

12203

12203

<p>FORM C&amp;GS-504</p> <p>U.S. DEPARTMENT OF COMMERCE          ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION          COAST AND GEODETIC SURVEY</p> <p><b>DESCRIPTIVE REPORT</b></p>	
<p>Type of Survey <u>Shoreline (Photogrammetric)</u></p>	
<p>Field No. ....</p>	<p>Office No. <u>T-12203</u></p>
<p>LOCALITY</p>	
<p>State <u>Alaska</u></p>	
<p>General locality <u>Keku Strait</u></p>	
<p>Locality <u>KADAKE BAY</u></p>	
<p><u>1961-1970</u></p>	
<p>CHIEF OF PARTY</p>	
<p>Alfred C. Holmes, Director, AMC</p>	
<p>LIBRARY &amp; ARCHIVES</p>	
<p>DATE .....</p>	

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR  
TO REGISTRATION

DESCRIPTIVE REPORT - DATA RECORD

T - 12203

PROJECT NO. (II):  
PH-6206

FIELD OFFICE (III): NONE	CHIEF OF PARTY
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PHOTOGRAMMETRIC OFFICE (III): AMC, NORFOLK, VA.	OFFICER-IN-CHARGE Alfred C. Holmes, Director
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INSTRUCTIONS DATED (II) (III):

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

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
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DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):
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APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV): Sept. 4, 1975
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GEOGRAPHIC DATUM (III): N. A. 1927	VERTICAL DATUM (III) Mean High Water MEAN SEA LEVEL 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
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REFERENCE STATION (III):  
KADAK 1964

LAT.: 56°48'23.50" (726.9M)	LONG.: 133°56'27.88" (473.1M)	<input type="checkbox"/> ADJUSTED <input checked="" type="checkbox"/> UNADJUSTED field position
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PLANE COORDINATES (IV): Y = X =	STATE Alaska	ZONE 1
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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-12203

FIELD INSPECTION BY (iii):  NONE	DATE:
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MEAN HIGH WATER LOCATION (iii) (STATE DATE AND METHOD OF LOCATION):

Air Photo Compilation  
Date of Photography: July 16, 1961  
Aug. 24, 1969

PROJECTION AND GRIDS RULED BY (iv):  J. Dempsey	DATE  April 10, 1970
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PROJECTION AND GRIDS CHECKED BY (iv):  E. Homick	DATE  April 10, 1970
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CONTROL PLOTTED BY (iii):  A. Shands	DATE  June 11, 1970
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CONTROL CHECKED BY (iii):  F. Margiotta	DATE  June 11, 1970
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RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (iii):  Robert E. Fisher	DATE  Feb. 19, 1970
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STEREOSCOPIC INSTRUMENT COMPILATION (iii):	PLANIMETRY A. Shands Reviewed A. C. Rauck, Jr.	DATE June 16, 1970 June 16, 1970
	CONTOURS  INAPPLICABLE	DATE

MANUSCRIPT DELINEATED BY (iii):  B. Wilson	DATE  June 26, 1970
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SCRIBING BY (iii):  H. Gann	DATE  July 20, 1971
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PHOTOGRAMMETRIC OFFICE REVIEW BY (iii): Compilation - F. P. Margiotta	DATE July 6, 1970
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REMARKS:  
Field Edit By LCDR F. T. Smith  
  
August, 1970

**DESCRIPTIVE REPORT - DATA RECORD**

T-12203

AREA (KIND OR SOURCE) (III):

Wild RC-8 "E" and "W"

**PHOTOGRAPHS (III)**

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
69E(c)-1933-1934	Aug 24, 1969	1242 PST	1:40,000	10.3 ft. above MLLW
69E(c)-1959	"	1311 PST	"	9.6 ft. above MLLW
61 W-9395	July 16, 1961	0844 PST	1:20,000	0.5 ft. above MLLW
61 W-9585	July 16, 1961	1108 PST	1:20,000	0.8 ft. above MLLW
61 W-9586	July 16, 1961	1108 PST	1:20,000	0.8 ft. above MLLW
61 W-9587	July 16, 1961	1108 PST	1:20,000	0.8 ft. above MLLW

