

12201

12201

FORM C&GS-504  U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY	
<b>DESCRIPTIVE REPORT</b>	
<i>Type of Survey</i> SHORELINE (PHOTOGRAMMETRIC)	
<i>Field No.</i> .....	<i>Office No.</i> T-12201
<b>LOCALITY</b>	
<i>State</i> ALASKA	
<i>General locality</i> KEKI STRAIT	
<i>Locality</i> ENTRANCE ISLAND	
<u>1961-1969</u>	
<b>CHIEF OF PARTY</b>	
Alfred C. Holmes, Director, AMC	
<b>LIBRARY &amp; ARCHIVES</b>	
DATE .....	

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR  
TO REGISTRATION

DESCRIPTIVE REPORT - DATA RECORD

T - 12201

PROJECT NO. (II):  PH-6206												
FIELD OFFICE (III):		CHIEF OF PARTY										
PHOTOGRAMMETRIC OFFICE (III):  Atlantic Marine Center		OFFICER-IN-CHARGE Alfred C. Holmes, RADM, NOAA Director, AMC										
INSTRUCTIONS DATED (II) (III):  <table border="0"> <tr> <td>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												
MANUSCRIPT SCALE (III):  1:10,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):  1:8333 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 <del>MEAN SEA LEVEL</del> EXCEPT AS FOLLOWS: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., <del>MEAN LOWER LOW WATER</del>											
REFERENCE STATION (III):  SON 1927 ✓												
LAT.: 56° 49' 45.443" (1405.7m)	LONG.: 133° 48' 30.990" (525.6m)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED										
PLANE COORDINATES (IV):  1 824 864.51 ft. ✓      x = 2 657 214.31 ft. ✓	STATE:  Alaska ✓	ZONE:  1 ✓										
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

FIELD INSPECTION BY (II):  None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Air Photo Compilation Date of Photography: July 16, 1961 & July 29, 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 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. G. Boyle	DATE 12-22-66 12-22-66
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III):  L. O. Neterer		DATE 12-30-66
SCRIBING BY (III):  F. P. Margiotta		DATE 02-05-69
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): COMPILATION: C.H. Bishop FIELD EDIT: C.H. Bishop SCRIBING & STICKUP: R.E. Smith		DATE 04-27-67 01-16-69 02-12-69
REMARKS:  Field Edit By:  Ship PATTON  June 1968		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

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

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
65 M 278	29 July 1965	0947	1:50,000	(from predicted tables) 4.4 ft. below MLLW
61W-9365 thru 9368	16 July 1961	0819	1:30,000	1.8 ft. above MLLW
61W-9420 and 9421	16 July 1961	0858	1:30,000	0.9 ft. above MLLW

TIDE (III)

DIURNAL

	RATIO OF RANGES	MEAN RANGE	<del>MEAN</del> RANGE
REFERENCE STATION: Ketchikan		13.0	15.4
COORDINATE STATION: Entrance Island		12.3	14.7
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

*Leo F. Beugnet, AMC*

DATE:

*Dec 1971*

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

RECOVERED:

IDENTIFIED:

1

0

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

RECOVERED:

IDENTIFIED:

0

0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

T-12201

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for hydrography	Dec. 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 added to Review Report</i>	<i>Jan. 1973</i>	

