9370

Diag. Cht. No. 8102-3

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

(HYDROGRAPHIC)

| Type of Survey HYDROGRAPHIC Field No DA-10-1-73 Office No H-9370 |
|--------------------------------------------------------------------|
| LOCALITY |
| State |
| General Locality Felice Strait |
| Locality Vegas Islands to Ryus Bay |
| |
| 19 73 |
| CHIEF OF PARTY Michael H. Fleming |
| |
| LIBRARY & ARCHIVES |
| DATE September 6, 1978 |

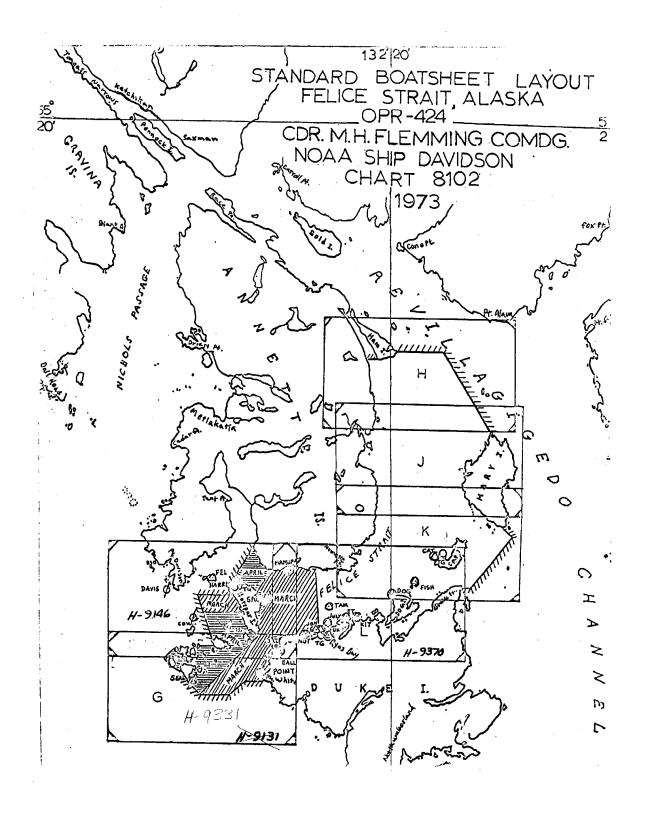
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| NOAA FORM 77-28 (11-72) | U.S. DEPARTMEN | T OF COMMERCE | REGISTER NO. |
|------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------|----------------------------------|
| | HYDROGRAPHIC TITLE SHEET | | H-9370 |
| INSTRUCTIONS - filled in as comple | The Hydrographic Sheet should be accompanie etely as possible, when the sheet is forwarded | ed by this form, to the Office. | PIELD NO. DA-10-1-73 |
| Alas State | ka | | |
| General locality | Felice Strait | | |
| Locality | Vegas Islandsto Ryus Bay | | |
| Scale | 1:10,000 | Date of sur | March 8-April 19, 1973 |
| Instructions dat | December 5, 1972 | | |
| VesselN | OAA Ship DAVIDSON, Launch DA-1 | and DA-2 | |
| Chief of party_ | CDR M. H. Fleming | | |
| Surveyed by | LT Efrem Krisher, LT Ronald & | rozier, LT R | oger Hewitt |
| Soundings takes | ROSS a by echo sounder, hand load folk Rays | theon DE 723 | odel 544, S/N 1053 , S/N 214 |
| Graphic record | scaled byDAVIDSON_personnel | | |
| Graphic record of | hecked by <u>DAVIDSON personnel</u> | | |
| Soundings | | | ted plot by PMC Xynetics Plotter |
| | Dennis L. Duffy | | |
| Soundings in | fathoms at MAN MLLW_ | • | |
| REMARKS: | | | |
| | This survey is incomplete. | | |
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| | perlud to | stds 2 | 2/23/79 |
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NOAA FORM 77-28 SUPERSEDES FORM C&G\$-537.



DESCRIPTIVE REPORT

H-9370

DA-10-1-73

WESTERN FELICE STRAIT

A. PROJECT

This survey was accomplished in accordance with Project Instructions OPR-424-DA-73, Felice Strait, Southeast Alaska dated December 5, 1972, Supplement to Instructions dated December 21, 1972 and the PMC OP ORDERS.

B. AREA SURVEYED

The area surveyed is the western portion of Felice Strait, from 131° 24'30"W to 13)° 28'30" W. This survey junctions with contemporary surveys H-9184 ($\frac{DA-73}{A}$) and H-9331 ($\frac{DA-73}{A}$). The prior surveys for the area are H-3717 and H-3781. The survey was accomplished during March and April 1973.

