12219

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline	• • • • • • • • • • • • • • • • • • • •
Job No PH-6206	Мар No Т-12219
Classification No. Field Edited	Edition No
LOCALIT	Υ
State Alaska	
General Locality Keku Strai	t
Locality Monte Carlo Islan	
•	
1961 TO	19 71
Alfred C. Holmes, Direc	tor, AMC
REGISTRY IN AR	CHIVES
DATE	

☆ U.S. GOVERNMENT PRINTING OFFICE; 1972.760-598

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR
TO REGISTRATION

DESCRIPTIVE REPORT - DATA RECORD

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JECT NO. (II):					
PH-6206					
FIELD OFFICE (II):	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	CHIEF OF PARTY	,	
None			:		
PHOTOGRAMMETRIC OFFICE (III);		OFFICER-IN-CHAI	RGE	
Atlantic Marine Cer	nter, Norfolk, VA		Alfred C. H	Iolmes, D	irector, AMC
INSTRUCTIONS DATED (II) (III):	-			· · · · · · · · · · · · · · · · · · ·	
	OFFICE SUPPLEMENT I	III D ec e n IV April	mber 19, 196 L 14, 1970	57	
METHOD OF COMPILATION (II)):					
Wild B-8 Stereo	Plotter	,			
MANUSCRIPT SCALE (III):			PIC PLOTTING INS		
1:10,000		1,20,000) Pantograph	ned To 1:	10,000
E RECEIVED IN WASHINGTO	N OFFICE (IV):	DATE REPO	RTED TO NAUTICA	L CHART BRA	NCH ((V):
APPLIED TO CHART NO.		DATE:		DATE REGIS	rered (IV):
GEOGRAPHIC DATUM (III):		I	VERTICAL DATU HIGH WAR	MTER L EXCEPT AS as (25) refer to	
N.A. 1927			Elevations shown i.e., mainstinuswat	_	
REFERENCE STATION (III):	1				
NEW, 1927					
LAT.: 56 ⁰ 32 ¹ 12.298" (380.4	Long.: 133 ⁰ 49 152,880" (903.8M)	X ADJUSTED UNADJUSTED		
PLANE COORDINATES (IV):			STATE	, ,	ZONE
y=1,718,007.96 Ft.	x = 2,652,402.18 F	t.	Alaska	<i>i</i> * ~	1
OR (IV) WASHINGTON OFFICE.	TETMER THE ITEM IS TO BE ENTE				
OR (IV) WASHINGTON OFFICE.	SONNEL ON THIS RECORD GIVE T				

DESCRIPTIVE REPORT - DATA RECORD

	T-12219	
FIELD INSPECTION BY (II):		DATE:
Nana		_
None MEAN HIGH WATER LOCATION (III) (STATE DATE	AND METHOD OF LOCATION):	·
Air Photo Compilation		
PROJECTION AND CRIPE BY EN CHIL-		DATE
PROJECTION AND GRIDS RULED BY (IV):		
J. Dempsey-Coradomat	<u> </u>	April 10, 1970
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
E. Homick-Coradomat		April 10, 1970
CONTROL PLOTTED BY (III):		DATE
Aertriangulation - Coradomat		June 11, 1970
Triangulation - F. P. Margic	tta	Aug. 14, 1970
CONTROL CHECKED BY (III):		DATE
Aerotriangulation-Coradomat		June 11, 1970 Aug. 14, 1970
Triangulation - C.E. Blood		Rug. 14, 1570
RADIAL PLOT OR STEREOSCOPIC CONTROL EXT	ENSION BY (III):	DATE
Robert E. Fisher		Feb. 19, 1970
STEREOSCOPIC INSTRUMENT COMPILATION (III):		DATE Aug. 12, 1970
STEREOSCOPIC INSTRUMENT COMPLEXITION (III).	Reviewed: A. Shands & A.C. Kauck	
	Jr.	
	contours Inapplicable	DATE
)
MANUSCRIPT DELINEATED BY (III): .		DATE
Frank P. Margiotta		Aug. 28, 1970
SCRIBING BY (III):		DATE
R.R. White		Jan. 11, 1972
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):	Compilation: R.J. Pate	DATESept. 11, 1970
0	Field Edit: T.J. Bulfer	Sept. 9, 1971 { 2/16/72
REMARKS:	oing and Stick Up: R.R. White	DATE:
	V. Herz & Lowell O. Neterer, Jr.	April 1971

