

12814

12814

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-12814

LOCALITY

State ALASKA

General locality KEKU STRAIT

Locality N. E. OF THE SUMMIT

1961-69

CHIEF OF PARTY

Alfred C. Holmes, Director, A. M. C.

LIBRARY & ARCHIVES

DATE

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR  
TO REGISTRATION

DESCRIPTIVE REPORT - DATA RECORD

T-12814

SUBJECT NO. (II):  PH - 6206										
FIELD OFFICE (III):		CHIEF OF PARTY								
PHOTOGRAMMETRIC OFFICE (III):  Atlantic Marine Center, Norfolk, VA.		OFFICER-IN-CHARGE Alfred C. Holmes Director, A.M.C.								
INSTRUCTIONS DATED (III) (III):  <table style="width:100%; border:none;"> <tr> <td style="width:50%;">OFFICE INSTRUCTIONS</td> <td>January 18, 1965</td> </tr> <tr> <td style="text-align:center;">" SUPPLEMENT III</td> <td>December 19, 1967</td> </tr> <tr> <td style="text-align:center;">" " IV</td> <td>April 14, 1970</td> </tr> <tr> <td>FIELD INSTRUCTIONS</td> <td>February 11, 1969</td> </tr> </table>			OFFICE INSTRUCTIONS	January 18, 1965	" SUPPLEMENT III	December 19, 1967	" " IV	April 14, 1970	FIELD INSTRUCTIONS	February 11, 1969
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										
MANUSCRIPT SCALE (III):  1:5,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):  1:7,500 Pantographed to 1:5,000									
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): <b>MEAN HIGH WATER</b> 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									
REFERENCE STATION (III):  NEAR 1927										
LAT.:  56°42'16.069" (497.1m)	LONG.:  133°43'50.653" (861.9m)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED								
PLANE COORDINATES (IV):  Y = 1,779,240.87 FT.    X = 2,672,768.14 FT.	STATE  ALASKA	ZONE  1								
<small>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.</small>										

**DESCRIPTIVE REPORT - DATA RECORD**

T - 12814

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. 19, 1967
PROJECTION AND GRIDS CHECKED BY (IV):  R. Glaser		DATE Sept. 20, 1967
CONTROL PLOTTED BY (III):  B. L. Barge		DATE Nov. 16, 1967
CONTROL CHECKED BY (III):  L. O. Neterer		DATE Nov. 16, 1967
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):  W. Heinbaugh		DATE _____
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY J. R. Minton REVIEWED: L. O. Neterer	DATE May 10, 1968 May 10, 1968
	CONTOURS  NOT Applicable	DATE
MANUSCRIPT DELINEATED BY (III):  C. Blood		DATE June 1968
SCRIBING BY (III):  F. P. Margiotta		DATE Jan. 28, 1972
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): COMPILATION C. H. Bishop		DATE July 1968
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD

T - 12814

CAMERA (KIND OR SOURCE) (III):

Wild RC-8 "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64-W(C)-1167thrull169	16 June 1964	10:52	1:15,000	4.2 FT. Above MLLW

Predicted

TIDE (III)

Diurnal

		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:	Ketchikan, Alaska		13.0	15.4
COORDINATE STATION:	The Summit, Keku Strait		13.2	15.7
SUBORDINATE STATION:				
WASHINGTON OFFICE REVIEW BY (IV): C.H. Bishop		DATE: 8/16/72		
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 0	RECOVERED: 0	IDENTIFIED: 0		
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):				

REMARKS:

