**NOAA FORM 76-35**

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

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Shoreline (Photogrammetric)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Job No.</td>
<td>PH-6206</td>
</tr>
<tr>
<td>Map No.</td>
<td>T-12222</td>
</tr>
<tr>
<td>Classification No.</td>
<td></td>
</tr>
<tr>
<td>Edition No.</td>
<td></td>
</tr>
<tr>
<td>Field Edited</td>
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**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>Alaska</th>
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<tbody>
<tr>
<td>General Locality</td>
<td>Kaku Strait</td>
</tr>
<tr>
<td>Locality</td>
<td>Alvin Bay Mouth</td>
</tr>
</tbody>
</table>

1961 TO 1971

Alfred C. Holmes, Director, AMC

**REGISTRY IN ARCHIVES**

| DATE |                             |

* U.S. GOVERNMENT PRINTING OFFICE: 1972-760-599
MAP NOT INSPECTED IN QUALITY CONTROL PRIOR TO REGISTRATION
PROJECT NO. (III):
PH-6206

FIELD OFFICE (III):
None

PHOTOGRAMMETRIC OFFICE (III):
Atlantic Marine Center, Norfolk, VA

CHIEF OF PARTY

OFFICER-IN-CHARGE
Alfred C. Holmes, Director, AMC

INSTRUCTIONS DATED (II) (III):
OFFICE SUPPLEMENT III December 19, 1967
OFFICE IV April 14, 1970
OFFICE INSTRUCTIONS January 18, 1965
FIELD INSTRUCTIONS February 11, 1967

METHOD OF COMPILATION (III):
Wild B-8 and Graphic

MANUSCRIPT SCALE (III):
1:10,000

STEREOGRAPHIC PLOTTING INSTRUMENT SCALE (III):
1:20,000 Pantographed To 1:10,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):
Sep 4, 1975

GEOGRAPHIC DATUM (III):
N.A. 1927

REFERENCE STATION (III):
DAL, 1929

LAT.: 56°26'28.828"

LONG.: 133°53'51.162"

ADJUSTED

UNADJUSTED

PLANE COORDINATES (IV):

y = 1,683,193.76 Ft. x = 2,638,925.47 Ft.

STATE
Alaska

ZONE
1

This form has been filled out with the following details:

- Project No.: PH-6206
- Officer-in-Charge: Alfred C. Holmes, Director, AMC
- Instructions Dated: December 19, 1967 (Office Supplement III), April 14, 1970 (Office IV), January 18, 1965 (Office Instructions), February 11, 1967 (Field Instructions)
- Method of Compilation: Wild B-8 and Graphic
- Manuscript Scale: 1:10,000
- Stereographic Plotting Instrument Scale: 1:20,000 pantographed to 1:10,000
- Geographic Datum: N.A. 1927
- Reference Station: DAL, 1929
- Plane Coordinates: y = 1,683,193.76 Ft., x = 2,638,925.47 Ft., State: Alaska, Zone: 1.
# DESCRIPTIVE REPORT - DATA RECORD

## T-12222

**FIELD INSPECTION BY (III):**
None

**MEAN HIGH WATER LOCATION (III): (STATE DATE AND METHOD OF LOCATION):**

- Air Photo Compilation
  - Date of Photography: August 5 & 24, 1969

**PROJECTION AND GRIDS RULED BY (IV):**

<table>
<thead>
<tr>
<th>Name</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>J. Dempsey</td>
<td>April 10, 1970</td>
</tr>
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</table>

**PROJECTION AND GRIDS CHECKED BY (IV):**

<table>
<thead>
<tr>
<th>Name</th>
<th>Date</th>
</tr>
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<tbody>
<tr>
<td>E. Homick</td>
<td>April 10, 1970</td>
</tr>
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</table>

**CONTROL PLOTTED BY (III):**
Coradomat

**CONTROL CHECKED BY (III):**
Coradomat

**RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):**

<table>
<thead>
<tr>
<th>Name</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robert Fisher</td>
<td>Feb. 19, 1970</td>
</tr>
</tbody>
</table>

**STEREOSCOPIC INSTRUMENT COMPILATION (III):**

- PLANIMETRY By: L.O. Neterer, Jr.
  - Reviewed By: R. White & A. Shards
  - Date: Aug. 18, 1970

