

12817

12817

FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE  
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION  
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. Office No. T-12817

LOCALITY

State Alaska

General locality Keku Strait

Locality N.W. Of Eagle Island

19 61-1969

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-12817

**OBJECT NO. (II):**  
PH-6206

<b>FIELD OFFICE (II):</b> None	<b>CHIEF OF PARTY</b>
-----------------------------------	-----------------------

<b>PHOTOGRAMMETRIC OFFICE (III):</b> Atlantic Marine Center, Norfolk, Va.	<b>OFFICER-IN-CHARGE</b> Alfred C. Holmes, Director AMC
------------------------------------------------------------------------------	------------------------------------------------------------

**INSTRUCTIONS DATED (II) (III):**

OFFICE INSTRUCTIONS	January 18, 1965
" SUPPLEMENT III	December 19, 1967
" " IV	April 14, 1970
FIELD INSTRUCTIONS	February 11, 1969

**METHOD OF COMPILATION (III):**  
Wild B-8 and Graphic

<b>MANUSCRIPT SCALE (III):</b> 1:5,000	<b>STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):</b> 1:7,500 Pantographed To 1:5,000
-------------------------------------------	-----------------------------------------------------------------------------------------

<b>TIME RECEIVED IN WASHINGTON OFFICE (IV):</b>	<b>DATE REPORTED TO NAUTICAL CHART BRANCH (IV):</b>
-------------------------------------------------	-----------------------------------------------------

<b>APPLIED TO CHART NO.</b>	<b>DATE:</b>	<b>DATE REGISTERED (IV):</b> Sept. 4, 1975
-----------------------------	--------------	-----------------------------------------------

<b>GEOGRAPHIC DATUM (III):</b> N.A. 1927	<b>VERTICAL DATUM (III):</b> <b>MEAN HIGH WATER</b> MEAN SEA LEVEL EXCEPT AS FOLLOWS: Elevations shown as (25) refer to mean high water Elevations shown as (3) refer to sounding datum i.e., mean low water or mean lower low water
---------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**REFERENCE STATION (III):**  
HAR 1927

<b>LAT.:</b> 56°39'10.135" (313.5m)	<b>LONG.:</b> 133°43'09.407" (160.3m)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
----------------------------------------	------------------------------------------	-------------------------------------------------------------------------------------

<b>PLANE COORDINATES (IV):</b> y=1,760,371.51 Ft.      x=2,675,056.11 Ft.	<b>STATE</b> ALASKA	<b>ZONE</b> 1
------------------------------------------------------------------------------	------------------------	------------------

**MAN 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-12817

FIELD INSPECTION BY (II):  None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  AIR PHOTO COMPILATION Date of Photography: June 16, 1964		
PROJECTION AND GRIDS RULED BY (IV):  L.F. Van Scoy		DATE Sept. 20, 1967
PROJECTION AND GRIDS CHECKED BY (IV):  R. Glaser		DATE Sept. 21, 1967
CONTROL PLOTTED BY (III):  B.L. Barge		DATE Nov. 15, 1967
CONTROL CHECKED BY (III):  L.O. Neterer		DATE Nov. 15, 1967
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):  W. Heinbaugh		DATE _____
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY J.R. Minton B.L. Barge	DATE March 5, 1968 March 26, 1968
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III):  L.L. Graves		DATE July 26, 1968
SCRIBING BY (III):  F.P. Margiotta		DATE Feb. 4, 1972
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):  C.H. Bishop		DATE July 25, 1968
REMARKS:		

**DESCRIPTIVE REPORT - DATA RECORD**  
T-12817

CAMERA (KIND OR SOURCE) (III):  
Wild RC-8 "W"

**PHOTOGRAPHS (III)**

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64-W(c)-1148AND1149	16 June 1964	10:44	1:15,000	4.0 Ft. Above MLLW

Predicted TIDE (III) Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Ketchikan, Alaska		13.0	15.4
SUBORDINATE STATION: Beck Island, Keku Strait		11.5	13.8
SUBORDINATE STATION:			

Atlantic Marine Center  
WASHINGTON OFFICE REVIEW BY (IV): C.H. Bishop  
DATE: Sept. 20, 1972

PROOF EDIT BY (IV):  
DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 1	RECOVERED: 1	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:

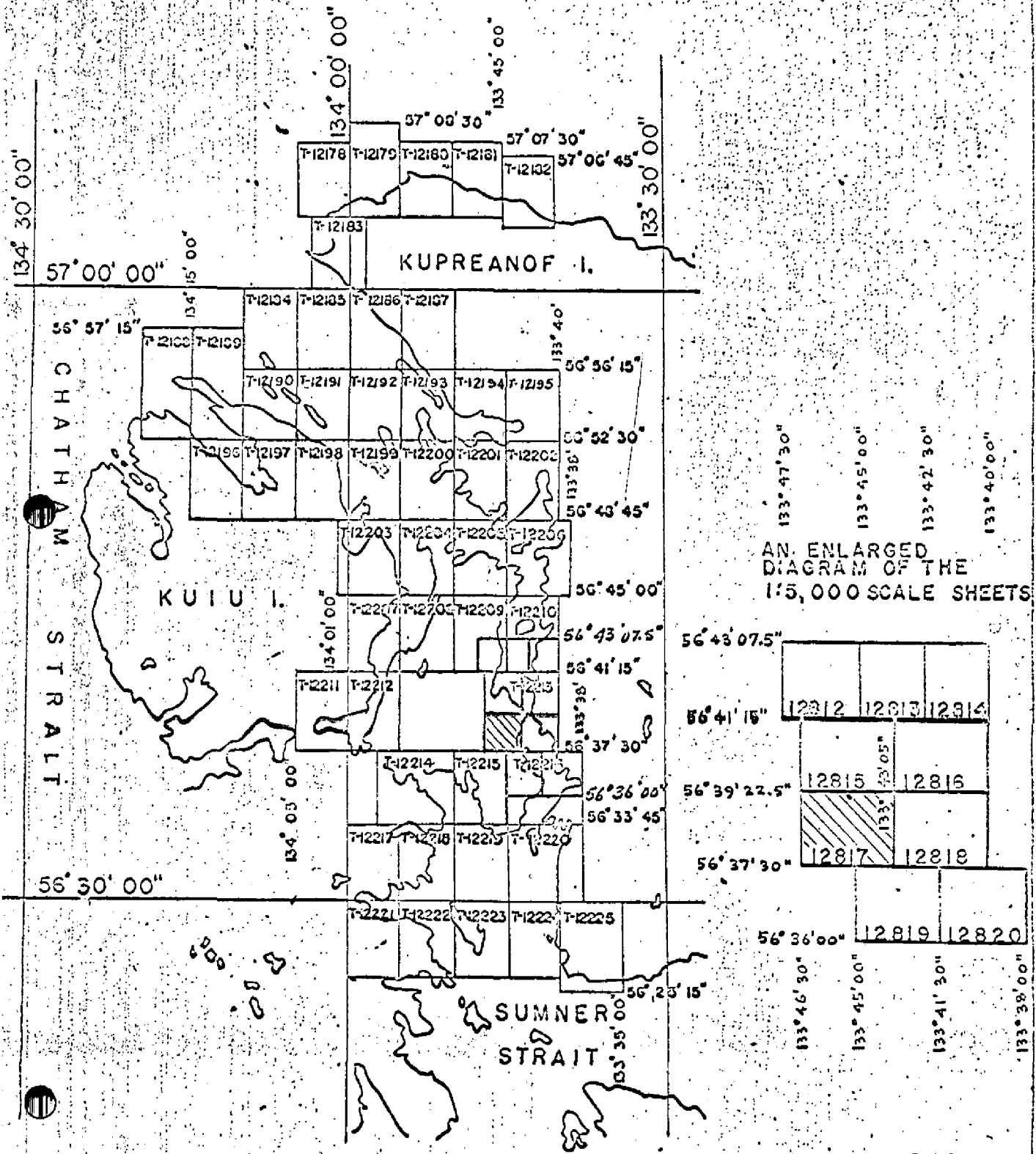
COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete Pending field edit	July, 1968	Superseded
Field Edit Applied;	Feb., 1970	Superseded
Final Review	Sept. 1972	

# SHORELINE MAPPING PROJECT

Ph-6206

KEKU STRAITS, ALASKA

SCALE 1:10,000



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

A.R.

## SUMMARY TO ACCOMPANY

## DESCRIPTIVE REPORT T-12817

This 1:5,000 scale shoreline manuscript is one of 53 maps that comprise Project PH-6206, Keku Strait, Alaska. The project diagram indicates the location of T-12817 in the project.

There was no field work prior to compilation, except the identification of horizontal control for aerotriangulation.

