

12199

12199

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-12199

LOCALITY

State Alaska

General locality Keku Strait

Locality Clark Island

1961-1969

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 - 12199

PROJECT NO. (II): Job PH-6206												
FIELD OFFICE (III): Atlantic Marine Center		CHIEF OF PARTY Alfred C. Holmes, RADM, NOAA Director, AMC										
INSTRUCTIONS DATED (II) (III): <table style="width:100%; border:none;"> <tr> <td style="width:50%;">January 18, 1965</td> <td>OFFICE</td> </tr> <tr> <td>November 26, 1965</td> <td>OFFICE SUPPLEMENT I</td> </tr> <tr> <td>January 26, 1967</td> <td>OFFICE AMENDMENT III</td> </tr> <tr> <td>May 11, 1965</td> <td>FIELD</td> </tr> <tr> <td>June 14, 1965</td> <td>FIELD</td> </tr> </table>			January 18, 1965	OFFICE	November 26, 1965	OFFICE SUPPLEMENT I	January 26, 1967	OFFICE AMENDMENT III	May 11, 1965	FIELD	June 14, 1965	FIELD
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 & Graphic												
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 MSL EXCEPT AS FOLLOWS: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., MSL for mean lower low water											
REFERENCE STATION (III): LUCK 1927 ✓												
LAT.: 56° 49' 55.584" (1719.4m) ✓	LONG.: 133° 58' 14.740" (250.0m) ✓	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED										
PLANE COORDINATES (IV): 1 825 999.42 ft. ✓ x = 2 624 742.45 ft. ✓		STATE: Alaska ✓ ZONE: 1 ✓										
<p>NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, OR (IV) WASHINGTON OFFICE.</p> <p>WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.</p>												

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: 29 July 1965		
PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree	DATE 11-09-65	
PROJECTION AND GRIDS CHECKED BY (IV): R. S. Kornspan	DATE 11-09-65	
CONTROL PLOTTED BY (III): C. H. Bishop	DATE 01-13-66	
CONTROL CHECKED BY (III): J. Steinberg	DATE 1-13-66	
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): G. M. Ball	DATE 11- -65	
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY L. O. Neterer, Jr. Rev. by: K. G. Boyle	DATE 05-12-66 05-12-66
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): L. O. Neterer, Jr.	DATE 05-15-66	
SCRIBING BY (III):	DATE	
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): COMPILATION: C.H. Bishop FIELD EDIT: C.H. Bishop SCRIBING & STICKUP:	DATE 05-23-67 01-22-69	
REMARKS: Field Edit by: Ship DAVIDSON June 1968		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Wild RC-8 "W" & Wild RC-9 "M"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
65 M 252 and 253	29 July 1965	09:20	1:50,000	3.1 ft. below MLLW
61 W 9396 thru 9399	16 July 1961	08:42	1:30,000	0.5 ft. above MLLW
61 W 9357 thru 9360	16 July 1961	08:17	1:30,000	1.3 ft. " "

TIDE (III)

PREDICTED

DIURNAL

		RATIO OF RANGES	MEAN RANGE	SPRING 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:

Dec 1971

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

RECOVERED:

2

IDENTIFIED:

1

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-12199

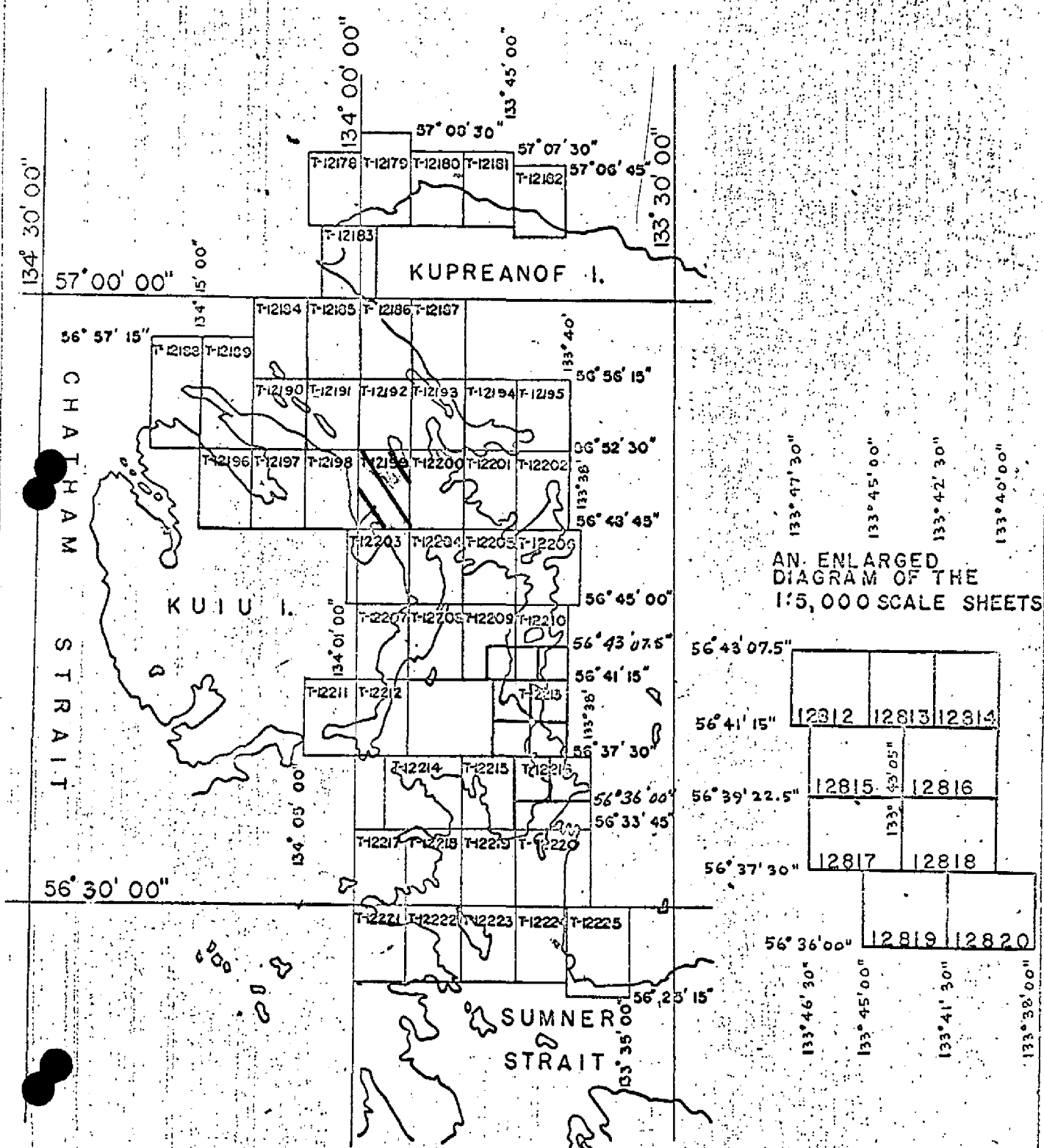
COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for hydro	May 1967	Superseded
Field Edit Applied Compilation complete	Jan. 1969	Superseded
<i>Final Review</i>	<i>Dec. 1971</i>	Superseded
Discrepancies with hydro surveys resolved; Addendum added to Review Report	<i>Jan 1973</i> Jan. 1973	

SHORELINE MAPPING PROJECT

Ph-6206

KEKU STRAITS, ALASKA

SCALE 1:10,000



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

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

A.R.

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12199

Shoreline survey T-12199 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 to 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
JOB PH-6206
T-12199

There was no field inspection prior to compilation.

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Photogrammetric Plot Report
Project 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

Analytic 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 (pre-marked 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 fourteen shoreline sheets to be compiled (T-12178, T-12179, T-12183 through T-12192, T-12196 and T-12197).

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 overhanging trees near the station obscured the target on one photograph.

24. Supplemental Data

Numerous U.S.G.S. 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. Bail
George M. Bail

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.

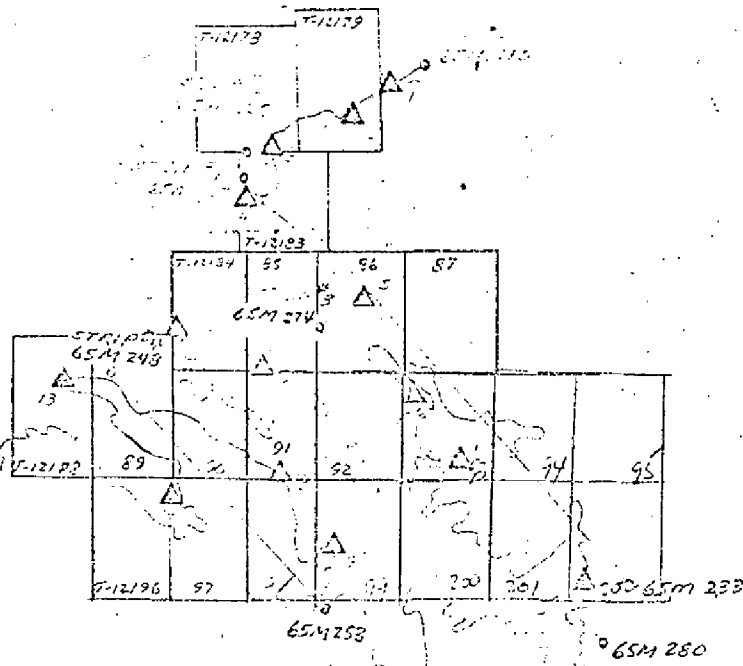
HAM, 1927
(-2.8 -0.9)
AGE, 1927
(+3.4 +3.1)
AMY, 1927
S.S. (-0.6 -0.9)