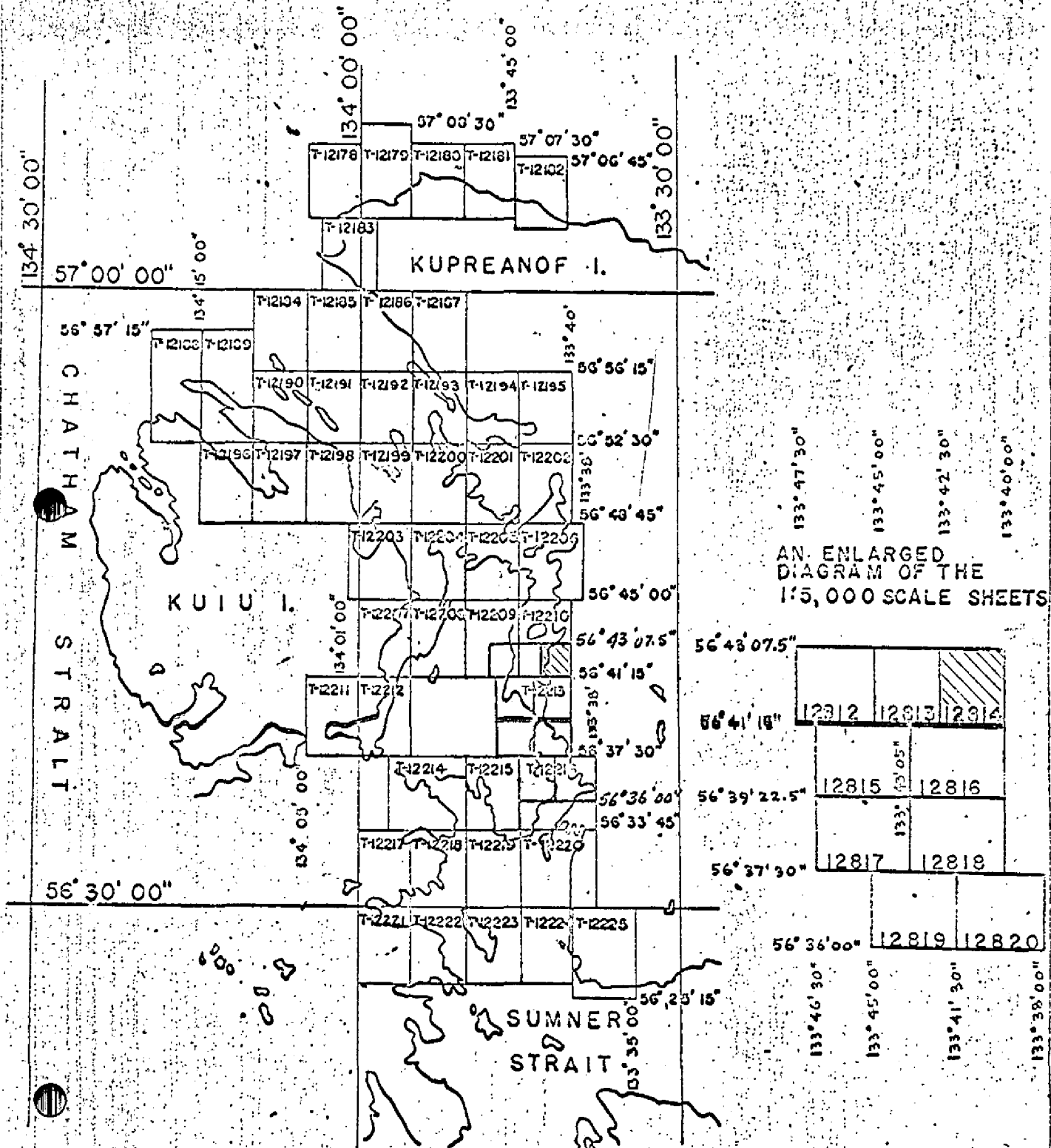
COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete Pending field edit	July, 1968	Superseded
Field Edit Applied	Dec. 9, 1969	
Final review	August 1972	

# SHORELINE MAPPING PROJECT

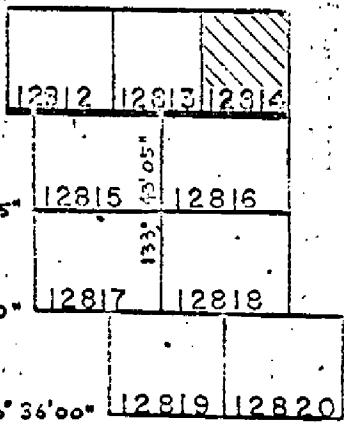
Ph-6206

## KEKU STRAITS, ALASKA

### SCALE 1:10,000



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



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-12814

This 1:5,000 scale shoreline manuscript is one of 53 maps that comprise Project PH-6206, Keku Strait, Alaska. The project diagram on page 5 indicates the location of T-12814 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

T-12814

There was no field inspection prior to compilation of this manuscript.

