

12195

12195

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|--|---------------------------|
| FORM C&GS-504 U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY | |
| <h2>DESCRIPTIVE REPORT</h2> | |
| <i>Type of Survey</i> SHORELINE (PHOTOGRAMMETRIC) | |
| <i>Field No.</i> | <i>Office No.</i> T-12195 |
| LOCALITY | |
| <i>State</i> | Alaska |
| <i>General locality</i> | Keku Strait |
| <i>Locality</i> | Hamilton Creek |
| <hr/> 19.65-1969 | |
| 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 - 12195

PROJECT NO. (II):

PH-6206

FIELD OFFICE (III):

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):
Atlantic Marine Center
Photogrammetric Branch

OFFICER-IN-CHARGE
Alfred C. Holmes, RADM, NOAA
Director, Atlantic Marine Center

INSTRUCTIONS DATED (II) (III):

January 18, 1965 OFFICE
November 26, 1965 OFFICE SUPPLEMENT I
March 18, 1966 OFFICE AMENDMENT I
August 1, 1966 OFFICE AMENDMENT II
May 11, 1965 FIELD
June 14, 1965 FIELD

METHOD OF COMPILATION (III):
Kelsh Instrument

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 1975

GEOGRAPHIC DATUM (III):

N. A. 1927

VERTICAL DATUM (III): MHW
MEASUREMENTS 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 minus mean lower low water

REFERENCE STATION (III):
LEE 1927 (closest station to sheet) ✓

LAT.:
56° 53' 50.504" (1562.2m)

LONG.:
133° 46' 13.177" (223.1m)

ADJUSTED
 UNADJUSTED

PLANE COORDINATES (IV):
1,849,718.62 ft. ✓ x = 2,664,919.11 ft. ✓

STATE: Alaska ✓
ZONE: 1 ✓

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-12195

| | | |
|--|--|------------------------------|
| FIELD INSPECTION BY (III): None | | DATE: |
| MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air photo compilation; Date of Photography: July 29, 1965 | | |
| PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree | | DATE 11/08/65 |
| PROJECTION AND GRIDS CHECKED BY (IV): R. S. Kornspan | | DATE 11/08/65 |
| CONTROL PLOTTED BY (III): R. Smith | | DATE 01/12/66 |
| CONTROL CHECKED BY (III): C. H. Bishop | | DATE 01/12/66 |
| RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): G. M. Ball | | DATE Nov. 1965 |
| STEREOSCOPIC INSTRUMENT COMPILATION (III): Wild B-8 | PLANIMETRY L. O. Neterer Rev. By: A. L. Shands | DATE 07/28/66 07/28/66 |
| | CONTOURS Inapplicable | DATE |
| MANUSCRIPT DELINEATED BY (III): L. O. Neterer | | DATE 08/17/66 |
| SCRIBING BY (III): B. Barge | | DATE 02/04/69 |
| PHOTOGRAMMETRIC OFFICE REVIEW BY (III): COMPILATION: C.H. Bishop FIELD EDIT: None SCRIBING & STICKUP: R.E. Smith | | DATE 10/06/66 02/06/69 |
| REMARKS: Field Edit By: None | | |

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Wild RC-9 "M"

PHOTOGRAPHS (III)

| NUMBER | DATE | TIME | SCALE | STAGE OF TIDE (from predicted tables) |
|------------------|--------------|----------|----------|--|
| 65-M-230 and 231 | 29 July 1965 | 0845 PST | 1:50,000 | -4.2 ft. |

TIDE (III)

Diurnal

| | RATIO OF RANGES | MEAN RANGE | MEAN RANGE |
|---|-----------------|------------|-----------------------|
| REFERENCE STATION: Ketchikan | | 13.0 | 15.4 |
| SUBORDINATE STATION: Hamilton Bay, Kupreanof Island | | 11.4 | 13.8 |
| SUBORDINATE STATION: | | | |

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

DATE: *Nov. 1971*

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

RECOVERED:

IDENTIFIED:

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

RECOVERED:

IDENTIFIED:

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

COMPILATION RECORD

COMPLETION DATE

REMARKS

| COMPILATION RECORD | COMPLETION DATE | REMARKS |
|---|---------------------------------|-------------------|
| Alongshore area for hydro | August 1966 | Superseded |
| Field edit applied | January 1969 | <i>Superseded</i> |
| <i>Final Review</i> | <i>Nov. 1971 & Dec 1972</i> | |
| <i>Discrepancies with reviewed hydro surveys resolved; Addendum added to Review Report.</i> | <i>Dec. 1972</i> | |
| | | |