C. SOUNDING VESSELS

The following vessels were used to obtain data on this survey:

VESSEL

POSITION COLOR

Launch DA-1 Red Launch DA-2 Blue NOAA Ship DAVIDSON Brown

See Appendix for abstract of positions.

D. SOUNDING EQUIPMENT

| VESSEL | FATHOMETER # | ТҮРЕ |
|--------------------|--------------|-----------------|
| Launch DA-1 | 214 | Raytheon DE-723 |
| Launch DA-2 | 1053 | Ross 544 |
| NOAA Ship DAVIDSON | 1284 | Raytheon DE-723 |

Echo sounder corrections were determined from daily bar checks, phase comparisons and water conductivity measurements from a MARTEK metering system. As the phase error was less than 1/2% of the depth at the maximum (0.2 fathoms in 80 fathoms), it was not compensated for on the TRA/TC/TI corrector tape.

D. Continued

All soundings are in fathoms or fathoms and tenths. Soundings are referenced to MLLW using predicted tides for Tamgass Harbor and 120° W time meridian for the entire survey. See "Correction to Echo Sounders OPR-424 March-April 1973"

E. SMOOTH SHEET

The smooth sheet will be constructed and plotted by the Processing Division, Pacific Marine Center.

F. CONTROL

Motorola Mini-Ranger, a range-range line of sight system and standard visual three-point sextant fixes were used for control on this survey.
Ten signals were placed over triangulation, 14 signals were located photogrammetrically by shipboard personnel and two signals were located by ground methods. Miniranger transponders were located at the following positions:

| STATION | NUMBER | POSITION | ARC COLOR |
|-----------------|--------|--------------------------------------|-----------|
| DOG | 1 | Lat. 54°59.72'N Long. 131°19.93'W | Green |
| NUT | 2 | Lat. 54°58.15'N Long. 131°27.60'W | Red |
| NAMUR RM1, 1973 | 3 | Lat. 55°00.83'N Long. 131°27.30'W | Blue |

The position of NAMUR RMI was originally plotted incorrectly on the boatsheet by approximately lmm, and the arcs were plotted from this position. No attempt was made to replot the soundings and this should be considered during verification.

Miniranger calibration was accomplished using three point sextant fixes and check angles. For further information see "Miniranger Report OPR-424 March-April 1973".

G. SHORELINE

Shoreline features, ledges and reef areas were traced on to the boat- $\ensuremath{\nu}$ sheet from the following manuscripts:

| T 10450 | T-12460 |
|---------|---------|
| T-12458 | |
| T-12452 | T-12453 |
| T-12454 | T-12455 |
| T-12459 | |

Verification of the shoreline on T-12458 and T-12452 was carried out by shipboard personnel and covered in a separate report "Field Edit OPR-424-73. All applicable changes have been made to the boat sheet.

H. CROSSLINES

The percentage of crosslines to lines of sounding is 6%, 6.5nm compared to 117nm. Crosslines are in good agreement.

JUNCTIONS

Junction was made with H-9184 (-DA-73) to the west and H-9331 (DA-73) to the southwest. Agreement was good at all junctions.

J. COMPARISON WITH PRIOR SURVEY

A comparison was made with H-2717 (1914) and H-3781 (1915). Soundings were in good agreement considering the smaller scale, lack of developments and more primative methods with the following exceptions:

- 1. The 64 fathomsarea at 55° 00'N. 131°28.2'W shows a present depth of 58 fathoms with the present day 60 fathom curve 0.2'W of the prior survey indicating shoaling in the area. Chart present depths
- 2. In the channel between the Vegas Islands and Duke Island at 54° 58.03N, 131°,27.3′ W an 11 fathom area shows a present maximum depth of 10.2 fathoms indicating shoaling.

There were 2 numbered pre-survey review items and 14 dashed circle \smile items in the survey area:

- 1. Pre-survey review item 4, Sunken rock symbol charted at 55°00.59'N 131° 25.32'W. The shoalest sounding obtained was 2.8 fathoms at 55° 00.58'N, 131° 25.43'W.Delete charted submerged rock and chart 3.1 present survey depths
- 2. Pre-survey review item 11. Pile charted at 54°58. H, 131°25.0%. Due to a lack of time a complete investigation was not made. However, no evidence of the pile was seen during hydrography or field editing. See Verifier's Report-section VI-B
- 3. The least depth in the reported 17 fathom area was 17.7 fathoms at \sim 54°58.53', $131°27.\frac{95}{98}$ '.
- 4. The least depth in the reported 24 fathom area was 19.7 fathoms at $\omega > 54^{\circ}58.8\%$ 131° 27.0°.
- 5. The least depth in the reported 4-3/4 fathom area was 4.8 fathoms at 5800.35, $131^{\circ}27.25$.
- 6. The least depth in the reported 8 fathoms area was 8.9 fathoms at \sim 55°00.33', 131°25.22'.
- 7. The least depth in the reported 8 fathoms area was 5.5 fathoms at 55°00.12', 131° 25.35'.
- 8. The least depth in the reported 10 fathom area was 5. fathoms at 54° 59.45', 131°25.67'.

