FORM **C&GS-504**

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

DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTOGRAMMETRIC)

Field No. Office No. T-12204

LOCALITY

State ALASKA

General locality KEKU STRAIT

Locality POINT CAMDEN

19.61-1970

CHIEF OF PARTY
Alfred C. Holmes

Director, Atlantic Marine Center

LIBRARY & ARCHIVES

DATE

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR
TO REGISTRATION

FORM C&GS-181a		II S III	EPARTMENT OF COMMERCE
(3-66)		ENVIRONMENTAL SCIENCE	SERVICES ADMINISTRATION AST AND GEODETIC SURVEY
DESCRIPTIVE	E REPORT - DAT		
PROJECT VO (VI)	T - 12204	 	
PROJECT NO. (II):			
PH-6206	<u> </u>	<u>,</u>	
FIELD OFFICE (III):		CHIEF OF PARTY	
NONE			
PHOTOGRAMMETRIC OFFICE (III):	z 57A	OFFICER-IN-CHARGE	
ATLANTIC MARINE CENTER, NORFOLK	C, VA.	Alfred C. Holme	≥s
INSTRUCTIONS DATED (III) (III):	mnn 10 10¢		
OFFICE SUPPLEMENT III DECEM	MBER 19, 1967	1	
OFFICE SUPPLEMENT IV APRIL	14 , 1970		
FIELD INSTRUCTIONS FEBRU	JARY 11, 1969)	
OFFICE INSTRUCTIONS JANUA	ARY 18, 1965		
orres moradisie Grad.	10, 1303		
METHOD OF COMPILATION (III):			
WILD B-8 STEREOPLOTTER			
MANUSCRIPT SCALE (III):		OPIC PLOTTING INSTRUME	
1:10,000 DATE RECEIVED IN WASHINGTON OFFICE (IV):		O PANTOGRAPHED T	· · · · · · · · · · · · · · · · · · ·
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REP	ORTED TO NAUTICAL CHAI	RI BRANCH (IV):
APPLIED TO CHART NO.	DATE:	DATE	REGISTERED (IV):
		Sec	X.4.1925
GEOGRAPHIC DATUM (III):		VERTICAL DATUM (III): Mean High Water MEAN SEALEVEL EXCE	PT AS FOLLOWS:
NA 1927		Elevations shown as (25)	refer to mean high water
		Elevations shown as (5) re i.e., mean-lew water-or-me	
REFERENCE STATION (III):	·· ·		
DEN, 1927			
LAT.: LONG.:		- Array	
56°48'39.544"(1223.2)m 133°52'15.6	636 "(265.3)m	ADJUSTED UNADJUSTED	
PLANE COORDINATES (IV):		STATE	ZONE

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, OR (IV) WASHINGTON OFFICE.

ALASKA

WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.

1,818,208.98 FT. x = 2,644,696.35 FT.

1

USCOMM-DC 16276B-P81

FORM C&GS-1816 U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY **DESCRIPTIVE REPORT - DATA RECORD** T-12204 ELD INSPECTION BY (II): DATE: NONE MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): AIR PHOTO COMPILATION DATE OF PHOTOGRAPHY: Aug. 24, 1969 PROJECTION AND GRIDS RULED BY (IV): April 10, 1970 J. Dempsey PROJECTION AND GRIDS, CHECKED BY (IV): E. Homick April 10, 1970 CONTROL PLOTTED BY (III): A. Shands June 11, 1970 CONTROL CHECKED BY (III): DATE F. Margiotta June 11, 1970 RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): Robert E. Fisher Feb. 19, 1970 STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY A. Shands June 15, 1970 Reviewed A. C. Rauck, Jr. June 15, 1970 CONTOURS INAPPLICABLE MANUSCRIPT DELINEATED BY (III): Frank P. Margiotta DATE June 29, 1970 SCRIBING BY (III): R. White July 16, 1971 PHOTOGRAMMETRIC OFFICE REVIEW BY (111): DATE R. J. Pate July 9, 1969 REMARKS: FIELD EDIT BY: LCDR F. T. SMITH

