**DESCRIPTIVE REPORT**

Type of Survey: SHORELINE (PHOTOGRAMMETRIC)

Field No.  Office No. T-12196

**LOCALITY**

State  Alaska  
General locality  Keku Strait  
Locality  Saginaw Bay

**1965-1968**

CHIEF OF PARTY  
Alfred C. Holmes, Director, AMC

**LIBRARY & ARCHIVES**

DATE
MAP NOT INSPECTED IN QUALITY CONTROL PRIOR TO REGISTRATION
DESCRIPTIVE REPORT - DATA RECORD

T - 12196

Job PH-6206

FIELD OFFICE (III): CHIEF OF PARTY

PHOTOGRAHMATIC OFFICE (III):
Photogrammetric Branch

OFFICER-IN-CHARGE
Alfred G. Holmes, RADM, NOAA
Director, AMC

INSTRUCTIONS DATED (II) (III):

January 18, 1965 OFFICE
November 26, 1965 OFFICE SUPPLEMENT I
March 18, 1966 OFFICE AMENDMENT I
June 8, 1966 OFFICE SUPPLEMENT II
May 11, 1965 FIELD
June 14, 1965 FIELD
January 21, 1965 FIELD

METHOD OF COMPILATION (III):
Wild B-8

MANUSCRIPT SCALE (III):
1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:8,333 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):
Sept. 4, 1925

GEOGRAPHIC DATUM (III):
N. A. 1927

REFERENCE STATION (III):
BITE 1966

LAT.: 56° 51' 26.03800" (805.1 ±)

LONG.: 134° 10' 43.811418" (742.5 ±)

PLANE COORDINATES (IV):
1,835 126.92 ft. x = 2,583 110.54 ft.

STATE: Alaska
ZONE: 1

VERITCAL DATUM (III):
MLW

EXCEPT AS FOLLOWS:
Elevations shown as (±) refer to mean high water
Elevations shown as (±) refer to sounding datum
i.e., mean lower low water

ADJUSTED
UNADJUSTED

NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (III) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE,
(IV) WASHINGTON OFFICE.

WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.
# DESCRIPTIVE REPORT - DATA RECORD

## Field Inspection
- **None**

## Mean High Water Location
- **Air photo compilation**
- **Date of photography:** July 29, 1965

## Projection and Grids Ruled
- **A. E. Roundtree**
- **Date:** 11-08-65

## Projection and Grids Checked
- **R. S. Kornspan**
- **Date:** 11-08-65

## Control Plotted
- **R. Smith**
- **Date:** 01-12-66

## Control Checked
- **C. H. Bishop**
- **Date:** 01-12-66

## Radial Plot or Stereoscopic Control Extension
- **G. M. Ball**
- **Date:** Nov. 1965

## Stereoscopic Instrument Compilation
- **Planimetry:**
  - **L. O. Neterer, Jr.**
  - **Reviewed:** K. G. Boyle
  - **Date:** 07-11-66

## Wild B-8
- **Inapplicable**

## Manuscript Delineated
- **L. O. Neterer, Jr.**
- **Date:** 07-14-66

## Scribing
- **F. P. Margiotta**
- **Date:** 06-27-68

## Photogrammetric Office Review
- **Compilation:** C. H. Bishop
- **Field Edit:** C. H. Bishop
- **Scribing & Stickup:** R. J. Pate
- **Date:** 07-21-66
- **Date:** 06-21-68
- **Date:** 06-28-68

## Remarks
- **Field Edit by:** - **Ship PATTON**
- **Date:** June 1967
**DESCRIPTIVE REPORT - DATA RECORD**

**CAMERA (KIND OR SOURCE) (III):**

Wild RC-9

**PHOTOGRAPHS (III):**

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tbody>
<tr>
<td>65-M-244 &amp; 245</td>
<td>7-29-65</td>
<td>0913</td>
<td>1:50,000</td>
<td>(from predicted tables)</td>
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<tr>
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<td>3.1 below MLLW</td>
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**TIDE (III):**