**TIDE (III)**

**DIURNAL**

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

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

DATE: April, 1972

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

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-12203

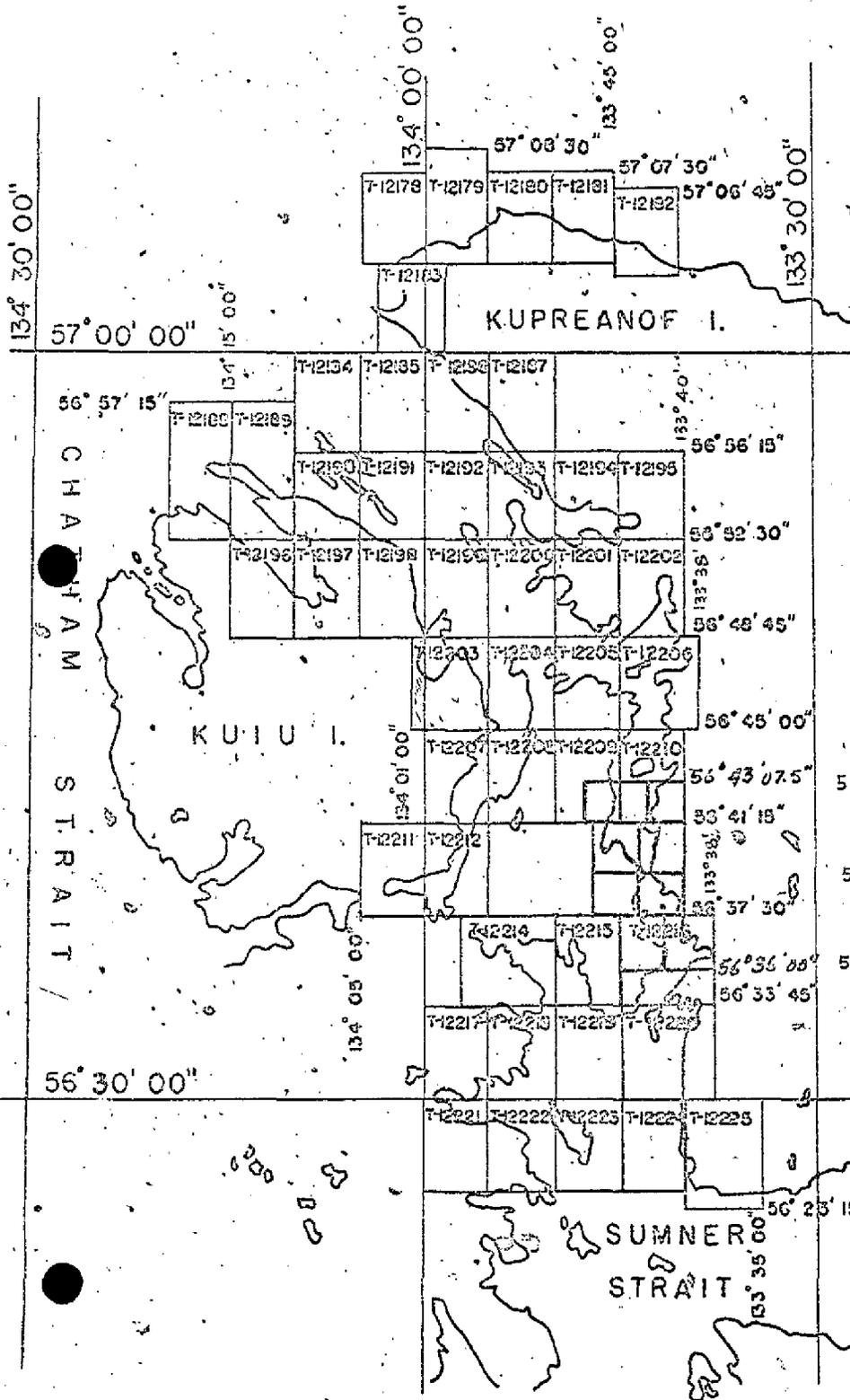
COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete, Pending Field Edit	June 26, 1970	Superseded
Field Edit Applied	July 9, 1970	
Final Review	April, 1972	

