  |    |  |   |
| 0.1  | 2.1 - 6.2   | e. |  |   |
| 0•2<br>0•3   | 6.3 - 10.4<br>10.5 - 14.5   |    |  |   |
| 0.4  | 14.6 - 18.7   |    |  |   |
| 0•5<br>0•6   | 18.8 - 22.9<br>23.0 - 27.0  |    |  |   |
| 0.7  | 27.1 - 31.2   |    |  |   |
| 0•8<br>1•0   | 31 <b>•3 - 37•5</b><br>37 <b>•6 -</b> 45•8  |    |  |   |
| 1.2  | 45.9 - 54.1   |    |  |   |
| 1.4<br>1.6   | 54.2 - 62.5<br>62.6 - 70.8  |    |  |   |
| 1.8  | 70.9 - 79.1   |    |  |   |
| 2.0  | 79.2 - 87.5   |    |  |   |

2.0 2.2

2.4

79.2 - 87.5 87.6 - 95.8 95.9 -101.1

### PHASE COMPARISON

|            |      | SHIP  | HODGSON | FATHOME: | ter 62s |       |   |       |
|------------|------|-------|---------|----------|---------|-------|---|-------|
|            |      |       | 4-23-5  | 6        |         |       |   |       |
|            |      |       |         |          |         |       |   |       |
|            |      |       |         |          |         |       |   |       |
| A          | В    | A-B   | В       | C        | B-C     |       |   |       |
| 44.0       | 43.3 | +0.7  | 79.0    | 76.5     | +2.5    |       |   |       |
| 44.0       | 43.3 | +0.7  | 79.5    | 77.0     | +2.5    |       |   |       |
| 43.9       | 43.3 | +0.6  | 80.5    | 78.0     | +2.5    |       |   |       |
| 44.0       | 43.4 | +0.6  | 80•9    | 78.3     | +2.6    |       |   |       |
| <b>4.0</b> | 43.4 | +0.6  | 81.0    | 78.6     | +2.4    |       |   |       |
| 44.0       | 43.3 | +0.7  | 81.2    | 79.0     | +2.2    | A-B   |   | +0.59 |
| 44.0       | 43.4 | +0.6  | 81.3    | 79.0     | +2.3    | B-C   | - |       |
| 44.0       | 43.4 | +0.6  | 81.9    | 79.2     | +2.7    | , D=0 | _ | +2.47 |
|            |      |       |         | -        | •       |       |   | +5.00 |
| 43.8       | 43-4 | +0 •4 | 82.0    | 79•5     | +2•5    |       |   |       |
| 43.8       | 43.4 | +0.4  | 82.2    | 79•7     | +2.5    |       |   |       |
|            |      | +5.9  |         |          | \$21.7  |       |   |       |

Mean

### RESULTS

A B C 0.0 +0.6 +3.0

Mean

FORM 157 (3-16-55) GEOGRAPHIC NAMES Survey No. H-8288 OLU S WOOZ WOOZ ori dornation

Quide of Mag Name on Survey С Ε K F G Cap Island Clump Island Х 2 Cyrus Cove х 3 Davidson Inlet х Dot Island Х Dove Island х 6 Eagle Island х 7 El Caritan Island х Х 8 El Capitan Passage х 9 Fir Rock х 10 Fox Rock Х 11 Hoot Island 12 Knob Island 13 Orr Island Х 14 Owl Island х 15 Scott Cove 16 Sea Otter Sound 17 Sumner Strait(Title) 18 Tuxekan Island Х 19 Twin Islands Х 20 White Cliff х 21 White Cliff Island х 22 White Cliff Passage Х 23 24 RAPHIC NAI 15 APRIL 960 25 26 27

