

12198

12198

FORM C&GS-504 U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY	
<h2>DESCRIPTIVE REPORT</h2>	
Type of Survey <u>SHORELINE (PHOTOGRAMMETRIC)</u>	
Field No.	Office No. <u>T-12198</u>
LOCALITY	
State <u>Alaska</u>	
General locality <u>Keku Strait</u>	
Locality <u>Clark Island, West of</u>	
<u>1961-1969</u>	
CHIEF OF PARTY	
<u>Alfred C. Holmes, Director, AMC</u>	
LIBRARY & ARCHIVES	
DATE	

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR
TO REGISTRATION

DESCRIPTIVE REPORT - DATA RECORD
T - 12198

PROJECT NO. (II):

Job PH-6206

FIELD OFFICE (II):

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center

OFFICER-IN-CHARGE

Alfred C. Holmes, RADM, NOAA
Director, AMC

INSTRUCTIONS DATED (II) (III):

January 18, 1965	OFFICE
November 26, 1965	OFFICE SUPPLEMENT I
January 26, 1967	OFFICE AMENDMENT III
May 11, 1965	FIELD
June 14, 1965	FIELD

METHOD OF COMPILATION (III):

Wild B-8

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:8,333 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):

MHW

~~XXXXXXXXXX~~ EXCEPT AS FOLLOWS:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., ~~mean lower low water~~

REFERENCE STATION (III):

~~None~~ Luck, 1927

LAT.:

56° 49' 55.584"

LONG.:

133° 58' 14.740"

ADJUSTED

UNADJUSTED

PLANE COORDINATES (IV):

1,825,999.42 x = 2,624,742.45

STATE

Alaska

ZONE

1

NUMERALS IN PARENTHESES 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

FIELD INSPECTION BY (II): None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation Date of Photography: July 29, 1965		
PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree		DATE 11-08-65
PROJECTION AND GRIDS CHECKED BY (IV): R. S. Kornspan		DATE 11-08-65
CONTROL PLOTTED BY (III): C. H. Bishop		DATE 01-13-66
CONTROL CHECKED BY (III): J. Steinberg		DATE 01-13-66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): G. M. Ball		DATE Nov. 1965
STEREOSCOPIC INSTRUMENT COMPILATION (III): Wild B-8	PLANIMETRY L. O. Neterer Rev. by: K. Boyle	DATE 05-12-67 05-12-67
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): L. O. Neterer		DATE 05-15-67
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): COMPILATION: C.H. Bishop FIELD EDIT: R. J. Pate SCRIBING & STICKUP:		DATE 05-19-67 02-03-69
REMARKS: Field Edit By: Ship DAVIDSON June 1968		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Wild RC-9 "M"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
65 M 251 & 252	29 July 1965	09:24 PST	1:50,000	(from predicted tables) 3.1 ft. below MLLW

TIDE (III) (PREDICTED)

DIURNAL

	RATIO OF RANGES	MEAN RANGE	MEAN RANGE
REFERENCE STATION: Ketchikan		13.0	15.4
COORDINATE STATION: Port Camden, Kuiu Island		11.5	13.9
SUBORDINATE STATION:			

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

DATE: *December, 1971*

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

RECOVERED:

IDENTIFIED:

NUMBER OF BM(S) SEARCHED FOR (II):

