

13178

13178

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-13178 .....

Classification No. .... Edition No. ....

Field Edited .....

## LOCALITY

State Alaska .....General Locality Hoonah Sound & Peril Strait .....Locality Granite Creek .....

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1967 TO 1969

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Alfred C. Holmes, Director, AMC

## REGISTRY IN ARCHIVES

DATE .....

## DESCRIPTIVE REPORT - DATA RECORD

T13178

PROJECT NO. (II):

PH-6306

FIELD OFFICE (III):

None

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center, Norfolk, VA

OFFICER-IN-CHARGE

Alfred C. Holmes, Director, AMC

INSTRUCTIONS DATED (II) (III):

OFFICE - Sept. 17, 1968

METHOD OF COMPILATION (III):

Wild B-8 Stereo-Plotter

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:15,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

MAR. 3, 1975

GEOGRAPHIC DATUM (III):

N.A. 1927

VERTICAL DATUM (III):

MEAN ~~LOW WATER~~ <sup>HIGH WATER</sup> EXCEPT AS FOLLOWS:

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., ~~mean low water~~ or mean lower low water

REFERENCE STATION (III):

NORT, 1966.

LAT.:

57°45'51.5371"

LONG.:

135°49'16.5396"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

y = 2,173,106.20 FT. x = 2,264,986.16 FT.

Alaska

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

WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.

DESCRIPTIVE REPORT - DATA RECORD

T-13178

FIELD INSPECTION BY (II):

None

DATE:

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

Air Photo Compilation - June 8, 1967

DESCRIPTIVE REPORT - DATA RECORD  
T-13178

MEASUREMENT (KIND OR SOURCE) (III):

Wild RC-8 Universal "L"

PHOTOGRAPHS (III)

| NUMBER             | DATE         | TIME  | SCALE    | STAGE OF TIDE      |
|--------------------|--------------|-------|----------|--------------------|
| 67 L 3200 and 3201 | June 8, 1967 | 09:40 | 1:30,000 | 0.2 ft. above MLLW |

Predicted TIDE (III)

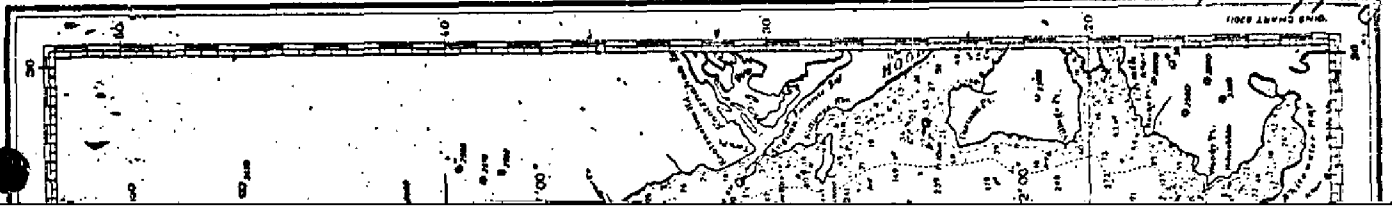
Diurnal

|   |  |                 | RATIO OF RANGES       | MEAN RANGE | SPRING RANGE |
|---|--|-----------------|-----------------------|------------|--------------|
| REFERENCE STATION: Juneau, 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: 13, March, 1973 |            |              |
| PROOF EDIT BY (IV):   |  |                 | DATE:                 |            |              |
| NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III): 1      |  | RECOVERED: 1    | IDENTIFIED: 1         |            |              |
| 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-13178

| COMPILATION RECORD                         | COMPLETION DATE | REMARKS    |
|--|-----------------|------------|
| Alongshore Area For Hydro                  | Oct. 1968       | Superseded |
| Field Edit Applied<br>Compilation Complete | June 1970       | Superseded |
| Final Review                               | March 1973      |            |
|  |                 |            |
|  |                 |            |



## 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-13178

There was no field inspection prior to compilation.



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.

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*  
I. I. Saperstein

Approved and forwarded,

*Henry P. Enkel*  
Chief, Aerotriangulation Section

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).





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COMPILATION REPORT

PH-6306

T-13178

31. DELINEATION

All details on the manuscript were compiled using the Wild B-8 Stereoplotter and Color Photography taken at 0.2 ft. above mean lower low water. There was no field inspection.

32. CONTROL

See Photogrammetric Plot Report, Part 1, dated October, 1968.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage was delineated from Office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

See Item 31. The mean high water line, the mean lower low water line and all other details were compiled from office interpretation of the photographs.

36. OFFSHORE DETAILS

No offshore details were compiled.

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

No statement.