DESCRIPTIVE REPORT - DATA RECORD

T-12204

CAMERA (KIND OR SOURCE) (III):

Wild RC-8 "E" and "W"

			T			
NUMBER	DATE	TIME	SCALE	s	AGE OF TH	DE
9 E(c)-1958 9 E(c)-1935 1-W-9584-9585 1-W-9600-9604	Aug. 24,1969 Aug. 24, 1969 July 16, 1961 July 16, 1961	1311 PST 1242 PST 1108 PST 1117 PST	1:40,000 1:20,000 1:20,000	10.3 f	t. abov t. abov t. abov	e MLLW e MLLW
	PREDI	CTEDTIDE (III)		RATIO OF	MEAN	Diurna
				RANGES	RANGE	RANGE
reference station: Ketc	hikan , Al aska				13.0	15,4
ordinate station:	rt Camden				11 <u>.</u> 5	13.9
SUBORDINATE STATION:						
WASHINGTON OFFICE REVIEW B	Y (IV): Leo F. Bea	ugnet, An	MC	DATE:	ril 1.	972
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):				IDENTIFIED:		
NUMBER OF BM(S) SEARCHED FOR (II): NONE NONE			IDENTIFIE	NE		
NUMBER OF RECOVERABLE PHO	OTO STATIONS ESTABLISH	ED (III): NONE				
NUMBER OF TEMPORARY PHOTO	HYDRO STATIONS ESTAB		NONE			

T-12204

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete, Pending Field Edit	J une 29, 1970	Superseded
Field Edit Applied	J uly 6, 1970	
Final Review	April 1972	<u>!</u>
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6

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12204

Shoreline survey T-12204 is one of 53 similar surveys in project PH-6206. The primary purpose of the survey was to provide modern shoreline for nautical charts and photo-hydro support data for hydrographic surveys in the Keku Strait area. Because of difficulty during Aerotriangulation the compilation of the manuscript was delayed and it was not furnished for hydro support use.

There was no field work prior to compilation with the exception of identification of horizontal control for aerotriangulation. The survey was subsequently field edited during the 1970 field season.

Compilation was at 1:10,000 scale by Wild B-8 plotter methods using the photography of July 1961 and August 1969. The 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 April 1972. One cronaflex positive and a negative of the final reviewed survey are forwarded for record and registry.

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FIELD INSPECTION REPORT JOB PH-6206

There was no field inspection prior to compilation.

Aerotriangulation Report PH-6206 Keku Strait, Alaska

February 19, 1970

21. Area Covered

This project covers areas in the vicinity of Keku Strait - Kuiu Island, Alaska. T-sheets covered are as follows:

T-12203 thru T-12225 all T-sheets are at 1:10,000 scale

22. Method

Five strips were bridged to provide horizontal positions of pass points needed for compilation. Strip #12 was bridged in two parts, 12a and 12b, because of open water. Strip #14 was not bridged due to satisfactory pass point coverage from Strips 13, 15 and 16.

Strip #11 was bridged on the C-5. Strips 12a, 12b, 13, 15 and 16 were bridged on the C-8. All were adjusted by electronic computer.

Strip #11 used seven control points and a tie point in a third degree adjustment.

Strip #12a used a first degree adjustment with two control points. One tie point was available for a check.

Strip #12b used a third degree adjustment with five control points.

Strip #13 used three control points in a second degree adjustment.

Strips 15 and 16 used four control points in third degree adjustments.

All pass points, except one in Strip #16, were drilled.

Corresponding tie point values were averaged.

This project was tied through common control stations with the 1966 project in this area.

23. Adequacy of Control

Horizontal control was adequate in all strips. However station "SPIT 1927" and its subpoint appearing in both Strip #11 of this project and in Strip #1 of the adjacent "Sumner Strait" project had residual errors on the order of 15 feet in X. These errors were similar in direction and magnitude for both points and in both strips. The reason for not obtaining a better check with these points is not known.

