

12819

FORM C&GS-504

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

DESCRIPTIVE REPORT

Type o	of Survey	Shoreline	(Photogrammetric
Eiold N	Jo	044	м. Т-12819

LOCALITY

General locality Keku **Straat**

StateAlaska

Locality South Of Eagle Island

19.61-1969

CHIEF OF PARTY

Alfred C. Holmes, Director, AMC

LIBRARY & ARCHIVES

DATE

USCOMM-DC 37022-P66





MAP NOT INSPECTED IN QUALITY CONTROL PRIOR TO REGISTRATION





PH-6206 FIELD OFFICE (II): None	r-12819	 		
None				
None				
		CHIEF OF PARTY		
Supragramation of the first				
PHOTOGRAMMETRIC OFFICE (III):	<u>.</u>	OF FICER-IN-CHARGE		
Atlantic Marine Center, Norfolk, VA		Alfred C. Holmes, Director, AMC		
INSTRUCTIONS DATED (II) (III):			<u> </u>	
	PLEMENT I	January 18, 1965 II Decmeber 19, 1967 V April 14, 1970 February 11, 1969		
METHOD OF COMPILATION (III):	··	· · · · · · · · · · · · · · · · · · ·		
Wild B-8 and Graphic				
MANUSCRIPT SCALE (III):	STEREOSCO	PIC PLOTTING INSTRUMENT SCALE (III):		
1:5,000	1:7,500	Pantographed to 1:5	,000	
THE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPO	PATED TO NAUTICAL CHART BRAN	ICH (IV):	
APPLIED TO CHART NO.	DATE:	DATE REGIST	ERED (IV):	
GEOGRAPHIC DATUM (III):		MEAN HIGH WATER EXCEPT AS F	OLLOWS: neen high water	
N.A. 1927	Elevations shown as (5) refer to so i.e., mean lower			
REFERENCE STATION (III):				
CEN 1927				
LAT.: 56°36'48,190"(1490.6m) 133°41'51.881"	(884.9m)	X ADJUSTED UNADJUSTED		
PLANE COORDINATES (IV):	······································	STATE	ZONE	
y=1,745,965.30 Ft. x= 2,679,383.10	Ft.	Alaska	ı	

DESCRIPTIVE REPORT - DATA RECORD

T-12819

1. V	# #50#3	
FIELD INSPECTION BY (II):		DATE:
None		
MEAN HIGH WATER LOCATION (III) (STATE DATE	AND METHOD OF LOCATION):	
Air Photo Compilation Date of Photography		
Date of Thotography		
PROJECTION AND GRIDS RULED BY (IV):		DATE
L. F. Van Scoy		Sept. 27, 1967
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. Glaser		Sept. 28, 1967
CONTROL PLOTTED BY (III):		DATE
L. O. Neterer		Nov. 14, 1967
CONTROL CHECKED BY (III):		DATE
B. L. Barge		Nov. 15, 1967
		NOV. 13, 1907
W		
RADIAL PLOT OR STEREOSCOPIC CONTROL EXT	ENSION BY (III):	DATE
W. Heinbaugh	(W.S.C.)	
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	B. L. Barge	April 12, 1968
	CONTOURS	DATE
	Inapplicable	
MANUSCRIPT DELINEATED BY (III):		DATE
B. L. Barge		May 31, 1968
SCRIBING BY (III):		DATE
F. P. Margiotta		Feb. 9, 1972
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
R. J. Pate		July 1968
REMARKS:		
		,
D		
*		

DESCRIPTIVE REPORT - DATA RECORD

T-12819



MERA (KIND OR SOURCE) (III):