### Hydrographic Surveys (Chart Division)

## HYDROGRAPHIC SURVEY NO. .8288...

|   | mooth sh    |   |
|---|-------------|---|
| boat sheets; sounding vols; w   | ire drag    | y vols;                                 |
| Descriptive Reports; graphic reco   | rder en     | relopes;                                |
| special reports, etc  | •••••       | • |
| •••••••••   | • • • • • • | • • • • • • • • • • •                   |
| The following statistics will be submitted wi rapher's report on the sheet: | th the      | partog-                                 |
| Number of positions on sheet  |             | 4,955.                                  |
| Number of positions checked   |             | <b></b>                                 |
| Number of positions revised   |             | .4(1)                                   |
| Number of soundings revised (refers to depth only)                          |             | see P#26, verificis reporter            |
| Number of soundings erroneously spaced                                      |             | .0                                      |
| Number of signals erroneously plotted or transferred                        |             | .0                                      |
| Topographic details   | Time        | 4.hrs.                                  |
| Junctions   | Time        | .30 hrs.                                |
| Verification of soundings from graphic record                               | Time        | 100 has fruch time                      |
| Special adjustments Involved depth-   | Time        | 110 hrs.                                |
| Verification by Total time  | 431/        | Date 5-25- 62                           |
| Reviewed by Meskeul Time  | 82          | Date /2-26-62                           |

### OFFICE OF CARTOGRAPHY

### REVIEW SECTION -- NAUTICAL CHART DIVISION

### REVIEW OF HYDROGRAPHIC SURVEY

### REGISTRY NO. H-8288

FIELD NO. HO-1356

S. E. Alaska, Northern Part of Sea Otter Sound

SURVEYED: August - October 1956

SCALE: 1:10,000

### PROJECT NO. 13470

SOUNDINGS: 808 Depth Recorder

Edo Depth Recorder

on shore signals

CONTROL:

Hand Lead

Chief of Party-----R. A. Earle

Surveyed by-----R. A. Earle, P. Taylor, and J. P.

Randa11

Sextant Fixes

Protracted by-----C. R. Lehman Soundings plotted by-----C. R. Lehman

Verified and inked by-----S. Rose

Reviewed by-----I. M. Zeskind

Inspected by-----R. H. Carstens

### 1. Description of the Area

This is a survey of the northern portion of Sea Otter Sound which lies west of Tuxekan Island and east of approximate long. 133° 32.0', and includes the southern entrance to El Capitan Passage. The bottom is very irregular. Submarine features such as ledges, reefs, shoals, pinnacles, ridges and deeps contribute to the bottom irregularity.

### 2. Control and Shoreline

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

The shoreline originates with reviewed photogrammetric survey T-11100 (1953) and unreviewed photogrammetric surveys T-10397, T-10398, T-10399 of 1953-55-56, and T-10404 and T-11427 of 1953-57.

The exact location of the shoreline in a few places could not be determined on the photographs due to foliage obscuring the shoreline. In these places, the approximate locations of the shoreline is shown on the photogrammetric surveys by dashed lines; and was so transferred to the present survey.

### 3. Hydrography

Depths at crossings are in good agreement. The usual depth curves were adequately delineated, except close inshore where the foul character of the bottom generally prevented development to the low-water line. Soundings on some of the features were too sparse to adequately reveal the bottom configuration and least depths. However, these features were generally at depths not dangerous to navigation in this area.

### 4. Condition of Survey

- a. The sounding records and Descriptive Report are complete and comprehensive.
- b. The smooth plotting was accurately done.
- c. The present survey indicates the bottom generally to be muddy, whereas the prior surveys of 1904 and 1923 shows the bottom generally to be rocky. The bottom characteristics as obtained during the present survey are shown on the smooth sheet, except in those areas where development on the prior surveys indicate the bottom to be rocky and no bottom characteristics were obtained on the present survey. Here the bottom characteristic "rky" has been carried forward from the prior surveys.

### 5. Junctions

Adequate junctions were effected with H-8391 (1957) on the northeast in El Capitan Passage, with H-8289 (1956) on the northwest, with H-8287 (1956) on the west, with H-8393 (1957) on the south, and with H-8392 (1957) on the southeast in the vicinity of Turn Point.

### 6. Comparison with Prior Surveys

H-2732 (1904), 1-20,000 H-2733 (1904), 1-20,000 H-4329 (1923), 1-10,000 These prior surveys cover the area of the present survey. The sounding lines are more closely spaced on the present survey than they are on the prior surveys and, therefore, they better develop the configuration of the very irregular bottom. A comparison between the prior and present surveys reveals the present depths generally to be 1-3 fms shoaler than those on the prior surveys, except in several areas where differences in depths of as much as 5 fms are noted. These differences in depths are attributed to the fact that the depths on the prior surveys were obtained principally by wire sounding machines, whereas the soundings on the present survey were obtained by depth recorders, except on shoals where depths were obtained by the hand lead.

