FORM **C&G5-504**

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

DESCRIPTIVE REPORT

Type of Survey SHORELINE (Photogrammetric)				
Field No. Office No.				
LOCALITY				
State ALASKA				
General locality KEKU STRAIT				
Locality HIGH ISLAND, WEST OF				
,				
19.61-70				
CHIEF OF PARTY Alfred C. Holmes Director, Atlantic Marine Center				
LIBRARY & ARCHIVES				

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR TO REGISTRATION

DESCRIPTIVE REPORT - DATA RECORD T - 12209					
PJECT NO. (II):					
PH-6206					
FIELD OFFICE (II):		CHIEF OF PARTY			
NONE					
PHOTOGRAMMETRIC OFFICE (III):	·	OFFICER-IN-CHAR	RGE		
ATLANTIC MARINE CENTER, NORFO	OTIK, VA.	ALFRED C. HOLMES. DIRECTOR			
INSTRUCTIONS DATED (II) (III):	<u> </u>		11021		
	ECEMBER 1 PRIL 14,				
FIELD INSTRUCTIONS FEOFFICE INSTRUCTIONS JA	EBRUARY 1 ANUARY 18	11, 19 6 9 8, 1965			
METHOD OF COMPILATION (III):					
WILD B-8 STEREOPLOTTER AND GR	RAPHIC				
MANUSCRIPT SCALE (III):	STEREOSCO	OPIC PLOTTING INSTRUMENT SCALE (III):			
1:10,000	1:20,00	000 PANTOGRAPHED TO 1:10,000			
E RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPO	ORTED TO NAUTICA	L CHART BRANCH (IV):		
APPLIED TO CHART NO.	DATE:		DATE REGISTERED (IV):		
GEOGRAPHIC DATUM (III):	<u> </u>	yertical datum Mean High W	M (HI): Vater		
N.A. 1927		ME美術な音楽を記している Elevations shown as (25) refer to mean high water			
			es (5) refer to sounding datum er or mean lower low water .		
REFERENCE STATION (III):	****	<u> </u>			
HAY, 1927					
LAT.: LONG.:		▼ ADJUSTED			
56°42'53.324"(1649.4m) 133°45'21.423"(36	54.4m)	UNADJUSTED			
PLANE COORDINATES (IV):		STATE	ZONE		
v=1,783,026.93 FT. x=2,667,706.33 FT	r.	ALASKA	1		
IAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTED					

USCOMM-DC 162768-P61

FORM C&GS-1816 U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY DESCRIPTIVE REPORT - DATA RECORD T-12209 FIELD INSPECTION BY (II): DATE: NONE MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): AIR PHOTO COMPILATION DATE OF PHOTOGRAPHY: AUGUST 5, 1969 PROJECTION AND GRIDS RULED BY (IV): April 10, 1970 J. Dempsey PROJECTION AND GRIDS CHECKED BY (IV): April 10, 1970 E. Homick CONTROL PLOTTED BY (III): April 10, 1970 CORADOMAT DATE CONTROL CHECKED BY (III): April 10, 1970 CORADOMAT RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): DATE February 19, 1970 Robert E. Fisher STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY May 19, 1970 L. O. Neterer, Jr. May 19, 1970 Reviewed: A. L. Shands CONTOURS NOT APPLICABLE MANUSCRIPT DELINEATED BY (III): DATE June 12, 1970 L. O. Neterer, Jr. SCRIBING BY (III) : Aug. 3; 1971 H. GANN PHOTOGRAMMETRIC OFFICE REVIEW BY (III): June 18, 1970 L. L. Graves REMARKS: FIELD EDIT BY LTCDR F. T. SMITH June-Oct. 1970

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

DESCRIPTIVE REPORT - DATA RECORD T-12209

MERA (KIND OR SOURCE) (III):

Wild RC-8 "E" and "W"