Many control stations in this project were recovered in 1965 and pricked on 1964, 1:20,000 scale photography. The 1970 bridge was run with new 1:40,000 scale photography, therefore, much of the old control was not visible in these bridges. All 1969 identified control used in this project was targeted.

The RMS errors in fit to control for the 1969 identified control, (except "SPIT 1927") and including the 1965 identified control "ALL 1927" and "CEN 1927" were 2.5 feet in X and 1.2 feet in Y. The maximum errors were 6.8 feet in X and 3.3 feet in Y.

24. Supplemental Data

U. S. Geological Survey quadrangles were used to provide elevations for vertical adjustment of the bridges.

25. Photography

Photography was satisfactory with regards to coverage, overlap and definition.

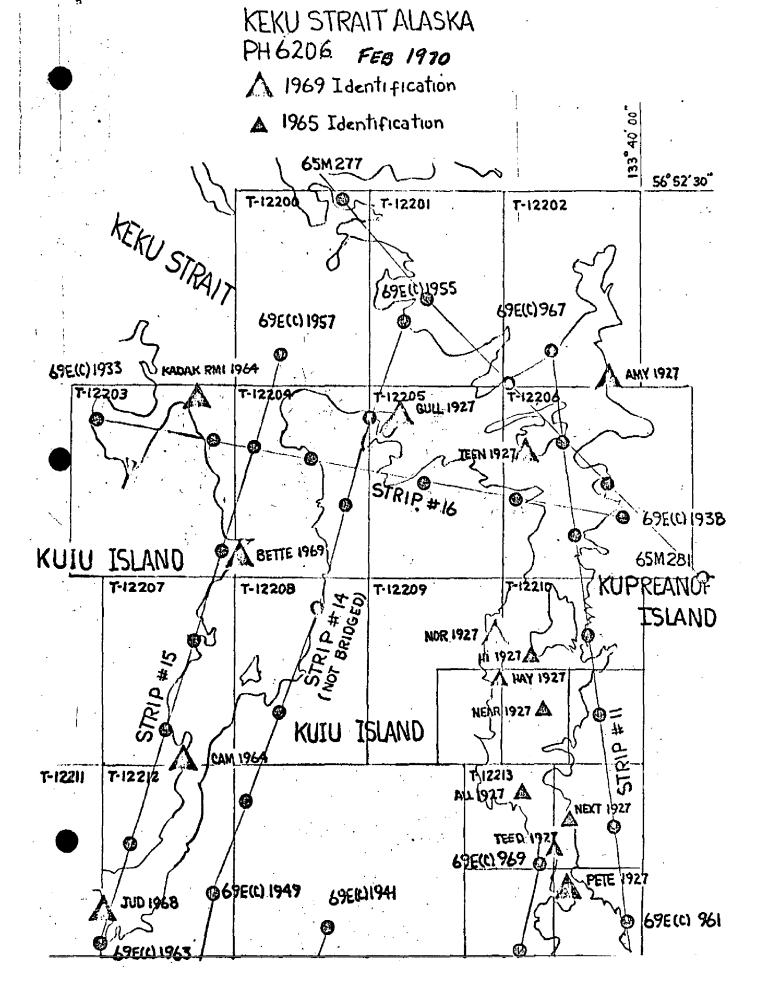
Submitted by,

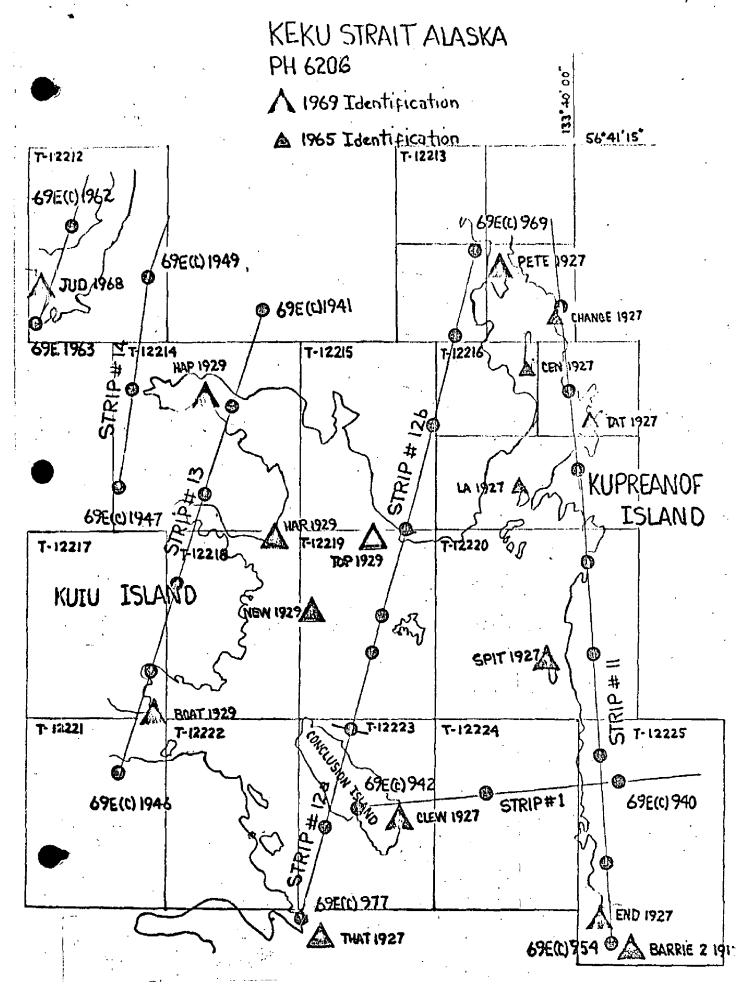
Robert E. Fisher (Cartographer (Photo)

Approved and forwarded,

Henry P. Eichert Chief, Aerotriangulation

Section





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

FORM C&G5-164 (4-68) USCOMM-DC | 50318-P68

DESCRIPTIVE REPORT ONTROL RECORD

MAP T. 12204 PROJECT NO.	T NO. PH-6206	\$C/	SCALE OF MAP 1:10,000	SCALE	SCALE FACTOR NONE	
