

12212

12212

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-12212
LOCALITY	
<i>State</i> ALASKA	
<i>General locality</i> KEKU STRAIT	
<i>Locality</i> PORT CAMDEN, SOUTH END	
<u>19.61-1970</u>	
CHIEF OF PARTY	
Alfred C. Holmes Director, Atlantic Marine Center	
LIBRARY & ARCHIVES	
DATE	

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR
TO REGISTRATION

DESCRIPTIVE REPORT - DATA RECORD
T - 12212

PROJECT NO. (II): ● PH-6206		
FIELD OFFICE (II): NONE	CHIEF OF PARTY	
PHOTOGRAMMETRIC OFFICE (III): ATLANTIC MARINE CENTER, NORFOLK, VA.	OFFICER-IN-CHARGE Alfred C. Holmes	
INSTRUCTIONS DATED (II) (III): OFFICE SUPPLEMENT III 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): <i>Sept. 4, 1975</i>
GEOGRAPHIC DATUM (III): N.A. 1927	VERTICAL DATUM (III) MEAN HIGH WATER MEAN SEA LEVEL EXCEPT AS FOLLOWS: <i>Elevations shown as (25) refer to mean high water</i> <i>Elevations shown as (5) refer to sounding datum</i> <i>i.e., mean low water or mean lower low water</i>	
REFERENCE STATION (III): CAM 1964		
LAT.: 56°41'10.29"(318.3)M	LONG.: 133°56'59.11"(1006.3)M	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> 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-12212

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 22, 1970 June 23, 1970
	CONTOURS INAPPLICABLE	DATE
MANUSCRIPT DELINEATED BY (III): C. E. BLOOD	DATE June 30, 1970	
SCRIBING BY (III): H. GANN	DATE Aug. 30, 1971	
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): F. P. MARGIOTTA	DATE July 9, 1970	
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD

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CAMERA (KIND OR SOURCE) (III):

WILD RC-8 "E" + "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
69E(c)1962 and 69E(c)1963	Aug. 24, 1969	1311 PST	1:40,000	9.6 ft. above MLLW
61W(P)9592 thru 61W(P)9595	July 16, 1961	1108 PST	1:20,000	0.8 ft. above MLLW

PREDICTED TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: KETHIKAN, ALASKA		13.0	15.4
COORDINATE STATION: PORT CAMDEN		11.5	13.9
SUBORDINATE STATION:			

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

DATE: *May 1972*

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 2	RECOVERED: 2	IDENTIFIED: 2
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-12212