J. COMPARISON WITH PRIOR SURVEY (CONTINUED)

- 9. The least depth in the reported 5 fathom area was 4.8 fathoms at $54^{\circ}59.37'$, $131^{\circ}25.95'$.
- 10. The least depth in the 3-1/4 fathom area was 1.2 fathoms \sim at 54° 57.9', 131°25.7'.
- 11. No evidence of the 1-3/4 fathom shoal at $54^{\circ}58.12'$, 131° 25.45' was seen. However no development was made. 1.3 Sound
- 12. The least depth in the reported 17 fathom area was 7.0 fathoms at 54°58.287, 131°25.287.
- 13. The least depth in the reported 4-1/2 fathom area was 3.8 fathom at $54^{\circ}58.25^{\circ}$, $131^{\circ}25.27^{\circ}$.
- 14. The reported 1/4 fathom sounding was a rock bare1 ft. at 0 \times 0830 4/20/73 at 54°58.03', 131° 24.78'.(See T-12549)
- 15. The least depth in the reported 8 fathom area was $\frac{5.0}{4.7}$ fathom at 54°58.30', 131°24.98'.
- 16. The least depth in the reported 10 fathom area was 8.8 fathoms at 54° 58.02', Long. 131.24.98'.

K. COMPARISON WITH CHART

A comparison was made with chart 8075, 5th edition. \smile

All descrepancies have been covered in "Comparison with Prior u Survey" with the exception of the following:

The 7-1/2 fathom area at 54°58.38', 131°24.87' shows a least depth \sim of 6.05 fathoms.

L. ADEQUACY OF SURVEY

Hydrography is incomplete on that portion of the boatsheets urveyed with several developments remaining. The survey is adequate to supercede prior surveys.

M. AIDS TO NAVIGATION

One fixed aid, Ajax Reef Light, was located by resection and form 76-40 submitted. No other aids exist, fixed or floating with in the survey area.

N. STATISTICS

| | NO. OF | N.M. OF | B.S. | D.P.'s. |
|-----------------|-----------|----------------|------|---------|
| VESSEL | POSITIONS | SOUNDING LINES | | |
| NOAA Ship DAVII | OSON | | 28 | L |
| Launch DA-1 | 319 | 32.7 | | 3 |
| Launch DA-2 | 851 | 99.2 | 1 | |

Total area surveyed is 6.0 square nautical miles. There are 9 sounding and position tapes, 1 bottom sample tape, 1 D.P. tape, 2 TRA/TC/TI tapes, I velocity table tape, and I signal overlay tape.

O. MISCELLANEOUS

Data was logged in both the ASCII & BCD formats. Tapes 1,2,4 and 6 which were originally logged on DA-2's automatic logging system were relogged in BCD due to ship's personnel inexperience with the teletypes. In the relogging position information was logged only for the fixes and not onintermediate soundings as was logged on the on line tapes, with the exceptions of positions 608-734. These positions are the O curve on the north side of Felice Strait. Only the soundings on the positions were plotted due to the spacing . If intermediate soundings are required, the actual position data should be used rather than assuming straight lines between fixes due to the constant turning necessary to avoid reefs, rocks etc.

P. RECOMMENDATIONS

Pre-survey review item 11 should be further investigated. Necessary splits in the survey area and additional crosslines should be completed.

Q. REFERENCE TO REPORTS

Correction to Echo Soundings, OPR-424, 1973 Field Edit Report, OPR-424, 1973 Mini Ranger Report, OPR-424, 1973

Respectfully Submitted

Æfrem R. Krisher

LT, NOAA

APPENDIX

| Α | Tide Note |
|----------|---------------------------------------------------|
| √B | Abstract of Positions |
| С | List of Signals |
| D | Form 1 & 3 |
| ✓E | TRA/TC/TI Tape Printout, |
| F | Velocity Tables |
| G | Form 76-10 Ajax Reef Light |
| H / 1 | Approval Sheet Bottom Sediment data (Log Sheet M) |

1= Misc. items removed and filed in the cahier

TIDE NOTE

OPR-424

The reference tide gage for this project was the Standard gage located at the U.S. Coast Guard Base, Ketchikan, Alaska. Field tide reduction of soundings was based on predicted tides for Tamgas Harbor, Annette Island.