STATION	SOURCE OF INFORMATION (INDEX)	MU⊤AO	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	NATE INATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Pt. = 3048006 meter) FORWARD (1840)	(TUM PROJECTION LINE 006 meter) (BACK)
			56 45 24.80		767.1	(1088.8)
BETTE, 1969	FIELD POS.	NA 1927	133 54 43,15		733.2	(286.3)
			56 48 39,544		1223.2	(632.8)
DEN, 1927	VOL. 2, pg.356	TEB1 ALX	133 52 15,636		265,3	(752.7)
			56 48 14,519		449,1	(1406.9)
DEE, 1927	VOL. 2, pg. 356	149 1927	133 50 07,056		119.7	(898.5)
;						
				<u>.</u>		
		i.				
_						
						;
The destination						
B. Wilson	DATE 6/24/70		CHECKED BY R. White		6/24/70	12

COMPILATION REPORT

T-12204

31. DELINEATION

The Wild B-8 plotter was used. Photographic coverage was adequate. There was no field inspection prior to office compilation.

32. CONTROL

See "Aerotriangulation Report", dated February 19, 1970.

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

The mean high water, mean lower low water line and all alongshore details were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

A satisfactory function was made with T-12200 to the north, T-12205 to the east, T-12208 to the south and T-12203 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 1951, with minor revisions 1963.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 8201, scale 1:217,828, 15th edition, dated November 15, 1967 (corrected thru NM 46/69).

