

13187

13187

NOAA FORM 76-35

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

## DESCRIPTIVE REPORT

Type of Survey Shoreline  
Job No. PH-6306 Map No. T-13187  
Classification No. Edition No.  
Field Edited

## LOCALITY

State Alaska  
General Locality Hoonah Sound & Peril Strait  
Locality Ushk Bay

1967 TO 1969

Alfred C. Holmes, Director, AMC

## REGISTRY IN ARCHIVES

DATE

## DESCRIPTIVE REPORT - DATA RECORD

T-13187

|   |                            |  |
|---|----------------------------|--|
| PROJECT NO. (II):<br>PH-6306  |                            |  |
| FIELD OFFICE (II):<br>None  |                            | CHIEF OF PARTY   |
| PHOTOGRAMMETRIC OFFICE (III):<br>Atlantic Marine Center, Norfolk, VA                              |                            | OFFICER-IN-CHARGE<br>Alfred C. Holmes, Director, AMC   |
| INSTRUCTIONS DATED (II) (III):<br>OFFICE - Sept. 17, 1968   |                            |  |
| METHOD OF COMPILATION (III):<br>Wild B-8 Stereo-Plotter   |                            |  |
| MANUSCRIPT SCALE (III):<br>1:10,000   |                            | STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):<br>1:15,000  |
| DATE RECEIVED IN WASHINGTON OFFICE (IV):  |                            | DATE REPORTED TO NAUTICAL CHART BRANCH (IV):   |
| APPLIED TO CHART NO.  |                            | DATE:<br>DATE REGISTERED (IV):<br>MAR. 3, 1975   |
| GEOGRAPHIC DATUM (III):<br>N.A. 1927  |                            | VERTICAL DATUM (III):<br>HIGH WATER<br>MEAN SEA LEVEL EXCEPT AS FOLLOWS:<br>Elevations shown as (25) refer to mean high water<br>Elevations shown as (5) refer to sounding datum<br>i.e., mean low water or mean lower low water |
| REFERENCE STATION (III):<br>Rance, 1952   |                            |  |
| LAT.:<br>57° 33' 57.536"  | LONG.:<br>135° 36' 37.902" | <input checked="" type="checkbox"/> ADJUSTED<br><input type="checkbox"/> UNADJUSTED  |
| PLANE COORDINATES (IV):<br>y = 2,099,427.64 Ft.      x = 2,304,042.41 Ft.                         |                            | STATE<br>Alaska  |
|   |                            | ZONE<br>1  |
| WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY. |                            |  |

## DESCRIPTIVE REPORT - DATA RECORD

T-13187

|   |   |  |
|---|---|--|
| FIELD INSPECTION BY (III):<br><br>None  |   | DATE:                                  |
| MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):<br><br>Air Photo Compilation - June 8, 1967 |   |  |
| PROJECTION AND GRIDS RULED BY (IV):<br><br>A. Betea   |   | DATE<br>Sept. 18, 1968                 |
| PROJECTION AND GRIDS CHECKED BY (IV):<br><br>L. F. Van Scoy   |   | DATE<br>Sept. 24, 1968                 |
| CONTROL PLOTTED BY (III):<br>Drilled Points: - R. White<br>Triangulation: - C. H. Bishop                        |   | DATE<br>Oct. 21, 1968<br>Jan. 13, 1969 |
| CONTROL CHECKED BY (III):<br>Drilled Points: - A. Shands<br>Triangulation: - R. E. Smith                        |   | DATE<br>Oct. 21, 1968<br>Jan. 13, 1969 |
| RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):<br><br>I. I. Saperstein                                 |   | DATE<br>Oct. 1968                      |
| STEREOSCOPIC INSTRUMENT COMPILATION (III):  | PLANIMETRY By: R. R. White<br>Reviewed By: A. L. Shands | DATE Dec. 1968<br>Dec. 1968            |
|   | CONTOURS  | DATE                                   |
| MANUSCRIPT DELINEATED BY (III):<br>R. R. White<br>F. P. Margiotta   |   | DATE<br>Dec. 1968<br>Jan. 1969         |
| SCRIBING BY (III):<br><br>W. Gilbert  |   | DATE<br>5/3/72                         |
| PHOTOGRAMMETRIC OFFICE REVIEW BY (III):<br><br>C. H. Bishop   |   | DATE<br>Jan. 1969                      |
| REMARKS:  |   |  |