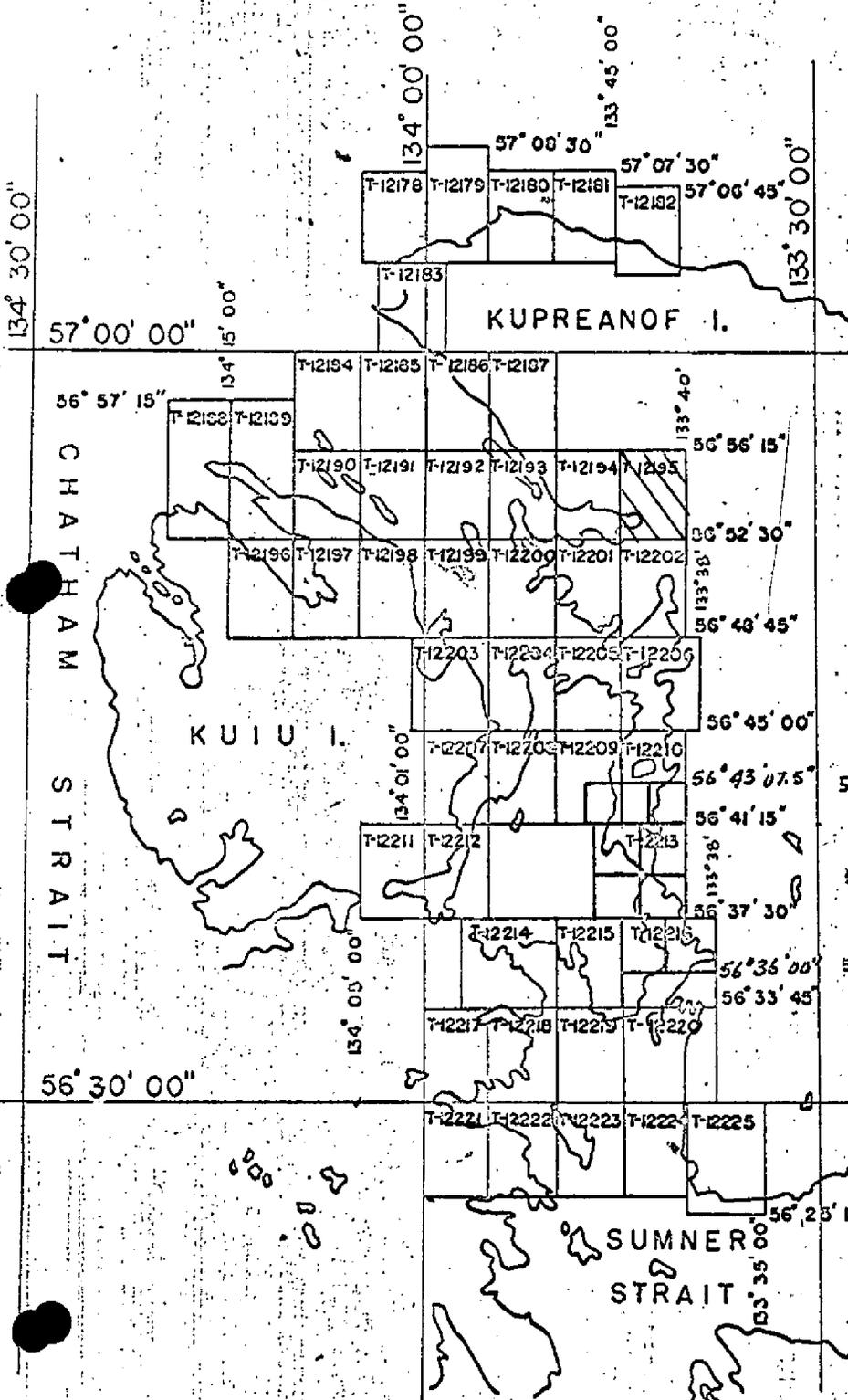
SHORELINE MAPPING PROJECT

Ph-6206

KEKU STRAITS, ALASKA

SCALE 1:10,000

5



AN ENLARGED
DIAGRAM OF THE
1:5,000 SCALE SHEETS

| | | |
|-------|--------------|-------|
| | | |
| 12812 | 12813 | 12814 |
| 12815 | 133° 43' 05" | 12816 |
| 12817 | | 12818 |
| 12819 | | 12820 |

Rev. 9-65 R.G.
Revised 1-6-65

A.R.

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12195

Shoreline survey T-12195 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 aerotriangulation. 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 vinylite 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
T-12195

There was no field inspection before compilation.

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PHOTOGRAMMETRIC PLOT REPORT
Job PH-6206
Keku Straits, Alaska
November 1965

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

Analytical 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 (premarked 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 eighteen shoreline sheets to be compiled (T-12178, T-12179, T-12183 thru T-12195, T-12196 thru T-12198).

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 lay-over of trees near the station obscured the target on one photograph.