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

LG Marguetta

Frank P. Margiotia Cartographic Technician 6/29/70

Approved for forwarding:

Melvin V. Ambach, CDR, NOAA Chief, Photogrammetry Division, AMC

Approved:

Alfred C. Holmes RADM, NOAA

Director, AMC

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6206 (Keku Strait, Alaska)

Keku Strait
Kuiu Island
Point Camden
Port Camden

T-12204

Approved by:

A. Joseph Wraight, Chief Geographer Prepared by:

Frank W. Pickett Cartographic Technician

0.K. 4-4-72

49. NOTES FOR THE HYDROGRAPHER

None

FORM C&GS-1002	-			J.S. DEPARTMENT OF COMMERCE
(9-00)	PHO	TOGRAMMET	RIC OFFICE REVIEW	COAST AND GEODETIC SURVEY
	,	·	2204	
A DESCRIPTION AND SPIRE	7			
T. PROJECTION AND GRIDS	2 TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
R J P	RJP		R J P	RJP
CONTROL STATIONS		·		
5. HORIZONTAL CONTROL STA THIRD-ORDER OR HIGHER A	COURACY	6. RECOVERAS OF LESS TH (Topographic	· ·	7. PHOTO HYDRO STATIONS
RJP	T]	XX	XX
8, BENCH MARKS	FIXES	OF SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
ХХ	XX		Bridge W.O.	<u> </u>
ALONGSHORE AREAS (Nautical				
12. SHORELINE	13. LOW-WATER	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
RJP	R J P		RJP	(xx
16. AIDS TO NAVIGATION	17. LANDMARK	S	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
χх	хх		R J P	XX
PHYSICAL FEATURES 20. WATER FEATURES		121 NATURAL /	GROUND COVER	22. PLANETABLE CONTOURS
		an water		
RJP	124	<u> </u>	XX	XX
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
XX	XX		XX	
CULTURAL FEATURES				
27. ROADS	28. BUILDINGS	i I	29. RAILROADS	30. OTHER CULTURAL FEATURES
xx	XX		XX	xx
BOUNDARIES				
31. BOUNDARY LINES			32. PUBLIC LAND LINES	
XX			<u> XX</u>	· · · · · · · · · · · · · · · · · · ·
MISCELLANEOUS 33. GEOGRAPHIC NAMES		34. JUNCTIONS		35. LEGIBILITY OF THE
33. GEOGRAPHIC NAMES		34, JUNCTIONS	•	MANUSCRIPT
R J P	1 4 8]	RJP	RJP
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	(38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
RJP	RJP		L	
40. REVIEWER		_	SUPERVISOR, REVIEW SECTION	ON OR UNIT
R.J. Pate Ju	lly 9, 197	0	i i	
41. REMARKS (See attached shee	υ			
FIELD COMPLETION ADDITION	S AND CORRECT	IONS TO THE M	ANUSCRIP T	
42. Additions and corrections script is now complete exc	furnished by the	e field completi der item 43.		to the manuscript. The manu-
Field Edit: Thomas	Bulfer Ju	ly 6, 197	Į SUPERVISOR L	
			<u> </u>	·
43. REMARKS				
Field Edit	applied f		d Edit Ozalid, Field 9584 & 69 E 1958	Photos
		- 4		

FIELD EDIT REPORT OPR-448 Port Camden Southeast Alaska

INTRODUCTION

Field edit reports are attached for the following maps:

T-12203 T-12204 .T-12207 T-12208 T-12211 T-12212

Field photographs and copies of the field edit ozalid were taken into the field. The mean high water line was verified by visual inspection of the shoreline and ozalids in the field and paced distances from photo-identifiable objects.

Notes have been made in red-violet ink on the photographs and cross-referenced with the ozalids. All times are based on 105 W meridian.

Field inspection of these maps is completed and it is recommended that they be revised in accordance with this field edit and accepted as advance manuscripts.

FIELD EDIT REPORT MAP-T-12204 Southeäst Alaska OPR-448 Port Camden

The field edit was performed by LCdr. F.T. Smith. The work was conducted from a small boat.