	, PHO	TOGRAPHS (III)				
NUMBER	DATE	TIME	SCALE	5	AGE OF TI	DE
•				a	bove ML	ĽŴ .
69 E(C) 963 and 96	4 5 Aug. 1969	12:02	1:40,000	5	.3 feet	
61 W 9424 and 9425	16 July 1961	09:02	1:20,000	1	.2 feet	
			(Duodi et ed)			
		TIDE (III)	(Predicted)	201		diurr
				RATIO OF RANGES	MEAN RANGE	SKRFOCOKO RANGE
RÉFERENCE STATION:	Ketchikan, Alaska				13.0	15.4
SUBORDINATE STATION:	The Summit, Keku S	trait			13.2	15.7

Atlantic Marine Center

MEXALEXAMENTAL REVIEW BY (IV):

C. H. Bishop

DATE:

March 1973

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):

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

RECOVERED:

IDENTIFIED:

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

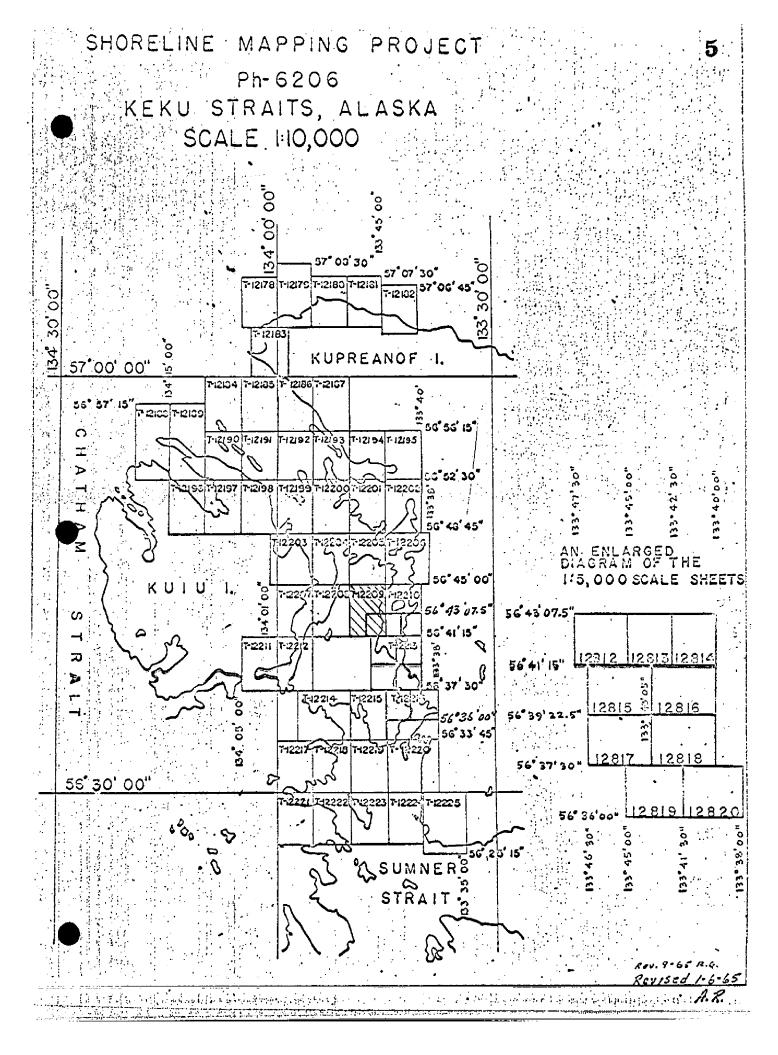
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

SUBORDINATE STATION:

T-12209

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete Pending Field Edit	J une, 1970	Superseded
Field Edit Applied	J u ly, 1971	Superseded
Final Review	March 1973	
	,	



SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12209

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-12209 in the project.

There was no field work prior to compilation, except the identification of horizontal control for aerotriangulation.

Only the area north of 56°43'07.5" was compiled on T-12209. The area south of that latitude was compiled at 1:5,000 scale on T-12812. Compilation was by Wild B-8 Plotter and graphic methods, using panchromatic photographs taken in 1961 and color photographs taken in 1969. 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. 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 March 1973.

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.

PH-6206

T-12209

FIELD INSPECTION REPORT

There was no field inspection prior to compilation.

AEROTRIANGULATION REPORT Keku Straits, Alaska Job PH-6206

21. Area Covered

This report pertains to that portion of Keku Straits between 56° 33' 45" and 56° 45' 00".