9

DESCRIPTIVE REPORT - DATA RECORD T-12219

MERA (KIND OR SOURCE) (III):

Wild RC-8 "E"						
		OTOGRAPHS (III)		- 		
NUMBER	DATE	TIME	SCALE	\$1	TAGE OF TI	DΕ
69-E-(c)-973 & 974	Aug. 5, 1969	12:15	1:40,000	4.3 ft	t, above	MLLW
61-W-9460 thru 9463	July 16, 1961	09:33	1:20,000	-0.5	ft.belov	MLLW
61-W-9518 thru 9521	וו זו זו	10:25	1:20,000	-0.2	ft.belov	MLLW
					•	
	Predicted	TIDE (HI)				Diurn
	Tredicted			RATIO OF RANGES	MEAN RANGE	SPRING TANGE
REFERENCE STATION:	Ketchikan, Ala	ska			13.0	1 5.4
ORDINATE STATION:	Monte Carlo Is	land			10.3	12.5
SUBORDINATE STATION:						
Atlantic Marine Cent	er.	D 1 -1 -		DATE:	10 7 7	
PROOF EDIT BY (IV):	C.H.	<u>Bishop</u>		April :	1973	
NUMBER OF TRIANGULATION STA	TIONS SEARCHED FOR	(ii):	'RECOVERED:	IDENTIFIE 2	D:	
NUMBER OF BM(S) SEARCHED FOR	R (II) :	None	RECOVERED: None	IDENTIFIE None	D	
NUMBER OF RECOVERABLE PHOT	O STATIONS ESTABLIS		Non e			
NUMBER OF TEMPORARY PHOTO	HYDRO STATIONS ESTA	ABLISHED (III):	None			
REMARKS:	ç t			:	r	
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	1				· .	

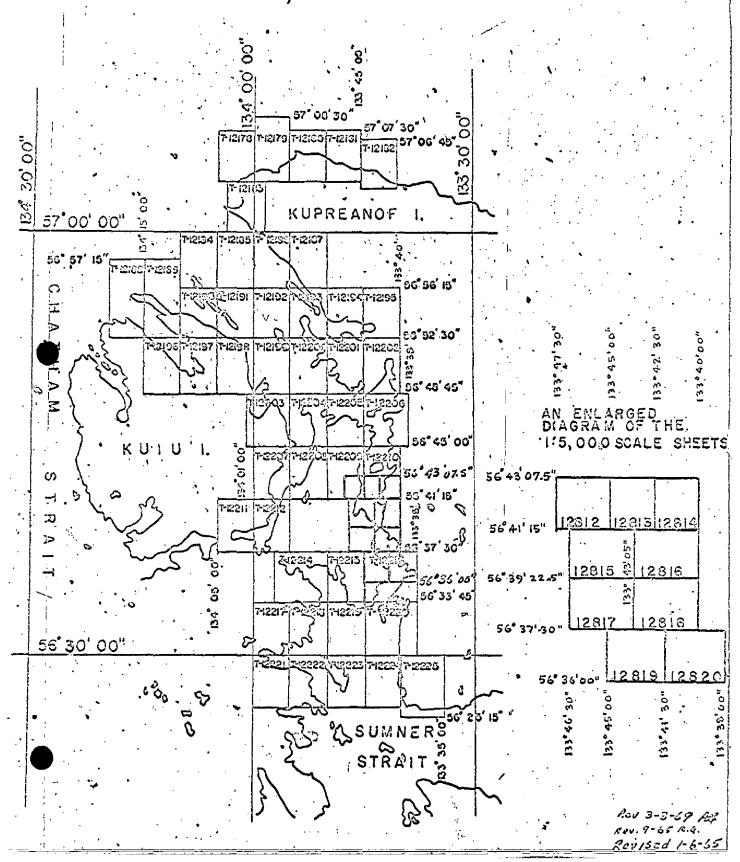
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T-12219

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete Pending Field Edit	Aug. 28, 1970	Superseded
Field Edit Applied	Aug. 1971	Superseded 4
Final Review	April 1973	
·		c
	·	

SHORELINE MAPPING PROJECT

Ph-6206 KEKU STRAITS, ALASKA SCALE 1:10,000



SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12219

This 1:10,000 scale shoreline manuscript is one of 53 maps that comprise Project PH-6206, Keku Strait, Alaska. The project diagram indicates the location of T-12219 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 1970 and 1971. 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 3 minutes 45 seconds in latitude by 5 minutes in longitude.