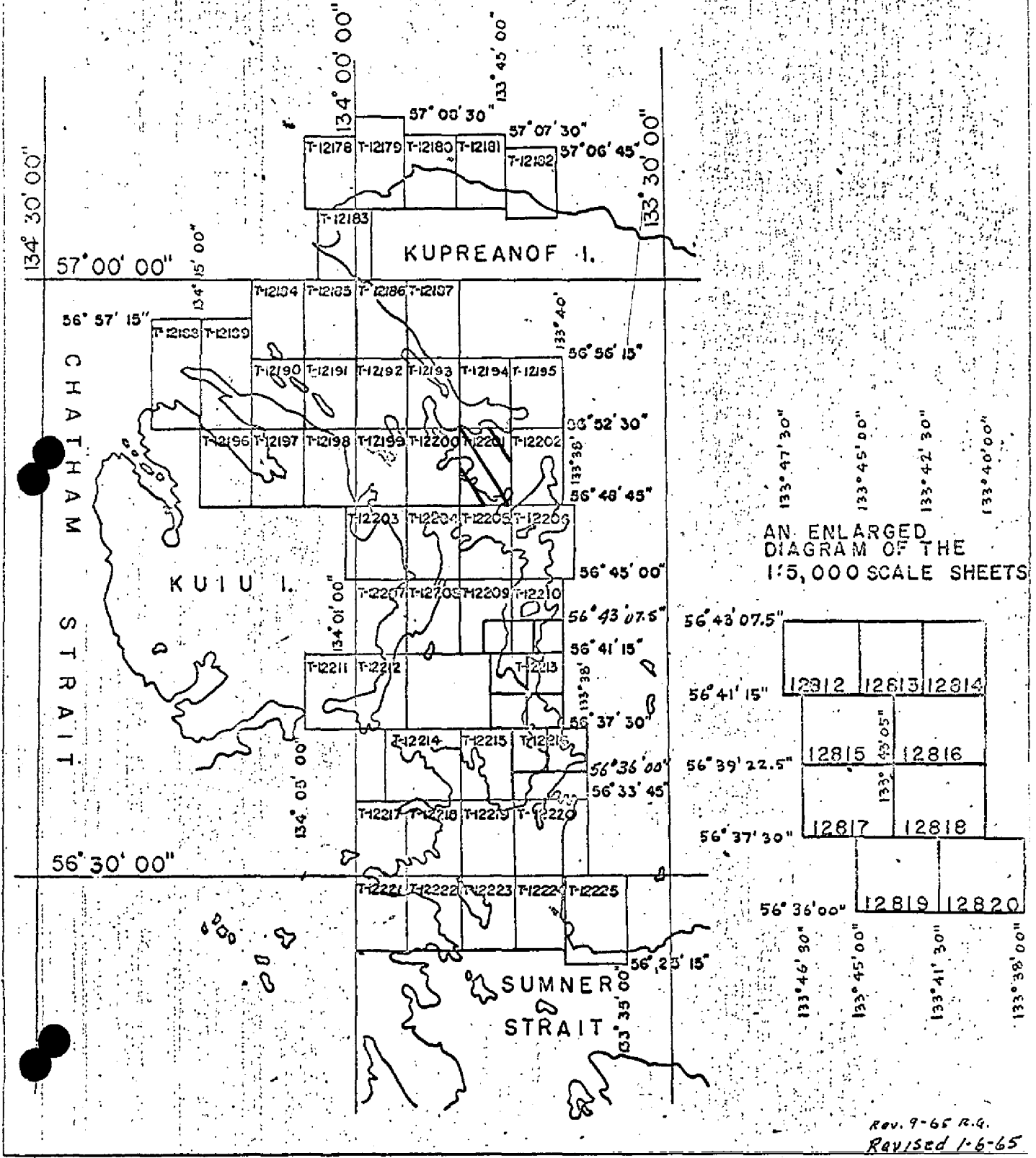
# SHORELINE MAPPING PROJECT

5

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-12201

Shoreline survey T-12201 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  
T-12201  
Project 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.

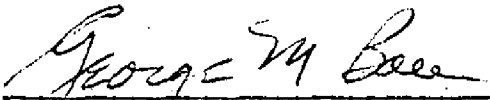
### 24. Supplemental Data

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

Approved and forwarded:

  
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.

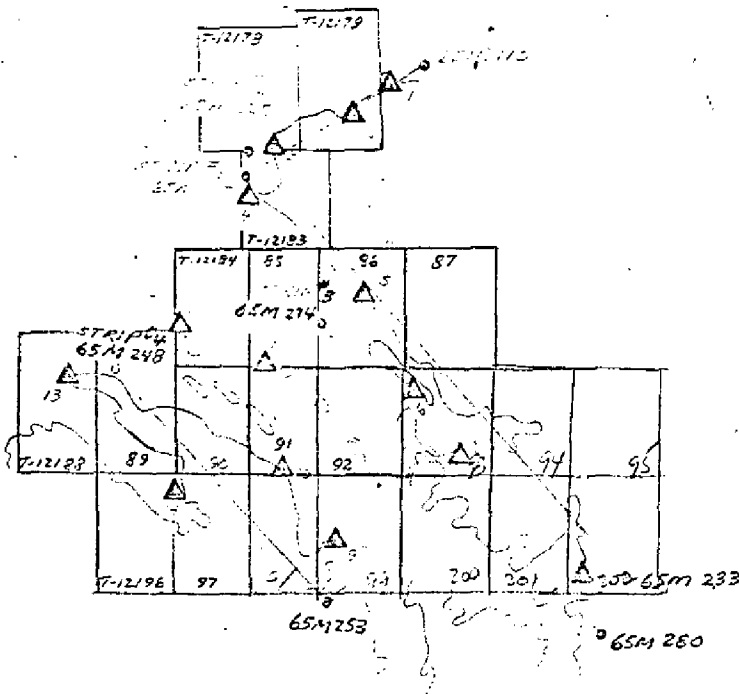
HAM, 1927  
(-2.8 -0.9)  
AGE, 1927  
(+3.4 +3.1)  
AMY, 1927  
S.S. (-0.6 -0.9)

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)



