[2196]

FORM **C&GS-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. T-12196
LOCALITY
State Alaska
General locality Keku Strait
Locality Saginaw Bay
<u>1965-</u> 1968
CHIEF OF PARTY
Alfred C. Holmes, Director, AMC
LIBRARY & ARCHIVES

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR TO REGISTRATION

DESCRIPTIVE REPORT - DATA RECORD

		Т	- 12196			
CT NO. (II):	_	· · · · · ·			
	Job PH-6206					
ELD OFFICE (ΠΣ			CHIEF OF PARTY	,	
HOTOGRAMMET	RIC OFFICE (III): Atlantic Marine Center				lolmes, RADM, NOA	\A
ISTRUCTIONS D	Photogrammetric Branch			Director, A	MC	1
	January 18, 1965 November 26, 1965 March 18, 1966 June 8, 1966 May 11, 1965 June 14, 1965 January 21, 1965	OFFICE OFFICE	SUPPLEME AMENDMEN SUPPLEME	T I		
ETHOD OF COM	IPILATION (III):					
	Wild B-8		·			
ANUSCRIPT SC				OPIC PLOTTING INSTRUMENT SCALE (III):		
	1:10,000			,333 pantographed to 1:10,000		
ATE RECEIVED) IN WASHINGTON OFFICE (IV):		DATE REPO	ORTED TO NAUTICA	AL CHART BRANCH (IV)	:
APPLIED TO CH	ART NO.		DATE:		DATE REGISTERED (IV	۷): در
GEOGRAPHIC DATUM (III): N. A. 1927				Elevations shown Elevations shown	IM (III): MHW X EXCEPT AS FOLLOWS as (25) refer to mean high as (5) refer to sounding d COCCinean lower low wate	water atum
REFERENCE STA	ATION (III):					·
	BITE 1966 /					
. _{^1.} 5 6° 51'26.0)3800"(805.կm) 134 <mark>0</mark> 10 ։ կ	3.81418	"(742.5m)	ADJUSTED UNADJUSTED	1	•
LANE COORDIN	IATES (IV):			STATE	ZONE	
1 835 4	26.92 ft. ×= 2 583 14			Alaska	1	
WASHING	LS INDICATE WHETHER THE ITEM IS TO ITON OFFICE, I NAMES OF PERSONNEL ON THIS RECO					FICE.

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

DESCRIPTIVE REPORT - DATA RECORD

	DATE:
None	
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):	
Air photo compilation Date of photography: July 29, 1965	
PROJECTION AND GRIDS RULED BY (IV):	DATE
A. E. Roundtree	11-08-65
PROJECTION AND GRIDS CHECKED BY (IV):	DATE
R. S. Kornspan	11-08-65
CONTROL PLOTTED BY (III):	DATE
R. Smith	01-12-66
CONTROL CHECKED BY (III):	DATE
C. H. Bishop	01-12-66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):	DATE
G. M. Ball	Nov. 1965
Reviewed: K. G. Boyle Wild B-8	07-11-66 07-11-66
Inapplicable MANUSCRIPT DELINEATED BY (III): L. O. Neterer, Jr.	DATE 07-14-66
SCRIBING BY (III):	DATE
F. P. Margiotta	06-27-68
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): COMPILATION: C.H. Bishop FIELD EDIT: C. H. Bishop SCRIBING & STICKUP: R. J. Pate	07-21-66 06-01-68 06-28-68

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

DESCRIPTIVE REPORT - DATA RECORD

Wild	RC-9 "M"						
NIMOSE		TOGRAPHS (III)	CALE		ACE OF TH		
NUMBER 65-M-2ЦL & 2Ц5	7-29-65	0913	1:50,000	(from p	(from predicted table 3.1 below MLLW		
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		TIDE (III)	,		n-	TTIDBLA T	
						IURNAL	
				RATIO OF	MEAN RANGE	SENEXIXOX RANGE	
REFERENCE STATION:	Juneau				13.8	16.4	
BORDINATE STATION: Saginaw Bay, Kuiu Island					11.3	13.8	
SUBORDINATE STATION:			. <u>.</u> 11 120-200				
WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet, AMC				DATE:	NOV, 1971		
PROOF EDIT BY (IV):					///-		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): RECOVERED: /					D:/		
NUMBER OF BM(S) SEARCHED FOR (II):					D	. .	
NUMBER OF RECOVERABLE PHO	TO STATIONS ESTABLIS	HED (III):	<u> </u>				
NUMBER OF TEMPORARY PHOTO	HYDRO STATIONS ESTA	BLISHED (III):					
REMARKS:				<u></u>			

T-12196

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore are for hydro	July 1966	Superseded
Field edit applied Compilation complete	June 1968	Superseded
Final Review	Nov. 1971 & De	c 1972
Discrepancies with reviewed hydrosurveys resolved; addendum added to Review Report		

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12196

Shoreline survey T-12196 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 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 November 1971. One cronaflex positive and a negative of the final reviewed survey are forwarded for record and registry.