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.

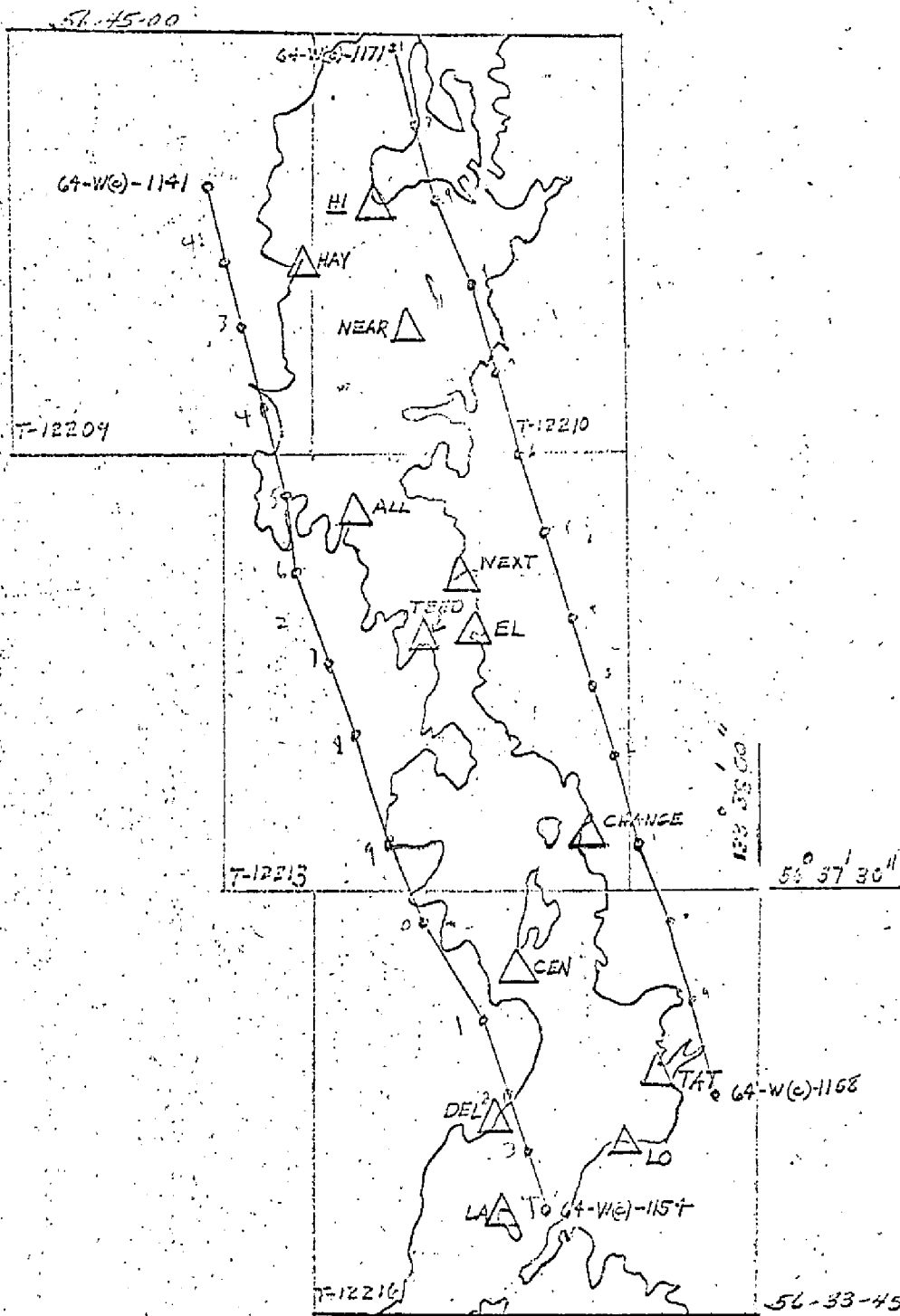
Respectfully submitted:

*W. Heinbaugh*  
W. Heinbaugh

Approved by:

*John D. Perrew Jr.*

# KEKU STRAITS, ALASKA PH - 6206





## COMPILATION REPORT

T-12814

31. DELINEATION:

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

32. CONTROL:

See "AEROTRIANGULATION REPORT", (not dated) submitted with Descriptive Report for this manuscript.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours are not applicable. No drainage was delineated.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line, channel lines and foreshore area were compiled from office interpretation of the color photography.

36. OFFSHORE DETAILS:

No offshore details were delineated.

37. LANDMARKS AND AIDS:

None

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Satisfactory junctions were made with T-12210 (1:10,000 scale) to the north, T-12816 (1:5,000 scale) to the south, and T-12813 (1:5,000) to the west. There is no contemporary survey to the east.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON 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  
July, 1968

Approved for forwarding:

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

Approved:



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

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

PH-6206 (Keku Strait, Alaska)

T-12814

Irish Creek

Keku Strait

Kupreanof Island

Approved by:

*A. J. Wraight*  
A. Joseph Wraight  
Chief Geographer

Prepared by:

*Frank W. Pickett*  
Frank W. Pickett  
Cartographic Technician



NOTES FOR THE HYDROGRAPHER:

- 1- 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.
- 2- If there are landmarks or fixed aids to navigation within the area of this map, investigate and submit Form 567.
- 3- Give character of foreshore areas (sand, mud, etc.).
- 4- Foul, shoal, and reef areas and rocks shown on this manuscript were determined by office interpretation of aerial photographs of the area. 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.
- 5- See Field Edit Ozalid for other notes.

FORM C&GS-1002  
(9-68)U.S. DEPARTMENT OF COMMERCE  
ESSA  
COAST AND GEODETIC SURVEY

## PHOTOGRAMMETRIC OFFICE REVIEW

T- 12814

1. PROJECTION AND GRIDS CHB	2. TITLE CHB	3. MANUSCRIPT NUMBERS CHB	4. MANUSCRIPT SIZE
<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) NONE	7. PHOTO HYDRO STATIONS none	
8. BENCH MARKS none	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT CHB	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 none
16. AIDS TO NAVIGATION NONE	17. LANDMARKS none	18. OTHER ALONGSHORE PHYSICAL FEATURES CHB	19. OTHER ALONGSHORE CULTURAL FEATURES
<b>PHYSICAL FEATURES</b>			
20. WATER FEATURES none		21. NATURAL GROUND COVER none	22. PLANETABLE CONTOURS none
23. STEREOSCOPIC INSTRUMENT CONTOURS none	24. CONTOURS IN GENERAL none	25. SPOT ELEVATIONS none	26. OTHER PHYSICAL FEATURES none
<b>CULTURAL FEATURES</b>			
27. ROADS none	28. BUILDINGS none	29. RAILROADS none	30. OTHER CULTURAL FEATURES none
<b>BOUNDARIES</b>			
31. BOUNDARY LINES none		32. PUBLIC LAND LINES none	
<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 Charles H. Bishop 8/15/68		SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauck, Jr.	
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 C.H. Bishop Dec. 9, 1969		SUPERVISOR Albert C. Rauck, Jr.	
43. REMARKS  Field edit applied from: Film ozalid and Field Photos 64 W 1168, 1169			

## 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-12814

Keku Strait  
Southeast Alaska  
OPR-448

June-July 1969

Field edit of map T-12814 was done by LT(jg) Bruce Fisher on 19 June 1969. Inspection was done on foot with the aid of a 12-foot whaler.

METHOD

Field photographs and a copy of the field edit ozalid were taken into the field. The mean high water line was verified by visual inspection of the shoreline and ozalid in the field.