DESCRIPTIVE REPORT - DATA RECORD  
T-13187

CAMERA (KIND OR SOURCE) (III):

Wild RC-8 Universal "L"

## PHOTOGRAPHS (III)

| NUMBER              | DATE         | TIME | SCALE    | STAGE OF TIDE      |
|---------------------|--------------|------|----------|--------------------|
| 67-L-3186           | June 8, 1967 |      | 1:30,000 | 0.6 ft. below MLLW |
| 67-L-3279 thru 3281 | June 8, 1967 |      | 1:30,000 | 3.2 ft. above MLLW |

Predicted TIDE (III)

Diurnal

|   | RATIO OF RANGES | MEAN RANGE | <del>SPREAD</del> RANGE |
|---|-----------------|------------|-------------------------|
| REFERENCE STATION: Jumeau, Alaska         |                 | 13.8       | 16.4                    |
| SUBORDINATE STATION: Nismeni Cove, Alaska |                 | 12.5       | 15.0                    |
| SUBORDINATE STATION:                      |                 |            |                         |

WASHINGTON OFFICE REVIEW BY (IV): Bernard Kurs, AMC

DATE:  
April 1970

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

None

RECOVERED:

None

IDENTIFIED:

None

NUMBER OF BM(S) SEARCHED FOR (II):

None

RECOVERED:

None

IDENTIFIED

None

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

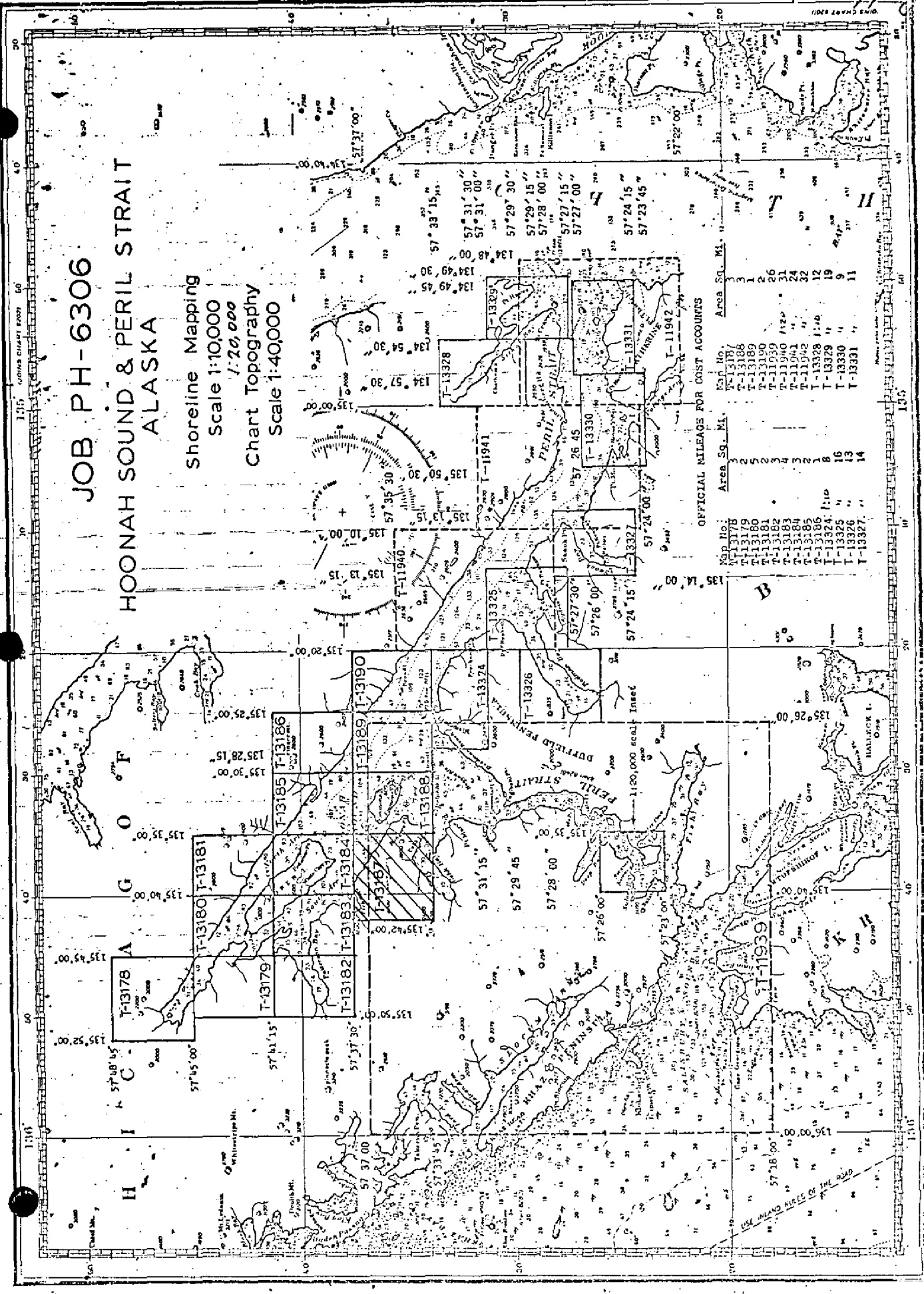
REMARKS:

T-13187

| COMPILATION RECORD                         | COMPLETION DATE | REMARKS                                       |
|--|-----------------|---|
| Alongshore Area For Hydro                  | Jan. 1969       | Superseded                                    |
| Field Edit Applied<br>Compilation Complete | July 1970       | "Ushk Bay" not<br>Field Edited.<br>Superseded |
| Final Review                               | April 1973      |   |
|  |                 |   |
|  |                 |   |

# JOB PH-6306 HOONAH SOUND & PERIL STRAIT ALASKA

Shoreline Mapping  
Scale 1:10,000  
Chart Topography  
Scale 1:40,000



## OFFICIAL MILEAGE FOR COST ACCOUNTS

| Map No. | Area Sq. Mi. | Map No. | Area Sq. Mi. |
|---------|--------------|---------|--------------|
| T-13178 | 3            | T-13328 | 12           |
| T-13179 | 1            | T-13329 | 19           |
| T-13180 | 2            | T-13330 | 9            |
| T-13181 | 1            | T-13331 | 11           |
| T-13182 | 26           |         |              |
| T-13183 | 31           |         |              |
| T-13184 | 24           |         |              |
| T-13185 | 32           |         |              |
| T-13186 | 12           |         |              |
| T-13187 | 19           |         |              |
| T-13188 | 8            |         |              |
| T-13189 | 16           |         |              |
| T-13190 | 13           |         |              |
| T-13191 | 14           |         |              |
| T-13192 | 14           |         |              |
| T-13193 | 14           |         |              |
| T-13194 | 14           |         |              |
| T-13195 | 14           |         |              |
| T-13196 | 14           |         |              |
| T-13197 | 14           |         |              |
| T-13198 | 14           |         |              |
| T-13199 | 14           |         |              |
| T-13200 | 14           |         |              |
| T-13201 | 14           |         |              |
| T-13202 | 14           |         |              |
| T-13203 | 14           |         |              |
| T-13204 | 14           |         |              |
| T-13205 | 14           |         |              |
| T-13206 | 14           |         |              |
| T-13207 | 14           |         |              |
| T-13208 | 14           |         |              |
| T-13209 | 14           |         |              |
| T-13210 | 14           |         |              |
| T-13211 | 14           |         |              |
| T-13212 | 14           |         |              |
| T-13213 | 14           |         |              |
| T-13214 | 14           |         |              |
| T-13215 | 14           |         |              |
| T-13216 | 14           |         |              |
| T-13217 | 14           |         |              |
| T-13218 | 14           |         |              |
| T-13219 | 14           |         |              |
| T-13220 | 14           |         |              |
| T-13221 | 14           |         |              |
| T-13222 | 14           |         |              |
| T-13223 | 14           |         |              |
| T-13224 | 14           |         |              |
| T-13225 | 14           |         |              |
| T-13226 | 14           |         |              |
| T-13227 | 14           |         |              |
| T-13228 | 14           |         |              |
| T-13229 | 14           |         |              |
| T-13230 | 14           |         |              |
| T-13231 | 14           |         |              |
| T-13232 | 14           |         |              |
| T-13233 | 14           |         |              |
| T-13234 | 14           |         |              |
| T-13235 | 14           |         |              |
| T-13236 | 14           |         |              |
| T-13237 | 14           |         |              |