39. JUNCTIONS

Junctions are in agreement with T-13179 scale 1:10,000 to the south. There are no contemporary surveys to the West, North, or East.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with USGS Quadrangle SITKA (D-6) ALASKA, scale 1:63,360 dated 1948.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with USC&GS 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:

*R. R. White*

R. R. White  
Cartographic Aid  
10/30/68

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

~~SEP 12 1968~~

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GEOGRAPHIC NAMES

FINAL NAME SHEET

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

T-13178

- Chichagof Island
- Chichagof Island Sound
- Granite Creek
- North Arm Hoonah Sound

Approved by:

Prepared by:

Approved by: \_\_\_\_\_

Chief Geographer

*AJW*  
A. Joseph Wraight  
Chief Geographer

Prepared by: \_\_\_\_\_

Cartographic Technician

3-22-73

Frank W. Pickett  
Cartographic Technician



T-13178

49. NOTES FOR THE HYDROGRAPHER

None

FORM C&GS-1002  
(9-66)U.S. DEPARTMENT OF COMMERCE  
ESSA  
COAST AND GEODETIC SURVEY

## PHOTOGRAMMETRIC OFFICE REVIEW

T13178

|   |  |  |   |
|---|--|--|---|
| 1. PROJECTION AND GRIDS<br>CHB  | 2. TITLE<br>CHB  | 3. MANUSCRIPT NUMBERS<br>CHB   | 4. MANUSCRIPT SIZE                            |
| <b>CONTROL STATIONS</b>   |  |  |   |
| 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                      |
| <b>ALONGSHORE AREAS (Nautical Chart Data)</b>   |  |  |   |
| 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>CHB |
| <b>PHYSICAL FEATURES</b>  |  |  |   |
| 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              |
| <b>CULTURAL FEATURES</b>  |  |  |   |
| 27. ROADS<br>None   | 28. BUILDINGS<br>None  | 29. RAILROADS<br>None  | 30. OTHER CULTURAL FEATURES<br>None           |
| <b>BOUNDARIES</b>   |  |  |   |
| 31. BOUNDARY LINES<br>None  |  | 32. PUBLIC LAND LINES<br>None  |   |
| <b>MISCELLANEOUS</b>  |  |  |   |
| 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>Charles H. Bishop   |  | DATE<br>11/4/68  |   |
|   |  | SUPERVISOR, REVIEW SECTION OR UNIT<br>A. C. Rauck, Jr. <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. |  |  |   |
| COMPILER<br>Charles H. Bishop   |  | DATE<br>6/27/70  |   |
|   |  | SUPERVISOR<br>A. C. Rauck, Jr. <i>Albert C. Rauck, Jr.</i>                         |   |
| 43. REMARKS<br>Field Edit Applied From Photo 67-L-3201  |  |  |   |

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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

Map T-13178

Hoonah Sound and Peril Strait

Granite Creek

Field edit of map T-13178 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. Isolated rocks were located by sextant fixes, plotted on boat sheet FA-10-6-69, and compared to photo interpreted positions.

Notes have been made in violet ink and pencil on the field edit ozalid and in ink on the photos and cross referenced to photograph 67-L-3201. All times are based on 105°W meridian.

### ADEQUACY OF COMPILATION

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

A ledge exists at the north tip of the island at the bottom edge of the sheet and was delineated on the photograph and indicated on the ozalid. One rock at the north end of the arm was searched for but not found. Corrections to the description of beach materials were indicated on the ozalid.

Field inspection of the map is complete.

### RECOMMENDATIONS

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

Respectfully submitted,

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

## REVIEW REPORT T-13178

## SHORELINE

March 14, 1973

61. GENERAL STATEMENT

See Summary which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED SURVEYS

There is no registered survey in this area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A visual comparison was made with U.S.G.S. Quadrangle Sitka (D-6), Alaska dated 1948 and at 1:63,360 scale. There is general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with Verified Survey H-9057 dated Sept. 1969 at 1:0,000 scale. They are in agreement except for slight differences in the mean lower low water line. The photogrammetric mean lower low water line was determined from photos taken at .2' above MLLW (predicted) and is retained on the survey for whatever use it may be to the chart compiler.

65. COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with Chart 8252 1 May 1971, at 1:217,828 scale. There is general agreement.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

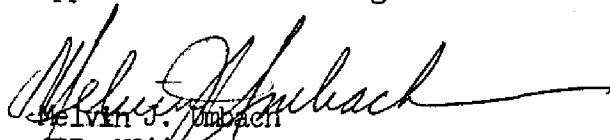
This survey meets with project instructions and the National Standards of Map Accuracy.

Reviewed by:



Bernard Kurs  
Cartographer

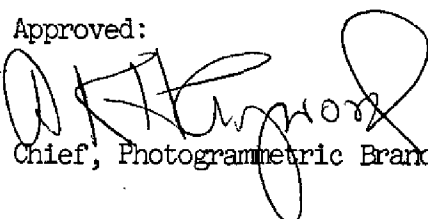
Approved for forwarding:


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

Approved:

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

Approved:

  
A. K. Thompson  
Chief, Photogrammetric Branch

  
Charles L. Hemen  
Chief, Coastal Mapping Division

Sr