**REFERENCE STATION:** Juneau

<table>
<thead>
<tr>
<th>SUBORDINATE STATION: Saginaw Bay, Kuiu Island</th>
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</thead>
</table>

- **RATIO OF RANGES:** 13.8 16.4
- **DIURNAL RANGES:** 11.3 13.8

**WASHINGTON OFFICE REVIEW BY (IV):** Leo F. Beugnot, RM

**DATE: Nov. 1971**

**NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):**

- **RECOVERED:** 1
- **IDENTIFIED:** 1

**NUMBER OF BMISI SEARCHED FOR (III):**

- **RECOVERED:**
- **IDENTIFIED:**

**NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):**

**NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):**

**REMARKS:**


<table>
<thead>
<tr>
<th>Compilation Record</th>
<th>Completion Date</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Alongshore are for hydro</td>
<td>July 1966</td>
<td>Superseded</td>
</tr>
</tbody>
</table>
| Field edit applied  
Compilation complete | June 1968 | Superseded |
| Final Review  
Discrepancies with reviewed hydro surveys resolved; addendum added to Review Report | Nov. 1971-Dec. 1972 | |
| | Dec. 1972 | |
SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12196

Shoreline survey T-12196 is one of 53 similar surveys in project PH-6206. The primary purpose of the project was to provide modern shoreline and photo-hydro support data for hydrographic surveys in the Keku Strait area. See page 5 for the area covered by the project and the location of this survey within the project.

There was no field work prior to compilation with the exception of identification of horizontal control for aero-triangulation. The survey was field edited during the course of hydrography.

Compilation was at 1:10,000 scale by Wild B-8 methods using the photography of July 1965. Copies of the incomplete manuscript along with specially prepared photographs and ozalids were furnished for transfer of the shoreline to the boat sheet, photo-hydro support use and field edit.

The compilation manuscript was a vynlite sheet 3 minutes 45 seconds in latitude by 5 minutes in longitude. After application of field edit data the survey was scribed and reproduced on cronaflex. Final review was in the Atlantic Marine Center in November 1971. One cronaflex positive and a negative of the final reviewed survey are forwarded for record and registry.
FIELD INSPECTION REPORT
JOB PH-6206
T-12196

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

This report covers an area of Alaska in the upper portion of Keku Straits and its confluence with Frederick Sound.

22. **Method**

Analytic aerotriangulation methods were used to bridge four strips of "M" photography at the scale of 1:50,000. The attached sketch of strips bridged shows the amount and placement of triangulation furnished. Closures to control and to tie points have been tabulated.

23. **Adequacy of Control**

Horizontal control (pre-marked targets) identified and required to adjust the strips bridged was slightly above our minimum requirements. Two of the four strips were adjusted using only three stations and common tie points as a check to our bridging accuracy. The final results are well within the National Standards of Map Accuracy for the fourteen shoreline sheets to be compiled (T-12178, T-12179, T-12183 through T-12192, T-12196 and T-12197).

Control stations that were not used in our final adjustment follow: (1) CORN, 1925, this station is on the tip of a peninsula and so situated that it was impossible to set a model in which this station could have been of any value to our work; (2) KEKU, 1927, this target was not visible on either the film or the plates. It is our belief, based upon the published description, that the target might have washed away; (3) HAM, 1927, this station was used on Strip #2, however on Strip #3 the target was not visible because the layover of trees near the station obscured the target on one photograph.

24. **Supplemental Data**

Numerous U.S.G.S. quads were used to obtain elevations required for the final adjustment.
25. **Photography**

Photography was adequate with regard to coverage, overlap and image definition.