Three Bristol bubbler tide gages were installed in the project area. Location and period of operation were as follows:

| CAT ISLAND | 55°01'42"N 131°16'06"W | 8 Mar - 13 Apr 1973 37 Days |
|----------------|------------------------------------|--------------------------------|
| RYUS BAY | 54°57'48"N 131°25'18 " W | 5 Mar - 20 Apr 1973 47 Days |
| HOTSPUR ISLAND | 54°59'57"N 131°31'52"W | 2 Mar - 20 Apr 1973 50 Days |

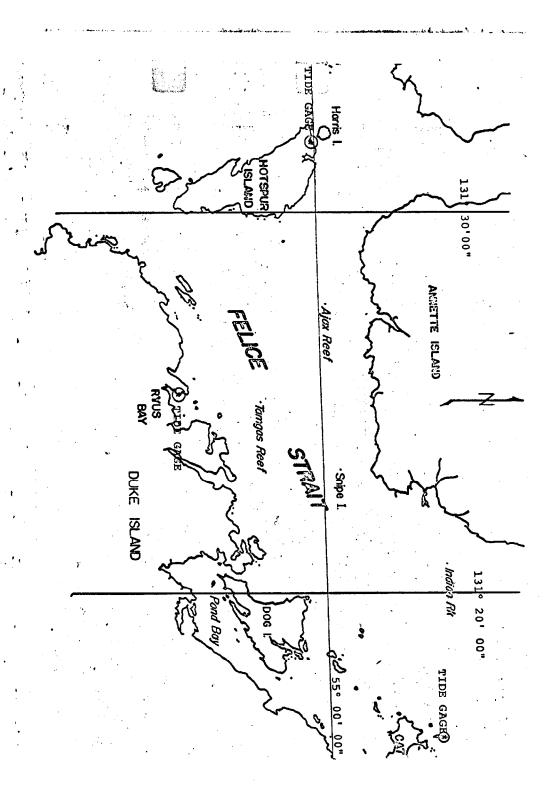
All gages operated on 120°W time for the duration of this project.

Marigrams were corrected for time and height variations. Wave action was meaned where ever possible.

| CAT | ISLAND | S/N 62A91; 0-30 ft range |
|-----|--------|-------------------------------------------|
| | | Five benchmarks connected on 8 March 1973 |
| | | Marigram reading 5.0' above staff zero |
| | | Gage removed 13 April 1973 |

| RYUS BAY | · | S/N 68A9337; 0-30 ft range |
|----------|-----|--------------------------------------------|
| | 141 | Three benchmarks connected on 6 March 1973 |
| | 9 | Marigram reading 7.0' above staff zero |
| | | Gage removed 20 April 1973 |

HOTSPUR ISLAND - S/N 64All028; 0-30 ft range Five benchmarks connected on 6 March 1973 Marigram reading 0.0' above staff zero Gage removed 20 April 1973



TABLES OF CORRECTIONS TO ECHO SOUNDERS OPR-424 1973 VELOCITY CORRECTION TABLES SURVEYS H-9184, H-9331, H-9370

Velocity Table 1 Fathometer #214 March 1973 (Launch DA-1)

| FROM | <u>.</u> | TO | | CORRECT | rion |
|------|----------|------|-----|---------|------|
| 0.0 | fm | 0.5 | fm | -0.2 f | Em |
| 0.6 | fm | 3.7 | fm | -0.1 1 | Em |
| 3.8 | fm | 63.0 | fm | 0.0 | Em |
| 63.1 | fm | Dee | per | 0.1 | fm |

Velocity Table 2 Fathometer #214 April 1973 (Launch DA-1)

| FROM | TO | CORRECTION |
|----------|---------|------------|
| 0.0 fm | 0.4 fm | -0.2 fm |
| 0.5 fm | 2.9 fm | -0.1 fm |
| 3.0 fm | 13.0 fm | -0.0 fm |
| 13.1 fm | 30.5 fm | 0.1 fm |
| 30.6 ofm | 47.6 fm | 0.2 fm |
| 47.7 fm | 61.2 fm | 0.3 fm |
| 61.3 fm | Deeper | 0.4 fm |

Velocity Table 3

Fathometer #1053 March 1973 (Launch DA-2)

| FROM | <u>TO</u> . | CORRECTION |
|--------|-------------|------------|
| 0.0 fm | 5.0 fm | -0.1 fm |
| 5.1 fm | 63.0 fm | 0.0 fm |
| 63.1 | Deeper | 0.1 fm |

Velocity Table 4

Fathometers #1053 and 1048 April 1973 (Launch DA-2)

| FROM | <u>1</u> | TO | | CORREC | CTION |
|------|----------|-------|----|--------|-------|
| 0.0 | fm | 4.0 | fm | -0.1 | £m |
| 4.1 | fm | 13.0 | fm | 0.0 | fm |
| 13.1 | fm | 30.5 | fm | 0.1 | fm |
| 30.6 | fm | 47.6 | fm | 0.2 | fm |
| | | | • | | |
| 47.7 | fm | 61.2 | fm | 0.3 | fm |
| 61.3 | fm | Deepe | er | 0.4 | fm |

| TAPE | rING |
|---------------------|----------|
| 10-1- H-9370 | |

| 313 067 1973 H-9370 | | | | SIGNAL TA | | STING | |
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APPROVAL SHEET

HYDROGRAPHIC SURVEY

DA-10-1-73

H-9370

OPR-424-DA-72

Western Felice Strait

The field work on this survey was accomplished under my supervision. Frequent inspections were made of the boatsheet and the sounding records.

