

12208

12208

| | |
|--|----------------------------------|
| <p>FORM C&GS-504</p> <p>U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY</p> <p>DESCRIPTIVE REPORT</p> | |
| <p>Type of Survey <u>Shoreline (Photogrammetric)</u></p> | |
| <p>Field No.</p> | <p>Office No. <u>T-12208</u></p> |
| <p>LOCALITY</p> | |
| <p>State <u>ALASKA</u></p> | |
| <p>General locality <u>KEKU STRAIT</u></p> | |
| <p>Locality <u>CAM ISLAND</u></p> | |
| <p><u>1961-1970</u></p> | |
| <p>CHIEF OF PARTY</p> | |
| <p>Alfred C. Holmes Director, Atlantic Marine Center</p> | |
| <p>LIBRARY & ARCHIVES</p> | |
| <p>DATE</p> | |

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR
TO REGISTRATION

DESCRIPTIVE REPORT - DATA RECORD

T- 12208

PROJECT NO. (II):

Ph-6206

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 (III) (III):

| | |
|-----------------------|-------------------|
| Office Supplement 111 | December 19, 1967 |
| Office Supplement IV | April 14, 1970 |
| Field Instructions | February 11, 1969 |
| Office Instructions | January 18, 1965 |

METHOD OF COMPILATION (III):

Wild B-8 Stereoplotter

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC 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):

Sept. 4, 1975

GEOGRAPHIC DATUM (III):

N.A. 1927

VERTICAL DATUM (III):

~~MEAN SEA LEVEL~~ ^{high water} 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):

Pass, 1969

LAT.:

56° 43' 19.8561"

LONG.:

133° 54' 24.1596"

ADJUSTED

UNADJUSTED

PLANE COORDINATES (IV):

x =

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-12208

| | | |
|--|--|--|
| FIELD INSPECTION BY (II): NONE | | DATE: |
| MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): AIR PHOTO COMPILATION Date of Photography: Aug. 24, 1969 | | |
| PROJECTION AND GRIDS RULED BY (IV): J. DEMPSEY | DATE April 10, 1970 | |
| PROJECTION AND GRIDS CHECKED BY (IV): E. HOMICK | DATE April 10, 1970 | |
| CONTROL PLOTTED BY (III): A. SHANDS | DATE June 11, 1970 | |
| CONTROL CHECKED BY (III): F. MARGIOTTA | DATE June 11, 1970 | |
| RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): ROBERT E. FISHER | DATE Feb. 19, 1970 | |
| STEREOSCOPIC INSTRUMENT COMPILATION (III): | PLANIMETRY A. Shands Reviewed R. White | DATE June 24, 1970 June 24, 1970 |
| | CONTOURS INAPPLICABLE | DATE |
| MANUSCRIPT DELINEATED BY (III): A. L. SHANDS | DATE June 26, 1970 | |
| SCRIBING BY (III): H. T. GANN | DATE July 28, 1967 | |
| PHOTOGRAMMETRIC OFFICE REVIEW BY (III): COMPILATION - L. L. GRAVES | DATE July 20, 1970 | |
| REMARKS: | | |

DESCRIPTIVE REPORT - DATA RECORD

T-12208

CAMERA (KIND OR SOURCE) (III):

Wild RC-8 "E" + "W"

PHOTOGRAPHS (III)

| NUMBER | DATE | TIME | SCALE | STAGE OF TIDE |
|----------------------------------|--------------|----------|----------|-----------------------|
| 61-W-9598 thru 9599B | 16 July 1969 | 1117 PST | 1:20,000 | 1.3 ft. above MLLW |
| 69E(c) - 1960 & 69E(c) - 1961 | 24 Aug 1969 | 1311 PST | 1:40,000 | 9.6 ft. above MLLW |

PREDICTED TIDE (III)

| | RATIO OF RANGES | MEAN RANGE | SPRING RANGE |
|--|-----------------|------------|--------------|
| REFERENCE STATION: KETCHIKAN, ALASKA | | 13.0 | 15.4 |
| COORDINATE STATION: PORT CAMDEN, KUIU ISLAND, ALASKA | | 11.5 | 13.9 |
| SUBORDINATE STATION: | | | |

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

DATE: May 1972

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:
These photographs were used to show only features below MHW.