Respectfully submitted:

George M. Ball

Approved and forwarded:

Henry P. Eichert
Acting Chief, Aerotriangulation Section
## CLOSURE TO CONTROL AND TIE POINTS (feet)

### STRIP #1

<table>
<thead>
<tr>
<th>Point</th>
<th>1917</th>
<th>1925</th>
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<tbody>
<tr>
<td>KENDEL</td>
<td>(+0.0)</td>
<td>(-0.1)</td>
</tr>
<tr>
<td>KNILP</td>
<td>(-0.1)</td>
<td>(-0.1)</td>
</tr>
<tr>
<td>PINT</td>
<td>(-0.1)</td>
<td>(-0.1)</td>
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### STRIP #2

<table>
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<th>1927</th>
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<tr>
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<td>0.0</td>
</tr>
<tr>
<td>CART</td>
<td>(-2.0)</td>
<td>(-0.6)</td>
</tr>
<tr>
<td>KAKE</td>
<td>(-1.4)</td>
<td>(+0.1)</td>
</tr>
<tr>
<td>AGE</td>
<td>(+1.3)</td>
<td>(+0.6)</td>
</tr>
<tr>
<td>AMY</td>
<td>(-0.5)</td>
<td>(-0.4)</td>
</tr>
<tr>
<td>S.S.</td>
<td>(-0.6)</td>
<td>(-0.9)</td>
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### STRIP #3 cont.

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<td>HAM</td>
<td>(-2.8)</td>
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<tr>
<td>AGE</td>
<td>(+3.4)</td>
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<tr>
<td>AMY</td>
<td>(+3.1)</td>
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<td>S.S.</td>
<td>(-0.6)</td>
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### STRIP #4

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<tr>
<td>GNAW</td>
<td>(-0.1)</td>
<td>0.0</td>
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<tr>
<td>LOW</td>
<td>(-0.1)</td>
<td>0.0</td>
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<tr>
<td>LUCK</td>
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### TIES TO STRIP #3

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<tr>
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<tr>
<td>08402</td>
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<tr>
<td>08403</td>
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### TIES TO STRIP #3 cont.

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<td>29403</td>
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<td>33401</td>
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### TIES TO STRIP #3

<table>
<thead>
<tr>
<th>Tie</th>
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<tr>
<td>19401</td>
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<td>19402</td>
<td>(+3.1)</td>
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</tr>
<tr>
<td>19403</td>
<td>(+8.7)</td>
<td>(+5.4)</td>
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### STRIP #3

<table>
<thead>
<tr>
<th>Point</th>
<th>1927</th>
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<tbody>
<tr>
<td>KAKE</td>
<td>(+1.8)</td>
</tr>
<tr>
<td>ALTO</td>
<td>(-2.0)</td>
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<tr>
<td>(+0.5)</td>
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KEKU STRAITS, ALASKA
PH - 6206
SHORELINE MAPPING
SCALE 1:10,000
SINGLE LENS PHOTO,
SCALE 1:50,000

KEY TO TRAVERSATION:
1. PINT, 1965
2. KELP, 1965
3. BENDEL, 1917
4. CHANT, 1927
5. KARÉ, 1927
6. HAAR, 1927
7. ÅSE, 1927
8. PINT, 1927
9. LUCK, 1927
10. LOW, 1927
11. ALPH, 1927
12. KAM, 1927
13. COIN, 1925
14. SNAY, 1935
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<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)</th>
<th>DATUM CORRECTION N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)</th>
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<tbody>
<tr>
<td>EITE 1966</td>
<td>1st Cont. pt. of Final GP and PC</td>
<td>NA 1927</td>
<td>56 s1 26.03800 134 10 4.381418</td>
<td>805.4 (1050.6) 142.5 (274.3)</td>
<td>1 835 426.92 0 426.9 (4573.1)</td>
<td>2 583 140.54 3 (1859.5)</td>
</tr>
</tbody>
</table>
COMPILATION REPORT
T-12196

31. **DELINEATION:**

The Wild B-8 was use. Photography was satisfactory.

32. **CONTROL:**

Difficulty was experienced in holding aerotriangulation points when the model involving stations BITE and CHEW was set. Several solutions were tried, none of which held all points in the model. A solution that would hold most of the six substitute stations for BITE and CHEW and the aerotriangulation points near the shoreline was used.