Michael H. Fleming Commander, NOAA Commanding Officer NOAA Ship DAVIDSON CSS-31

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ALMINISTRATION NATIONAL OCEAN SURVEY

TIDE NOTE FOR HYDROGRAPHIC SHEET

Processing Division: Pacific Marine Center:

Hourly heights are approved for Form 362

Tide Station Used (NOAA Form 77-12): Ryus Bay

Period: March 5 - April 20, 1973

HYDROGRAPHIC SHEET: H9370

OPR: 424

Locality: Felice Strait, Southeast Alaska

Plane of reference (mean lower low water): 7.1 ft.

Height of Mean High Water above Plane of Reference is 13.9 ft.

Remarks: Zone direct.

James R Hubband for Chief, Tides Branch

| NOAA FORM 76-155 (11-72) | NATION | AL O | GEANIC | | | | OMMERCE | SUR | VEY NU | MBER | |
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Cens. BK. Myers 671/4/18

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REGISTRY NO.

PACIFIC MARINE CENTER VERIFIER'S REPORT

<u>REGISTRY NO: H-9370</u> <u>FIELD NO: DA-10-1-73</u>

Alaska, Felice Strait, Vegas Islands to Ryus Bay

SURVEYED: March 8-April 19, 1973

<u>SCALE:</u> 1:10,000 PROJECT NO: OPR-424

<u>SOUNDINGS:</u> Raytheon Fathometer <u>CONTROL:</u> Range-Range

Ross Fineline Fathometer Mini-Ranger - Visual

LT R. Hewitt
Automated plot by......Xynetics Plotter (PMC)

I. INTRODUCTION

H-9370 is an incomplete basic survey conducted from March 8 to April 19, 1973 by the DAVIDSON. The area surveyed is in Felice Strait from Vegas Islands to Ryus Bay, Alaska. Since completion of this survey is not planned in the foreseable future, the 1973 data has been verified and is forwarded for chart application.

Unusual problems encountered in the verification of H-9370 are documented in applicable sections of this report.

Projection parameters used to prepare the boatsheets have been revised to center hydrography on the smooth sheet. Parameters used by PMC and appended in the smooth printout. All correctors used to plot and reduce soundings on H-9370 can be located in the smooth printout.

II. CONTROL AND SHORELINE

Horizontal control is adequately described in Section F of the Descriptive Report.

The following unreviewed manuscripts, with their respective dates of photography and field edit (where applicable) were used for this survey:

T-12452 Class I 1963, 69-73 T-12458 Class I 1969, 70-73 T-12453 Class III 1969, 70-73

(See Q.C. Report-item 1)

III. **HYDROGRAPHY**

- A. Crosslines are in generally good agreement, within one fathom in most areas.
- B. Standard depth curves could be adequately drawn in the completed portion of this survey except in congested areas near the shoreline and reefs. No attempt was made to contour the two sounding lines extending eastward of main scheme hydrography at Latitudes 54°59'10"N and 55°00'10"N on the shoreline east of Longitude 131°24'47"W. (See Q.C. Report-item 2)

Ledge limits were extended seaward to coincide with the O fathom curve in most cases. Minus sounding falling inside ledge limits were put into excess.

C. Basic hydrography is adequate to delineate bottom configurations and determine least depths. There were no major difficulties encountered in the verification of main scheme hydrography. (See Q.C. Report-item 3)

There were 29 bottom samples taken in this survey.

IV. CONDITION OF SURVEY

With the following exceptions, hydrographic records, overlays, smooth sheet and reports and adequate and conform to requirements of the Provisional Hydrographic Manual:

- $\frac{A}{a}$) An initial corrector was erroneously applied to the TC-TI tape to adjust sounding values digitized by the Ross Fathometer on Launch DA-2.
- $\overset{b}{\not{b}}$) The ship did not make recommendations for disposal of Pre-Survey Review items.
- C) (See Q.C. Report-item 3)
 V. JUNCTIONS

This survey junctions to the west with H-9146, 1:10,000 (1972-73). Soundings and depth curves are in very good agreement and the junction note is inked. (See Q.C. Report-item 5)

Junction was also accomplished to the southwest with H-9331, 1:10,000 (1972). Depth curves and soundings agree well and the junction note is inked.