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)



KENO STAIRCASE, ALASKA
 PH - 6206
 GEOLOGICAL MAPPING
 SCALE 1:10,000
 SINGLE SHEET MAPS
 SCALE 1:50,000

KEY TO SYMBOLS AND COLORS

1. TINT, 1965
2. KELL, 1955
3. BANDEL, 1917
4. SHRT, 1927
5. KARE, 1927
6. HAN, 1927
7. ASL, 1927
8. HAN, 1927
9. LINT, 1927
10. LOW, 1927
11. ALTA, 1927
12. KENO, 1927
13. TINT, 1965
14. TINT, 1965

COMPILATION REPORT
MAP MANUSCRIPT T-12199
PROJECT PH-6206

31. DELINEATION:

Compilation was by Wild B-8, using the "M" plates. This was supplemented with graphic compilation in areas where detail was better defined on the 61 W photographs.

32. CONTROL:

See Photogrammetric Plot Report dated November 1965.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Inapplicable.

35. SHORELINE AND ALONGSHORE FEATURES:

Shoreline and alongshore features were compiled from office interpretation of the photographs. The Mean Lower Low water line was compiled from office interpretation of the 61 W photographs.

36. OFFSHORE DETAILS:

Offshore details were compiled from office interpretation of the photos.

37. LANDMARKS AND AIDS:

None

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

Satisfactory junctions have been with T-12192 to the north, T-12200 to the east, T-12203 to the south, and T-12198 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 PETERSBURG, (D-6), ALASKA, scale 1:63,360, dated 1948. No discrepancies were noted.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with 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.
Lowell O. Neterer, Jr.
Cartographic Technician

Approved for forwarding:

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

Approved:

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

December 8, 1971

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-6206 (Alaska)

T-12199

- Clark Island
- Hare Island
- Hound Island
- Keku Strait
- Kuiu Island

Approved by:

A. Joseph Wraight
A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Bickett
Frank W. Bickett
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.

PHOTOGRAMMETRIC OFFICE REVIEW

T-12199

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 CHB			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 XX	
PHYSICAL FEATURES							
20. WATER FEATURES CHB			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 CHB		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 XX		37. DESCRIPTIVE REPORT CHB		38. FIELD INSPECTION PHOTOGRAPHS XX		39. FORMS CHB	
40. REVIEWER <i>Charles H. Bishop</i> C.H. Bishop 05-23-67				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. <i>R. J. Pate</i>							
COMPILER R. J. Pate 01-22-69				SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.			
Rev. by: C. H. Bishop 01-24-69							
43. REMARKS Field Edit from: Field Edit Ozalid, Field photos. Nos. 61-W-9397, 9398, 9399							

T-12199

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-12199

SHORELINE

DECEMBER 8, 1971

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, 1:20,000 scale made in August-September 1927. The two surveys are only in fair agreement. Many of the ledges and reefs are symbolized on the older survey by the rock awash symbol. Many of the rocks are not visible on the photographs.

Survey No. 4332 is superseded by T-12199 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with USGS PETERSBURG (D-6), ALASKA, 1:63,360 scale quadrangle, edition of 1951 with minor revisions made in 1963. The two surveys are in good general agreement, no major discrepancies were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet H-9041 (DA 10-5-68). The shoreline of the two surveys is in good agreement. The minor differences between the rocks have been indicated on the comparison print in purple.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 8201, 16th edition, November 7, 1970. The two 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 photo-hydro support use and 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

61-W-9398

56°50'30"

133°54'30"

133°58'30"

Not on Boat sheet

65-M-252

61-W-9397

LUCK 1927

pebbles and stones

56°49'30"

T-12199
1:10,000

K U I U I S L A N D



R

A

I

56°51'00"

T

Rock not on Boat sheet
but shown as (5) → * (3)

on Boat sheet as
rock wash
← covers 6 ft MLLW

133°56'30"

133°55'30"

56°50'00"

T-R199
1:10,000