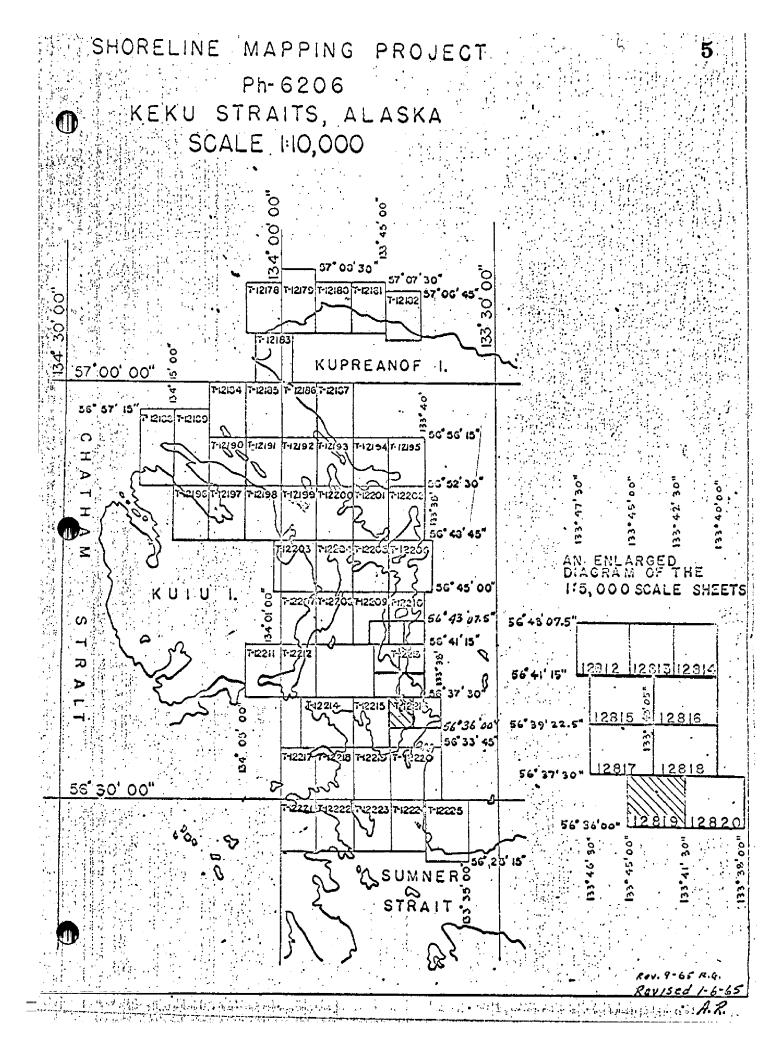
Wild RC-8 "W"

PHOTOGRAPHS (III)							
NUMBER	DATE	TIME	SCALE	STAGE OF TIDE			
64-W(c)-1150 thru 1152	16 J une 1964	10:44	1:15,000	4.0 Ft. above MLIW			
61 W 9543 and 9544	16 July 1961	10:36	1:20,000	0.4 Ft. below MLLW			

Predic	ted IDE (III)			· · · -	<u>Diurna</u>
			RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Ketchikan, Alaska		13.0	15.4		
SUBORDINATE STATION: Beck Island, Keku Str		11.5	13.8		
SUBORDINATE STATION:					
WASHINGTON OFFICE REVIEW BY (IV):	DATE:				
PROOF EDIT BY (IV):	DATE:				
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II)	IDENTIFIE	D:	****		
NUMBER OF BM(S) SEARCHED FOR (II):	IDENTIFIE				
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED	p (III):	None			
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABL	ISHED (III):	None			

T-12819

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete Pending Field Edit	May 31, 1968	Superseded
Field Edit Applied	Feb. 24, 1970	Superseded
Final Review	Feb. 1973	
	,	·
·		



SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12819

This 1:5,000 scale shoreline manuscript is one of 53 maps that comprise Project PH-6206, Keku Strait, Alaska. The project diagram indicates the location of T-12819 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 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 1969. 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 February, 1973.

The compilation manuscript was a vinylite sheet 1 minute 30 seconds in latitude by 3 minutes 30 seconds 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-12819

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

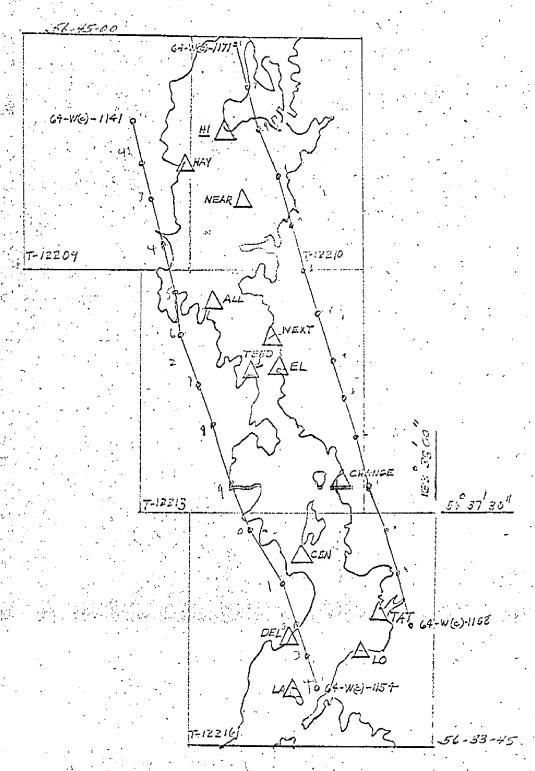
Photography was adequate for coverage definition and endlap.