There are no contemporary surveys to the east of the completed portion of H-9370.

VI. COMPARISON WITH PRIOR SURVEYS

H-3717 (1914) 1:20,000 H-3781 (1915) 1:20,000 H-3781A (1915) 1:10,000 Vary by \pm vis-4-vis Soundings on H-9370-are generally,1 to 2 fathoms shoaler than those on the prior surveys. The most serious discrepancies are pre-survey review items and are discussed subsequently on this section of this report.(See Q.C. Report-item 6)

Several soundings, rocks awash and a submerged rocks note disproven by H-9370 were transferred from the prior surveys.to supplement hydrography on H-9370.

With the above additions, H-9370 is adequate to supersede prior surveys in common areas of hydrography.

B. H-3708 WD (1914) 1:20,000

(Scc Q.C. Report-Item 7)

The only item charted from H-3708 is PSR item #4, a submerged rock charted at 55°00.59'N, 131°25.32'W. No specific investigation was made source document and to verify or disprove this item. Thus it was transferred to H-9370 imprecedly positioned on the in green ink. Retention in the chart is recommended. The charted submerged rock is considered discredited. It should be deleted from the chart and present survey depths should be charted.

PSR #11 "Pile" charted at 54°58.1½'N, 131°25.03'W.

This pile originated with H-3781A and was not investigated on H-9370. It is recommended that the pile be retained on the chart. (See Q.C. Report-item 8)

The following is a list of the dashed circle PSR items for the completed portion of H-9370: (See QC. Report-item 7)

| 24 54°58'48"N, 131°27'02"W H-3781 19.7 54°58'50 | 5"N, 131°27'59.6"W 5"N, 131°27'06.5"W |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8 55°00'20"N, 131°25'21"W H-3717* 9.0 55°00'20 8 55°00'12"N, 131°25'29"W H-3717 5.6 55°00'06 10 54°59'25"N, 131°25'42"W H-3717 5.4 54°59'27 5 54°59'18"N, 131°25'18"W H-3717 4.8 54°59'20 3 1/4 54°57'55"N, 131°25'46"W H-3781A 1.4 54°57'54 1 3/4 54°58'07"N, 131°25'29"W H-3781A* 1.3 54°58'07 17 54°58'55"N, 131°25'36"W H-3781A 12.8 54°58'55 4 1/2 54°58'15"N, 131°25'31"W H-3781A 3.7 54°58'15 1/4 54°58'02"N, 131°24'47"W H-3781A Rock 54°58'02 8 54°58'20"N, 131°25'06"W H-3781A Ayash 54°58'18 | 7"N, 131°27'16.4"W 5"N, 131°25'13.0"W 8"N, 131°25'21.5"W 5"N, 131°25'41.4"W 9"N, 131°25'41.9"W 3"N, 131°25'41.9"W 1"N, 131°25'37.6"W 3"N, 131°25'28.9"W 0"N, 131°25'08.9"W 5"N, 131°24'58.7"W |

Soundings denoted with an asterisk in the "Source" column in the preceding table were carried forward to H-9370 at the prior survey depth converted to fathoms and tenths. It is recommended that the remainder of the dashed circle PSR items be superseded by H-9370.

VII. COMPARISON WITH CHART

C&GS 8074, 11th Ed., Nov. 28, 1970, 1;40,000 C&GS 8075, 5th Ed., May 13, 1972, 1:80,000 and Ryus Bay Inset 1:20,000

A. Hydrography

The source was determined for most charted features and are designated as follows on the attached chartlets: (Chart sections removed during Q.C. Inspection)

| Black | H-3708 WD | (1914) (1914) |
|-------|-----------|------------------|
| Red | H-3717 | (1914) |
| Green | H-3781 | (1915) |
| Blue | H-3781A | (1915) |
| (C D | Λ D | • |

Because charted hydrography was identified as originating with prior surveys, discrepancies have been disposed of in Section VI, "Comparison with Prior Surveys". It is recommended that H-9370 supersede charted hydrography.

B. Controlling Depths

There are no controlling depths charted in the H-9370 survey area.

C. Aids to Navigation

Charted aids in the survey area adequately mark the features for which they are intended. NOAA Form 76-40 locating Ajax Reef Light is included in the Descriptive Report.

VIII. COMPLIANCE WITH PROJECT INSTRUCTIONS

The completed portion of this survey adequately complies with Project Instructions dated 5 December 1972, Change 1 dated 21 December 1972 and Change 2 dated 22 March 1973.