# SHORELINE MAPPING PROJECT

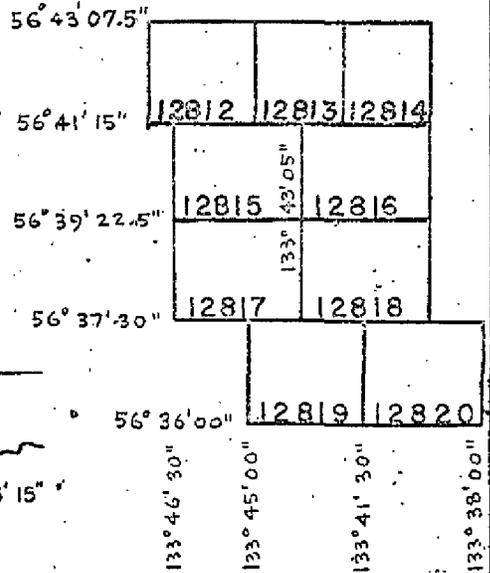
Ph-6206

## KEKU STRAITS, ALASKA

### SCALE 1:10,000



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



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

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-12203

Shoreline survey T-12203 is one of 53 similar surveys in project PH-6206. The primary purpose of the survey was to provide modern shoreline for nautical charts and photo-hydro support data for hydrographic surveys in the Keku Strait area. Because of difficulty during Aerotriangulation the compilation of the manuscript was delayed and not furnished for hydro support.

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

Compilation was at 1:10,000 scale by Wild B-8 plotter methods using the photography of July 1961 and August 1969. The manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 6 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 April 1972. One cronaflex positive and a negative of the final reviewed survey 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.

Saturday \_\_\_\_\_ at \_\_\_\_\_ and \_\_\_\_\_ P.M.

\_\_\_\_\_ at \_\_\_\_\_ and \_\_\_\_\_ P.M.

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. Brown Jr. for*  
Robert E. Fisher  
Cartographer (Photo)

Approved and forwarded,

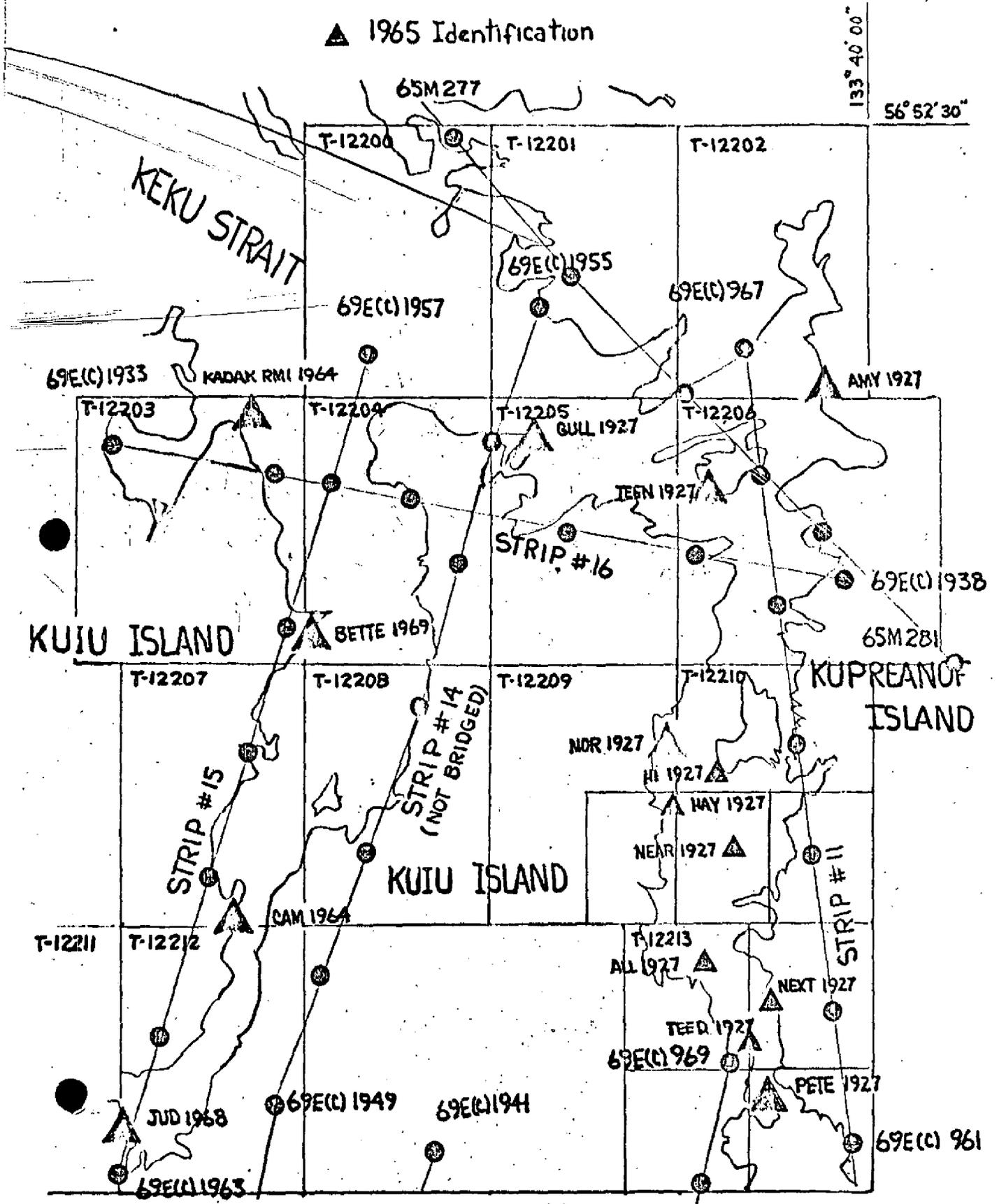
*Henry P. Eichert*  
Henry P. Eichert  
Chief, Aerotriangulation  
Section