KENEB STRAITS, ALASKA

RH - 6206

SYMBOLS & MAPPING  
SCALE 1:10,000

SINGLE LENS HEIGHTS  
SCALE 1:10,000

KEY TO THE SURVEY STATIONS

1. TINT, 1965
2. KEMP, 1965
3. BENDEL, 1917
4. CART, 1927
5. KAKE, 1927
6. HART, 1927
7. ASH, 1927
8. HAY, 1927
9. LUCK, 1927
10. LOW, 1927
11. ALTO, 1927
12. KERO, 1927
13. SMITH, 1927
14. SMITH, 1927



COMPILATION REPORT  
T-12201

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:

Contours are inapplicable. Drainage was compiled from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE FEATURES:

There was no field inspection prior to compilation. The shoreline and alongshore features were compiled by office interpretation of the photographs. The Mean Lower Low water line was compiled from office interpretation of the 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-12194 to the North, T-12202 to the East, T-12205 to the South and T-12200 to the West.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A Comparison has been made with USC&GS QUADRANGLE, PETERSBURG (D-6), ALASKA, scale 1:63,360 dated 1948.



47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with Nautical Chart 8201, scale 1:217,828, 11th edition, dated 3/4/63, revised 7/20/64.

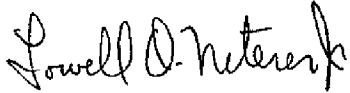
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None

ITEMS TO BE CARRIED FORWARD:

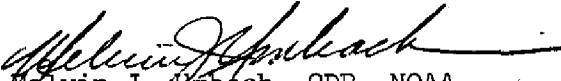
None

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-12201

Dakaneek Bay

Entrance Island

Keku Strait

Kupreanof Island

Approved by:

*A. Joseph Wright*  
A. Joseph Wright  
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 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 (9-66)		U.S. DEPARTMENT OF COMMERCE ESSA COAST AND GEODETIC SURVEY	
<b>PHOTOGRAMMETRIC OFFICE REVIEW</b>			
T- 12201			
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  CJB		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
<b>ALONGSHORE AREAS (Nautical Chart Data)</b>			
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
<b>PHYSICAL FEATURES</b>			
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
<b>CULTURAL FEATURES</b>			
27. ROADS  XX	28. BUILDINGS  XX	29. RAILROADS  XX	30. OTHER CULTURAL FEATURES  XX
<b>BOUNDARIES</b>			
31. BOUNDARY LINES  XX		32. PUBLIC LAND LINES  XX	
<b>MISCELLANEOUS</b>			
33. GEOGRAPHIC NAMES  CHB		34. JUNCTIONS  CHB	35. LEGIBILITY OF THE MANUSCRIPT  CHB
36. DISCREPANCY OVERLAY  XX	37. DESCRIPTIVE REPORT  RES	38. FIELD INSPECTION PHOTOGRAPHS  XX	39. FORMS  CHB
40. REVIEWER <i>Charles H. Bishop</i> C.H. Bishop		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> 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 <i>R.J. Pate</i> R.J. Pate		SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
Rev. by: C.H. Bishop		01-07-69	
01-17-69			
43. REMARKS  Field Edit Applied from: Field Edit ozalid and Field Photo No. 65-M-278			

T-12201

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-12201

SHORELINE

DECEMBER 16, 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 surveys Nos. 4332 and 4340. These are 1:20,000 scale surveys made in August-September, 1927 and September-October, 1927 respectively. These surveys are now obsolete and are superseded by T-12201 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A visual 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.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of H-9041 (DA 10-5-68) and H-9158 (DA 10-4-70). One rock on H-9041 at latitude 56°50'03" - longitude 133°49'23" and two rocks on H-9158 at latitude 56°48'49" - longitude 133°46'08" and latitude 56°48'54" - longitude 133°46'47" were obtained from an Incomplete manuscript. The latter two fall within the foreshore area. The other one was verified by neither the field editor or hydrographer. All were removed from the final manuscript at the time of final review.

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

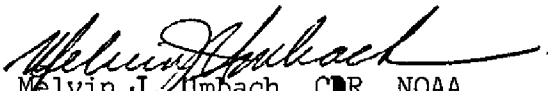
This survey was compiled in part from 1:50,000 scale photography. It is considered adequate for nautical chart construction purposes.