T-12208

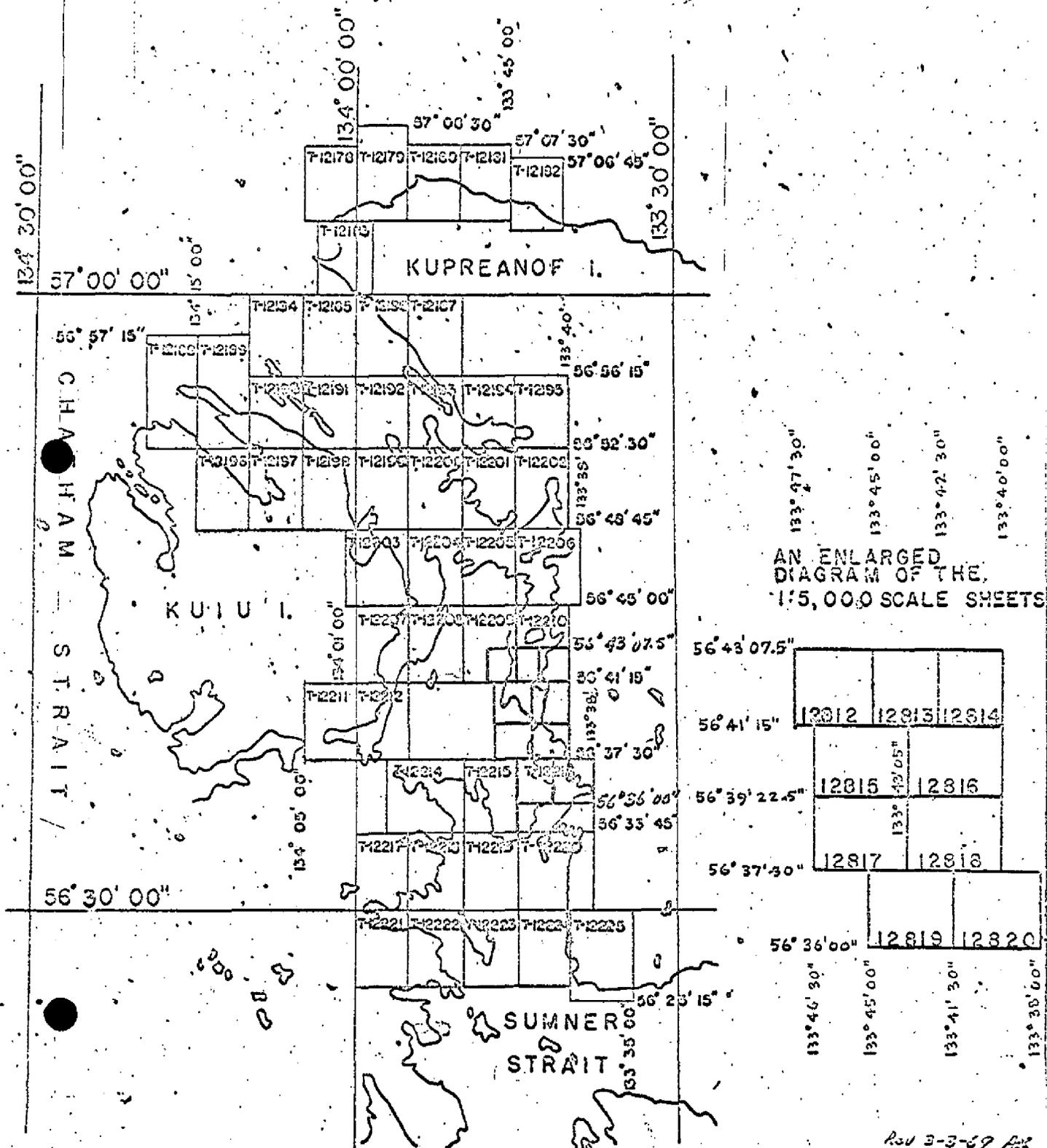
| COMPILATION RECORD | COMPLETION DATE | REMARKS |
|---|------------------|------------|
| COMPILATION COMPLETE, PENDING FIELD EDIT | June, 1970 | Superseded |
| FIELD EDIT APPLIED | July, 1971 | |
| <i>FINAL REVIEW</i> | <i>May, 1972</i> | |
| | | |
| | | |