33. **SUPPLEMENTAL DATA:**

None

34. **CONTOURS AND DRAINAGE:**

Inapplicable

35. **SHORELINE AND ALONSHORE DETAILS:**

The shoreline was delineated by office interpretation. No Mean Lower Low water line was shown.

36. **OFFSHORE DETAIL:**

The offshore details are to be checked and verified by the hydrographic party.
37. LANDMARKS AND AIDS:

None

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

T-12189 junctions to the north and T-12197 junctions to the east and there aren't any contemporary surveys to the south or the west.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with U.S.G.S. quadrangle FORT ALEXANDER (D-1), ALASKA, 1948.
47. **COMPARISON WITH NAUTICAL CHARTS:**

A comparison has been made with USGS Nautical Chart 8214, scale 1:40,000, dated July 1, 1909, revised Aug. 10, 1959.

**ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:**

None

**ITEMS TO BE CARRIED FORWARD:**

None

Submitted by:

Lowell O. Neterer, Jr.
Cartographic Technician

Approved for forwarding:

Melvin J. Umbach, CDR, NOAA
Chief, Photogrammetry Division, AMC

Approved:

Alfred C. Holmes, RADM, NOAA
Director, Atlantic Marine Center
The subsequent rebridging of this area resolved none of the initial horizontal control problems. An attempt to resolve the control deficiency resulted in several solutions, none of which would hold all drilled pass points and substitute stations within the models. The final result, holding most of the substitute points for BITE, CHOL, and MEADE, and the drilled pass points nearest the shoreline was used.

The southern portion of this map manuscript is not believed to be within the required accuracy standards.
December 8, 1971

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6206 (Alaska)

T-12196

Cool Lake
Kuiu Island
Saginaw Bay

Approved by:
A. Joseph Wright
Chief Geographer

Prepared by:
Frank W. Pickett
Cartographic Technician
19. NOTES FOR THE HYDROGRAPHER

The southern portion of this sheet is "Preliminary". It is so marked in red on the field edit ozalid.

The shoreline on the south side of Saginaw Bay is believed to be in error. It is suggested that you locate hydrographic signal sites by the use of the processed cronapaque ratioed photographs only.

The Saginaw Bay area (south shore) is to be re-bridged by the Aerotriangulation section in the near future, after which these discrepancies will be resolved.

Refer to "ADDENDUM TO 32-CONTROL" concerning this area.
### Photogrammetric Office Review

**T. 12196**

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>CHB</td>
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<table>
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<tr>
<th>Control Stations</th>
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<tr>
<td>5. Horizontal Control Stations of Third-Order or Higher Accuracy</td>
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<td>6. Recoverable Horizontal Stations of Less Than Third-Order Accuracy (Topographic Stations)</td>
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<td>8. Bench Marks</td>
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<td>9. Plotting of Sextant Fixes</td>
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<td>ALONGSHORE AREAS (Nautical Chart Data)</td>
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<td>10. Photogrammetric Plot Report</td>
<td>Bridge W.O.</td>
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<td>12. Shoreline</td>
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<td>13. Low-Water Line</td>
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<td>14. Rocks, Shoals, Etc.</td>
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<td>15. Bridges</td>
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<td>16. Aids to Navigation</td>
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<td>17. Landmarks</td>
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<td>18. Other Alongshore Physical Features</td>
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<td>19. Other Alongshore Cultural Features</td>
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<td>PHYSICAL FEATURES</td>
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<td>22. Planetable Contours</td>
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<td>23. Stereoscopic Instrument Contours</td>
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<td>24. Contours in General</td>
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<td>25. Spot Elevations</td>
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<td>26. Other Physical Features</td>
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<td>30. Other Cultural Features</td>
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<td>31. Boundary Lines</td>
<td>XX</td>
<td>32. Public Land Lines</td>
<td>XX</td>
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</table>

| MISCELLANEOUS           |          |                       |                    |
| 33. Geographic Names    | CHB      | 34. Juctions           | CHB                |
| 35. Legibility of the Manuscript |        |                       |                    |
| 36. Discrepancy Overlay | XX       | 37. Descriptive Report | CHB                |
| 38. Field Inspection Photographs |      | 39. Forms             | XX                 |

**Reviewer:**

Charles H. Bishop 07-21-66

**Supervisor, Review Section or Unit:**

Albert C. Rauck, Jr.