IX. ADDITIONAL FIELD WORK

This survey is considered a good basic survey. No additional field work is recommended at this time. When returning for further work in this area, the existing project layout should be modified for junction with this survey, as the data submitted is complete for the area surveyed.

Respectfully submitted,

Denni Woulfy

Dennis L. Duffy

Cartographic Technician

February 9, 1978

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Examined and approved,

Chief, Verification Branch

APPROVAL SHEET

FOR

SURVEY H- 9370

- A. All revisions and additions made on the smooth sheet during verification have been entered in the magnetic tape records for this survey. A new final position print-out has been made. A new final sounding print-out has been made.
- B. The verified smooth sheet has been inspected, is complete, and meets the requirements of the Hydrographic Manual.

 Exceptions are listed in the verifier's report.

| Date: | 7/18/28 | | 1 00 |
|-------|---------|---------|----------------------------|
| | | Signed: | .f & Ch. |
| | | Title: | Chief, Verification Branch |

RECEIVED

JUL 5 1 1978



U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration Pacific Marine Center, 1801 Fairview Ave. E. Seattle, WA 98102

PACIFIC MARINE CENTER

DATE: 28 July 1978

TO: Eugene A. Taylor

Director, Pacific Marine Center

FROM: Glen R. Schaefer

Chief, Processing Division

SUBJ: PMC Hydrographic Inspection Team Report for Survey H-9370

This survey is a basic hydrographic survey of Vegas Islands to Ryus Bay, Felice Strait, Alaska. This survey was conducted by NOAA Ship DAVIDSON in 1973 in accordance with Project Instructions OPR-424-DA-73 dated 5 December 1972 and Change Nos. 1 and 2 dated 21 December 1972 and 22 March 1973, respectively.

It is recommended that future Project Instructions for the area in Felice Strait east of H-9370, include instructions to more fully portray the bottom in the area between Latitude 54°59'00"N and 55°00'30"N, east of Longitude 131°25'45"W, specifically in depths less than eleven fathoms. Also these instructions should include an investigation of the sunken rock at Latitude 55°00.59'N and Longitude 131°25.32'W.

The inspection team finds H-9370 to be a good basic survey adequate to supersede common areas of prior surveys and charted hydrography. Administrative approval is recommended.

Glen R. Schaefer

_1/ 1/1/1

James W. Steensland





ADMINISTRATIVE APPROVAL H-9370

The smooth sheet and reports of this survey have been examined and the survey is adequate for charting and to supersede common areas of prior surveys.

Eugene A. Director

Pacific Marine Center



UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL OCEAN SURVEY Rockville, Md. 20852

C352/KWW

October 16, 1978

24 Carolis A. J. Patrick

Chief, Marine Surveys Division

THRU:

Chief, Quality Control Branch

FROM:

K. W. Wellman R. W. Wellman

Quality Evaluator

SUBJECT:

Quality Control Report for H-9370 (1973), Alaska, Felice

Strait, Vegas Islands to Ryus Bay

A quality control inspection of H-9370 was accomplished to monitor the survey for obvious deficiencies with respect to data acquisition, delineation of the bottom, determination of least depths and navigation hazards, junctions, shoreline transfer, decisions and actions by the verifier, and cartographic presentation of data.

In general, the present survey was found to conform to National Ocean Survey standards and requirements except as discussed in the Verifier's Report, the HIT Report, and as follows:

1. Reference section II of the Verifier's Report:

Section 7.3.4 of the Hydrographic Manual requires that only class ${f I}$ shoreline manuscripts are to be used as source for shoreline and topographic detail shown on the smooth sheet. The reasons for any departure from the accepted practice should be discussed in the Verifier's Report. No such discussion is included in the referenced section of the Verifier's Report.

Section II of the Verifier's Report is supplemented by the following:

The indicated class III shoreline manuscripts comprise the latest available coverage of the respective areas of the present survey. The shoreline in the areas of the class III manuscripts is shown on the present smooth sheet in pencil for orientation purposes only since it is subject to revision during subsequent processing of the topographic manuscripts.

2. Reference section III-B of the Verifier's Report:

Appropriate depth curve segments should have been inked in the vicinities of the two sounding lines discussed in the referenced section of the



Verifier's Report. Appropriate segments of depth curves were added during quality control inspection.