SHORELINE MAPPING PROJECT

Ph-6206

KEKU STRAITS, ALASKA

SCALE 1:10,000



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

Rev 3-3-69 P&P
Rev. 9-65 R.G.
Revised 1-6-65

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12208

Shoreline survey T-12208 is one of 53 similar surveys in project PH-6206. The primary purpose of the surveys was to provide modern shoreline for nautical charts and photo-hydro support data for hydrographic surveys to be made in the same area. Because of difficulty during the time of aerotriangulation the compilation of T-12208 was delayed and it was not furnished for photo-hydro support use.

There was no field work prior to compilation with the exception of identification of horizontal control for aerotriangulation purposes. The survey was field edited during the 1970 field season subsequent to compilation.

Compilation was at 1:10,000 scale by Wild B-8 methods using the August 1969 photography supplemented by low water photography of July 1961. The 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 May 1972. One cronaflex positive and a negative are forwarded for record and registry.

FIELD INSPECTION REPORT

JOB PH-6206

There was no field inspection prior to compilation.

Aerotriangulation Report
PH-6206
Keku Strait, Alaska

February 19, 1970

21. Area Covered

This project covers areas in the vicinity of Keku Strait -
Kuiu 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 "CEN 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,

John P. Bernier Jr. for
Robert E. Fisher
Cartographer (Photo)

Approved and forwarded,

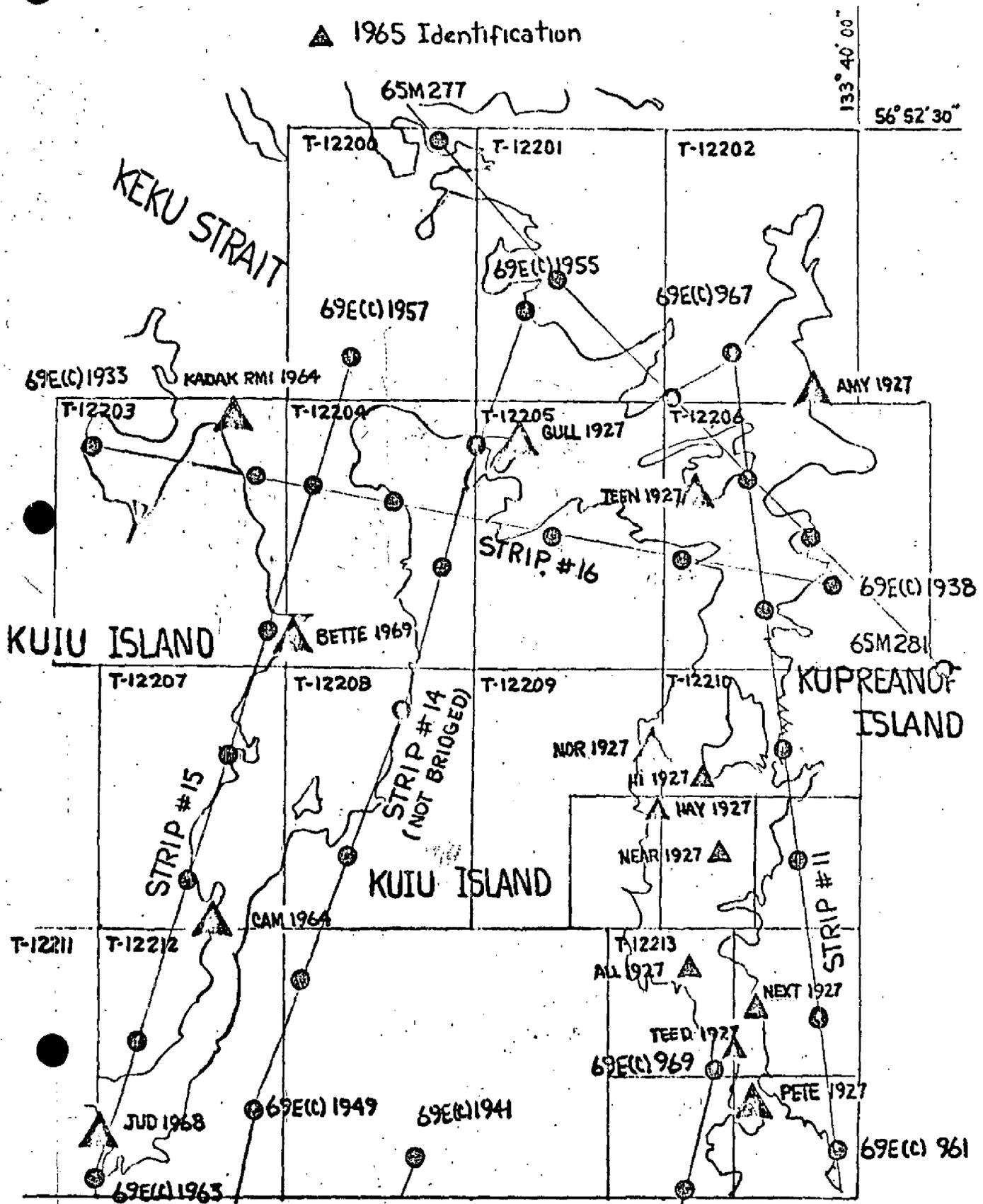
Henry P. Eichert
Henry P. Eichert
Chief, Aerotriangulation
Section