A cronaflex copy of the final reviewed manuscript and a negative have been forwarded for record and registry.

FIELD INSPECTION REPORT

Project PH-6206

T-12219

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,

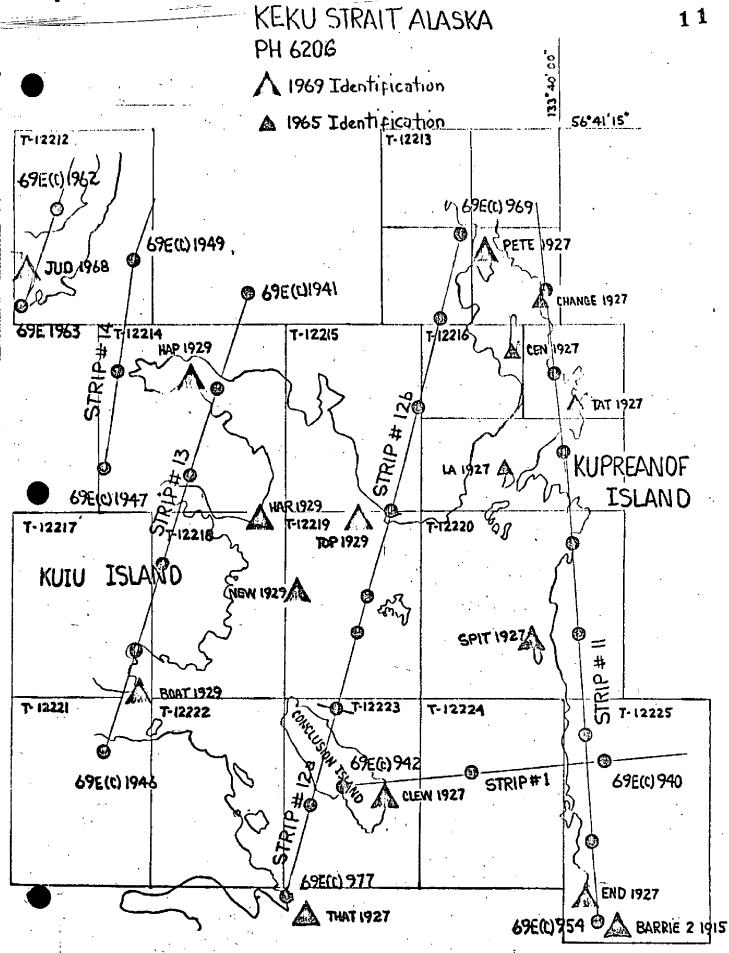
Henry P. Eichert

Chief, Aerotriangulation

Section

PH 6206 FEB 1970 1969 Identification ▲ 1965 Identification 65M277 56°52′30″ T-1220 T-12201 T-12202 KEKU STRAIT Paeuffa22 69E(C)967 69E(t) 1957 69E(C)1933 KADAK RMI 1964 AMY 1927 T-12203 12205 A GULL 1927 STRIP #16 69E(C) 1938 BETTE 1969 KUIU ISLAND 65M281 KUPREANOF T-12207 T-12208 T-12209 SLAND NOR 1927 A HAY 1927 NEAR 1927 A KUIU ISLAND **CAM 196** 1/12213 T-122/2 T-12211 AL 1927 A NEXT 1927 63E(C) 969 (3) PEIE 1927 66 PECC) 1949 69E(c) 961

KEKU STRAIT ALASKA



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

DESCRIPTIVE REPORT CONTROL RECORD

FORM C&GS-164 (4-88) USCOMM-DC 50318-P68

1:10,000

None

DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) 12 (1475.5)(1459.8) (967.4) (543.6) (359.5)(603.4) (121,7)(436.1)(561.4)(EZQ*I) N.A. 1927 - DATUM DATE 8/14/70 1249,5 1235.8 888.5 481.5 422,7 380,4 903.8 589.6 396,1 665.9 FORWARD SCALE FACTOR LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE 1330471 28,192" 24, 713" 133⁰49¹ 52,880° 1330451 34,492" 1330471 38,960" CHECKED BY Charles Blood 56 321 12.298" 56⁰33; 28,724" 56031 39,954" 560321 12.807" 56⁰30¹ 41,851" 1330451 SCALE OF MAP N.A. 1927 DATUM E ¥ = £ 8/14/70 $^{\circ}$ N PH-6206 SOURCE OF INFORMATION $^{\circ}$ ςV S Vol. 367 G.P. Vol. Page 368 (XECK) G.P. Vol. Page 535 Vol. 368 Vol. 368 G.P. Page Page G.P. Page G.P. DATE PROJECT NO. P. Margiotta SMALL, 1927 PORT, 1927 OFF, 1927 TOP, 1929 NEW, 1927 STATION 12219 г. 14 COMPUTED BY MAP T-