22. Method

Two strips of photography were bridged using stereoplanigraph and emulsion-drilled diapositives. Measurements made by the stereoscopic instruments were adjusted using 1620 IBM programs.

23. Adequacy of Control

Number and location of field-identified horizontal control stations were adequate to control the bridges with sufficient accuracy to comply with National Standards of Map Accuracy. Station LO 1927 did not hold in the adjustment but closer investigation revealed that an apparent transposition of distances to the substitute stations had occurred. After recomputing the positions all control held satisfactorily.

24. Supplemental Data

U.S.G.S. quadrangles, Petersburg (C-5 and C-6), Alaska, scale 1:63,360, 1948 edition, were used to determine elevations to provide vertical control where required.

25. Photography

Photography was adequate for coverage definition and endlap.

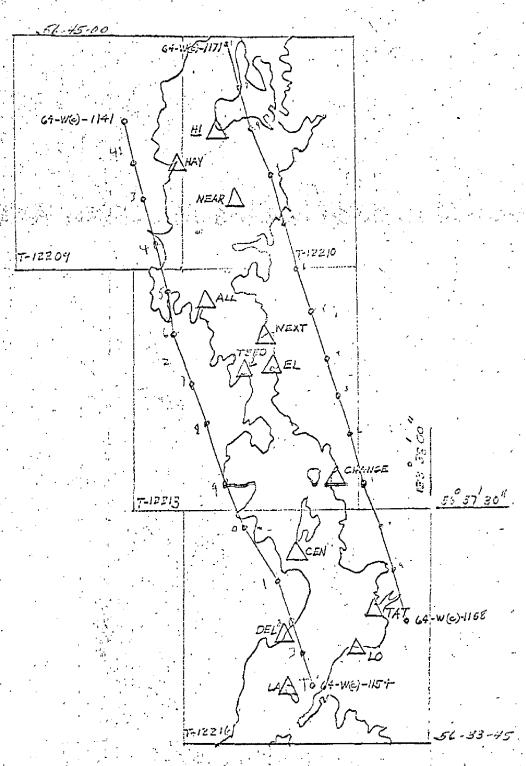
Respectfully submitted: .

W. Heinbaugh

Approved by:

John D. Perrow J.

KEKU STRAITS, ALASKA PH - 6206



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

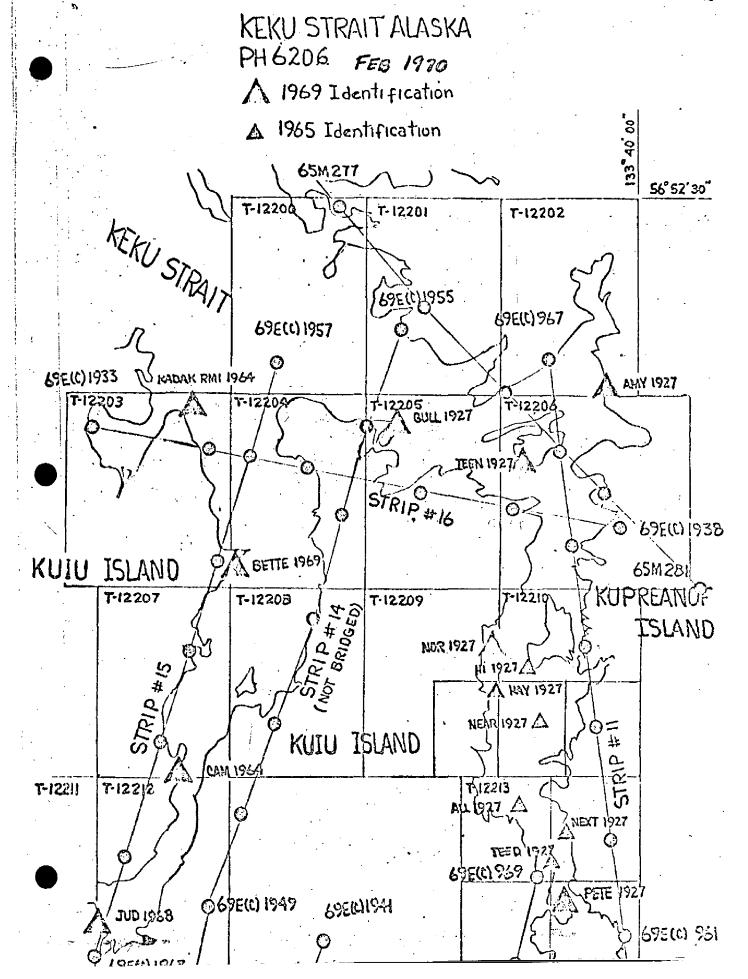
U. S. Geological Survey quadrangles were used to provide elevations for vertical adjustment of the bridges.