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

T-12198

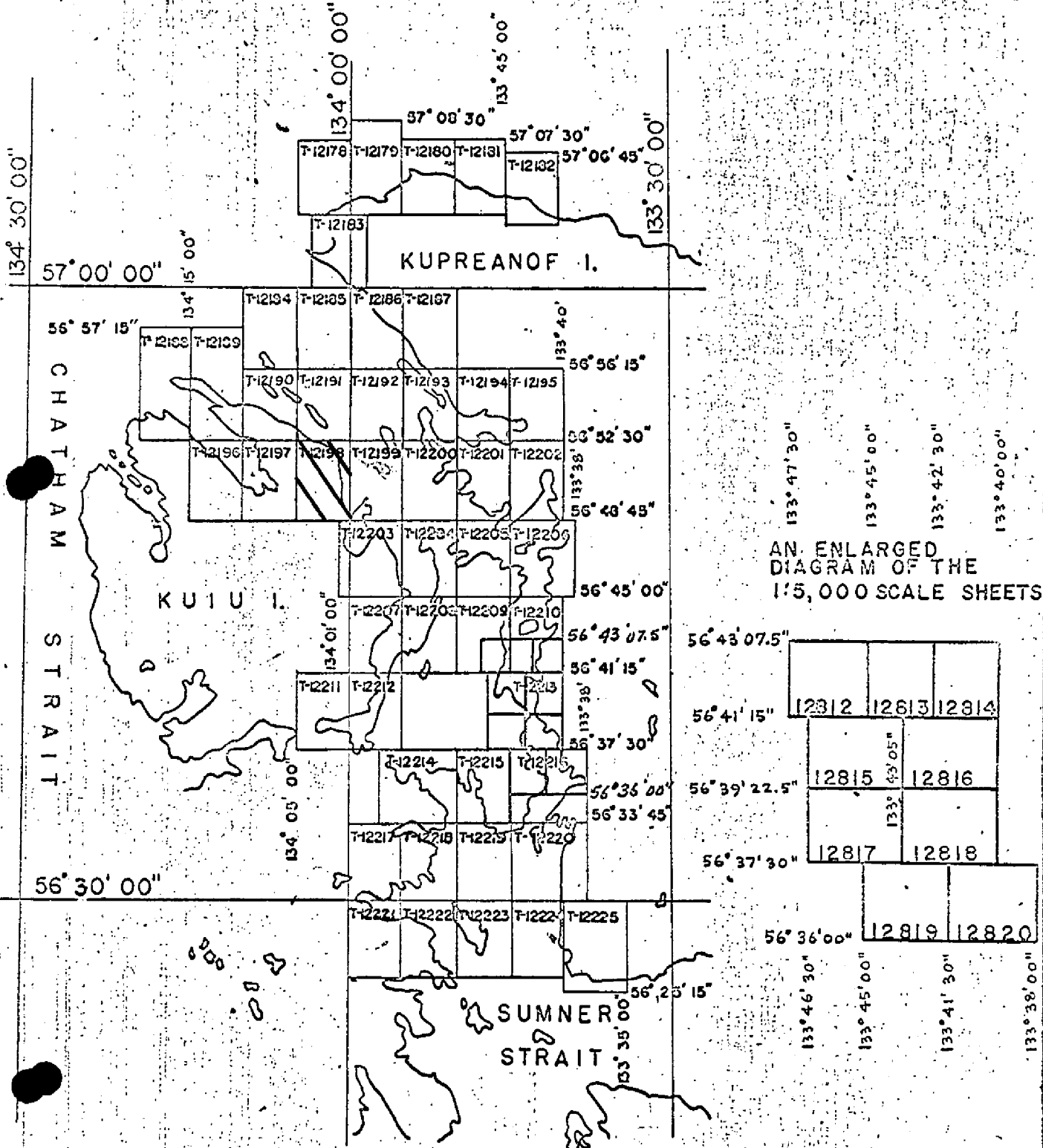
COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for hydro	May 1967	Superseded
Field Edit Applied Compilation Complete	Jan. 1969	<i>Superseded</i>
<i>Final Review</i>	<i>Dec. 1971</i>	<i>Superseded</i>
<i>Additional Final Review; Addendum to Review Report</i>	<i>Jan. 1973</i>	

SHORELINE MAPPING PROJECT

Ph-6206

KEKU STRAITS, ALASKA

SCALE 1:10,000



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

12812	12813	12814
12815	12816	
12817	12818	
12819	12820	

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

A.R.

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12198

Shoreline survey T-12198 is one of 53 similar surveys in project PH-6206. The primary purpose of the project was to provide modern shoreline and photo-hydro support data for hydrographic surveys in the Keku Strait area. See page 5 for the area covered by the project and the location of this survey within the project.