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>	

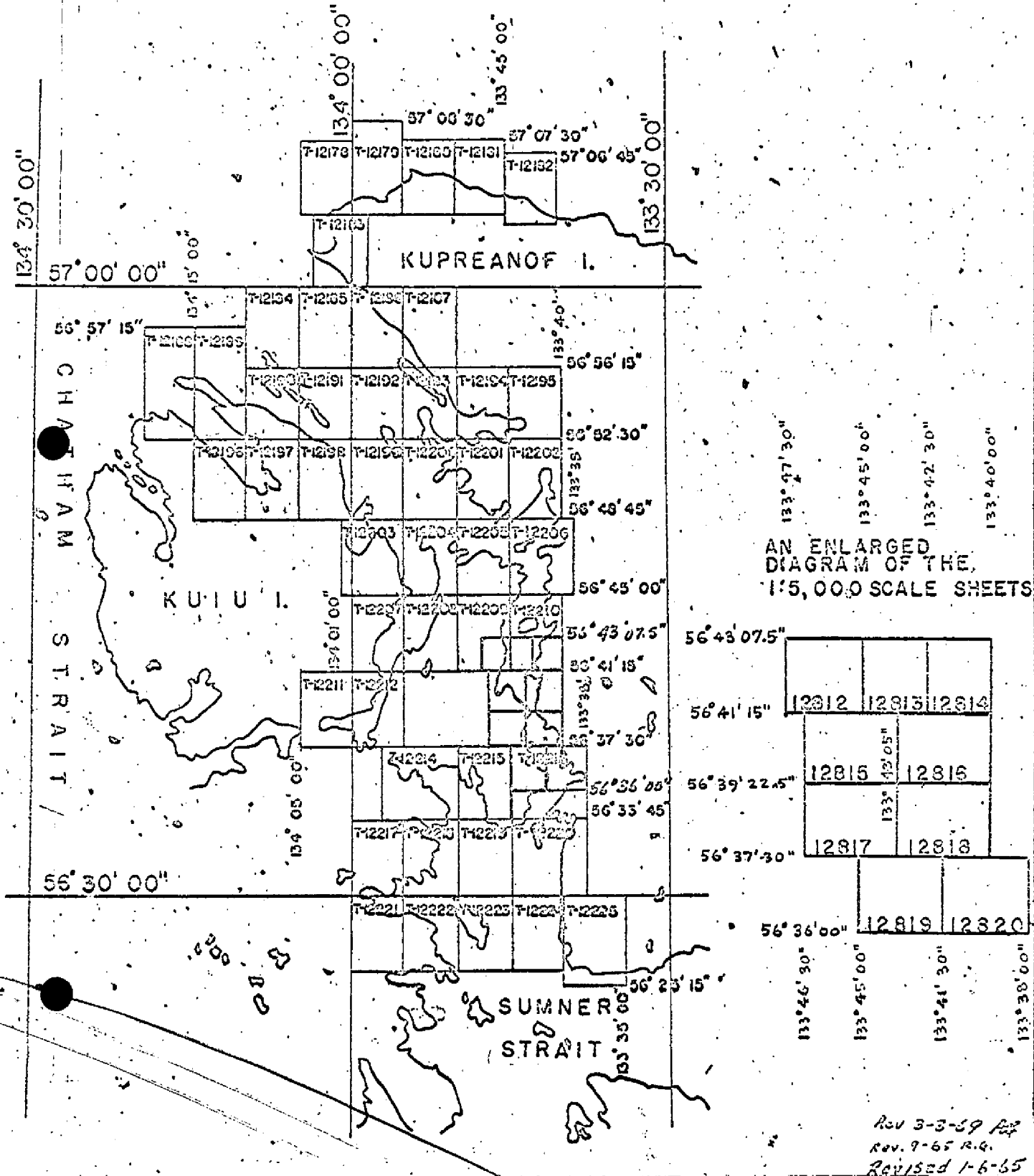
SHORELINE MAPPING PROJECT

Ph-6206

KEKU STRAITS, ALASKA

SCALE 1:10,000

5



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

Rev 3-3-59 R.P.
Rev. 7-65 R.G.
Revised 1-6-65

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12212

Shoreline survey T-12212 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 aerotriangulation compilation of this survey was delayed and data was not furnished for photo-hydro support.

With the exception of identification of horizontal control for aerotriangulation, there was no field work prior to compilation. The survey was field edited in August 1970.

Compilation was at 1:10,000 scale by Wild B-8 methods using the photography of August 1969 supplemented by 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 of the final reviewed survey are forwarded for record and registry.

FIELD INSPECTION REPORT

JOB PH-6206

T-12212

There was no field inspection prior to compilation.

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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 "Summer 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,

Robert E. Fisher
Robert E. Fisher
Cartographer (Photo)