COMPILATION REPORT

T-12219

31. DELINEATION

Delineation was by the B-8 plotter. There was no field inspection prior to compilation. Photographic coverage was adequate. Ratios from 69E color photographs were lacking in quality. Ratios from 61W panchromatic photographs were used to delineate ledge, foul and lower low water line. 61W ratio photographs were poor in scale.

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 MHW Line was delineated with the Wild B-8 plotter. The MILWL and ledge was delineated from office interpretation of 61 W photographs.

36. OFFSHORE DETAILS

Small islands, ledge, rocks, and foul areas were delineated from 69E and 61W photographs. Areas that were in question were applied to field edit ozalid.

37. LANDMARKS AND AIDS

38. CONTROL FOR FUTURE SURVEYS

No statement.

39. JUNCTIONS

Junctions were made with T-12215 to the north, T-12223 to the south, T-12218 to the west and T-12220 to the east.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with USGS Quadrangle, PETERSBURG (C-6) ALASKA, dated 1948 with minor revisions in 1963, scale 1:63,360.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Charts 8272 (Keku Strait), dated October 17, 1966, 3rd Edition, scale 1:20,000 and 8201, dated November 15, 1969 15th Edition. (corrected through Notice to Mariners 46/69, scale 1:217,828)

TTEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

Frank P. Margiotta Cartographic Aid Sept. 1, 1970 Approved for forwarding:

Melvin J. Umbach, CDR, NOAA Chief, Coastal Mapping Division, AMC

Approved:

Alfred C. Holmes RADM, NOAA

Director, Atlantic Marine Center

August 28, 1972

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-6206

T-12219

Conclusion Island
Keku Strait
Kuiu Island
Monte Carlo Island
Threemile Arm

Approved by:

A. Woseph Wraight Chief Geographer Prepared by:

Cartographic Technician

	FORM CAGS-1002			· ·	S. DEPARTMENT OF COMMERCE ESSA
	(3-00)	РНО	TOGRAMMET	RIC OFFICE REVIEW	COAST AND GEODETIC SURVEY
				2219	
ì				•	
1	1. PROJECTION AND GRIDS	2 TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
	RJP	RJF		R J P	R J P
	CONTROL STATIONS	<u></u>			
	5. HORIZONTAL CONTROL STA	TIONS OF	6. RECOVERAB	LE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS
	RJP	CCORRCT	(Topographic	etatione) XX	XX
		I & a : a = a :			
	8, BENCH MARKS	9. PLOTTING C	OF SEXTANT	10. PHOTOGRAMMETRIC	11. DETAIL POINTS
	хх	хх		R J P	R J P
	ALONGSHORE AREAS (Nautical	Chart Data)			
	12. SHORELINE	13. LOW-WATER	LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
	B-8			RJP	xx
	16. AIDS TO NAVIGATION	17. LANDMARK	\$	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
	Xχ	XX		RJP	XX
	PHYSICAL FEATURES	<u> </u>		<u> </u>	
	20. WATER FEATURES		21. NATURAL C	ROUND COVER	22. PLANETABLE CONTOURS
	RJP		<u> </u>	XX	ХХ
	23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
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	CULTURAL FEATURES	<u> </u>			
	CULTURAL FEATURES 27. ROADS XX	28. BUILDINGS		29. RAILROADS XX	30. OTHER CULTURAL FEATURES
	27. ROADS			29. RAILROADS	30. OTHER CULTURAL FEATURES
	27. ROADS XX BOUNDARIES			29. RAILROADS XX	30. OTHER CULTURAL FEATYNES
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FIELD EDIT REPORT

SOUTH KEKU STRAIT

SOUTHEAST ALASKA

CPR - 448

APRIL 1971

INTRODUCTION

Field edit reports are attached for the following T-sheets:

T-12214	Mouth of Three Mile Arm
T-12215	Head of Three Mile Arm
T-12217	Keku Strait - No Name Bay
T-12218	Seclusion Harbor
T-12219	Monte Carlo Island
T-12221	No Name Bay
T-12222	Alvin Bay
T-12223	West End of Conclusion Island

Inspection for field edit of the shoreline, the foreshore and the offshore areas were performed in April and May 1971 by the NOAA Ship DAVIDSON's personnel with the assistance of Mr. Lowell O. Neterer Jr. from the photogrammetry branch of the Atlantic Marine Center in Norfolk.