FIELD INSPECTION REPORT JOB PH-6206 T-12196

There was no field inspection prior to compilation.

Photogrammetric Plot Report Project 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

Analytic 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 (pre-marked 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 fourteen shoreline sheets to be compiled (T-12178, T-12179, T-12183 through T-12192, T-12196 and T-12197).

Control stations that were not used in our final adjustment follow: (1) CONN, 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-overief trees near the station obscured the target on one photograph.

24. Supplemental Data

Numerous U.S.G.S. quads were used to obtain elevations required for the final adjustment.

Photography

Photography was adequate with regard to coverage, overlap and image defination.

Respectfully submitted:

Approved and forwarded:

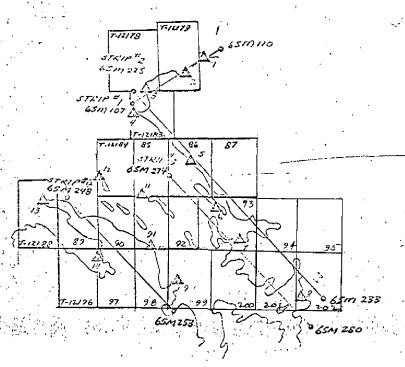
Menry P./Eichert Acting Chief, Aerotriangulation Section

CLOSURE TO CONTROL AND THE POINTS (feet)

STRIP #1		
BENDEL, 191	7	
(0.0 KELP, 1965 (-0.1	-0.1)	
LIMI, 1200	-0.1)	
(-0.1	-0.1)	
STRIP #2		
HENDEL, 191	7 0.0)	
CART, 1927	-	- A
(-2.0 KAKE, 1927	-0.6)	
(-1.4 AGE, 1927	÷0.1)	
(+1.3 AMY, 1927	÷0.6)	•
s.s. (-0.5	-0.4)	•
TIES TO STE	IIP 約	
08401 08402	(-0.2 (-0.9 (-0.9	+ 2.6} +10.1} + 9.6}
TIES TO STA		+ 9.07
27401	(+6.7	+ 6.2)
28401 29401	(+9.0	+ 9.11
29401	{+5.5	-0.7
59#03 59#05	(+8.2	+ 6.0) + 3.7) + 0.4)
33401 33402	(+3.2 (+5.0	+ 0.4 + 5.4
STRIP #3		. ;
KAKE, 1927		
KAKE, 1927 (+1.8 AL/FO, 1927 (-2.0	-2.1)	
(-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 0.0) (-0.1LUCK, 1927 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



KEKU STRAITS ALASKA PH - 6206

SHORELINE MARPING SCALE 1:10,000

SINGLE LENS PHOTO. SCALE 1:50,000

KEY TO TRIBINGULATION

1. PINT, 1965

2. KELP, 1965

3. GENDEL, 1917

5. KAKE 1927

6. HADD 1027

7. ASE, 1927

8. Amy 1927

9. LUCK, 1927

10. LOW, 1927

11. 14270, 1927

12. KEKU, 1927

13. CORN, 1925

14. GNAW 1965

FORM 164 (4-23-54)

U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT

PROJECT NO. PH-6206

MAP T. /2/96

PAST AND GEODETIC SURVEY

The second of th

SCALE OF MAP /:/0 000 SCALE FACTOR

FROM GALD OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS COMM- DC- 57843 (BACK) FORWARD DATE 6-31-65 (BACK) N.A. 1927 - DATUM FORWARD DATUM CHECKED BY: XXX DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS 573.1) 59.5) 274.3) (BACK) 805.4 (1050.6 ω 4 FORWARD (40.5 426.9 ń 742 LONGITUDE OR x-COORDINATE LATITUDE OR y-COORDINATE 26.03800 4.3,81418 6-24-62 140.54 426.92 9 5 835 583 5 34 DATE... 63 DATUM 1927 44 SOURCE OF INFORMATION (INDEX) 184 Read -9961 1 FT. - 3048006 METER COMPUTED BY. STATION ottip BITE

COMPILATION REPORT T-12196

31. DELINEATION:

The Wild B-8 was use. Photography was satisfactory.

32. CONTROL:

Difficulty was experienced in holding aerotriangulation points when the model involving stations BITE and CHEW was set. Several solutions were tried, none of which held all points in the model. A solution that would hold most of the six substitute stations for BITE and CHEW and the aerotriangulation points near the shoreline was used.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Inapplicable

35. SHORELINE AND ALONGSHORE DETAILS:

The shoreline was delineated by office interpretation. No Mean Lower Low water line was shown.

36. OFFSHORE DETAIL:

The offshore details are to be checked and verified by the hydrographic party.

37. LANDMARKS AND AIDS:

None

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

T-12189 junctions to the north and T-12197 junctions to the east and there aren't any contemporary surveys to the south or 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 PORT ALEXANDER (D-1), ALASKA, 1948.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with USC&GS Nautical Chart 8214, scale 1:40,000, dated July 1, 1909, revised Aug. 10, 1959.