**Field Completion Additions and Corrections to the Manuscript**

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:**

Charles H. Bishop 06-04-68

**Supervisor:**

Albert C. Rauck, Jr.

**Remarks:**

Field Applied from: Field Edit Ozalid and Field photo No. 65M-2h5
T-12196

FIELD EDIT REPORT

There were no field edit reports submitted with the field edit covering the 1966 to 1968 season's work, and no Form 567 was submitted to the compilation office by the field party.
REVIEW REPORT T-12196
SHORELINE
November 29, 1971

61. GENERAL STATEMENT

See Summary, which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A comparison was made with a copy of survey No. 2152, 1:20,000 scale, made in September 1892. That survey is now obsolete and is superseded by T-12196 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with USGS PORT ALEXANDER (D-1), ALASKA, 1:633,860 scale quadrangle, edition of 1948 with minor revisions made in 1963. The two surveys are in good agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet H-8960 (PA 10-1-67). The shoreline for the boat sheet was evidently obtained from an incomplete manuscript. Some shoreline and ledge limits were corrected on the advance manuscript.

Rocks located by the hydrographer that are not visible on the photographs have been indicated on the comparison print in purple.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart 8214, 4th edition, dated December 16, 1968. The two surveys are in good general agreement.

Rocks shown on the chart that are not visible on the photographs have been noted on the comparison print in red.
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey is considered adequate for photo-hydro support use and nautical chart construction. Please refer to item 32 of the Compilation Report.

Reviewed by:
Leo F. Beugnet
Cartographer

Approved:
Melvin J. Umbach, CDR, NOAA
Chief, Photogrammetry Division, AMC

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

Approved:
Chief, Photogrammetric Branch  Chief, Coastal Mapping Division
ADDENDUM TO REVIEW REPORTS

T-12178, T-12179, AND T-12183 THROUGH T-12202

After Maps T-12178, T-12179, and T-12183 through T-12202 had been finally reviewed and the reports written and signed, and the hydrographic surveys had been verified and reviewed, the Marine Chart Division requested additional review of the photogrammetric manuscripts to aid in resolving discrepancies between the hydrographic and photogrammetric surveys. Discrepancy prints of each T-sheet and verified copies of the hydrographic surveys were furnished to aid in this review. H-9041 Boat Sheet was used for T-12196 through T-12202, as a verified copy of this survey was not available to the reviewer.

Copies of the hydrographic surveys were used as aids to verify what could be seen on the photographs of the area; if a feature on the hydrographic survey was not positively identifiable on the photographs, it was not added to the T-sheet. This review resulted in the revision of several ledges, some mean high water line, and the addition of several rocks awash. The hydrographer's elevations were not added to the photogrammetric manuscripts.

Questions on the discrepancy prints were answered on separate ozalids and returned to the Marine Chart Division, along with a Chart Maintenance Print reflecting differences between the Advance Manuscript and the Final Reviewed Manuscript for each map.

Comparison prints bound with this report reflect differences with the verified hydrographic surveys, except T-12196 through T-12202, rather than the boat sheets. The sources for shoreline on the verified hydrographic surveys were copies of Advance Manuscripts; therefore, shoreline agreement is generally good.

Charles H. Bishop
Cartographer
January 1973
chart 8214
only one rock visible in area
65 M 244-245

"The photogrammetric work offshore from the main chart may not be completely reviewed. Hydrographic surveys should be consulted."

COMPARISON PRINT
Red = Chart 8214

T-12196
COMPARISON PRINT

Purple = H-8960
Red = Chart 8214

NOTE:
Location and delineation of features
on high-water line on this survey
are tentative or final. The contemporary
survey of the area where available,
superseded for the final delineation.