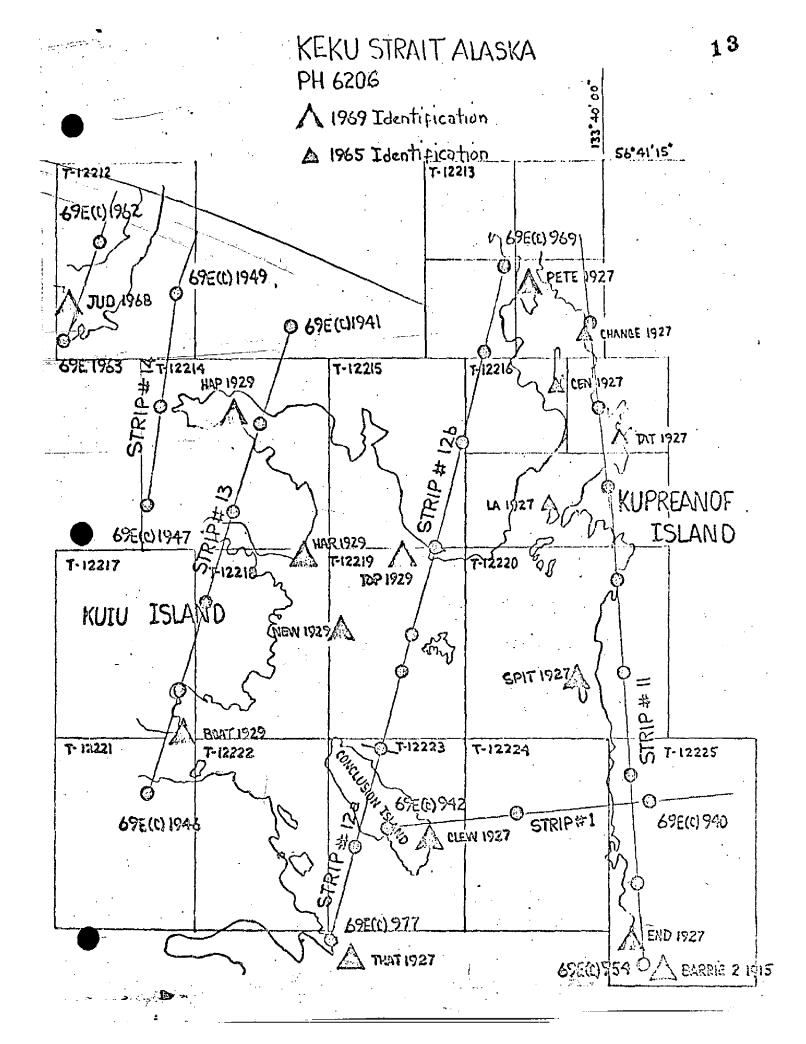
25. Photography

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

Robert E. Fisher
Cartographer (Photo)

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Approved and forwarded,	* *		p. mar. a. a.
Jem to Conha		F str wager a grant	a second
Henry P. Eichert	i. Visin n	consider to a \$500,000	
Chief, Aerotriangulation			
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U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEOTIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

FORM **C&GS-164** (4-68) USCOMM-DC 50318-P68

DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) 14 (401.4) (206.5)(656.2) (548.7)N.A. 1927 - DATUM SCALE FACTOR None 6-12-70 364.4 471.4 1649.4 1454.5 FORWARD DATE LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE L. O. Neterer, Jr. SCALE OF MAP 1:10,000 53,324" 21,423" 47.021" 27,720" 421 431 1330 451 45 CHECKED BY 1330 260 260 1927 NA 1927 DATUM NA 11-29-67 SOURCE OF Ø $^{\circ}$ PH-6206 G.P. Vol. PG. 359 G.P. Vol. PG 359 (INDEX) DATE PROJECT NO. STATION B. L. Barge MAP T. 12209 NOR, 1927 HAY, 1927 COMPUTED BY

COMPILATION REPORT

T-12209

31. DELINEATION

There was no field inspection preceding compilation. Details were office interpreted and delineated by Wild B-8 plotter.