Approved and forwarded,

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

KEKU STRAIT ALASKA

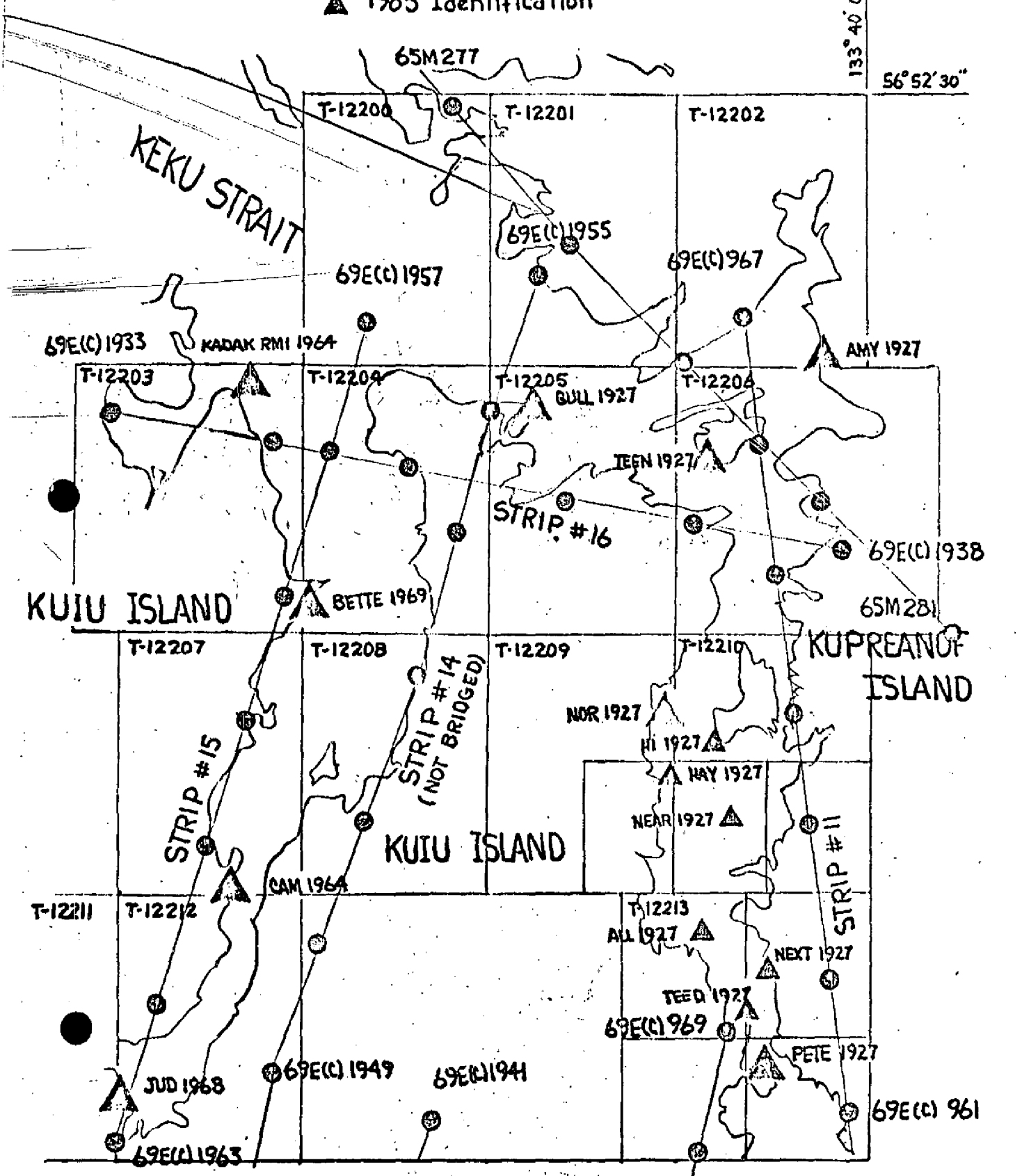
PH 6206 FEB 1970

▲ 1969 Identification

▲ 1965 Identification

133° 40' 00"

56° 52' 30"