- 1. The rock awash charted in lat. 55°53.08', long. 133°24.52', which is the northernmost of 2 rocks awash, originates with a cluster of sunken rocks on H-2733 (1904). This feature has been carried forward to the present survey as a sunken rock. The charted rock awash should be revised to a sunken rock.
- 2. The two rocks awash charted in the vicinity of lat. 55°50.95', long. 133°20.60', from H-2733 (1904) where they are plotted out of position. When plotted correctly on H-2733, they fall in the vicinity of the 2 rocks awash shown on the present survey in the vicinity of lat. 55°50.90', long. 133°20.63'. The 2 rocks awash should be deleted from the chart and in their stead the 2 rocks awash shown on the present survey should be charted.
- 3. Some of the charted rocks originate with generalized reef symbolization on the prior surveys. These rocks awash have not been carried forward where the present survey adequately delineates the common area.
- 4. The 19-fm sounding in lat. 55°51.16', long. 133°23.86' and the 23-fm sounding in lat. 55°51.37', long. 133°23.63' charted from H-2733 (1904) fall in present depths of 26 fm. and 35 fms. respectively, and were not developed adequately to disprove their existence. These soundings have been carried forward to the present survey.

Several rocks awash, 3 soundings, and a few bottom characteristics have been carried forward from the prior surveys to the present survey. With these additions, the present survey is adequate

to supersede the prior surveys within the common area.

### 7. Comparison with Chart 8171 (Latest print date 12-19-60)

### A. Hydrography

The charted hydrography originates principally with the prior surveys which need no further consideration, supplemented by soundings from the boat sheet of the present survey. The 1/4 fm. sounding charted in lat. 55°53.90', long. 133°19.75', originates with H-4329 (1923), where it is misplotted. The sounding actually plots on H-4329 on a rock awash about 110 meters to the north northeast. The 1/4 fm sounding should be deleted from the chart.

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

### B. Aids to Navigation

There are no floating aids to navigation within the limits of the present survey. The present survey positions of the fixed aids to navigation are in substantial agreement with their charted positions and adequately mark the features intended.

### 8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

### 9. Field Work Recommended

This is a good basic survey and no further field work is recommended.

Examined and Approved:

Chief July Sulu Nautical Chart Division

Projects Officer, Operations Division Assistant Director, Office of Cartography

May by Cartography

Assistant Director, Office of Oceanography

### TIDE NOTE

### SHEET H-8288

The New Tokeen, Alaska tide gage, Lat. 55° 56' 15" North, Long.

133° 19' 28" West was used without time or range correction for the reduction of all soundings. (EL Capitan Island, West Side)

MLIM - 2.5 feet on staff

off limit of H-8288

### TIDE NOTE FOR HYDROGRAPHIC SHEET

### 

17 June 1960

Division of Charts: R. H. Carstens

Plane of reference approved in to volumes of sounding records for

HYDROGRAPHIC SHEET 8288

Locality Sumner Strait, Alaska

Chief of Party: R. A. Earle in 1956
Plane of reference is mean lower low water, reading
2.5 ft. on tide staff at El Capitan I., West Side
15.3 ft. below B. M. 1 (1956)