Respectfully submitted: ,

W. Heinbaugh

Approved by:

KEKU STRAITS, ALASKA PH - 6206



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



DESCRIPTIVE REPORT CONTROL RECORD

10 N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS ($I\ Ft.=3048006\ meters$) (365.3) (138.5)(670.3)(742.2)SCALE FACTOR None **DATE** 4/26/67 FORWARD 1490.6 1185.6 884.9 281,3 LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE снескер ву A. L. Shands 1:5,000 1330 41' 51.881" 1330 421 16.49" 36 48,190" 560 361 38.3311 SCALE OF MAP_ DATUM N.A. 1927 = DATE 11/29/67 SOURCE OF INFORMATION PH-6206 Ø (INDEX) 3.P. Vol. **=** P. 366 PROJECT NO. B. L. Barge STATION MAP T- 12819 CEN, 1927 WES, 1927 COMPUTED BY

COMPILATION REPORT

T-12819

31. DELINEATION

The Wild B-8 was used. The compilation models consisted of two parallel flights of 1964 color photography with no side-lap. Details in the resulting hiatus were compiled graphically, using 1961 panchromatic photography.

32. CONTROL

See "AFROTRIANGULATION REPORT" by W. Heinbaugh. (not dated)

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 line was delineated from the color photography. The approximate mean lower low water line was located with the aid of the 1961 panchromatic photography, as were kelp areas. These photographs were taken at a predicted tide of 0.4 feet below mean lower low water.

36. OFFSHORE DETAILS

Offshore details were compiled in the same manner as the shoreline and alongshore details.

37. LANDMARKS AND ALDS

None

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Satisfactory junctions have been made with sheet T-12817 to the northwest; T-12818 to the northeast, and T-12820 to the east. There are no contemporary 1:5,000 scale sheets to the west or south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with USGS Quadrangle PETERSBURG, (C-6), scale 1:63,360, dated 1948.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 8272, KEKU STRAIT, scale 1:20,000, 2nd Edition dated November 14, 1960, revised March 18, 1963.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by: · Charles History

B. L. Barge Cartographic Technician 5-31-68

Approved_for forwarding:

pivin Jach, CDR, NOAA

Chief, Coastal Mapping Division, AMC

Approved:

Alf ed C. Holmes, RADM, NOAA Director, Atlantic Marine Center GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6206 (Keku Strait, Alaska)

T-12819

Eagle Island

Keku Strait

Kuiu Island

Rocky Pass

Approved by:

Chief Geographer A. Joseph Wraight

Prepared by:

Frank W. Pickett Cartographic Technician

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)				S. DEPARTMENT OF COMMERC ESS COAST AND GEODETIC SURVE	
	PHO		RIC OFFICE REVIEW .2819	The second secon	
1. PROJECTION AND GRIDS	2 TITLE	·	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE	
RJP	RJI	P	RJP	R J P	
CONTROL STATIONS	1,				
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ACCURACY	6. RECOVERAS OF LESS TH (Topographic	BLE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY (# ###################################	7. PHOTO HYDRO STATIONS	
RTP 8. BENCH MARKS	9, PLOTTING	OF SEXTANT	XX	11. DETAIL POINTS	
XX	FIXES		PLOT REPORT	RJP	
ALONGSHORE AREAS (Nautica	- Ct - t Data		1		
12. SHORELINE	13. LOW-WATE	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES	
RJP	RJI	P	RJP	l xx	
16. AIDS TO NAVIGATION	17. LANDMARK	KS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES	
χχ	l xx		XX XX	XX	
PHYSICAL FEATURES	<u> </u>				
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOUR	
R J P			ХX	XX	
23. STEREOSCOPIC 24. CONTOURS		S IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES	
XX	хх		XX	RIP	
CULTURAL FEATURES					
27. ROADS	28. BUILDING	\$	29. RAILROADS	30. OTHER CULTURAL FEATURES	
XX	XX		XX	XX	
BOUNDARIES 31. BOUNDARY LINES			32. PUBLIC LAND LINES		
MISCELL ANEOUS			ТХХ		
33. GEOGRAPHIC NAMES	<u> </u>	34. JUNCTION	8	35. LEGIBILITY OF THE	
RJP			RJP	RJP	
36. DISCREPANCY OVERLAY	37. DESCRIPT	IVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS	
			XX	R J P	
40. REVIEWER			SUPERVISOR, REVIEW SECTION OR UNIT		
R J P			1		
41. REMARKS (See attached sh	eet)				
FIELD COMPLETION ADDITION			·····		
 Additions and correction script is now complete e. 	is furnished by the acept as noted un	he field complet ider item 43.	ion survey have been applied	to the manuscript. The manu-	
COMPILER			SUPERVISOR		
Charles H. Bisho	p 2	2/24/70	Albert C. Rauck,	Jr.	
43. REMARKS	- 1 G I		Ozalid, film ozal		

FIELD EDIT REPORTS

1.