No compilation was done south of Lat. 56°43'07.5"; this area was mapped on Contemporary Survey T-12812 at 1:5,000 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 from office interpretation of photographs taken August 5, 1969.

Photographs of July 16, 1961, taken at 1.2 ft. stage of tide was used to delineate the MLLW line.

36. OFFSHORE DETAIL

Offshore detail was compiled from office interpretation of the photographs.

37. LANDMARKS AND AIDS

Copies of Form 76-40 have been forwarded to the appropriate divisions.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Satisfactory junctions have been made with T-12205 to the North, T-12210 and T-12813 1:5,000 scale to the East, T-12815 1:5,000 scale to the south and T-12208 to the west.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with U.S.G.S. Quadrangle PETERSBURG (C-6) ALASKA, Scale 1:63,360, dated 1948 with minor revisions in 1963.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with Chart 8201, scale 1:217,828 llth Ed. dated Mar. 4, 1963 Revised July 20, 1964 and chart 8272 scale 1:20,000 3rd Ed. dated Oct. 17, 1966.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted:

Lowell O. Neterer', Jr. Cartographic Technician

June 12, 1970

Approved for forwarding:

Melvin J. Umbach, CDR, NOAA Chief, Photogrammetry Division Atlantic Marine Center

Approved:

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

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6206 (Keku Strait, Alaska)

T-12209

Keku Strait
Kuiu Island
Rocky Pass

Approved by:

A. Joseph Wraight Chief Geographer Prepared by:

Frank W. Pickett Cartographic Technician

6, K. 4-4-72

T-12209

49. NOTES FOR THE HYDROGRAPHER

None

FORM C&G\$-1002			'	J.S. DEPARTMENT OF COMMERCE
(9-00)	PHO	TOGRAMMET	RIC OFFICE REVIEW	COAST AND GEODETIC SURVEY
			12209	
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
	,,			
LLG	1,1	NG.	LLG	LLG
CONTROL STATIONS				
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF	6. RECOVERA	BLE HORIZONTAL STATIONS IAN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS
LLG		(Topographi	c stations) XX	XX
8. BENCH MARKS	9. PLOTTING	F SEXTANT	10. PHOTOGRAMMETRIC	11. DETAIL POINTS
	11023		T COT INCION	
XX	XX	<u> </u>	<u> </u>	LLG
ALONGSHORE AREAS (Nautica		21115	I 14 DOORS SUDALS FES	115 000000
12. SHORELINE	13. LOW-WATER	KLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
LLG	LI	.G	LLG	XX
16. AIDS TO NAVIGATION	17. LANDMARK	(S	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
		_		1
XX	1 XX	<u>, </u>	LLG	<u> </u>
PHYSICAL FEATURES 20. WATER FEATURES		121. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS
				ZZI I ZAWZI NOZE COM TOURS
LLG			XX	XX
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOUR	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
	l <u>.</u> ,	* . 11.	V.V.	110
Inapplicable CULTURAL FEATURES	I Inappl	<u>icable</u>	XX	LLG
27. ROADS	28. BUILDING	;	29. RAILROADS	30. OTHER CULTURAL
	i			FEATURES
ХХ	XX	<u>.</u>	ХХ	XX
BOUNDARIES 31. BOUNDARY LINES			132, PUBLIC LAND LINES	
Inapplicable			Inapplicabl	Δ
MISCELLANEOUS	·		1 парратось	
33. GEOGRAPHIC NAMES		34. JUNCTION	5	35. LEGISILITY OF THE
LLG	137. DESCRIPT	VE REPORT	LLG	LLG 39. FORMS
			PHOTOGRAPHS	
LLG	LI	.G	XX	LLG
O. REVIEWER			SUPERVISOR, REVIEW SECTI	ON OR UNIT
L. L. Graves	J une 19,	1970	İ	
I DEMARKS (A	- 41		1	······································
II. REMARKS (See attached she FIELD COMPLETION ADDITION		TIONS TO THE A	MANUSCRIPT	
12. Additions and corrections	s furnished by th	e field complet		to the manuscript. The manu-
script is now complete ex	cept as noted un	der item 43.		
COMPILER	T T	00 3033	SUPERVISOR 	
L. O. Netere	r, Jr. Jul	y 20,19/1	· [
3. REMARKS			· I	
Rield edit er	nnlied from	. Field E	dit Ozalid and Photo	61 w 9426.
rioin oute a	Prior 110m		att operte wire builded	