6

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT

T-13178 thru 13190

Shoreline surveys T-13178 thru 13190 are part of project PH-6306. The project is located in southeastern Alaska in the Hoonah Sound area adjacent to Peril Straits.

There was no field work preceding the incomplete manuscripts.

Compilation was at 1:10,000 scale mostly by B-8 plotter the remainder by graphic methods. A copy of each manuscript classified "Incomplete" along with ozalids and specially prepared photographs were furnished for the preparation of the boat sheets, location of photo hydro signals and field edit use.

Surveys T-13187 thru T-13189 lacked field edit below 57° 35' and those portions of the manuscripts were declared Class III. Field edit was in 1969. After field edit was applied the manuscripts were scribed, stuck-up and reproduced on cronaflex. Final review was at AMC during March and April, 1973. One cronaflex and negative of the final reviewed manuscripts are being forwarded for record and registry.

## FIELD INSPECTION

T-13187

There was no field inspection prior to compilation.

8

Photogrammetric Plot Report (Part I)  
Job PH-6306  
Hoonah Sound and Peril Strait, Alaska

October 1968

21. Area Covered

This report covers Hoonah Sound, Alaska, the area which is covered by 1:10,000 scale T-sheets only. There are thirteen (13) 1:10,000 scale T-sheets, T-13178 thru T-13190. Sheets T-11939 thru T-11942 will be bridged at a later date.

22. Method

Six (6) strips were bridged using analytical aerotriangulation methods. Strips 1 and 2 were 1:60,000 scale panchromatic and strips 4 thru 7 were 1:30,000 scale color. Numerous tie points were located to control the various strips due to lack of horizontal control.

The attached sketch of the strips bridged shows the placement of triangulation used in the final strip adjustments. Closures to horizontal control are shown for each strip on the IBM read-outs, along with all bridge points on Alaska Zone 1 plane coordinates.

23. Adequacy of Control

All horizontal control was premarked, but sparse. Together with tie points the horizontal control is adequate to control the various strips.

It will be noted that this bridge was not run in accordance with instructions for this job. It was intended to bridge the 1:60,000 scale RC-9 "M" photography only and drop compilation points on the color photographs. However, upon examination of the "M" photography it was discovered that much of the premarked control could not be seen because of tree overhang. Some of the stations that were white-washed blended with the rock background and were not discernible.

It was therefore decided to bridge the 1:10,000 scale sheets using the color photography where the premarked stations could be seen.

3

24. Supplemental Data

Vertical control needed for the adjustment was taken from USGS quadrangles.

25. Photography

The definition and quality of the RC-9 "M" and RC-8 "L" color photography were good. Coverage was adequate to compile all sheets either by stereoscopic plotting instrument or graphically.

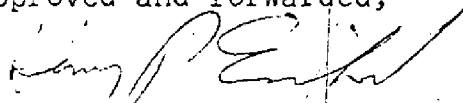
Cronapaque and matte ratio prints have been ordered from the 1:30,000 scale color photographs on black and white base.