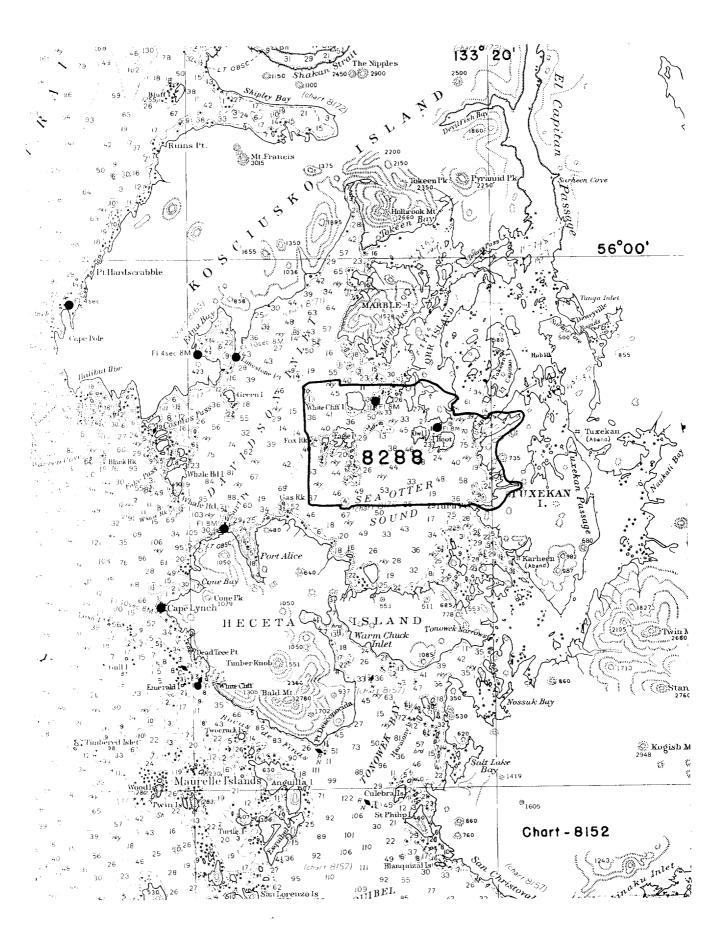
Height of mean nigh water above plane of reference is 10.0 feet.

Condition of records satisfactory except as noted below:

Chief. Tides Branch

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U. S. GOVERNMENT PRINTING OFFICE 877938



### NAUTICAL CHARTS BRANCH

SURVEY NO. <u>H-8288</u>

### Record of Application to Charts

| DATE      | CHART            | CARTOGRAPHER    | REMARKS   |
|-----------|------------------|-----------------|---|
| 5-76-60   | 8/7/             | R. K. De hander | Part agent Before After Verification and Review % liste over  |
|           |                  |                 | punt drawing.   |
| 10-28-60  | 8152             | R.E. Elkins     | Before Atter. Verification and Review Partly applied  Thus cht 8/7/ dig #9.   |
|           |                  |                 | 0.4/  |
| 13 Mar 61 | 8002 -           | En Fragons      | Before Verification and Review forthe opportunity of the start of the |
|           |                  | 0               | Part am of thru ent 8171 drag   |
| B mar 61  | F201             | J. NEaton       | Before After Verification and Review  |
| 1         | l .              | 17              |   |
| 1-14-63   | Reconstr<br>8171 | R. K. Sa Lawde  | Bomsletily appl.  Bethre After Verification and Review Elifon impedion  |
|           |                  |                 |   |
| 4-25-63   | 8002             | h.j. keeler     | Part. applied.  Before After Verification and Review before inspection  |
|           |                  |                 | pending complete application to large scale chts.   |
| 5/27/64   | 8201             | G.R. Johnson    | Before After Verification and Review Partly Appel   |
| 1         |                  |                 |   |
| 5/5/64    | Reconstr<br>8171 | G.R. Johnson    | Before After Verification and Review 3 /nsp.  |
|           |                  |                 |   |
| 12/14/64  | 8201             | G.K. Myers Je.  | Before After Verification and Review and Ingg.  |
| 7         |                  |                 | Comp appl from Cht 8/71, dwg 11   |
| 12/14/64  | 8152             | G.K. Myers I    | Befere After Verification and Review & Jang.  |
| 123/      |                  |                 | Comp apped from 8171 dwg 11   |
| 6/17/69   | 800)             | V.S. Stuart     | Fully applied after Verification  |
|           |                  |                 | review and inspection No corv.  |
| 1         |                  |                 | (Hydro Deleted from Acea.)  |
|           |                  |                 |   |
|           |                  |                 |   |
|           |                  |                 |   |
|           |                  |                 |   |
|           |                  |                 |   |
|           | 1                | 1               |   |

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.