Notes have been made on the field photographs and have been cross referenced on the field edit ozalids by photograph number. All times are on the 105° W Meridian. Reports for each individual sheet is enclosed.

Respectfully submitted,

Fidel T. Smith

LCDR. NOAA

FIELD EDIT REPORT MAP T-12219 KEKU STRAIT SOUTHEAST ALASKA

OCTOBER 1970 & APRIL 1971

The field edit of map T-12219 was done by LCdr. Fidel T. Smith, October 1970 and Ltjg. Howard W. Herz with the assistance of Lowell O. Neterer Jr., April 1971. Inspection was done on foot and with a small boat.

METHOD

The field photographs along with a copy of the field edit ozalid were used in physically inspecting the entire shoreline of the map. The areas in question were very carefully inspected and the rest of the compilation closely inspected visually and corrections have been noted on the field edit ozalid and the photographs. The low water 61-W photographs were very useful and were used continually in all inspection of the compilation.

In the Monte Carlo Island area the foul limits were changed and many rocks were deleted since they are not significant dangers to navigation. The guidelines of the Topographic Manual Part II, p.347, first paragraph were followed. Isolated rock, high points of ledge, and ledge limits agreed well with the Boat Sheets DA-10-6-70 and DA-10-2-71. Copies of the boat sheets will be forwarded to AMC when available. Notes have been made on the Field Edit Ozalid and cross-referenced to the proper photograph involved. All times are on 1050 W meridian. Notes are on the following photographs:

61-W-9518 61-W-9520

ADEQUACY OF COMPILATION

Compilation of the map is good. Hydrographic location of detail compares well with the photogrammetric location. Field edit of this map is complete.

RECOMMENDATIONS

It is recommended that this map be revised in accordance with the notes on the Field Edit Ozalid, photographs and the Boat Sheets and the map be accepted as an advance manuscript.

Respectfully submitted,

Fidel T. Smith

LCdr. NOAA

Howard W. Herz

Ltjg. NOAA

Lowell O. Neterer Jr.

Photogrammetrist

APPROVAL SHEAT

Field Edit

South Keku Strait

Southeast Alaska

OPR - 448

April 1971

The field work on this edit was accomplished under my supervision.

CDR. NOAA

Commanding Officer NCAA Ship DAVIDSON

REVIEW REPORT T-12219

SHORELINE

April 4, 1973

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. 4330, scale 1:20,000, dated September 1 - October 15, 1927. Significant differences between this survey and T-12219 are shown in blue on the comparison print. Survey No. 4330 is superseded by T-12219 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with U.S.G.S. Quadrangle PETERSBURG (C-6), ALASKA, scale 1:63,360, dated 1948. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with copies of boat sheets for the following hydrographic surveys:

Survey	<u>Scale</u>	<u>Year</u>	<u>Area</u>
H-9160 H-9213	1:10,000 1:10,000	1970 1971	East of Long. 133° 46' West of Long. 133° 46' & north of Lat. 56° 32.6'
H-9214	1:10,000	1971	West of Long. 133° 46' & south of 56° 32.6'

It is evident that many rocks and ledges on the hydrographic surveys were taken from the Incomplete Manuscript for T-12219. Several rocks were deleted by field edit and others were deleted when field edit was applied to T-12219. Also some ledge and reef limits were changed when field edit was applied.

Significant differences between these surveys and T-12219 were shown in purple on the comparison print.

65. COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with Chart 8201, scale 1:217,828, 16th Edition, dated November 7, 1970, of the area not covered by Chart 8272. No significant differences were noted; the chart scale was too small for adequate comparison.

A comparison of the area east of Long. 133° 46.4' and north of Lat. 56°31' was made with Chart 8272, scale 1:20,000, 4th Edition, dated November 21, 1970. Significant differences between Chart 8272 and T-12219 were shown in red on the comparison print, except for shoreline. Shoreline difference was the same as for T-4330, and was shown in blue on the comparison print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with project instructions and the National Standards for Map accuracy.