Respectfully submitted,



I. I. Saperstein

Approved and forwarded,



Chief, Aerotriangulation Section

9

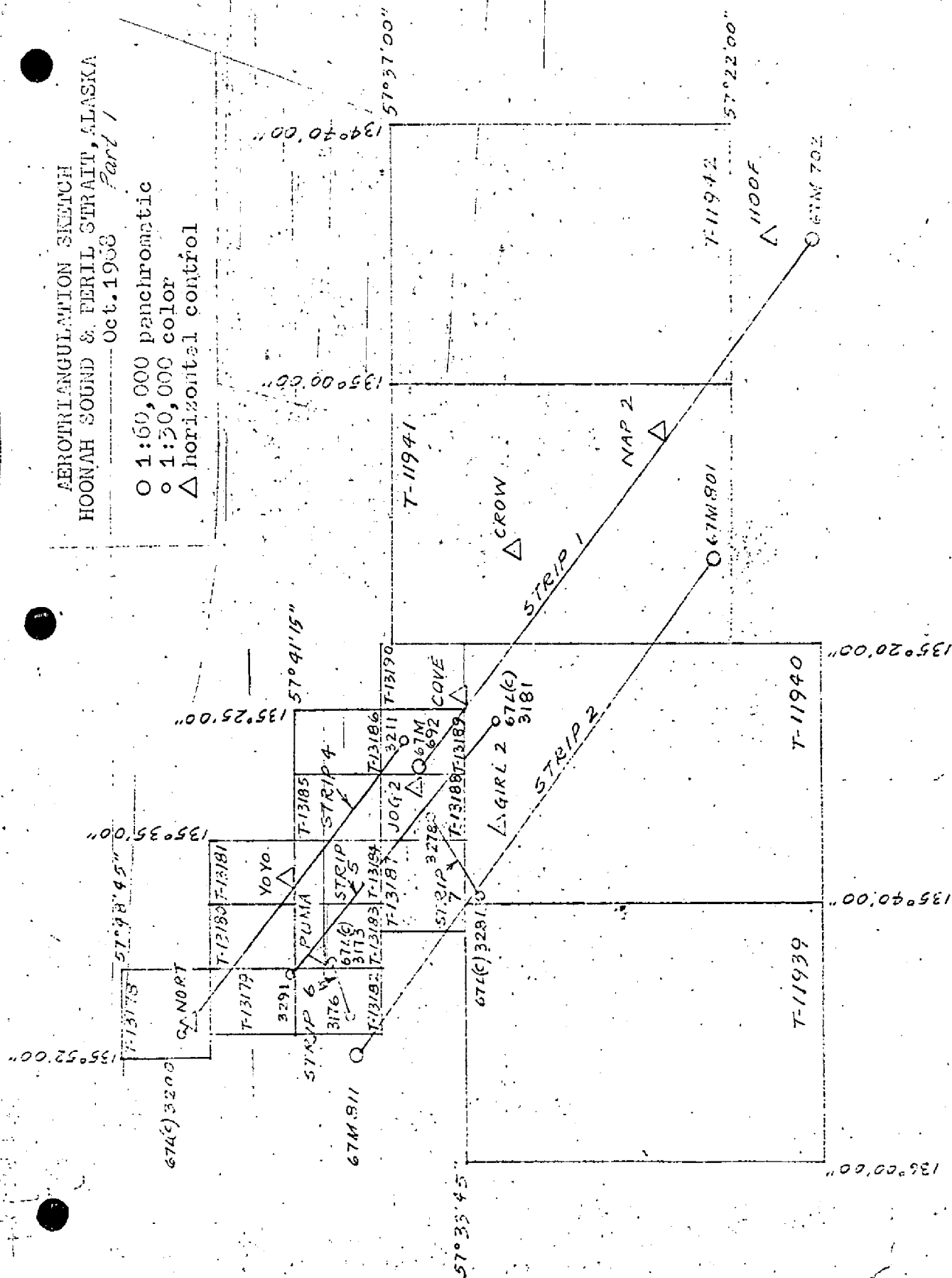
NOTES TO COMPILER

Photos 67-L(C)-3181, 3182, 3183 on Strip 5 could not be bridged because of water areas. However, points were dropped from Strip 1 common to points on the above photos so that several offshore islands can be compiled. Models 3181-3182-3183 can be set on the B-8 using positions for these points from Strip 1, (see photos 67-M-692, 693).

Photos 67-L(C)-3212 thru 3215, the southern extension of Strip 4 could not be bridged because of water areas. Sufficient common points between the above photos and Strip 1 were located and transferred to the ratio prints so that sheets T-13189 and T-13190 could be compiled graphically. Positions for these common points can be found on the IBM readout for Strip 1, (see photos 67-M-692 thru 694).