**CONTOURS**

<table>
<thead>
<tr>
<th>Inapplicable</th>
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**MANUSCRIPT DELINEATED BY (III):**

<table>
<thead>
<tr>
<th>Name</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>B. Wilson</td>
<td>Sept. 18, 1970</td>
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**SCRIBING BY (III):**

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Frank Margiotta</td>
<td>5/1/72</td>
</tr>
</tbody>
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**PHOTOGRAHMETRIC OFFICE REVIEW BY (III):**

<table>
<thead>
<tr>
<th>Name</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>L.L. Graves</td>
<td>Oct. 6, 1970</td>
</tr>
</tbody>
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**REMARKS:**

- 

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###Photographs (III)

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>69-E-(c)-1946</td>
<td>Aug. 24, 1969</td>
<td>12:54</td>
<td>1:40,000</td>
<td>+8.8</td>
</tr>
<tr>
<td>69-E-(c)-976 &amp; 977</td>
<td>Aug. 5, 1969</td>
<td>12:15</td>
<td>&quot;</td>
<td>+4.3</td>
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<tr>
<td>61-W-(p)-9447 thru 9450</td>
<td>July 16, 1961</td>
<td>9:23</td>
<td>1:20,000</td>
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<tr>
<td>61-W-(p)-9439 thru 9441</td>
<td>&quot;</td>
<td>9:11</td>
<td>&quot;</td>
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<tr>
<td>61-W-(p)-9486</td>
<td>&quot;</td>
<td>9:50</td>
<td>&quot;</td>
<td>-0.5</td>
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###Predicted Tide (III)

<table>
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<tr>
<th>REFERENCE STATION:</th>
<th>Ketchikan, Alaska</th>
<th>RATIO OF RANGES</th>
<th>MEAN RANGE</th>
<th>SPRING RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUBORDINATE STATION:</td>
<td>Monte Carlo I, Alaska</td>
<td>10.3 12.5</td>
<td>13.0 15.4</td>
<td>13.0 15.4</td>
</tr>
</tbody>
</table>

Atlantic Marine Center

C.H. Bishop

DATE: April 1973

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III): 4

NUMBER OF BM(S) SEARCHED FOR (III): None

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): None

REMARKS:
<table>
<thead>
<tr>
<th>Compilation Complete Pending Field Edit</th>
<th>Sept. 1970</th>
<th>Superseded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field Edit Applied</td>
<td>July 1971</td>
<td>Superseded</td>
</tr>
<tr>
<td>Final Review</td>
<td>April 1973</td>
<td></td>
</tr>
</tbody>
</table>
SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12222

This 1:10,000 scale shoreline manuscript is one of 53 maps that comprise Project PH-6206, Keku Strait, Alaska. The project diagram indicates the location of T-12222 in the project.

There was no field work before compilation, except the identification of horizontal control for aerotriangulation. No identified station was within the limits of this map. Compilation was by Wild B-8 plotter with control based on a stereoplanigraph bridge using color photographs taken in August 1969. Panchromatic photographs taken in July 1961 near low water were used to compile graphically the mean lower low water line, rocks, and reefs. Stable transparent copies of the map manuscript, ozalids, and specially prepared photographs were furnished for transfer of shoreline to the boat sheet, location of photo-hydro signals, and field edit.

Field edit was done by the Ship DAVIDSON in 1971. After application of field edit data to the map, it was scribed and reproduced on cronaflex.

Final review was done at the Atlantic Marine Center in April, 1973.

The compilation manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 5 minutes in longitude.

A cronaflex copy of the final reviewed manuscript and a negative were forwarded for record and registry.
FIELD INSPECTION REPORT

Project PH-6206

T-12222

There was no field inspection prior to compilation.
21. **Area Covered**

This project covers areas in the vicinity of Keku Strait - Kului Island, Alaska. T-sheets covered are as follows:

- T-12203 thru T-12225
- all T-sheets are at 1:10,000 scale

22. **Method**

Five strips were bridged to provide horizontal positions of pass points needed for compilation. Strip #12 was bridged in two parts, 12a and 12b, because of open water. Strip #14 was not bridged due to satisfactory pass point coverage from Strips 13, 15 and 16.