- 3. Sections III-C and IV of the Verifier's Report are supplemented by the following:
- C. Numerous isolated shoal indications were not developed during field work in the area. (See sections 1.4.3 and 4.5.9 of the Hydrographic Manual--Fourth Edition.)
- 4. When information carried forward from a prior survey displaces a corresponding least depth on the present survey, a note and leader indicating the excessed present survey sounding and position should be lettered on the smooth sheet. (See section 6.3.7.3 of the Hydrographic Manual--Fourth Edition.) Appropriate lettering was added to the smooth sheet during quality control inspection.
- 5. Reference section V of the Verifier's Report:

The comments pertaining to the junction with H-9146 (1972-73) are considered misleading. In order to consider a junction complete, it is necessary to reconcile the affected depth curves and to ink the junctional note on both smooth sheets. Completion of the required procedures was not accomplished during verification. In addition, the referenced section of the Verifier's Report should have included comments pertaining to the additional work necessary to complete the junction. (See the memorandum dated March 21, 1977, from the Office of Marine Surveys and Maps entitled "Verifier's Report Format.") An adequate junction with H-9146 (1972-73) on the west was effected during quality control inspection.

6. Reference section VI-A of the Verifier's Report:

The text of the referenced section is lacking any indication of the probable cause(s) of the noted depth differences. (See section 6.6 (11) of the Hydrographic Manual--Fourth Edition.)

Section VI-A of the Verifier's Report is supplemented by the following:

Scattered indications of present depths as much as 5 fathoms shoaler than prior depths were noted in general depths exceeding 30 fathoms. The noted depth differences are attributed to natural causes and to the less detailed and less accurate methods employed on the prior surveys.

7. Reference section VI-B of the Verifier's Report:

There is no indication that a comparison between the present survey and H-3708 WD was actually accomplished. Further, the listing of dashed-circled

mill.

Presurvey Review items in the referenced section is superfluous since the items are discussed in section J of the Descriptive Report. (See the memorandum dated March 21, 1977, from the Office of Marine Surveys and Maps entitled "Verifier's Report Format.")

Section VI-B of the Verifier's Report is supplemented by the following:

There are no conflicts between present depths and cleared wire-drag depths.

8. Section VI-B of the Verifier's Report (Presurvey Review item 11) is supplemented by the following:

Kyusting V The referenced pile falls on the edge of a ledge on the present survey and is considered no longer extant. The chart should be revised to agree with the present survey.

9. Section VII-A of the Verifier's Report is supplemented by the following:

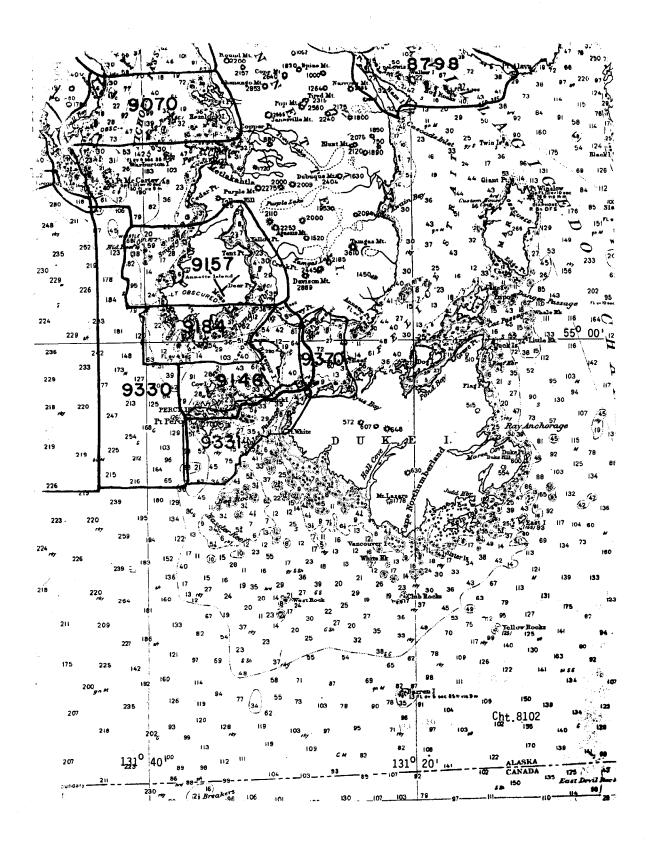
Attention is directed to the following:

- ed 1 (1) The rock awash charted in the vicinity of latitude 54°57.95', longitude 131°25.95' originates with H-3717 (1914). The rock is plotted in error on the source document and should be deleted from the chart.
- (2) The rock awash charted in the vicinity of latitude $55^{\circ}00.74'$, longitude $131^{\circ}27.25'$ originates with T-3472 (1914). It is one of three rocks shown on the source document which are considered to be plotted in error. The referenced rock is discredited by the present survey and should be deleted from the chart.

cc:

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| (3-25-6 | 3) | | |

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

9370

INSTRUCTIONS

- A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

 1. Letter all information.

 2. In "Remarks" column cross out words that do not apply.

 3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

| CHART | DATE | CARTOGRAPHER | REMARKS &C |
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| 17434 | 3/4/29 | Raitor | Full Part Before After Verification Review Inspection Signed Via |
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