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

ADDENDUM TO 32-CONTROL

The subsequent rebridging of this area resolved none of the initial horizontal control problems. An attempt to resolve the control deficiency resulted in several solutions, none of which would hold all drilled pass points and substitute stations within the models. The final result, holding most of the substitute points for BITE, CHEW, and MEADE, and the drilled pass points nearest the shoreline was used.

The southern portion of this map manuscript is not believed to be within the required accuracy standards.

December 8, 1971

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6206 (Alaska)

T-12196

Cool Lake

Kuiu Island

Saginaw Bay

Approved by:

A. Joseph Wraight Chief Geographer

Prepared by:

Frank W. Pickett Cartographic Technician

49. NOTES FOR THE HYDROGRAPHER

The southern portion of this sheet is "Preliminary". It is so marked in red on the field edit ozalid.

The shoreline on the south side of Saginaw Bay is believed to be in error. It is suggested that you locate hydrographic signal sites by the use of the processed cronapaque ratioed photographs only.

The Saginaw Bay area (south shore) is to be re-bridged by the Aerotriangulation section in the near future, after which these discrepancies will be resolved.

Refer to "ADDENDUM TO 32-CONTROL" concerning this area.

FORM C&GS-1002			U	I.S. DEPARTMENT OF COMMERCE		
PHOTOGRAMMETRIC OFFICE REVIEW						
T- 12196						
<u> </u>			12190			
1. PROJECTION AND GRIDS	2 TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE		
СНВ	СНВ		СНВ	CHB		
CONTROL STATIONS						
5. HORIZONTAL CONTROL STA	ATIONS OF	6. RECOVERAGE	BLE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS		
CHB		(Topographic	stations)) axx		
8. BENCH MARKS	9. PLOTTING	F SEXTANT	10. PHOTOGRAMMETRIC	11. DETAIL POINTS		
	FIXES		PLOT REPORT	14 5213121 51415		
XX	XX		Bridge W.O.	Wild B-8		
ALONGSHORE AREAS (Nautical 12, SHORELINE	Chart Data)	1 INF	14. ROCKS, SHOALS, ETC.	115 000000		
12. SHURELINE	13. LOW-WATER	CINE	14. ROCKS, SHORES, ETC.	15. BRIDGES		
CHB	XX		CHB	XX		
ID. AIDS TO HAVIGATION	IV. EARDMARK	.5	PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES		
XX	XX		СНВ	XX		
PHYSICAL FEATURES						
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS		
СНВ			СНВ	XX		
23, STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES		
XX	XX		XX	XX		
CULTURAL FEATURES			·			
27. ROADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL FEATURES		
СНВ	СНВ		XX	XX		
BOUNDARIES	-	_	<u> </u>			
31. BOUNDARY LINES			32. PUBLIC LAND LINES			
X	X			X X		
MISCELLANEOUS 33. GEOGRAPHIC NAMES		Las unexe		195		
33. GEOGRAPHIC NAMES		34. JUNCTION	\$	35. LEGIBILITY OF THE MANUSCRIPT		
СНВ	СНВ		CHB	СНВ		
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS		
XX	жх снв		XX	XX		
40. REVIEWER	•	SUPERVISOR, REVIEW SECTION	N OR UNIT			
Charles HBIShop	07-21	Albert . Rauck,	Jr. Hauck, Jr.			
41. REMARKS (See attached sheet)						
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT						
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.						
Charles K.B. ishop 06-04-68 SUPERVISOR albert C. Rauck J.						
C. H. Bishop 06-04-68 Supervisor Albert C. Rauck Jr. C. H. Bishop 06-04-68 Albert C. Rauck, Jr.						
43, REMARKS						
Field Appl	ied from:	Field Edit	COzalid and Field p	noto No. 65M-245		

T-12196

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-12196

SHORELINE

November 29, 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 a copy of survey No. 2152, 1:20,000 scale, made in September 1892. That survey is now obsolete and is superseded by T-12196 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with USGS PORT ALEXANDER (D-1), ALASKA, 1:63,360 scale quadrangle, edition of 1948 with minor revisions made in 1963. The two surveys are in good agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet H-8960 (PA 10-1-67). The shoreline for the boat sheet was evidently obtained from an incomplete manuscript. Some shoreline and ledge limits were corrected on the advance manuscript.

Rocks located by the hydrographer that are not visible on the photographs have been indicated on the comparison print in purple.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart 8214, 4th edition, dated December 16, 1968. The two surveys are in good general agreement.

Rocks shown on the chart that are not visible on the photographs have been noted on the comparison print in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey is considered adequate for photo-hydro support use and nautical chart construction. Please refer to item 32 of the Compilation Report.

Reviewed by:

Leo F. Beugnet Cartographer

Approved:

Melvin J. Ambach, 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 ben 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 ozalids 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

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Charles HBrokop

THE PROPERTY OF SECTION AND COMPANY OF SHAPE

Cartographer

January 1973