Strip #11 was bridged on the C-5. Strips 12a, 12b, 13, 15 and 16 were bridged on the C-8. All were adjusted by electronic computer.

Strip #11 used seven control points and a tie point in a third degree adjustment.

Strip #12a used a first degree adjustment with two control points. One tie point was available for a check.

Strip #12b used a third degree adjustment with five control points.

Strip #13 used three control points in a second degree adjustment.

Strips 15 and 16 used four control points in third degree adjustments.

All pass points, except one in Strip #16, were drilled. Corresponding tie point values were averaged.

This project was tied through common control stations with the 1966 project in this area.
23. Adequacy of Control

Horizontal control was adequate in all strips. However, station "SPIT 1927" and its subpoint appearing in both Strip #11 of this project and in Strip #1 of the adjacent "Sumner Strait" project had residual errors on the order of 15 feet in X. These errors were similar in direction and magnitude for both points and in both strips. The reason for not obtaining a better check with these points is not known.

Many control stations in this project were recovered in 1965 and pricked on 1964, 1:20,000 scale photography. The 1970 bridge was run with new 1:40,000 scale photography, therefore, much of the old control was not visible in these bridges. All 1969 identified control used in this project was targeted.

The RMS errors in fit to control for the 1969 identified control, (except "SPIT 1927") and including the 1965 identified control "ALL 1927" and "GEN 1927" were 2.5 feet in X and 1.2 feet in Y. The maximum errors were 6.8 feet in X and 3.3 feet in Y.

24. Supplemental Data

U. S. Geological Survey quadrangles were used to provide elevations for vertical adjustment of the bridges.

25. Photography

Photography was satisfactory with regards to coverage, overlap and definition.

Submitted by,
Robert E. Fisher
Cartographer (Photo)

Approved and forwarded,
Henry P. Eichert
Chief, Aerotriangulation Section
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION</th>
<th>LATITUDE OR Y COORDINATE</th>
<th>DISTANCE FROM GRID OR PROJECTION LINE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>LONGITUDE OR X COORDINATE</td>
<td>IN METERS (1 FT = 3048000 meter)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>FORWARD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>N.A., 1927</td>
<td>1102.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>56° 29' 35.654&quot;</td>
<td>(753.1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>133° 53' 56.498&quot;</td>
<td>1653.4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>58° 29' 53.453&quot;</td>
<td>(202.5)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>133° 52' 30.355&quot;</td>
<td>519.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(507.4)</td>
</tr>
</tbody>
</table>
31. **DELINEATION**

The Wild B-8 plotter was used with color photography of August, 1969 for compilation of the shoreline. The foreshore, MLW line, and offshore details were compiled graphically, using low water photography taken in July, 1961.

There was no field inspection prior to compilation.

The 1969 photography, was poor in definition due to the large ratio of enlargement. The 1961 photographs (which did not cover Alvin Bay) were difficult to tie to the 1969 photographs because they were of very poor scale and tilt was in evidence.

32. **CONTROL**


33. **SUPPLEMENTAL DATA**

None

34. **CONTOURS AND DRAINAGE**

Contours are inapplicable.

Drainage has been delineated from office interpretation of the photographs.

35. **SHORELINE AND ALONGSHORE DETAILS**

The shoreline and all alongshore details were delineated from office interpretation of the photographs.

36. **OFFSHORE DETAILS**

No statement.

37. **LANDMARKS AND AIDS**

None
38. **CONTROL FOR FUTURE SURVEYS**  
None

39. **JUNCTIONS**  
Satisfactory junctions were made with T-12221 to the west, T-12218 to the north, T-12223 to the east, and T-10707 (PH-5702) to the south.

40. **HORIZONTAL AND VERTICAL ACCURACY**  
No statement.

46. **COMPARISON WITH EXISTING MAPS**  
Comparison has been made with USGS Quadrangle PETERSBURG (B-6), ALASKA, scale 1:63,360 dated 1948.