Oct. 1953 Part 1

- 1:60,000 panchromatic
- 1:30,000 color
- △ horizontal control



## DESCRIPTIVE REPORT CONTROL RECORD

SCALE FACTOR None[illegible]

COMPILATION REPORT

PH-6303

T-13187

31. DELINEATION

All details on the manuscript were compiled by the Wild B-8 Stereoplotter using color photography. There was no field inspection prior to compilation.

32. CONTROL

See Photogrammetric Plot Report, Part I, dated, October 1968.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours were inapplicable. Drainage was delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The Wild B-8 Stereoplotter was used to delineate the mean high water line and the approximate mean lower low water line.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

No recoverable topographic or photo hydro stations have been shown. A sufficient number of shoreline pass points have been shown as an aid for the hydrographer in establishing hydrographic signals.

39. JUNCTIONS

Junctions are in agreement with T-13183 and T-13184 to the north and T-13188 to the east. There is no contemporary survey at 1:10,000 scale to the west or the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. FIELD EDIT

The field edit for this sheet was well done and all items in question were answered very satisfactorily and cross referenced to the color ratio photographs.

42-45. Not applicable.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with USGS Quadrangle SITKA (C-5) ALASKA, scale 1:63,360, dated 1951.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 8252, Coronation Island to Lisianski Strait, scale 1:217,828, dated Nov. 1965.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted:

*Frank P. Margiotta*

Frank P. Margiotta  
Cartographic Aid  
1/13/69

Approved for forwarding:

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

Approved:

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

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

PH-6306 (Hoonah Sound and Peril  
Strait, Alaska)

T-13187

- Chichagof Island
- Hoonah Sound
- Pick Cove
- Ushik Bay
- Vixen Islands

Approved by:

*AJW*

---

A. Joseph Wraight  
Chief Geographer

Prepared by:

*3-22-73*

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Frank W. Pickett  
Cartographic Technician

T-13187

49. NOTES FOR THE HYDROGRAPHER:

NONE

## PHOTOGRAMMETRIC OFFICE REVIEW

T. 13187

|   |  |  |   |
|---|--|--|---|
| 1. PROJECTION AND GRIDS<br>CHB  | 2. TITLE<br>CHB  | 3. MANUSCRIPT NUMBERS<br>CHB   | 4. MANUSCRIPT SIZE                          |
| CONTROL STATIONS  |  |  |   |
| 5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY<br>CHB   | 6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)<br>X |  | 7. PHOTO HYDRO STATIONS<br>X                |
| 8. BENCH MARKS<br>X   | 9. PLOTTING OF SEXTANT FIXES<br>X  | 10. PHOTOGRAMMETRIC PLOT REPORT<br>CHB   | 11. DETAIL POINTS<br>CHB                    |
| ALONGSHORE AREAS (Nautical Chart Data)  |  |  |   |
| 12. SHORELINE<br>CHB  | 13. LOW-WATER LINE<br>CHB  | 14. ROCKS, SHOALS, ETC.<br>CHB   | 15. BRIDGES<br>X                            |
| 16. AIDS TO NAVIGATION<br>None  | 17. LANDMARKS<br>None  | 18. OTHER ALONGSHORE PHYSICAL FEATURES<br>CHB  | 19. OTHER ALONGSHORE CULTURAL FEATURES<br>X |
| PHYSICAL FEATURES   |  |  |   |
| 20. WATER FEATURES<br>CHB   | 21. NATURAL GROUND COVER<br>X  |  | 22. PLANETABLE CONTOURS<br>None             |
| 23. STEREOSCOPIC INSTRUMENT CONTOURS<br>None  | 24. CONTOURS IN GENERAL<br>None  | 25. SPOT ELEVATIONS<br>None  | 26. OTHER PHYSICAL FEATURES<br>X            |
| CULTURAL FEATURES   |  |  |   |
| 27. ROADS<br>X  | 28. BUILDINGS<br>X   | 29. RAILROADS<br>X   | 30. OTHER CULTURAL FEATURES<br>X            |
| BOUNDARIES  |  |  |   |
| 31. BOUNDARY LINES<br>None  |  | 32. PUBLIC LAND LINES<br>None  |   |
| MISCELLANEOUS   |  |  |   |
| 33. GEOGRAPHIC NAMES<br>CHB   | 34. JUNCTIONS<br>CHB   |  | 35. LEGIBILITY OF THE MANUSCRIPT<br>CHB     |
| 36. DISCREPANCY OVERLAY<br>CHB  | 37. DESCRIPTIVE REPORT<br>CHB  | 38. FIELD INSPECTION PHOTOGRAPHS<br>None   | 39. FORMS<br>CHB                            |
| 40. REVIEWER<br>C.H. Bishop   |  | SUPERVISOR, REVIEW SECTION OR UNIT<br>A.C. Rauck, Jr.<br><i>Albert C. Rauck, Jr.</i> |   |
| 41. 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. |  |  |   |
| COMPILED BY: A.L. Shands 7/9/70   |  | SUPERVISOR   |   |
| Reviewed By: R.J. Pate July 23, 1970  |  | <i>Albert C. Rauck, Jr.</i>  |   |
| 43. REMARKS<br>Field Edit Applied From: Field edit ozalid T-13187<br>Field Photograph 67-L-3187<br>No Field Edit in "Ushk Bay!" Out of hydro project limits.              |  |  |   |