FIELD EDIT REPORT Keku Strait Southeast Alaska OPR-448

June - October 1970

INTRODUCTION

Field edit reports are attached for the following maps:

T-12205 T-12206 T-12209 T-12210 T-12216 T-12220 T-12224	(TP-00205) (TP-00206) (TP-00209)	-93
T-12225		

Field photographs and copies of the field edit ozalids were taken into the field. The mean high water line was verified by visual inspection of the shoreline and ozalids in the field. Isolated rocks, high points of ledges, ledge limits, and some shoreline were located by three-point fixes with check angles. Fixes were plotted on boat sheets:

> DA-10-4-70 DA-10-5-70 DA-10-6-70 DA-10-7-70

and then transferred to the T-sheets and ozalids for comparison.

Notes have been made in red on the field photographs and have been cross referenced on the Field Edit Ozalids by photograph number. All times are based on 105° West meridian. Individual reports by manuscripts are attached.

TIDE NOTES

The following tide stations were used for hydrography in the Keku Strait area:

Pup Island High Island Eagle Island Monte Carlo Island

Manuscripts T-12201 and T-12202 were inspected. Since no field edit was requested by the compilers the inspection was to check the manuscript in general. The manuscripts agreed quite well with the field inspection.

FIELD EDIT REPORT
MAP-T-12209
Southeast Alaska
North Keku Straits

The investigation was performed by LCdr. F.T. Smith from a small boat.

METHOD

The field edit ozalid and a field photograph were taken into the field and the items in question were visited. All inspections were by visual means. Information on items in question is given on the ozalid and cross referenced to photo 61W9426.

ADEQUACY OF COMPILATION

The map compilation appears to be adequate.

RECOMMENDATIONS

It is recommended that the manuscript be corrected according to the nôtes on the ozalid and photograph and be accepted as an advance manuscript.

Respectfully submitted,

F.T. Smith LCdr. NOAA

APPROVAL SHEET FOR FIELD EDIT

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

> T-12205.....TP-00205 T-12206.....TP-00206 T-12209.....TP-00207 T-12216 T-12220 T-12224 T-12225

Inspection of the work was made.

Ray E. Moses CDR. NOAA

Commanding Officer NOAA Ship DAVIDSON

REVIEW REPORT T-12209

SHORELINE

March 2, 1973

61. GENERAL STATEMENT

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A comparison was made with a copy of Survey No. 4341, 1:10,000 scale, dated September-October 1927. Significant differences between this survey and T-12209 are shown on the comparison print in blue. Survey No. 4341 is now obsolete for nautical chart construction purposes and the compared area is now superseded by T-12209.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

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

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with a copy of the boat sheet for Survey H-9159, scale 1:10,000, dated 1970. Differences between this survey and T-12209 are shown in purple on the comparison print.

The reef at Lat. 56°43'05"-30", Long. 133°45'05"-30" was minimized on H-9159. This feature was compiled on T-12209 as it was inspected by the field editor on Photo 61 W 9426.

The small peninsula 200 meters southwest of Station NOR is mapped on T-12209 as it was inspected by the field editor.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 8272, scale 1:20,000, 4th Edition, dated November 21, 1970. Shoreline differences between this chart and T-12209 were found to be approximately the same as shoreline differences between T-4341 and T-12209. These differences are 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 Aecuracy.

Reviewed by:

Charles H.Bishop

Charles H. Bishop Cartographer

Approved for forwarding:

Welvin J. Ombach, 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