47. **COMPARISON WITH NAUTICAL CHARTS**  

**ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY**  
None

**ITEMS TO BE CARRIED FORWARD**  
None

Respectfully submitted:

Charles H. Bishop

for B. Wilson  
Cartographic Technician  
Sept. 21, 1970
Approved for forwarding:

Melvin J. Umbeck
CDR, NOAA
Chief, Coastal Mapping Division, AMC

Approved:

Alfred C. Holmes
RADM, NOAA
Director, Atlantic Marine Center
August 28, 1972

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-6206

T-12222

Alvin Bay
Conclusion Island
Kern Strait
Kuiu Island
No Name Bay

Approved by:  
A. Joseph Wright
Chief Geographer

Prepared by:  
F.W. Pickett (GA/W)
Frank W. Pickett
Cartographic Technician
The area south and east of latitude 56° 29' 00" and longitude 133° 51' 30" to latitude 56° 25' 15" and longitude 133° 50' 00" should be investigated for rocks or dangers as shown on chart 8201.

These rocks shown on the manuscript are only approximate positions and it is believed others exist within the area.
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<tr>
<th>1. PROJECTION AND GRIDS</th>
<th>2. TITLE</th>
<th>3. MANUSCRIPT NUMBERS</th>
<th>4. MANUSCRIPT SIZE</th>
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<tr>
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**CONTROL STATIONS**

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<th>5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY</th>
<th>6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)</th>
<th>7. PHOTO HYDRO STATIONS</th>
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**ALONGSHORE AREAS (Nautical Chart Data)**

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<tr>
<th>12. SHORELINE</th>
<th>13. LOW-WATER LINE</th>
<th>14. ROCKS, SHOALS, ETC.</th>
<th>15. BRIDGES</th>
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<tr>
<th>16. AIDS TO NAVIGATION</th>
<th>17. LANDMARKS</th>
<th>18. OTHER ALONGSHORE PHYSICAL FEATURES</th>
<th>19. OTHER ALONGSHORE CULTURAL FEATURES</th>
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<tbody>
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**PHYSICAL FEATURES**

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<th>20. WATER FEATURES</th>
<th>21. NATURAL GROUND COVER</th>
<th>22. PLANETABLE CONTOURS</th>
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<tr>
<th>23. STEREOSCOPIC INSTRUMENT CONTOURS</th>
<th>24. CONTOURS IN GENERAL</th>
<th>25. SPOT ELEVATIONS</th>
<th>26. OTHER PHYSICAL FEATURES</th>
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**CULTURAL FEATURES**

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<tr>
<th>27. ROADS</th>
<th>28. BUILDINGS</th>
<th>29. RAILROADS</th>
<th>30. OTHER CULTURAL FEATURES</th>
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**BOUNDARIES**

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<th>32. PUBLIC LAND LINES</th>
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**MISCELLANEOUS**

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<tr>
<th>33. GEOGRAPHIC NAMES</th>
<th>34. JUNCTIONS</th>
<th>35. LEGIBILITY OF THE MANUSCRIPT</th>
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<tr>
<th>36. DISCREPANCY OVERLAY</th>
<th>37. DESCRIPTIVE REPORT</th>
<th>38. FIELD INSPECTION PHOTOGRAPHS</th>
<th>39. FORMS</th>
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<tr>
<th>40. REVIEWER</th>
<th>SUPERVISOR, REVIEW SECTION OR UNIT</th>
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</thead>
<tbody>
<tr>
<td>L.L. Graves</td>
<td>Oct. 6, 70 A.C. Rauck, Jr.</td>
</tr>
</tbody>
</table>

**REMARKS (See attached sheet)**

**FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT**

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

**COMPILER**

<table>
<thead>
<tr>
<th>SUPERVISOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. Wilson</td>
</tr>
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**REMARKS**

Field Edit Applied From: Field Edit Ozalid; Photos 61-W-9448 and 9452.
FIELD EDIT REPORT
SOUTH KEKU STRAIT
SOUTHEAST ALASKA
CPR - 446
APRIL 1971

INTRODUCTION

Field edit reports are attached for the following T-sheets:

T-12214  Mouth of Three Mile Arm
T-12215  Head of Three Mile Arm
T-12217  Keku Strait - No Name Bay
T-12218  Seclusion Harbor
T-12219  Monte Carlo Island
T-12221  No Name Bay
T-12222  Alvin Bay
T-12223  West End of Conclusion Island

Inspection for field edit of the shoreline, the foreshore and the offshore areas were performed in April and May 1971 by the NOAA Ship DAVIDSON's personnel with the assistance of Mr. Lowell G. Weeter Jr. from the photogrammetry branch of the Atlantic Marine Center in Norfolk.