Compilation was by Wild B-8 Plotter and graphic methods, using panchromatic photographs taken in 1961 and color photographs taken in 1964. Control was based on a stereoplanigraph bridge. Stable transparent copies of the map manuscript, ozalids, and specially prepared photographs were furnished for transfer of shoreline to the boat sheet, location of photo-hydro signals, and field edit.

Field edit was done in conjunction with hydrography in 1969. After application of field edit data to the map, it was scribed and reproduced on cronaflex.

Final review was done at the Atlantic Marine Center in August 1972.

The compilation manuscript was a vinylite sheet 1 minute 52.5 seconds in latitude by 2 minutes 30 seconds in longitude.

A cronaflex copy of the final reviewed manuscript and a negative have been forwarded for record and registry.



FIELD INSPECTION REPORT

Project PH-6206

T-12817

There was no field inspection prior to compilation.

AEROTRIANGULATION REPORT  
Keku Straits, Alaska  
Job PH-6206

21. Area Covered

This report pertains to that portion of Keku Straits between 56° 33' 45" and 56° 45' 00".

22. Method

Two strips of photography were bridged using stereoplani-graph and emulsion-drilled diapositives. Measurements made by the stereoscopic instruments were adjusted using 1620 IBM programs.

23. Adequacy of Control

Number and location of field-identified horizontal control stations were adequate to control the bridges with sufficient accuracy to comply with National Standards of Map Accuracy. Station LO 1927 did not hold in the adjustment but closer investigation revealed that an apparent transposition of distances to the substitute stations had occurred. After re-computing the positions all control held satisfactorily.

24. Supplemental Data

U.S.G.S. quadrangles, Petersburg (C-5 and C-6), Alaska, scale 1:63,360, 1948 edition, were used to determine elevations to provide vertical control where required.

25. Photography

Photography was adequate for coverage, definition and endlap.

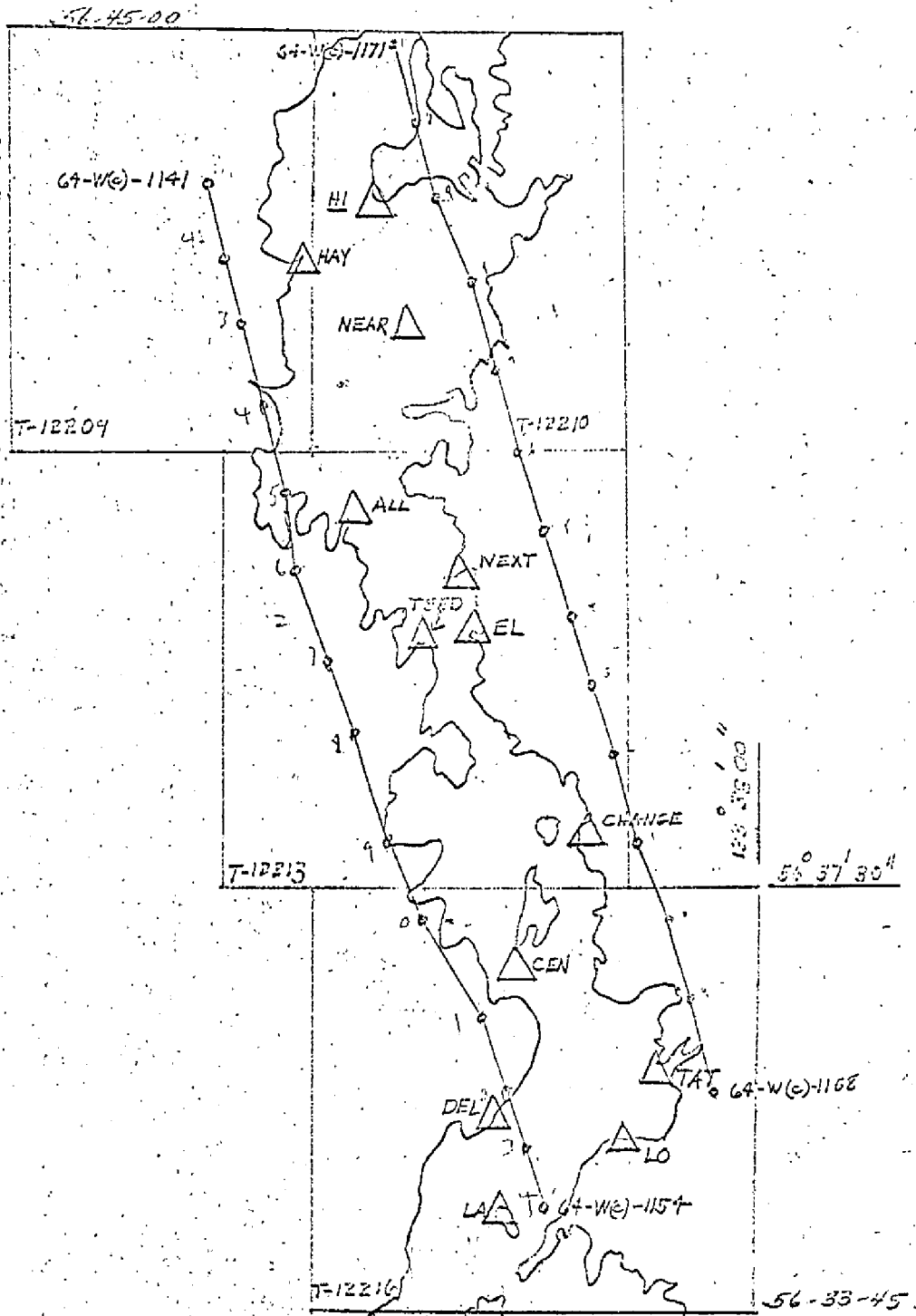
Respectfully submitted:

*William Heinbaugh*  
W. Heinbaugh

Approved by:

*John D. Perrew*  
John D. Perrew

# KEKU STRAITS, ALASKA PH - 6206



DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 12817 PROJECT NO. PH-6206 SCALE OF MAP 1:5,000 SCALE FACTOR NONE

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 ft. = 3048006 meter) FORWARD (BACK)
HAR 1927	Vol. 2 P360	NA 1927	56 39 10.135 133 43 09.407	313.5 (1542.4) 160.3 (860.7)
COMPUTED BY			CHECKED BY	DATE
CHB				9/15/72
				10

## COMPILATION REPORT

T-12817

31. DELINEATION:

The Wild B-8 was used for delineation of details from the 1964 color photography.

32. CONTROL:

See "AEROTRIANGULATION REPORT." (not dated)

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:

Most of the area of this manuscript offshore from the mean high water line is foreshore with drainage channels through the mud flats. A short section of approximate mean lower low water line near Latitude  $56^{\circ}39.0'$  and a section of mean high water line between Latitude  $56^{\circ}39.1'$  and  $56^{\circ}39.3'$  were compiled graphically from the 1961 panchromatic photographs taken at a predicted tide of 0.4 feet below mean lower low water.

36. OFFSHORE DETAILS:

Offshore details were delineated from office interpretation of the photographs.

37. LANDMARKS AND AIDS:

None

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Satisfactory junctions were made with T-12815 to the north, T-12818 to the east, T-12819 to the south, and T-12215 (scale 1:10,000) to the west.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARLSON WITH EXISTING MAPS

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

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 8272, scale 1:20,000, 2nd Edition dated November 14, 1960. Revised March 18, 1963.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted:

*Charles H. Bishop*

Charles H. Bishop  
Cartographer  
7-15-68

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

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

PH-6206 (Keku Strait, Alaska)


T-12817

Keku Strait

Kuiu Island

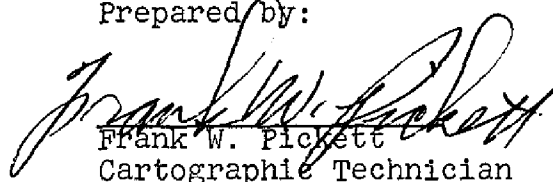
Rocky Pass

Approved by:



A. Joseph Wraight  
Chief Geographer

Prepared by:



Frank W. Pickett  
Cartographic Technician

T-12817

49. NOTES FOR THE HYDROGRAPHER

None



**PHOTOGRAMMETRIC OFFICE REVIEW**  
T.12817

14

1. PROJECTION AND GRIDS CHB		2. TITLE CHB		3. MANUSCRIPT NUMBERS CHB		4. MANUSCRIPT SIZE CHB	
<b>CONTROL STATIONS</b>							
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY NONE				6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) X		7. PHOTO HYDRO STATIONS X	
8. BENCH MARKS X		9. PLOTTING OF SEXTANT FIXES X		10. PHOTOGRAMMETRIC PLOT REPORT Bridge - W.O.		11. DETAIL POINTS CHB	
<b>ALONGSHORE AREAS (Nautical Chart Data)</b>							
12. SHORELINE CHB		13. LOW-WATER LINE CHB		14. ROCKS, SHOALS, ETC. CHB		15. BRIDGES X	
16. AIDS TO NAVIGATION NONE		17. LANDMARKS NONE		18. OTHER ALONGSHORE PHYSICAL FEATURES CHB		19. OTHER ALONGSHORE CULTURAL FEATURES CHB	
<b>PHYSICAL FEATURES</b>							
20. WATER FEATURES CHB				21. NATURAL GROUND COVER X		22. PLANETABLE CONTOURS X	
23. STEREOSCOPIC INSTRUMENT CONTOURS X		24. CONTOURS IN GENERAL X		25. SPOT ELEVATIONS X		26. OTHER PHYSICAL FEATURES CHB	
<b>CULTURAL FEATURES</b>							
27. ROADS X		28. BUILDINGS X		29. RAILROADS X		30. OTHER CULTURAL FEATURES X	
<b>BOUNDARIES</b>							
31. BOUNDARY LINES X				32. PUBLIC LAND LINES X			
<b>MISCELLANEOUS</b>							
33. GEOGRAPHIC NAMES CHB			34. JUNCTIONS CHB			35. LEGIBILITY OF THE MANUSCRIPT CHB	
36. DISCREPANCY OVERLAY CHB		37. DESCRIPTIVE REPORT CHB		38. FIELD INSPECTION PHOTOGRAPHS NONE		39. FORMS CHB	
40. REVIEWER C.H. Bishop				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 C.H. Bishop				SUPERVISOR A.C. Rauck, Jr.			
43. REMARKS Field edit applied from: Field Edit Ozalid, Field Photos 64 W 1148 & 1149							

## FIELD EDIT REPORTS

Keku Strait  
Southeast Alaska  
OPR-448

## MAPS

T-12812  
T-12813  
T-12814  
T-12815  
T-12816  
T-12817  
T-12818  
T-12819  
T-12820

June-August 1969

## FIELD EDIT REPORTS

Keku Strait  
 Southeast Alaska  
 OPR-448

June-August 1969

INTRODUCTION

Field edit reports are attached for the following maps:

T-12812	T-12817
T-12813	T-12818
T-12814	T-12819
T-12815	T-12820
T-12816	

Field photographs and copies of the field edit ozalids were taken into the field. The mean high water line was verified by visual inspection of the shoreline and ozalids in the field. Isolated rocks, high points of ledges, ledge limits, and some shoreline were located by three-point fixes with check angles. Fixes were plotted on boat sheets:

DA-5-2-69  
 DA-5-3-69  
 DA-5-4-69  
 DA-5-5-69

and then transferred to the T-sheets and ozalids for comparison.

Notes have been made in violet on the field photographs and have been cross-referenced on the Field Edit Ozalids by photograph number. All times are based on 105° West meridian.

Generally compilation of the maps is good. It is recommended that the maps be revised in accordance with the notes on the photographs and that the maps, with the exceptions of T-12813, T-12815, and T-12818, be accepted as advance manuscripts. Maps T-12813, T-12815, and T-12818 should be compiled using the recent photographs. It is recommended that the compiler obtain copies of the above boat sheets and use them in compiling the advance manuscripts.

Field inspection of these maps is complete except for map T-12820.

Copies of "Nonfloating Aids or Landmarks for Charts", form C&GS 567, are attached.

FIELD EDIT REPORT  
MAP T-12817

Keku Strait  
Southeast Alaska  
OPR-448

July-August 1969

Field edit of map T-12817 was done by LT(jg) Glenn Endrud on 31 July 1969. Inspection was done on foot.

METHOD

Since this map is primarily foreshore area only a visual inspection of the shoreline and ozalid was made in the field. Notes have been made in violet on field photograph #64W1149 and cross-referenced on the field edit ozalid. All times are based on 105° West meridian.

ADEQUACY OF COMPILATION

Compilation of this map is good. The mean high water line looks good. Areas which are indicated as marsh on the map are grassy, however, they are not spongy. They are occasionally covered with water.

There is a forest service cabin located on this map as noted on the field photograph and field edit ozalid.

Field inspection of this map is complete.

RECOMMENDATIONS

It is recommended that marsh area be labeled as grass and that the forest service cabin be added to the manuscript. With these revisions it is recommended that this map be accepted as an advance manuscript.

Respectfully submitted

*Bruce W. Fisher*

Bruce W. Fisher  
LTJG USESSA

APPROVAL SHEET  
for  
FIELD EDIT  
Keku Strait  
Southeast Alaska  
OPR-448  
June-August 1969

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

T-12812	T-12817
T-12813	T-12818
T-12814	T-12819
T-12815	T-12820
T-12816	

Frequent inspections of the field edit work and of plotted comparisons on the boat sheets were made.