KEKU STRAIT ALASKA PH 6206

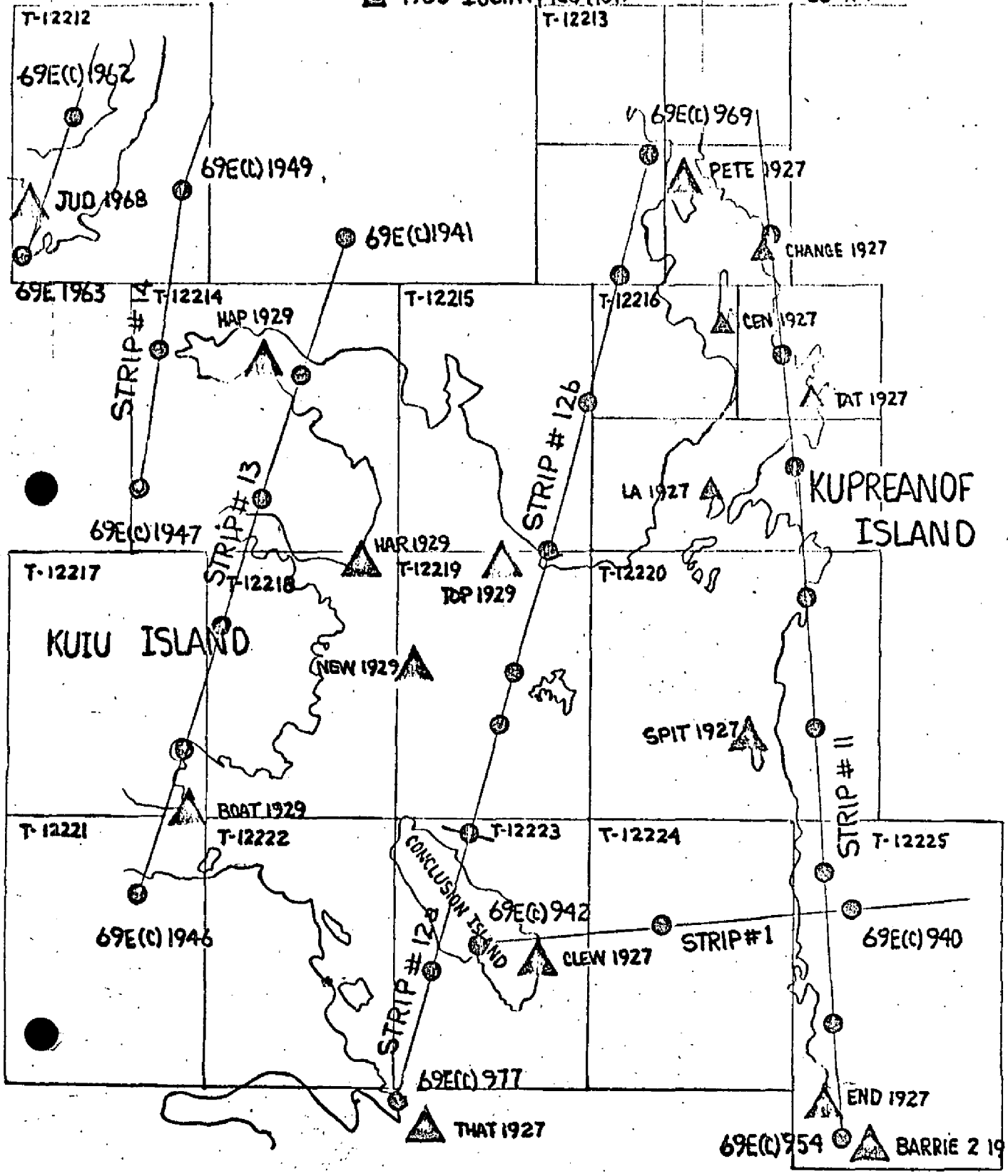
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▲ 1969 Identification

▲ 1965 Identification

133° 40' 00"

56° 41' 15"



Compilation Report

T-12212

31. DELINEATION

The mean high water line was delineated from 1:40,000 scale color photography of August, 1969. All detail below the mean high water line was compiled graphically from 1:20,000 scale panchromatic photography of July, 1961.

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 details were compiled from office interpretation of the photographs without benefit of prior field inspection.

36. OFFSHORE DETAILS

Rocks, awash and reef areas were compiled from the 1961 Photographs, 0.8 feet above mean lower low water line, by office interpretation.