18

APPROVAL SHEET

for  
FIELD EDIT  
Hoonah Sound  
Alaska  
OPR-488

Field edit of the following manuscripts was accomplished under my supervision and are approved for submission.

T-13178 through T-13189

*James M. Wintermyer*  
for John B. Watkins, Jr.  
CAPT, USESSA

## FIELD EDIT REPORT

T-13187

Hoonah Sound and Peril Strait

Ushk Bay

Field edit of map T-13187 was accomplished during September, 1969. Inspection was done from a launch in conjunction with hydrography.

### METHOD

Field ratio photographs and a copy of the field edit ozalid of the map manuscript were examined in the field. The mean high water line and shoreline features were verified by visual comparison of the shore area to the field photographs and field edit ozalid, and corrections noted. The rock and submerged reef northwest of Vixen Islands were located by sextant fixes, plotted on boat sheets FA-10-4-69 and FA-10-5-69, and compared to their photo interpreted positions.

Notes have been made in violet ink and pencil on the field edit ozalid.

### ADEQUACY OF COMPILATION

Compilation of the map is good. Hydrographic location of features compares well to photogrammetric location.

Field inspection of the area of this map in Ushk Bay was not carried out since this area was not within the project limits.

### RECOMMENDATIONS

It is recommended that the segment of this map within the project limits be revised in accordance with the notes and be considered acceptable as an advance manuscript.

Respectfully submitted,

*Martin R. Mulhern*  
Martin R. Mulhern  
ENSIGN, USESSA

## REVIEW REPORT T-13187

## SHORELINE

April, 1973

61. GENERAL STATEMENT

Ushk Bay was not field edited and this portion of the manuscript is considered Class III. See summary which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED SURVEYS

A comparison was made of the Ushk Bay area, which is the only part covered by a registered survey, with T-9896, 9897 dated 1954 at 1:10,000 scale. There are only minor differences brought about by natural causes. These are shown on the discrepancy print in blue.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A visual comparison was made with USGS Quadrangle Sitka (C-5), Alaska, dated 1951 at 1:63,360 scale. There is general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of verified boat sheet H-9056, 1969 at 1:10,000 scale. This covers the Hoonah Sound area and the comparison was very good. The Ushk Bay area has no contemporary hydro survey.

65. COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with Chart 8248 dated July 29, 1968 and at 1:40,000 scale. There is good agreement.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS


This survey meets with project instructions and the National Standards of Map Accuracy.

Reviewed by:




Bernard Kurs  
Cartographer

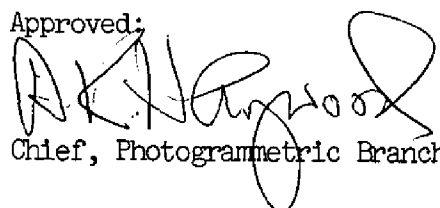
Approved for forwarding:


  
 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