Notes have been made on the field photographs and have been cross referenced on the field edit ozalids by photograph number. All times are on the 105° W Meridian. Reports for each individual sheet is enclosed.

Respectfully submitted,

Fidel T. Smith
LCDR. NOAA
FIELD EDIT REPORT
MAP T-12222
KSKU STRAIT
SOUTHEAST ALASKA
APRIL 1971

The field edit of map T-12222 was done by Lt.jg. Howard W. Herz with the assistance of Lowell O. Neterer Jr. Inspection was done on foot and from a small boat.

METHOD

The field photographs and a copy of the field edit ozalid were used in conjunction with the physical inspection of the area compiled on the map. The questionable areas were diligently inspected by occupying them and making the necessary comments on the field edit ozalid. The MHWL was closely inspected visually and appears correct as shown. The 61-W photographs were very good for showing the low water limits. The foul areas are foul with kelp which holds floating debris which is mistaken in many instances for rocks. Isolated rock, high points of ledges and ledge limits agreed well with the Boat Sheet DA-10-3-65. Notes have been made on the Field Edit Ozalid and cross-referenced to the proper photograph involved. All times are on 105° W meridian. Notes are on the following photographs:

61-W-9447
61-W-9448

ADEQUACY OF COMPILATION

Compilation of the map is very good. Hydrographic location of detail compares well with the photogrammetric location. Field edit of this map is complete.

RECOMMENDATIONS

It is recommended that this map be revised in accordance with the notes on the photographs and that the map be accepted as an advance manuscript.

Respectfully submitted,

Howard W. Herz
Lt.jg. NOAA

Lowell O. Neterer Jr.
Photogrammetrist
APPROVAL SHEET

Field Edit

South Keku Strait

Southeast Alaska

GPR - 448

April 1971

The field work on this edit was accomplished under my supervision.

Ray E. Moses

CDR. NOAA
Commanding Officer
NOAA Ship DAVIDSON
REVIEW REPORT T-12222

SHORELINE

April 23, 1973

61. GENERAL STATEMENT

See summary which is page 6 of this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A visual comparison was made with T-4330, 1:20,000 scale, dated Sept.-Oct. 1927. Part of the west side of Conclusion Island, the only area of T-12222 covered by T-4330, was in good general agreement. No significant differences were noted. T-12222 superseded all previous surveys for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A visual comparison was made with USGS Quadrangle PETERSBURG (B-6), ALASKA, 1:63,360 scale, dated 1948. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

North of Lat. 56° 28' 45" a comparison was made with a copy of the boat sheet for H-9214 (DA-10-2-71), scale 1:10,000, surveyed in 1971. Comparison was good; only two differences were noted on the comparison print.

South of Lat. 56° 28' 45" a comparison was made with Survey H-9101 (PA-10-3-65), scale 1:10,000 surveyed in 1965. There were numerous differences in shoreline, reefs, and ledges. Apparently the base map for these features was the preliminary survey compiled around 1965.

Differences between the hydrographic surveys and T-12222 are indicated on the comparison print in purple.

65. COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with Chart 8201, scale 1:217,828, 16th edition, dated November 7, 1970. No significant differences were noted. The scale was too small for adequate comparison.
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with job instructions and meets the requirements of the National Standards for Map Accuracy.

Reviewed by:

Charles H. Bishop
Cartographer

Approved for forwarding:

Melvin J. Umbach, CDR, NOAA
Chief, Coastal Mapping Division, AMC

Approved:

Alfred C. Holmes
RADM, NOAA
Director, Atlantic Marine Center

Approved:

Chief, Photogrammetric Branch    Chief, Coastal Mapping Division
Not on H-9214; not identifiable as kels on Photos 9151-53 and 70E 3058.

Reef awash MLLW

Not on H-9214

COMPARISON PRINT

Purple = H-9214
Brown = U.S.G.S.