24. Supplemental Data

Numerous USGS 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
George M. Ball

Approved and forwarded:

Henry P. Eichert
Henry P. Eichert
Acting Chief, Aerotriangulation Section

CLOSURE TO CONTROL AND TIE POINTS
(feet)

STRIP #1

BENDEL, 1917
(0.0 -0.1)
KELP, 1965
(-0.1 -0.1)
PINT, 1965
(-0.1 -0.1)

STRIP #2

BENDEL, 1917
(+1.3 0.0)
CART, 1927
(-2.0 -0.6)
KAKE, 1927
(-1.4 +0.1)
AGE, 1927
(+1.3 +0.6)
AMY, 1927
S.S. (-0.5 -0.4)

TIES TO STRIP #1

08401 (-0.2 + 2.6)
08402 (-0.9 +10.1)
08402 (-0.9 + 9.6)

TIES TO STRIP #3

27401 (+6.7 + 6.2)
28401 (+9.0 + 9.1)
29401 (+3.4 - 2.4)
29401 (+5.5 - 0.7)
29402 (+9.5 + 6.0)
29403 (+8.2 + 3.7)
33401 (+3.2 + 0.4)
33402 (+5.0 + 5.4)

STRIP #3

KAKE, 1927
(+1.8 -2.1)
ALTO, 1927
(-2.0 +0.5)

STRIP #3 cont.

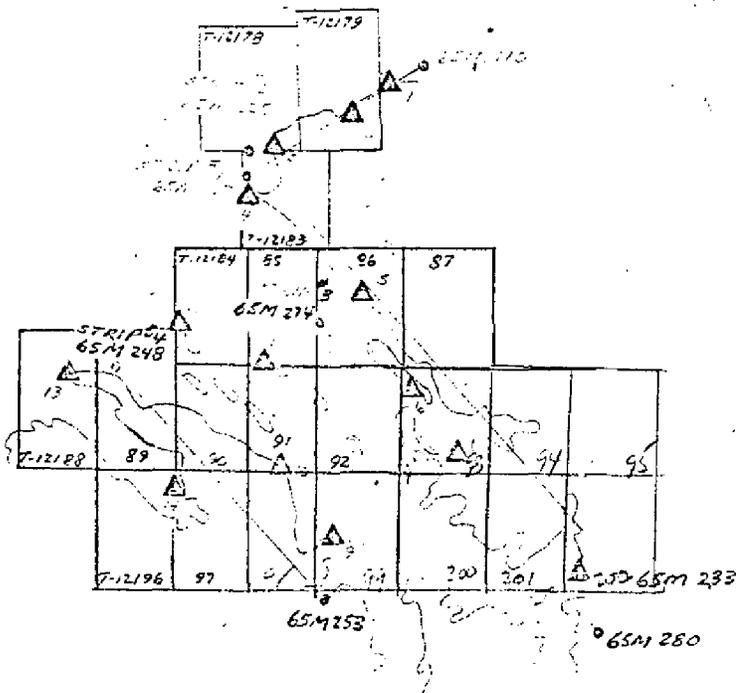
HAM, 1927
(-2.8 -0.9)
AGE, 1927
(+3.4 +3.1)
AMY, 1927
S.S. (-0.6 -0.9)

STRIP #4

GNAW, 1965
(-0.1 0.0)
LOW, 1927
(-0.1 0.0)
LUCK, 1927
(-0.1 0.0)

TIES TO STRIP #3

74401 (+0.1 +0.2)
74401 (+0.3 +0.6)
75401 (+9.3 -6.2)
76401 (+3.1 +3.2)
76402 (+6.7 +5.4)



KERO STRAITS, ALASKA
 PH - 6206
 SHARPLEE MAPPING
 SCALE 1:10,000
 SINGLE LEAF MAPS
 SCALE 1:50,000

- KEY TO TRIANGULATION
1. TINT, 1965
 2. KEMP, 1965
 3. BENDEL, 1917
 4. CART, 1927
 5. KAKE, 1927
 6. TAM, 1927
 7. ASI, 1927
 8. HALL, 1927
 9. LUCK, 1927
 10. LOW, 1927
 11. ALTO, 1927
 12. KERO, 1927
 13. JOHNS, 1925
 14. STAN, 1925

COMPILATION REPORT
Map Manuscript T-12195
Project Ph-6206

31. DELINEATION

Planimetry was compiled by Wild B-8. Photography was satisfactory.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

The mouths of two large streams, Cathedral Falls Creek and Hamilton Creek, are shown at the east end of Hamilton Bay.

35. SHORELINE AND ALONGSHORE FEATURES

There was no field inspection before compilation. Shoreline and alongshore features were compiled from office interpretation of the photographs.