KEKU STRAIT ALASKA

PH 6206 FEB 1970

▲ 1969 Identification

▲ 1965 Identification



KEKU STRAIT ALASKA

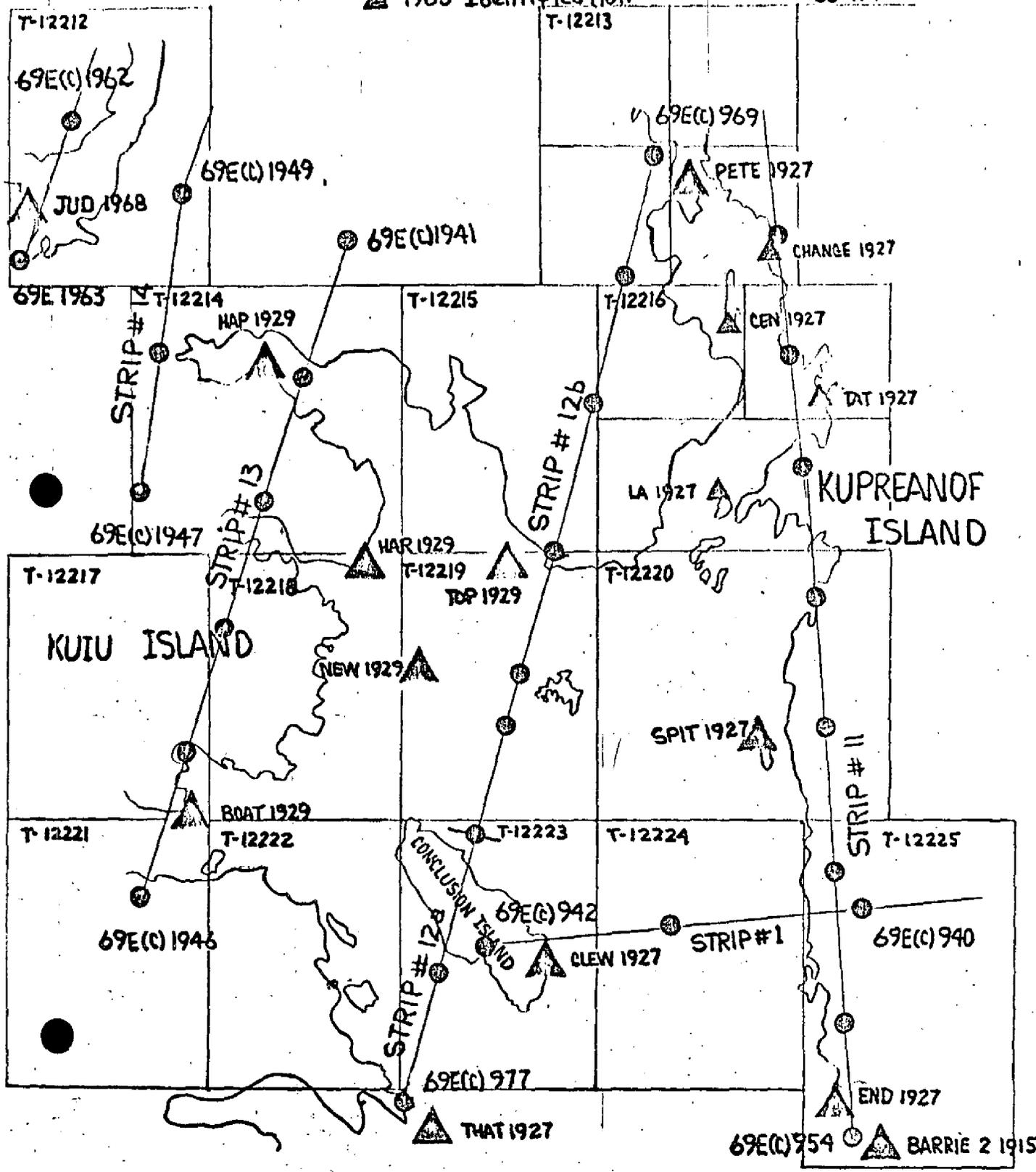
PH 6206

▲ 1969 Identification

▲ 1965 Identification

133° 40' 00"

56° 41' 15"



PH-6206

Compilation Report

T-12208

31. DELINEATION

The mean high water line was compiled from 1:40,000 scale color photography using the Wild B-8 stereo-plotter. All detail below the mean high water line was compiled graphically from 1:20,000 scale panchromatic photography.

There was no field inspection prior to compilation.

32. CONTROL

See "Aerotriangulation Report" dated February 19, 1970.

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

The mean high water line and all alongshore area detail shown was delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

No difficulty was experienced in locating and delineating the offshore detail of Cam Island. Office interpretation of these features is considered to be very good. A verification however has been asked of the field editor.

14

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Junctions are in agreement with T-12204 to the north, T-12209 to the east and T-12207 to the west. There is no contemporary survey to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. FIELD EDIT