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

64W1168

64W1169

ADEQUACY OF COMPILATION

Compilation of this map is good. In several places as noted on the field photographs the MHWL needs to be extended somewhat for clarity.

The cabin on the northeast corner of the map was searched for and not found.

Field inspection of this map is complete.

RECOMMENDATIONS

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-12814

## SHORELINE

August 16, 1972

61. GENERAL STATEMENT:

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with a copy of Survey No. 4341, scale 1:10,000, dated September-October 1927. The shoreline of this old survey is identical with shoreline on Chart 8272, 4th edition, Nov. 21, 1970 and any difference between that chart and T-12814, noted on the comparison print, will also exist between Survey No. 4341 and T-12814.

Survey No. 4341 is now obsolete and the compared area is superseded by T-12814 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with USGS Quadrangle PETERSBURG (C-6), scale 1:63,360, dated 1948.

A rock awash at lat.  $56^{\circ} 42.85'$ , long.  $133^{\circ} 42.4'$  on T-12814 is not shown on PETERSBURG (C-6).

An island at lat.  $56^{\circ} 42.1'$ , long.  $133^{\circ} 42.3'$  on PETERSBURG (C-6) is connected by a narrow spit to Kupreanof Island on T-12814.

The above differences also were noted on Chart 8272 and are shown on the comparison print in red.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with copies of machine plotted boat sheets H-9078 (DA 5-2-69) and H-9079 (DA 5-3-69). The shoreline on these surveys is in good agreement with shoreline on T-12814. The only mean lower low water line indicated on the hydrographic surveys is on H-9078. It is incomplete and not in complete agreement with the mean lower low water line on T-12814. The mean lower low water line has been labeled approximate and retained on T-12814 for whatever use it may be to the chart compiler.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

One rock mapped at approximate lat.  $56^{\circ} 42.8'$ , long.  $133^{\circ} 42.4'$  was not verified by the hydrographer or the field editor. An image of something is visible on the photographs at this point and the rock has been retained on T-12814.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 8272, 4th edition, dated November 21, 1970. All differences between this chart and T-12814 have been noted on the comparison print in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Reviewed by:

*Charles H. Bishop*

Charles H. Bishop  
Cartographer  
August 16, 1972

Approved for forwarding:

*Meivin J. O'neagh*  
Meivin J. O'neagh, CDR, NOAA  
Chief, Photogrammetry Division, AMC

Approved:

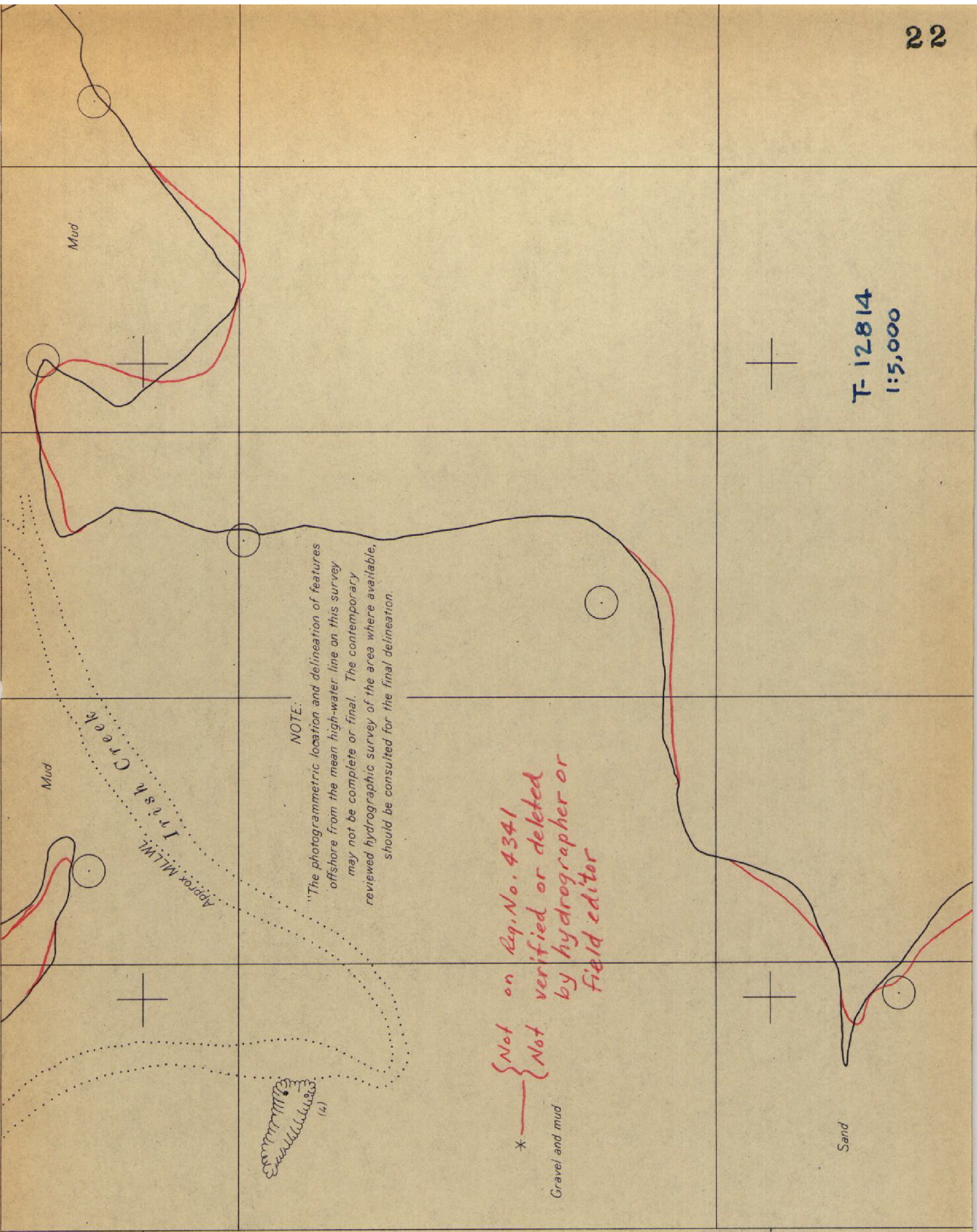
*Alfred C. Holmes*  
Alfred C. Holmes, RADM, NOAA  
Director, Atlantic Marine Center

Approved:

Chief, Photogrammetric Branch    Chief, Coastal Mapping Division



15° 42' 30" 56° 43' 07" x = 2,678,000 FT. 42' 15" 42' 45" 41' 45" 41' 30"



Mud

Mud

Approx. MIMI Fish Creek

NOTE:  
 "The photogrammetric location and delineation of features offshore from the mean high-water line on this survey may not be complete or final. The contemporary reviewed hydrographic survey of the area where available, should be consulted for the final delineation."

*(Handwritten scribble)*  
 (4)

*Not on Reg. No. 4341  
 Not verified or deleted  
 by hydrographer or  
 field editor*

\*  
 Gravel and mud

Sand



T-12814  
 1:5,000



y = 1,784,000 FT.

y = 1,782,000 FT.

43'00"

42'45"

133° 42' 30"

133° 42' 00"

Mud and Rocks

56° 42' 30"

COMPARISON PRINT

Red = Chart 8272 and Reg. No. 4341

y = 1,780,000 FT.

S  
T  
R  
A  
I  
T

Mud.

42' 15"

K U

y = 1,778,000 FT.

K  
E  
K  
U

Rocky

56° 42' 00"

T-12814  
1:5,000

64-W(C)-1167

56°41'45"  
y=1,776,000 FT.

Mud

COMPARISON PRINT

Red = Chart 8272 and Reg. No. 4341

41'30"

y=1,774,000 FT.

56°41'15"

133°42'30"

x=2,678,000 FT.

42'15"

42'00"

T-12814

1:5,000

INDEX TO ADJOINING SHEETS JOB PH-6206

134°01'00"	133°55'00"	133°50'00"	133°45'00"	133°38'00"
T-12199	T-12200	T-12201	T-12202	