METHOD

The field edit ozalid and field photographs were taken to the area of the map and the specific items investigated. Information on the specific items is shown on the ozalid and cross referenced to the photographs. Field measurements were made by pacing, taping or estimating. Vertical measurements were made with a hand level and a tape. Since hydrographic control from the previous season was mostly down or missing it was not possible to use sextant fixes for positioning. The 69E photographs were very difficult to use in the field due to their size and lack of resolution. They could not be used with pocket stero viewers. The mylar T sheet was compared to the hydrography from the 1969 season and any discrepancies were noted on the ozalid. Notes are on photographs 69E1958, 61W9382, 61W9383, 61W9583 and 61W9584. All times are on the 105 W meridian.

ADEQUACY OF COMPILATION

The general area marked with note A at 56°48'30"N and 133°52'30"W has a MHW line that is formed by the seaward most trees. The foreshore is very steep and the trees overhang the shore. There were no photoidentifiable points in this area and as a result the shoreline is sketched in on the photographs by observation.

Those itemsmarked B which appear to be sand ridges are, with one exception, rock ledges covered with sea poppies. The sea poppies are light yellow colored sea weed which grows on rocks which are exposed in the tidal cycle.

The compilation appears to be adequate.

RECOMMENDATIONS

It is recommended that this manuscript be revised in accordance with the notes on the pzalid and photographs and the map be accepted as an advance manuscript. There were no aids to navigation on this map.

Respectfully submitted,

F.T. Smith LCdr. NOAA

APPROVAL SHEET FOR FIELD EDIT OPR-448 Port Camden

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

T-12203 T-12204 T-12207 T-12208 T-12211 T-12212

Inspection. of the work was made.

Ray E. Moses CDR. NOAA

Commanding Officer NOAA Ship DAVIDSON

REVIEW REPORT T-12204

SHORELINE

April 20, 1972

61. GENERAL STATEMENT

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A visual comparison was made with a copy of registered survey No. 2116. This is a 1:80,000 scale survey made in 1893. It is now obsolete and is superseded by T-12204 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. PETERSBURG (D-6), ALASKA, 1:63,360 scale quadrangle, edition of 1948. The two surveys are in good general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of boat sheets H-9041 (DA-10-5-68), H-9082 (DA-10-4-69) and H-9158 (DA-10-4-70). The hydrography on H-9082 was accomplished prior to the compilation of survey T-12204. No mean high water line, rocks, ledges or foul areas are shown on that boat sheet nor on H-9041 in the small area of that survey which is common to T-12204.

Special attention is called to two areas on H-9082. At latitude $56^{\circ}45^{\circ}27^{\circ}$ longitude $133^{\circ}51^{\circ}50^{\circ}$ several minus soundings plot upon a small island, or peninsula, with trees visible on the photographs. Near latitude $56^{\circ}48^{\circ}35^{\circ}$, longitude $133^{\circ}53^{\circ}05^{\circ}$ several soundings plot inshore of the mean high water line. From examination of the photographs it appears that the mean high water line as shown on T-12204 is correct.

The mean lower low water line as shown on T-12204 is not in complete agreement with that of the hydrographic survey. It has been indicated as approximate and retained on the shoreline survey for any value it may be to the nautical chart compiler.

65. COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with Chart 8201, 16th edition, dated November 7, 1970. No major discrepancies between the two surveys were noted.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with instructions and meets the National Standards of Map Accuracy.

Reviewed by:

Leo F. Beugner Cartographer

Approved for forwarding:

Mejvin J. Mabach, CDR, NOAA

Chief, Photogrammetry Division, AMC

Approved:

Al red C. Holmes, RADM, NOAA

Director, Atlantic Marine Center

Approved:

Chief, Photogrammetric Branch Chief, Coastal Mapping Division

183°53′00″		NOTE: rammetric location and delineation of tom the mean high-water line on this su'be complete or final. The contemporatrographic survey of the area where and be consulted for the final delineation.	2.4
		NOTE: NOTE: NOTE: om the mean high-water line on this survey be complete or final. The contemporary rographic survey of the area where available, the consulted for the final delineation.	
	61-W-9600	Extra Marian	يرفر
	Survey of the state of the stat		A Company of the Comp
	Sound, Boats,		
133°51'00"	Soundings on fact land Boat sheet H-9082		
2204	56° 45' 30"	+	56.46 00"