Reviewed by:



Leo F. Beugnet  
Cartographer

Approved:



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

Approved:



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 cards 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*

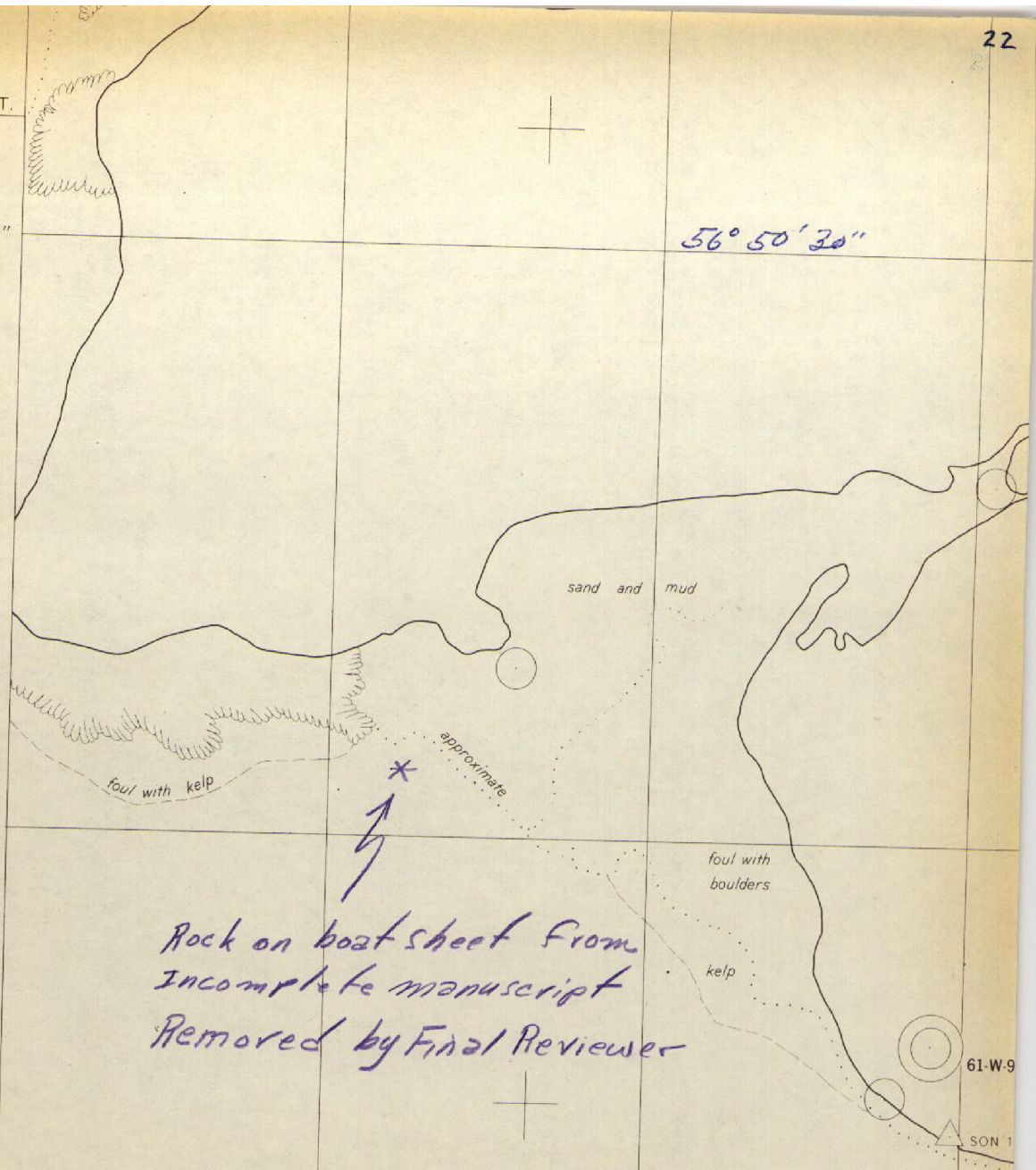
Charles H. Bishop  
Cartographer  
January, 1973



y=1.830.000 FT.

50'30"

56° 50' 30"



50'

Rock on boat sheet from  
 Incomplete manuscript  
 Removed by Final Reviewer

y=1.825.000 FT.

49'30"

56° 49' 30"

133° 50' 00"

133° 49' 00"

K E K U

J-12201  
 1:10,000



56° 49' 30"

61-W-9366

sand and mud

approximate

rocky

shells and stones

61-W-9367

*Rocks on boat sheet  
from incomplete Manuscript  
Removed by Final Reviewer*

mud

56° 49' 00"

kelp

kelp

rocky

foul

mud

Entrance Island

rocky

133° 47' 00"

46' 30" x=2,665,000 FT.

133° 46' 00"

45' 3

GENE  
Rock ledge

- △ Recoverable horizontal control station of third-order or higher accuracy
- ..... Approximate mean lower low water line
- The heavy shoreline defines the approximate mean high water.
- Compiled by photogrammetric methods, from aerial photographs
- Date of Photography July 1961 and July 1965
- Date of Field Inspection None
- Date of Field Edit June 1968
- Date of Final Compilation March 1969
- Date of Final Review Dec. 1971

U.S. COAST  
SHOREL

*T-12201  
1:10,000*

ENTR