36. OFFSHORE DETAILS

Offshore details were compiled from office interpretation of the photographs.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

A satisfactory junction was made with T-12194 to the west. There are no contemporary surveys to the north and east. No detail is extended southward into Map Manuscript T-12202.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. Quadrangle PETERSBURG (D-6), ALASKA, scale 1:62,360, dated 1948. No discrepancies were noted.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Nautical Chart 8201, scale 1:217,828, revised 7/20/64. No discrepancies were noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted:

Charles H. Bishop
Charles H. Bishop
Cartographer

Approved for forwarding:

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

Approved:

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

October 20, 1971

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6206

T-12195

Cathedral Falls Creek

Hamilton Bay

Hamilton Creek

Kupreanof Island

Approved by:

A. Joseph Wraight

A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Frank W. Pickett
Cartographic Technician

49. NOTES FOR THE HYDROGRAPHER

1. Foul, Shoal, and reef areas and rocks shown on this manuscript were determined by office interpretation of aerial photographs of the area and are shown to aid the hydrographer in locating possible hazardous areas. Their existence and extent should be verified by the hydrographer. If a foul, shoal, or reef area or rock does not exist, this fact should be noted on the FIELD EDIT OZALID.

2. There was no field inspection prior to compilation; therefore, occasional measurements should be made from identifiable points on the photographs to the MHWL to verify compilation.

3. Heights of rocks, reefs, and any other offshore obstructions should be obtained. The time and date observed should also be noted.

4. If there are landmarks or fixed aids to navigation within the area of this map, investigate and submit Form 567.

5. Give character of foreshore areas (sand, mud, rocky, etc.).

6. See FIELD EDIT OZALID for other notes.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 12195

| | | | |
|---|--|---|--|
| 1. PROJECTION AND GRIDS CHB | 2. TITLE CHB | 3. MANUSCRIPT NUMBERS CHB | 4. MANUSCRIPT SIZE CHB |
| CONTROL STATIONS | | | |
| 5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY XX | 6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (<i>Topographic stations</i>) XX | | 7. PHOTO HYDRO STATIONS XX |
| 8. BENCH MARKS XX | 9. PLOTTING OF SEXTANT FIXES XX | 10. PHOTOGRAMMETRIC PLOT REPORT Bridge W.O. | 11. DETAIL POINTS Wild B-8 |
| ALONGSHORE AREAS (Nautical Chart Data) | | | |
| 12. SHORELINE CHB | 13. LOW-WATER LINE CHB | 14. ROCKS, SHOALS, ETC. CHB | 15. BRIDGES XX |
| 16. AIDS TO NAVIGATION XX | 17. LANDMARKS XX | 18. OTHER ALONGSHORE PHYSICAL FEATURES CHB | 19. OTHER ALONGSHORE CULTURAL FEATURES CHB |
| PHYSICAL FEATURES | | | |
| 20. WATER FEATURES CHB | | 21. NATURAL GROUND COVER CHB | 22. PLANETABLE CONTOURS XX |
| 23. STEREOSCOPIC INSTRUMENT CONTOURS XX | 24. CONTOURS IN GENERAL XX | 25. SPOT ELEVATIONS XX | 26. OTHER PHYSICAL FEATURES CHB |
| CULTURAL FEATURES | | | |
| 27. ROADS XX | 28. BUILDINGS XX | 29. RAILROADS XX | 30. OTHER CULTURAL FEATURES XX |
| BOUNDARIES | | | |
| 31. BOUNDARY LINES XX | | 32. PUBLIC LAND LINES XX | |
| MISCELLANEOUS | | | |
| 33. GEOGRAPHIC NAMES CHB | | 34. JUNCTIONS CHB | 35. LEGIBILITY OF THE MANUSCRIPT CHB |
| 36. DISCREPANCY OVERLAY XX | 37. DESCRIPTIVE REPORT CHB | 38. FIELD INSPECTION PHOTOGRAPHS XX | 39. FORMS CHB |
| 40. REVIEWER <i>Charles H Bishop</i> C.H. Bishop | | SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr. | |
| 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 | | SUPERVISOR | |
| 43. REMARKS There was no field edit performed within the area of this sheet. | | | |

T-12195

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-12195

SHORELINE

November 11, 1971

61. GENERAL STATEMENT

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

There is no previously registered topographic survey of this area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with USGS PETERSBURG (D-6), ALASKA, 1:63,360 scale quadrangle, edition of 1951 with minor revisions made in 1963. The two surveys are in good general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

The area of this map covers the tidal flats at the head of Hamilton Bay and there is no contemporary hydrography in the area.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart 8201, 16th edition dated November 7, 1970. The surveys are in good agreement.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:

Leo F. Beugnet
Leo F. Beugnet
Cartographer

Approved:

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

Approved:

Alfred C. Holmes
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 final 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-12198 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-12198 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

Charles H. Bishop
Cartographer
January, 1973

No comparison print bound with this report.
CNTB.