Reviewed by:

Charles HBIShop

Charles H. Bishop . Cartographer

Approved for forwarding:

Melvin J. Umbach, CDR, NOAA Chief, Coastal Mapping Division, AMC

Approved:

Alfred C. Holmes, RADM, NOAA

Director, Atlantic Marine Center

Approved:

Chief, Photogrammetric Branch Chief, Coastal Mapping Division

N-12

133°50'00" 49'30" x=2.655.000 FT.
56°33'45" **Not visible on 61 W 9518
56°33'45" **Not visible on 61 W 9518
56°33'45" * Not visible on 61 W 9518
* Not visible on 61 W 9518
* Not visible on 61 W 9518
33'30"
33'30"
33′30″
y=1.725.000 FT.
y=1.725.000 FT.
y=1.725.000 FT.
y=1.725.000 FT.
y=1./25.000 FT.
COMPARISON PRINT
COMPARISON TIGHT
Purple = H-9213
33'00"
1330 50'00" 49'00"
1330 50'00"
y=1.720.000 FT. T-12219
1:10,000
32'30"

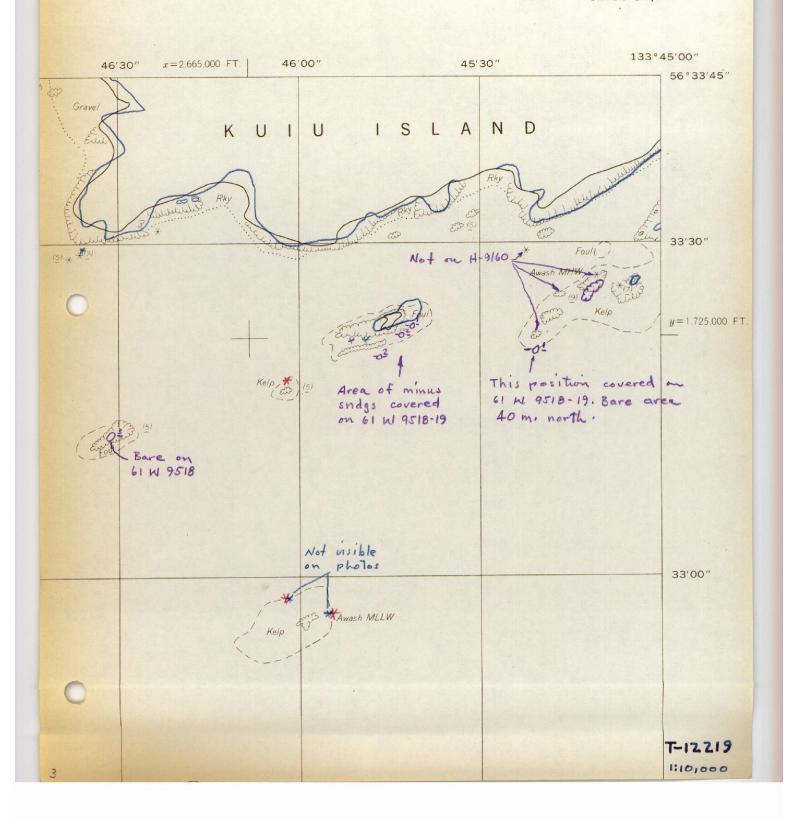
COMPARISON PRINT

Purple = H-9213 Blue = T-4330

13547'00" x = 2,660,000 FT. 47'30" 48'30" 48'00" Threemile Arm 20 Reef awas MHW This area covered on 61 W 9518 Not on Boatsheet Awash MHW Co TOP. 1929 61-W-6518 from Incomplete Mansc; deleted from class 1. 56° 33' 00" Kelp I * (3) Rks from Inc. Mansc. Awash MLLW Covers 4 ft MLLW \ + 2 RKS on H-9213 T-12219 1:10,000

COMPARISON PRINT

Purple = H-9213 Blue = T-4330 Red = Chart 8272



(330	50'00"	29'30''	26
			57 00
56° 32′00″	NEW. 1922	This ledge carred to H-9214 boat shee Incomplete Manus	
y=1.715.000 FT.		COMPARISON Purple = H-	
31′30″			
4			T-12219