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

Compilation was at 1:10,000 scale by Wild B-8 methods using the photography of July 1961 and July 1965. Copies of the incomplete manuscript along with specially prepared photographs and ozalids were furnished for transfer of the shoreline the boat sheet, photo-hydro support use and field edit.

The compilation 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 December 1971. One cronaflex positive and a negative of the final reviewed survey are forwarded for record and registry.

FIELD INSPECTION REPORT
T-12198
JOB PH-6206

There was no field inspection prior to compilation.

PHOTOGRAMMETRIC PLOT REPORT
Job PH-6206
Keku Straits, Alaska
November 1965

21. Area Covered

This report covers an area of Alaska in the upper portion of Keku Straits and its confluence with Frederick Sound.

22. Method

Analytical aerotriangulation methods were used to bridge four strips of "M" photography at the scale of 1:50,000. The attached sketch of strips bridged shows the amount and placement of triangulation furnished. Closures to control and to tie points have been tabulated.

23. Adequacy of Control

Horizontal control (premarked targets) identified and required to adjust the strips bridged was slightly above our minimum requirements. Two of the four strips were adjusted using only three stations and common tie points as a check to our bridging accuracy. The final results are well within the National Standards of Map Accuracy for the eighteen shoreline sheets to be compiled (T-12178, T-12179, T-12183 thru T-12195, T-12196 thru T-12198).

Control stations that were not used in our final adjustment follow: (1) CORN, 1925, this station is on the tip of a peninsula and so situated that it was impossible to set a model in which this station could have been of any value to our work; (2) KEKU 1927, this target was not visible on either the film or the plates. It is our belief, based upon the published description, that the target might have washed away; (3) HAM 1927, this station was used on Strip #2, however on Strip #3 the target was not visible because the lay-over of trees near the station obscured the target on one photograph.

24. Supplemental Data

Numerous USGS quads were used to obtain elevations required for the final adjustment.

25. Photography

Photography was adequate with regard to coverage, overlap and image definition.

Respectfully submitted:

George M Ball
George M Ball

Approved and forwarded:

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

CLOSURE TO CONTROL AND TIE POINTS
(feet)

STRIP #1

BENDEL, 1917
 (0.0 -0.1)
 KELP, 1965
 (-0.1 -0.1)
 PINT, 1965
 (-0.1 -0.1)

STRIP #2

BENDEL, 1917
 (+1.3 0.0)
 CART, 1927
 (-2.0 -0.6)
 KAKE, 1927
 (-1.4 +0.1)
 AGE, 1927
 (+1.3 +0.6)
 AMY, 1927
 S.S. (-0.5 -0.4)

TIES TO STRIP #1

08401 (-0.2 + 2.6)
 08402 (-0.9 +10.1)
 08402 (-0.9 + 9.6)

TIES TO STRIP #3

27401 (+6.7 + 6.2)
 28401 (+9.0 + 9.1)
 29401 (+3.4 - 2.4)
 29401 (+5.5 - 0.7)
 29402 (+9.5 + 6.0)
 29403 (+8.2 + 3.7)
 33401 (+3.2 + 0.4)
 33402 (+5.0 + 5.4)

STRIP #3

KAKE, 1927
 (+1.8 -2.1)
 ALTO, 1927
 (-2.0 +0.5)

STRIP #3 cont.