~~Field edit was adequate. All questions were answered except for a few rock heights. References were also made to DA-10-4-69, which was not on file in this office.~~

~~Standard procedure calls for the field edit deletions to be made in green - this was not done.~~

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with U.S.G.S. Quadrangle PETERSBURG (C-6), ALASKA, scale 1:63,360, dated 1948.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with Chart 8201, scale 1:217,828, 15th edition dated November 15, 1969.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

A. L. Shands

A. L. Shands
Cartographer
7-1-70

Approved for forwarding:

Melvin J. Umbach

Melvin J. Umbach, CDR
Chief, Photogrammetry Division
Atlantic Marine Center

Approved:

Alfred C. Holmes

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

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6206 (Keku Strait, Alaska)

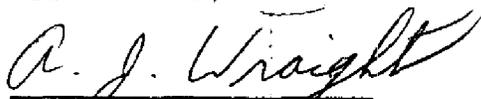
T-12208

Cam Island

Kuiu Island

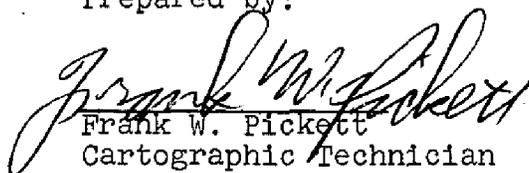
Port Camden

Approved by:



A. Joseph Wraight
Chief Geographer

Prepared by:



Frank W. Pickett
Cartographic Technician
O.K. 4-4-72

T-12208

49. NOTES FOR THE HYDROGRAPHER

None

PHOTOGRAMMETRIC OFFICE REVIEW

T-12208

| | | | |
|---|---|---|--|
| 1. PROJECTION AND GRIDS LLG | 2. TITLE LLG | 3. MANUSCRIPT NUMBERS LLG | 4. MANUSCRIPT SIZE LLG |
| CONTROL STATIONS | | | |
| 5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY LLG | 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 LLG | 11. DETAIL POINTS LLG |
| ALONGSHORE AREAS (Nautical Chart Data) | | | |
| 12. SHORELINE LLG | 13. LOW-WATER LINE LLG | 14. ROCKS, SHOALS, ETC. LLG | 15. BRIDGES XX |
| 16. AIDS TO NAVIGATION XX | 17. LANDMARKS XX | 18. OTHER ALONGSHORE PHYSICAL FEATURES XX | 19. OTHER ALONGSHORE CULTURAL FEATURES XX |
| PHYSICAL FEATURES | | | |
| 20. WATER FEATURES LLG | 21. NATURAL GROUND COVER XX | | 22. PLANETABLE CONTOURS XX |
| 23. STEREOSCOPIC INSTRUMENT CONTOURS XX | 24. CONTOURS IN GENERAL XX | 25. SPOT ELEVATIONS XX | 26. OTHER PHYSICAL FEATURES XX |
| 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 LLG | 34. JUNCTIONS LLG | | 35. LEGIBILITY OF THE MANUSCRIPT LLG |
| 36. DISCREPANCY OVERLAY LLG | 37. DESCRIPTIVE REPORT LLG | 38. FIELD INSPECTION PHOTOGRAPHS XX | 39. FORMS LLG |
| 40. REVIEWER L. L. GRAVES 7-20-70 | | SUPERVISOR, REVIEW SECTION OR UNIT A.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 J. Bulfer July 15, 1971 | | SUPERVISOR | |
| 43. REMARKS Field Edit applied from: Field Edit Ozalid, Field Photos 61 W 9590 and 69 E 1960 | | | |

FIELD EDIT REPORT
OPR-448
Port Camden
Southeast Alaska

INTRODUCTION

Field edit reports are attached for the following maps:

- T-12203
- T-12204
- T-12207
- T-12208
- T-12211
- T-12212

Field photographs and copies of the field edit ozalid were taken into the field. The mean high water line was verified by visual inspection of the shoreline and ozalids in the field and paced distances from photo-identifiable objects.

Notes have been made in red-violet ink on the photographs and cross-referenced with the ozalids. All times are based on 105. W meridian.

Field inspection of these maps is completed and it is recommended that they be revised in accordance with this field edit and accepted as advance manuscripts.

FIELD EDIT REPORT
MAP-T-12208
Southeast Alaska
OPR-448

The investigation was done by Lt(jg) Taguchi. Field work was done from a 17' boston whaler.

METHOD

Field photographs and a copy of the field edit ozalid were taken into the field. All verification was done by visual observation. The specific items of question, as listed on the ozalid were visited for verification. The MHWL was determined by pacing or direct measurement from a photo-identifiable object.

Notes have been made in violet on the field photographs and cross referenced in the field edit ozalid by circling the photograph number. Notes on the ozalid have been made in blue. Notes are on the following photographs:

69 E 1960
61 W 9590

ADEQUACY OF COMPILATION

The compilation of the map appears to be adequate.

RECOMMENDATIONS

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

Respectfully submitted,

F.T. Smith

F.T. Smith
LCdr. NOAA

APPROVAL SHEET FOR FIELD EDIT
OPR-448
Port Camden

The field edit of the following manuscripts was accomplished under my supervision:

- T-12203
- T-12204
- T-12207
- T-12208
- T-12211
- T-12212

Inspection of the work was made.

Ray E. Moses
Ray E. Moses
CBR. NOAA
Commanding Officer
NOAA Ship DAVIDSON

REVIEW REPORT T-12208

SHORELINE

May 2, 1972

61. GENERAL STATEMENT

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A visual comparison was made with a copy of registered survey No. 2116. This is a 1:80,000 scale survey made in 1893. It is now obsolete and is superseded by T-12208 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. PETERSBURG (C-6), ALASKA, 1:63,360 scale quadrangle, edition of 1948. The two surveys are in good general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet H-9082 (DA-10-4-69). The hydrography on this survey was accomplished prior to the compilation of T-12208 and therefore has no mean high water line, reefs or ledges.

A rock at latitude 56° 43' 26", longitude 133° 52' 40" on the boat sheet is not visible on photographs of the area.

The mean lower low water line of the surveys is not in complete agreement. It has been retained on T-12208 and noted as approximate for any value it may be to the nautical chart compiler.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart 8201, 16th edition, dated November 7, 1970. The surveys are in general agreement, no major discrepancies were noted.

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
Cartographer

Approved for forwarding:



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