37. LANDMARKS AND AIDS

None

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38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Satisfactory shoreline junctions were made with T-12211 to the west, T-12207 to the north and T-12214 to the south. There is no contemporary survey to the east.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS Quadrangle, PETERSBURG (C-6), ALASKA, scale 1:63,360, dated 1948, minor revisions 1963.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with C&GS 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:

Charles E. Blood
Charles E. Blood
Cartographic Technician
July 8, 1970

Approved for forwarding:

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

Approved:



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

T-12212

49. NOTES FOR THE HYDROGRAPHER

None

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6206 (Keku Strait, Alaska)

T-12212

Kuiu Island

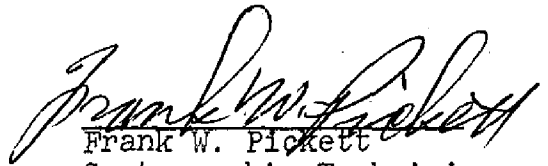
Port Camden

Approved by:



A. Joseph Wraight
Chief Geographer

Prepared by:



Frank W. Pickett
Cartographic Technician

O.K. 4-4-72

PHOTOGRAMMETRIC OFFICE REVIEW

T¹-12212

1. PROJECTION AND GRIDS FPM	2. TITLE FPM	3. MANUSCRIPT NUMBERS FPM	4. MANUSCRIPT SIZE FPM
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY FPM	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX		7. PHOTO HYDRO STATIONS XX
8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT FPM	11. DETAIL POINTS FPM
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE FPM	13. LOW-WATER LINE XX	14. ROCKS, SHOALS, ETC. FPM	15. BRIDGES FPM
16. AIDS TO NAVIGATION FPM	17. LANDMARKS FPM	18. OTHER ALONGSHORE PHYSICAL FEATURES FPM	19. OTHER ALONGSHORE CULTURAL FEATURES FPM
PHYSICAL FEATURES			
20. WATER FEATURES FPM		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 FPM
CULTURAL FEATURES			
27. ROADS FPM	28. BUILDINGS FPM	29. RAILROADS FPM	30. OTHER CULTURAL FEATURES FPM
BOUNDARIES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES FPM		34. JUNCTIONS FPM	35. LEGIBILITY OF THE MANUSCRIPT FPM
36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT FPM	38. FIELD INSPECTION PHOTOGRAPHS XX	39. FORMS
40. REVIEWER Frank P. Margiotta 7/10/70		SUPERVISOR, REVIEW SECTION OR UNIT	
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 C. Blood 7-9-71		SUPERVISOR	
43. REMARKS Field edit applied from: Field Edit Ozalid and Field Photo 69 E 1963			

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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-12212
Southeast Alaska
Port Camden South End

The field edit was performed by LCdr. F.T. Smith from a small boat.

METHOD

The field edit ozalid and field photographs were taken into the field and the items in question were inspected. All verifications were by visual means. Shoreline was inspected where possible and MHW line determined by observations. Notes have been made on the field ozalid and cross referenced to the photographs 69E1963. The T sheet was compared to the 1969 hydrography and the shoreline agreed. All times are on the 105° W meridian. There were no aides to navigation or landmarks on this map.

ADEQUACY OF COMPILATION

Compilation of this map appears to be adequate. Field inspection is complete.

RECOMMENDATIONS

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

Respectfully submitted,



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
CER. NOAA
Commanding Officer
NOAA Ship DAVIDSON

REVIEW REPORT T-12212

SHORELINE

MAY 8, 1972

61. GENERAL STATEMENT

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

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-12212 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with USGS 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-9083 (DA-10-5-69). That survey was accomplished prior to the compilation of T-12212 and no mean high water line, reefs or rocks are shown on the boat sheet. The mean lower low water line of the two surveys is not in perfect agreement, however that line has been retained on T-12212 for any value it may be to the nautical chart compiler.

A submerged rock at latitude 56° 38' 33", longitude 133° 58' 07" is shown on the boat sheet only with a depth of 0.8 fathoms. The image on photographs 61W9506-9507 indicates a small submerged reef at this position.

65. COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with Chart 8201, 16th edition, dated November 7, 1970. 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

Leo F. Beugnet
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

Approved:

Chief, Photogrammetric Branch Chief, Coastal Mapping Division