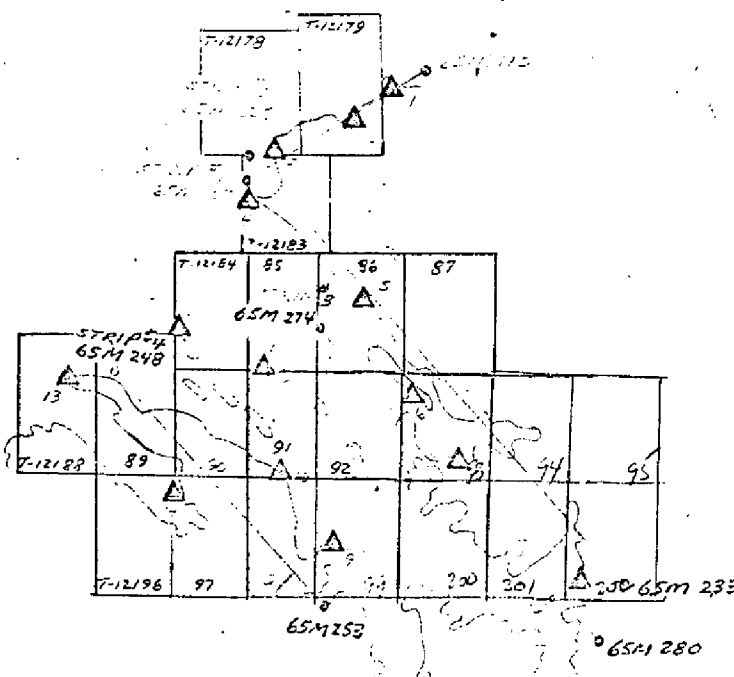
HAM, 1927
 (-2.8 -0.9)
 AGE, 1927
 (+3.4 +3.1)
 AMY, 1927
 S.S. (-0.6 -0.9)

STRIP #4

GNAW, 1965
 (-0.1 0.0)
 LOW, 1927
 (-0.1 0.0)
 LUCK, 1927
 (-0.1 0.0)

TIES TO STRIP #3

74401 (+0.1 +0.2)
 74401 (+0.3 +0.6)
 75401 (+9.3 -6.2)
 76401 (+3.1 +3.2)
 76402 (+6.7 +5.4)



KERU STRAITS, ALASKA
 PH - 6206
 SHARPLE E. MAHON'S
 SCALE 1:10,000
 SINGLE LEAF MAPS
 CORALS 115, 000

KEY TO TRIANGLE NOTATION

1. JUNT, 1965
2. KELL, 1965
3. SENDEL, 1917
4. CART, 1927
5. KAKE, 1927
6. HAD, 1927
7. RSI, 1927
8. HAY, 1927
9. LUCK, 1927
10. LOW, 1927
11. ALTO, 1927
12. KERU, 1927
13. SMAN, 1927
14. SMAN, 1945

COMPILATION REPORT
T-12198

31. DELINEATION:

The Wild B-8 was used. Photography was satisfactory.

32. CONTROL:

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Inapplicable

35. SHORELINE AND ALONGSHORE FEATURES:

There was no field inspection prior to compilation. Shoreline and alongshore features were compiled from office interpretation of the photos. The approximate mean lower low water line was delineated from office interpretation of the 61 W photographs.

36. OFFSHORE DETAILS:

Offshore details were compiled from office interpretation of the photographs.

37. LANDMARKS AND AIDS:

None

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

Satisfactory junctions have been made with T-12191 to the north, T-12199 to the east, T-12203 to the south and T-12197 to the west.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with U.S.G.S Quadrangle ALEXANDER (D-1), ALASKA, scale 1:63,360 dated 1948.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Nautical Chart 8201, scale 1:217,828, 11th edition, dated March 4, 1963, revised 07-20-64.

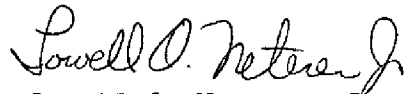
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None

ITEMS TO BE CARRIED FORWARD:

None

Submitted by:



Lowell O. Neterer, Jr.
Cartographic Technician

Approved for forwarding:



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

Approved:



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

December 8, 1971

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6206 (Alaska)

T-12198

Keku Strait

Kuiu Island

Approved by:

A. Joseph Wraight
A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Frank W. Pickett
Cartographic Technician

49- 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 the compilation.
- 2- If there are Landmarks or Fixed Aids to Navigation within the area of this map, investigate and submit Forms 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 (9-66)		U.S. DEPARTMENT OF COMMERCE ESSA COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW			
T- 12198			
1. PROJECTION AND GRIDS CHB	2. TITLE CHB	3. MANUSCRIPT NUMBERS CHB	4. MANUSCRIPT SIZE CHB
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY XX	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 Bridge W.O.	11. DETAIL POINTS Wild B-8
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE CHB	13. LOW-WATER LINE CHB	14. ROCKS, SHOALS, ETC. CHB	15. BRIDGES XX
16. AIDS TO NAVIGATION XX	17. LANDMARKS XX	18. OTHER ALONGSHORE PHYSICAL FEATURES CHB	19. OTHER ALONGSHORE CULTURAL FEATURES CHB
PHYSICAL FEATURES			
20. WATER FEATURES XX		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 CHB		34. JUNCTIONS CHB	35. LEGIBILITY OF THE MANUSCRIPT CHB
36. DISCREPANCY OVERLAY CHB	37. DESCRIPTIVE REPORT CHB	38. FIELD INSPECTION PHOTOGRAPHS XX	39. FORMS CHB
40. REVIEWER <i>Charles H Bishop</i> C. H. Bishop 05/9/67		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> Albert 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 <i>A. L. Shands</i> A. L. Shands 01/17/69		SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
Rev. by: R. J. Pate 02/03/69			
43. REMARKS Field Edit Applied from: Field edit ozalid, Field Photos Nos. 61-W-9398, 9399, & 9400.			

T-12498

FIELD EDIT REPORT

There were no field edit reports submitted with the field edit covering the 1966 to 1968 season's work, and no Form 567 was submitted to the compilation office by the field party.

REVIEW REPORT T-12198

SHORELINE

DECEMBER 2, 1971

61. GENERAL STATEMENT

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A comparison was made with registered topographic survey No. 4332, 1:20,000 scale dated August-September 1927. The shoreline of the surveys is in good agreement. A group of rocks located between latitudes 56°51'00" and 56°51'30" and near longitude 134°00'00" appear as reefs on the photographs and have been delineated as such on T-12198.

Registered survey No. 4332 is superseded by T-12198 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with USGS PORT ALEXANDER (D-1), ALASKA, 1:63,360 scale quadrangle, edition of 1948 with minor revisions in 1963. The two surveys are in good general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with a copy of boat sheet H-9041 (DA 10-5-68). The difference in the shoreline and reef limits of the two surveys has been indicated on the comparison print in purple.

65. COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with chart 8201, 16th edition dated November 7, 1970. The surveys are in good general agreement.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey was compiled from 1:50,000 scale photography. It is considered adequate for nautical chart construction purposes.

Reviewed by:

Leo F. Beugnet

Leo F. Beugnet
Cartographer

Approved:

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

ADDENDUM TO REVIEW REPORTS

T-12178, T-12179, AND T-12183 THROUGH T-12202

After Maps T-12178, T-12179, and T-12183 through T-12202 had been final reviewed and the reports written and signed, and the hydrographic surveys had been verified and reviewed, the Marine Chart Division requested additional review of the photogrammetric manuscripts to aid in resolving discrepancies between the hydrographic and photogrammetric surveys. Discrepancy prints of each T-sheet and verified copies of the hydrographic surveys were furnished to aid in this review. H-9041 Boat Sheet was used for T-12198 through T-12202, as a verified copy of this survey was not available to the reviewer.

Copies of the hydrographic surveys were used as aids to verify what could be seen on the photographs of the area: If a feature on the hydrographic survey was not positively identifiable on the photographs, it was not added to the T-sheet. This review resulted in the revision of several ledges, some mean high water line, and the addition of several rocks awash. The hydrographer's elevations were not added to the photogrammetric manuscripts.

Questions on the discrepancy prints were answered on separate ozalids and returned to the Marine Chart Division, along with a Chart Maintenance Print reflecting differences between the Advance Manuscript and the Final Reviewed Manuscript for each map.

Comparison prints bound with this report reflect differences with the verified hydrographic surveys, except T-12198 through T-12202, rather than the boat sheets. The sources for shoreline on the verified hydrographic surveys were copies of Advance Manuscripts; therefore, shoreline agreement is generally good.

Charles H. Bishop

Charles H. Bishop
Cartographer
January, 1973

N D



reef (4) reef (6)

51'

shoal

sand pebbles and mud

kelp

y = 1,830,000 FT.