# KEKU STRAIT ALASKA

PH 6206 FEB 1970

▲ 1969 Identification

▲ 1965 Identification



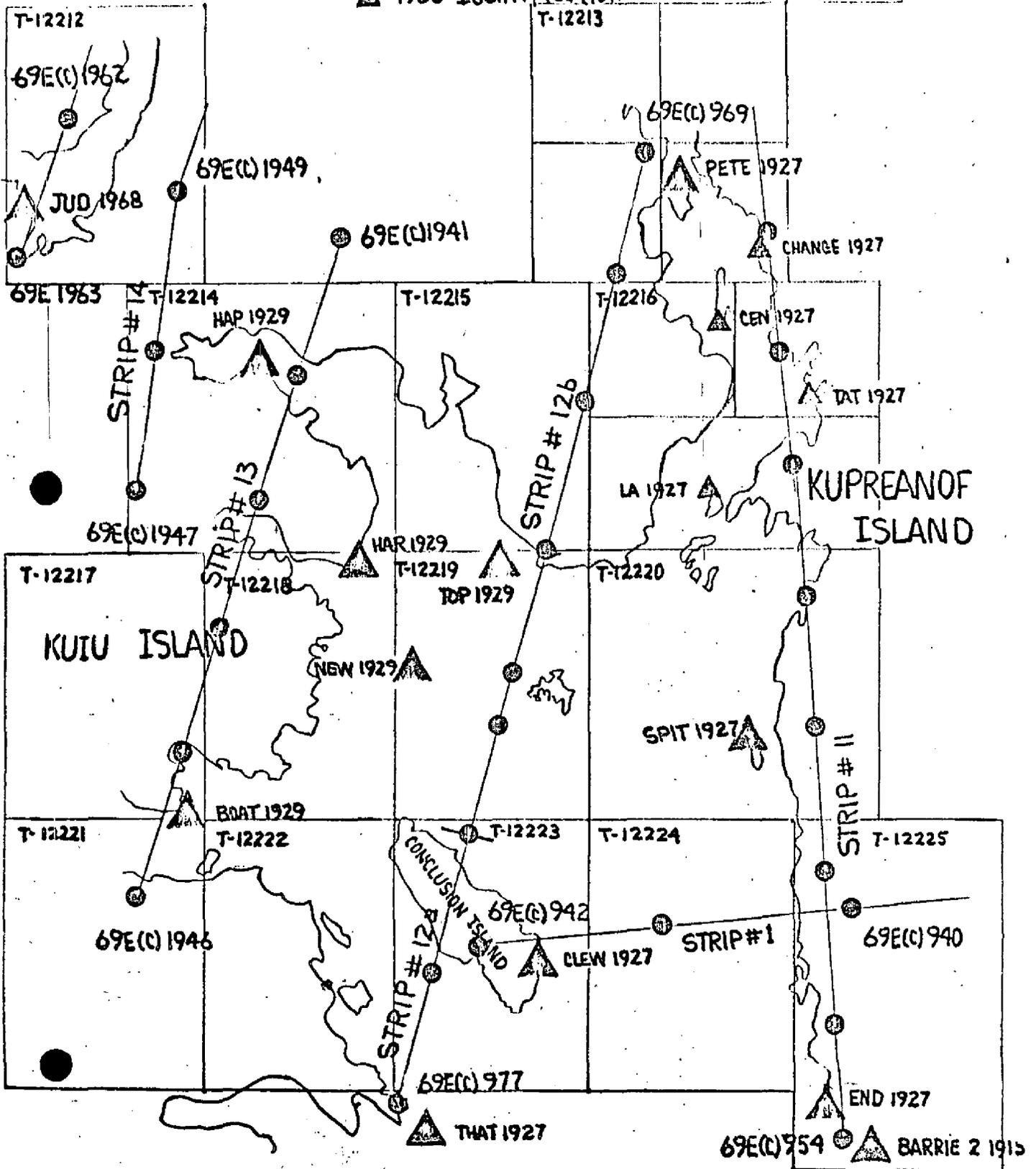
# KEKU STRAIT ALASKA PH 6206

▲ 1969 Identification

▲ 1965 Identification

133° 40' 00"

56° 41' 15"





## COMPILATION REPORT

T-12203

31. DELINEATION

Delineation was by Wild B-8 plotter methods using the 1:40,000 scale color photography of August 24, 1969. The mean lower low water line was compiled from the 1:20,000 scale panchromatic photography of July 16, 1961 by graphic methods.

32. CONTROL

The horizontal control established by aerotriangulation was adequate for control of the 1:40,000 scale photography.

33. SUPPLEMENTAL DATA

No supplemental data was used for compilation of the survey.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

The drainage was delineated by office interpretation of the photography.

35. SHORELINE AND ALONGSHORE DETAILS

The mean high water line, mean lower low water line, ledges, rocks and all other alongshore detail were delineated by office interpretation of the photography. There are no piers, wharves, or other structures within the limits of the survey.

36. OFFSHORE DETAILS

No unusual difficulty was encountered in compiling the offshore details with the exception of distinguishing rocks from small patches of kelp. An investigation of all rocks shown on the survey has been requested on the field edit ozalid.

37. LANDMARKS AND AIDS

There are no landmarks or fixed aids to navigation within the limits of the survey.

38. CONTROL FOR FUTURE SURVEYS:

No control for future surveys was established.

39. JUNCTIONS

Satisfactory junctions have been made with survey T-12199 to the north; T-12204 to the east and T-12207 to the south. There is no contemporary survey to the west.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with PETERSBURG (D-6), ALASKA, 1:63,360, scale quadrangle, dated 1951 with minor revisions made in 1963. No outstanding discrepancies were noted.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with chart 8201, 15th edition, dated November 15, 1969 and corrected through N.M. 46/69.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None

ITEMS TO BE CARRIED FORWARD:

None

Respectfully submitted:

*B. Wilson*

B. Wilson  
Cartographic Technician  
June 26, 1970

Approved and forwarded:

*Melvin J. Ubbach*

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

Approved:

*Alfred C. Holmes*

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

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6206 (Keku Strait, Alaska)

T-12203

Kadake Bay

Kadake Creek

Kuiu Island

Port Camden

Approved by:

*A. J. Wraight*

A. Joseph Wraight  
Chief Geographer

Prepared by:

*Frank W. Pickett*

Frank W. Pickett  
Cartographic Technician

O.K. 4-4-72

49. NOTES TO THE HYDROGRAPHER

None

PHOTOGRAMMETRIC OFFICE REVIEW

T- 12203

17

1. PROJECTION AND GRIDS LLG		2. TITLE LLG		3. MANUSCRIPT NUMBERS LLG		4. MANUSCRIPT SIZE LLG	
<b>CONTROL STATIONS</b>							
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY LLG			6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX			7. PHOTO HYDRO STATIONS	
8. BENCH MARKS XX		9. PLOTTING OF SEXTANT FIXES XX		10. PHOTOGRAMMETRIC PLOT REPORT		11. DETAIL POINTS	
<b>ALONGSHORE AREAS (Nautical Chart Data)</b>							
12. SHORELINE LLG		13. LOW-WATER LINE LLG		14. ROCKS, SHOALS, ETC. LLG		15. BRIDGES LLG	
16. AIDS TO NAVIGATION		17. LANDMARKS		18. OTHER ALONGSHORE PHYSICAL FEATURES		19. OTHER ALONGSHORE CULTURAL FEATURES	
<b>PHYSICAL FEATURES</b>							
20. WATER FEATURES			21. NATURAL GROUND COVER			22. PLANETABLE CONTOURS XX	
23. STEREOSCOPIC INSTRUMENT CONTOURS XX		24. CONTOURS IN GENERAL XX		25. SPOT ELEVATIONS XX		26. OTHER PHYSICAL FEATURES	
<b>CULTURAL FEATURES</b>							
27. ROADS LLG		28. BUILDINGS LLG		29. RAILROADS LLG		30. OTHER CULTURAL FEATURES LLG	
<b>BOUNDARIES</b>							
31. BOUNDARY LINES XX				32. PUBLIC LAND LINES XX			
<b>MISCELLANEOUS</b>							
33. GEOGRAPHIC NAMES LLG			34. JUNCTIONS FPM			35. LEGIBILITY OF THE MANUSCRIPT LLG	
36. DISCREPANCY OVERLAY FPM		37. DESCRIPTIVE REPORT FPM		38. FIELD INSPECTION PHOTOGRAPHS XX		39. FORMS	
40. REVIEWER LLG & FPM				SUPERVISOR, REVIEW SECTION OR UNIT			
41. REMARKS (See attached sheet)							
<b>FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT</b>							
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 Thomas Bulfer				SUPERVISOR			
43. REMARKS Field Edit Applied From: Field Edit Ozalid, and Field Edit Photographs 61 W 9395 and 69 E 1933.							

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-12203  
Southeast Alaska  
Kadake Bay Keku Straits

This investigation was conducted by LCdr. F.T. Smith. Field work was performed from a small boat.

METHOD

Copies of the field edit ozalid and field photographs were taken into the field and the individual items in question were visited. Information on those items is listed on the ozalid and cross referenced to photograph 61W9395. There were no landmarks or fixed aides to navigation on this map. The tidal flat in Kadake Bay was visited on three occasions. Twice at low tide and once at high tide in order to visit the areas marked A. In the area marked A in the NW corner of Kadake Bay the gently sloping flats made the MHWL indistinct but it appeared to be the grass-line which was from ten to twenty feet out from the tree line. A shore-line has been indicated on the photograph. All times are on the 105° W meridian.

ADEQUACY OF COMPILATION

The compilation of the map appears to be good.

RECOMMENDATIONS

It is recommended that this manuscript be revised in accordance with the notes on the ozalid and photographs 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*  
Ray E. Moses  
CDR, NOAA  
Commanding Officer  
NOAA Ship DAVIDSON

REVIEW REPORT T-12203

SHORELINE

April 3, 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. 4332, a 1:20,000 scale survey made in August and September 1927. The shoreline of these two surveys is not in good agreement. The older survey is now obsolete and is superseded by T-12203 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with U.S.G.S. PORT ALEXANDER (D-1) and PETERSBURG (D-6) ALASKA, 1:63,360 scale quadrangles, editions of 1948. The surveys were found to be 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-12203. No mean high water line, rocks, ledges or foul areas are shown on the boat sheet.

The mean lower low water line of the two surveys is in good general agreement although there are minor differences in some areas. This line has been indicated as approximate and retained on the shoreline manuscript for any value it may be to the nautical chart compiler.

65. COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with chart 8201, 16th edition, dated November 7, 1970. No major discrepancies between the two surveys were noted.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Because of the lack<sup>of</sup> shoreline and alongshore detail on the boat sheet, no comparison print is necessary for this survey.

Reviewed by:

*Leo F. Beugnet*  
Leo F. Beugnet  
Cartographer

Approved and forwarded:

*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