*Ray E. Moses*

Ray E. Moses  
CDR, USESSA  
Commanding Officer  
USC&GSS DAVIDSON

## REVIEW REPORT T-12817

## SHORELINE

September 20, 1972

61. GENERAL STATEMENT:

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with a copy of Survey No. 4331, scale 1:10,000, dated August-September, 1927. Shoreline is in poor agreement. Differences are shown in blue on the comparison print.

Survey No. 4331 is now obsolete for nautical chart construction purposes and the compared area is now superseded by T-12817.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangle PETERSEBURG (C-6), ALASKA, scale 1:63,360, dated 1948. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with copies of boat sheets for H-9080 and H-9081, scale 1:5,000, surveyed in 1969. Shoreline is in good agreement; a copy of the incomplete manuscript for T-12817 was the source for shoreline in the area compared.

Rocks shown on the boat sheets are the same as the rocks on T-12816.

The mean lower low water line is in fair agreement.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 8272, scale 1:20,000, 4th Edition, dated November 21, 1970. The differences between this chart and T-12817 were found to be the same as the differences between Survey No. 4331 and T-12817. These differences are shown on the comparison print in blue.

On Chart 8272, U.S.G.S. Quad, and Survey 4331, a ledge is shown fringing the shoreline at Lat.  $56^{\circ}38.8'$ , Long.  $133^{\circ}43.3'$ . No ledge in this area was pointed out by the field editor or hydrographer.

This area on the photographs was not interpreted as ledge by the compiler or reviewer, and therefore, it is not shown as ledge on T-12817.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with project instructions and the National Standards for Map Accuracy.

Reviewed by:

*Charles H. Bishop*

Charles H. Bishop  
Cartographer  
September 20, 1972

Approved for forwarding:

*Melvin J. Umach*  
Melvin J. Umach, CDR, NOAA  
Chief, Coastal Mapping Division, AMC

Approved:

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

Approved:

Chief, Photogrammetric Branch    Chief, Coastal Mapping Division



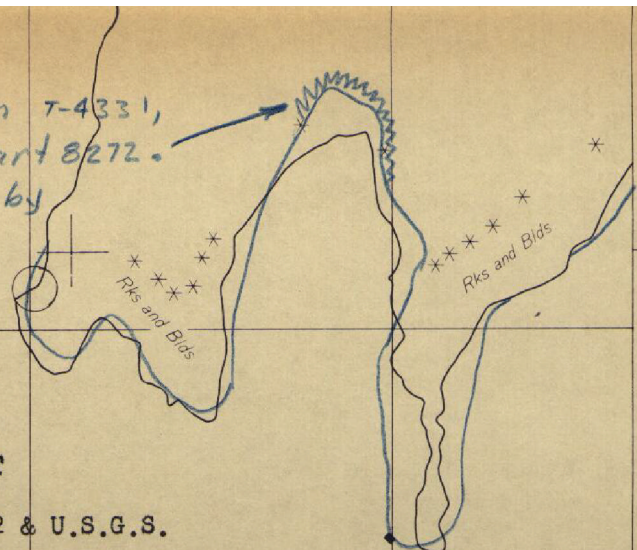
COMPARISON PRINT

Blue = T-4331 & Chart 8272





Ledge shown on T-4331,  
U.S.G.S. and chart 8272.  
No ledge shown by  
field editor.



y = 1,758.0  
38' 45"

COMPARISON PRINT

Blue = T-4331, Chart 8272 & U.S.G.S.



56° 38' 30"  
y = 1,756.0

38' 15"

133° 43' 30"

T-12817  
1:5,000



23

56°38'00"

COMPARISON PRINT

Blue = T-4331 & Chart 8272



44'45"

r=2,670,000 FT. 44'30"

44'15"

r=2,672,000 FT. 133°44'00"

T-12817  
1:5,000

- △ Recoverable horizontal control station of third or
- ..... Approximate mean lower low water line
- The light shoreline defines the outer limits of ve



y=1,754,000 FT

64-W(C)-1149

38'00"

COMPARISON PRINT

Blue = T-4331 and Chart 8272

y=1,732,000 FT

37'45"

56° 37' 30"

T-12817  
1:5,000

43' 45"

43' 30" x=2,674,000 FT

43' 15"

133° 43' 05"

der or higher accuracy

4  
vegetation visible above