50'30"

From Boat sheet H-9041

134° 01' 00"

134° 00' 00"

mud

rocky

50' 00"

mud

mud

rocks and mud

y = 1,825,000 FT.

T-12198

1:10,000

01'30" x=2,615,000 FT.

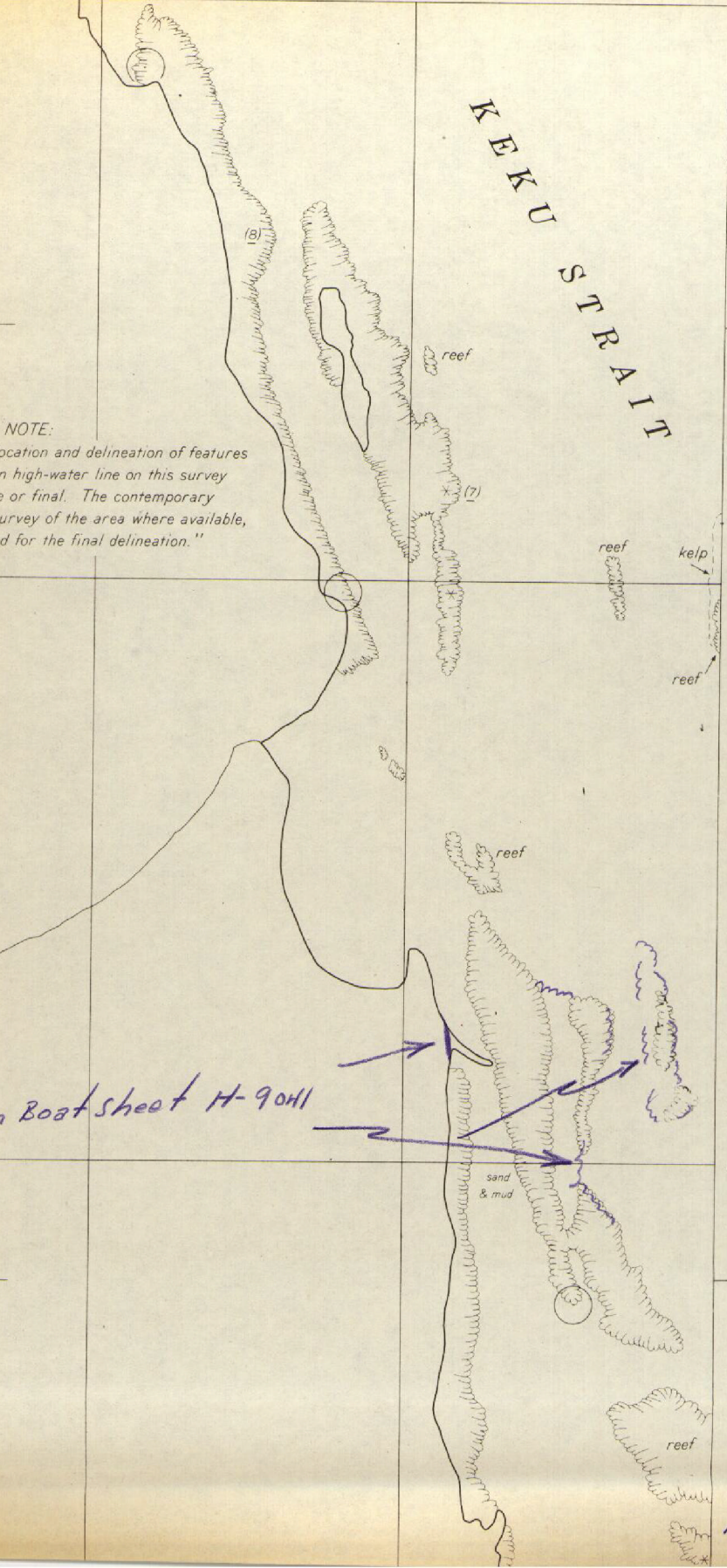
01'

00'30"

134°00'00"
56°52'30"

KEKU STRAIT

y=1,840,000 FT.



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."

From Boat sheet H-9011

52'

51'30"

y=1,835,000 FT.

*T-12198
 1:10,000*