Keku Strait Southeast Alaska OPR-448

MAPS T-12812 T-12813 T-12814 T-12815 T-12816 T-12817 T-12818 T-12819 T-12820

June-August 1969

FIELD EDIT REPORTS

Keku Strait Southeast Alaska OPR-448

June-August 1969

INTRODUCTION

Field edit reports are attached for the following maps:

T-12812	,				T-12817
T-12813			•		T-12318
T-12814					T-12819
T-12815				٠	T-12820
T-12816		-			

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-5-2-69 DA-5-3-69 DA-5=4-69 DA-5-5-69

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

Notes have been made in violet 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.

Generally compilation of the maps is good. It is recommended that the maps be revised in accordance with the notes on the photographs and that the maps, with the exceptions of T-12813, T-12815, and T-12818, be accepted as advance manuscripts. Maps T-12813, T-12815, and T-12818 should be compiled using the recent photographs. It is recommended that the compiler obtain copies of the above boat sheets and use them in compiling the advance manuscripts.

Field inspection of these maps is complete except for map T-12820.

Copies of "Nonfloating Aids or Landmarks for Charts", form C&GS 567, are attached.

FIELD EDIT REPORT MAP T-12819

Keku Strait Southeast Alaska OPR-448

July-August 1969

Field edit of map T-12819 was done by LT Edward Gelb between 27 July and 11 August 1969. Inspection was done on foot and in a 12-foot whaler.

METHOD

Due to poor weather only copies of the "Field Edit Ozalid" could be taken into the field. Shoreline was verified by visual inspection of the shoreline and ozalid in the field. Isolated rocks, high points of ledges, and ledge limits were located by three-point fixes with check angles. Fixes were plotted on boat sheet DA-5-5-69 and then transferred to the T-sheet and ozalid for comparison.

All notes have been inked in violet on field photograph #64W1151.

ADEQUACY OF COMPILATION

Compilation of this map is good. Hydrographic location of isolated boulders compares well with the photogrammetric location of the same boulders.

Several islands near triangulation station CEN 1927 Should be joined for clarity.

Field inspection of this map is complete.

RECOMMENDATIONS

It is recommended that the map be revised in accordance with the notes on the photograph and that the map be accepted as an advance manuscript.

Respectfully submitted

Bruce W. Fisher LTJG USESSA

Brua W. Fisher

APPROVAL SHEET

for

FIELD EDIT Keku Strait Southeast Alaska OPR-448

June-August 1969

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

T-12812	. T - 12817
T-12813	T-12818
T-128I4	T-12819
T-12815	 T-12820
T-12816	V

Frequent inspections of the field edit work and of plotted comparisons on the boat sheets were made.

Ray E. Moses CDR, USESSA

Commanding Officer USC&GSS DAVIDSON

REVIEW REPORT T-12819

SHORELINE

February 5, 1973

61. GENERAL STATEMENT

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A comparison was made with Survey No. 4331, scale 1:10,000, dated August-September 1927. Significant differences between this survey and T-12819 were shown in blue on the comparison print.

Survey No. 4331 is now obsolete for Chart construction purposes. The compared area is superseded by T-12819.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A visual comparison was made with USGS 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 Survey H-9081, scale 1:5,000, dated July-August 1969.

Shoreline compared well, as T-12819 was the source for this feature. Differences between the hydrographer's determination and the compiler's photo interpretation of ledge limits on photos taken at -0.4 ft. predicted tide could not be resolved. The H-9081 limits could not be followed on the photographs.

The mean lower low water line on T-12819 was interpreted from low water photography (-0.4 ft) and was left on the map for whatever use it might be to the chart compiler.

Differences between T-12819 and H-9081 are shown in purple on the comparison print.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 8272, scale 1:20,000, dated 21 Nov. 1970. Shoreline differences between this chart and T-12819 are the same as shoreline differences between T-4331 and T-12819.

65. COMPARISON WITH NAUTICAL CHARTS (cont'd)

Therefore, the blue line on the comparison print indicates differences between T-12819 and both Chart 8272 and T-4331. Other differences between T-12819 and Chart 8272 are shown in red on the comparison print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with Job Instructions and meets the National Standards for Map Accuracy.

Reviewed by:

Charles H. Bishop

Charles H. Rishop Cartographer

Approved for forwarding:

lelvin J. Umbach, CDR, NOAA

Chief, Coastal Mapping Division, AMC

Approved:

1

Alfred C. Holmes

RADM, NOAA

Director, Atlantic Marine Center

Approved:

Chief, Photogrammetric Branch Chief, Coastal Mapping Division

