

# T-12802-12803

## T-12802-12803

NOAA FORM 76-35

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

### DESCRIPTIVE REPORT

Type of Survey ..... Shoreline ..... T-12802  
Job No. PH-64174 ..... Map No. T-12803  
Classification No. Final ..... Edition No. ....1.....  
Field Edited

### LOCALITY

State ..... Alaska .....  
General Locality ..... Knight Island Passage  
..... (South Side) .....  
Locality ..... Sawmill Bay .....

19 64 TO 19 67

### REGISTRY IN ARCHIVES

DATE ..... 12 FEB 1976 .....

## DESCRIPTIVE REPORT - DATA RECORD

T - 12802

PROJECT NO. (II):

PH-6414

FIELD OFFICE (III):

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center

OFFICER-IN-CHARGE

J. Bull, ADM., USESSA

Director, Atlantic Marine Center

INSTRUCTIONS DATED (II) (III):

OFFICE COMPILATION - Shoreline Mapping, Sawmill Bay, Alaska, Project 21423(7)  
dated February 25, 1965.OFFICE - Shoreline Mapping, Sawmill Bay, Alaska, Job PH-6414 dated June  
6, 1966

METHOD OF COMPILATION (III):

Kelsh

MANUSCRIPT SCALE (III):

1:5,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:3000 pantographed to 1:5,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.:

DATE:

DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):

N. A. 1927

VERTICAL DATUM (III): MHW

~~MEAN SEA LEVEL~~ EXCEPT AS FOLLOWS:

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., mean low water or mean lower low water

REFERENCE STATION (III):

TEN 1927 ✓

LAT.:

60° 03' 31.931" (988.2m)

LONG.:

148° 02' 57.419" (888.4m)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

Y = 2,218,699.56 ft. ✓

X = 856,427.75 ft. ✓

STATE

Alaska ✓

ZONE

4 ✓

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

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

FORM C&GS-181b  
(3-66)U.S. DEPARTMENT OF COMMERCE  
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT - DATA RECORD

T-12802

FIELD INSPECTION BY (III):  None		DATE:
TIDE GAUGE HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Kelsh instrument, June 1966 Date of Photography 15 August 1964		
PROJECTION AND GRIDS RULED BY (IV):  A. E. Roundtree		DATE  1/13/65
PROJECTION AND GRIDS CHECKED BY (IV):  P. Hawkins		DATE  1/13/65
CONTROL PLOTTED BY (III):  C. H. Bishop		DATE  6/17/66
CONTROL CHECKED BY (III):  K. G. Boyle		DATE  6/17/66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):  P. Hawkins		DATE  1/13/65
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY  B. H. Barnes	DATE  June 1966
	CONTOURS  Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III):  B. H. Barnes		DATE  June 1966
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):  C. H. Bishop		DATE  July 1966
REMARKS:		

## DESCRIPTIVE REPORT - DATA RECORD

T-12802

CAMERA (KIND OR SOURCE) (III):

"S" Camera

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64-S-6218 thru 64-S-6222	15 Aug. 1964	1012	1:15,000	4.5 ft. above MLLW

TIDE (III) Predicted

Diurnal

	RATIO OF RANGES	MEAN RANGE	MEAN RANGE
REFERENCE STATION: Cordova, Alaska		10.0	12.4
SUBORDINATE STATION: Sawmill Bay, Evans Island		8.9	11.3
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

Leo F. Beugnot, Atlantic Marine Center

DATE:

March, 1967

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

RECOVERED:

4(65) 3(66)

IDENTIFIED:

4(65) 3(66)

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

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

36

REMARKS:



4

T-12802

COMPILATION RECORD

COMPLETION DATE

REMARKS

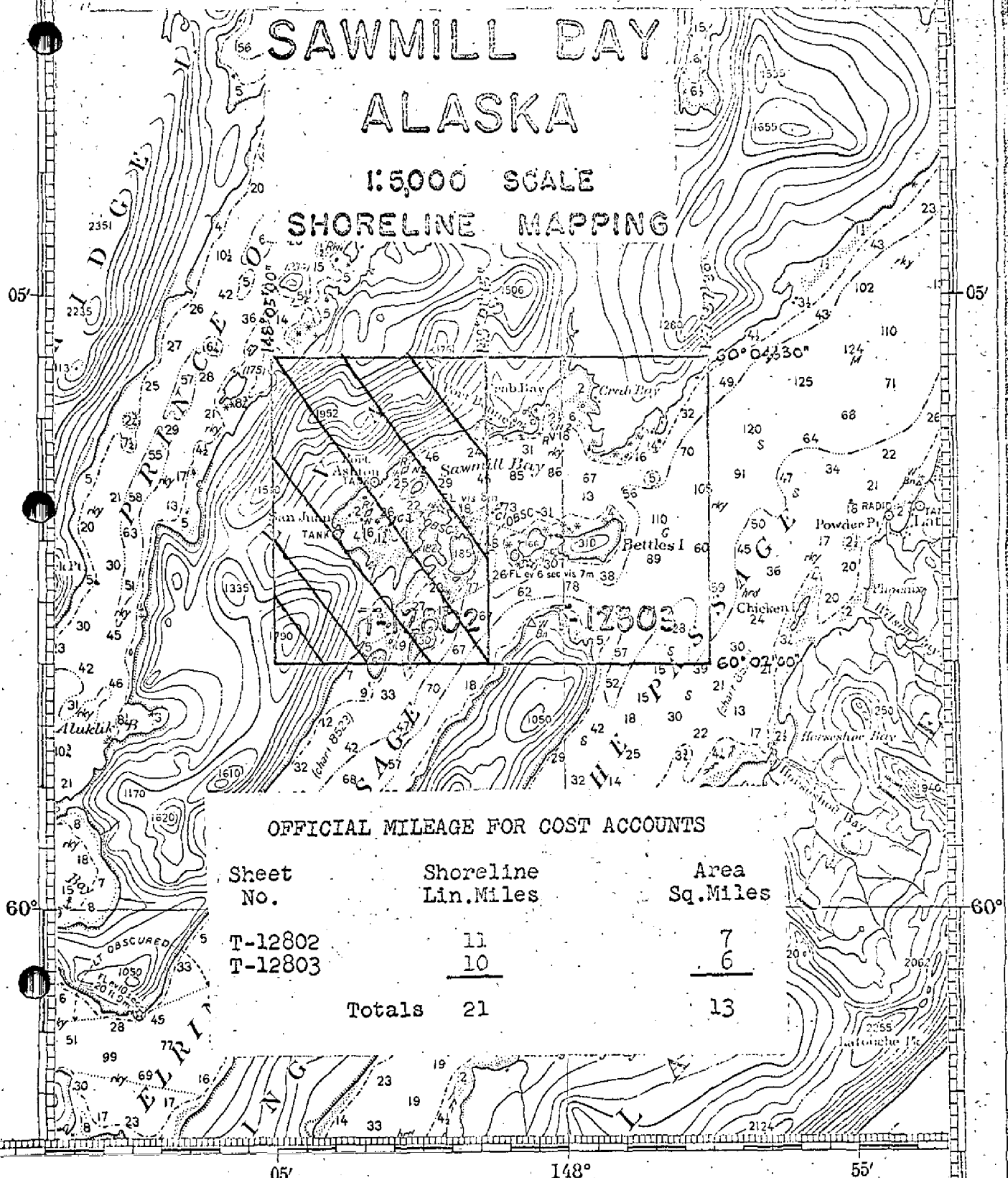
Alongshore area for hydro	June 1966	Superseded
Field edit applied	November 1966	
Manuscript complete	January 1967	
<i>Corrected during Final Review</i>	<i>March 1967</i>	

# JOB PH-6414

## SAWMILL BAY ALASKA

1:5,000 SCALE

### SHORELINE MAPPING



### OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Shoreline Lin.Miles	Area Sq.Miles
T-12802	11	7
T-12803	10	6
Totals	21	13



Summary  
Job PH-64124  
January 1976

This job is comprised of two shoreline maps, T-12802 and T-12803, 1:5,000 scale, covering the area of Sawmill Bay, Alaska.

Job completion requirements are outlined in memorandum instructions, dated December 4, 1975, which are included in the composite Descriptive Report for the maps and in the Job Completion Report.

After those instructions were issued, it was discovered that:

- \* (1) no records or data for the job were in the Norfolk Office Compilation Section - all information was apparently removed, by accident, and destroyed during a reorganization of the files;
- and (2) stable base matte film copies of the two map manuscripts, reviewed in 1967, were furnished to the hydrographic survey review activity, Rockville, in 1969.

These copies were used during job completion to process the map copies required for registration.

All job instructions and correspondence in the Rockville Office at the time of job completion are included in the Job Completion Report.

Horizontal control was premarked, 1:15,000 scale photography was used in stereoplanigraph bridging and Kelsh plotter compilation operations.

Date of Photography - August 1964  
Date of Field Edit - August 1966  
Date of Final Compilation - January 1967  
Date of Final Review - March 1967

The maps were reviewed by F. Beugnet, Norfolk Office. They were compared with contemporary hydrographic survey H-8913, scale 1:5,000, during job completion in January 1976. No discrepancies exist.

Job Completion:

*S.G. Blankenbaker*  
S.G. Blankenbaker

Approved:

*[Signature]*  
Chief, Photogrammetric Branch

*[Signature]*  
Chief, Coastal Mapping Division

\* All of this missing material was found in the Norfolk Office in May 1977 and forwarded to the Rockville Office for distribution. The data has now been bound with the registered original composite Descriptive Report for both maps.

All field data has been forwarded to the National Archives. A listing of this data is bound with this Descriptive Report

*E. L. Rolle*

May 31, 1977

Above note also added to the "JOB COMPLETION REPORT"





5c  
U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
NATIONAL OCEAN SURVEY  
Rockville, Md. 20852  
C3421

DEC 4 1975

TO: Chief, Photogrammetric Branch  
Chief, Surveys Planning Branch

FROM: *for* James Collins *Walter Shinn*  
Chief, Coastal Mapping Division

SUBJECT: Instructions-OFFICE-Job Completion, PH-6414, Knight  
Island Passage (south side), Latouche Island to Icy  
Bay, Alaska

Background

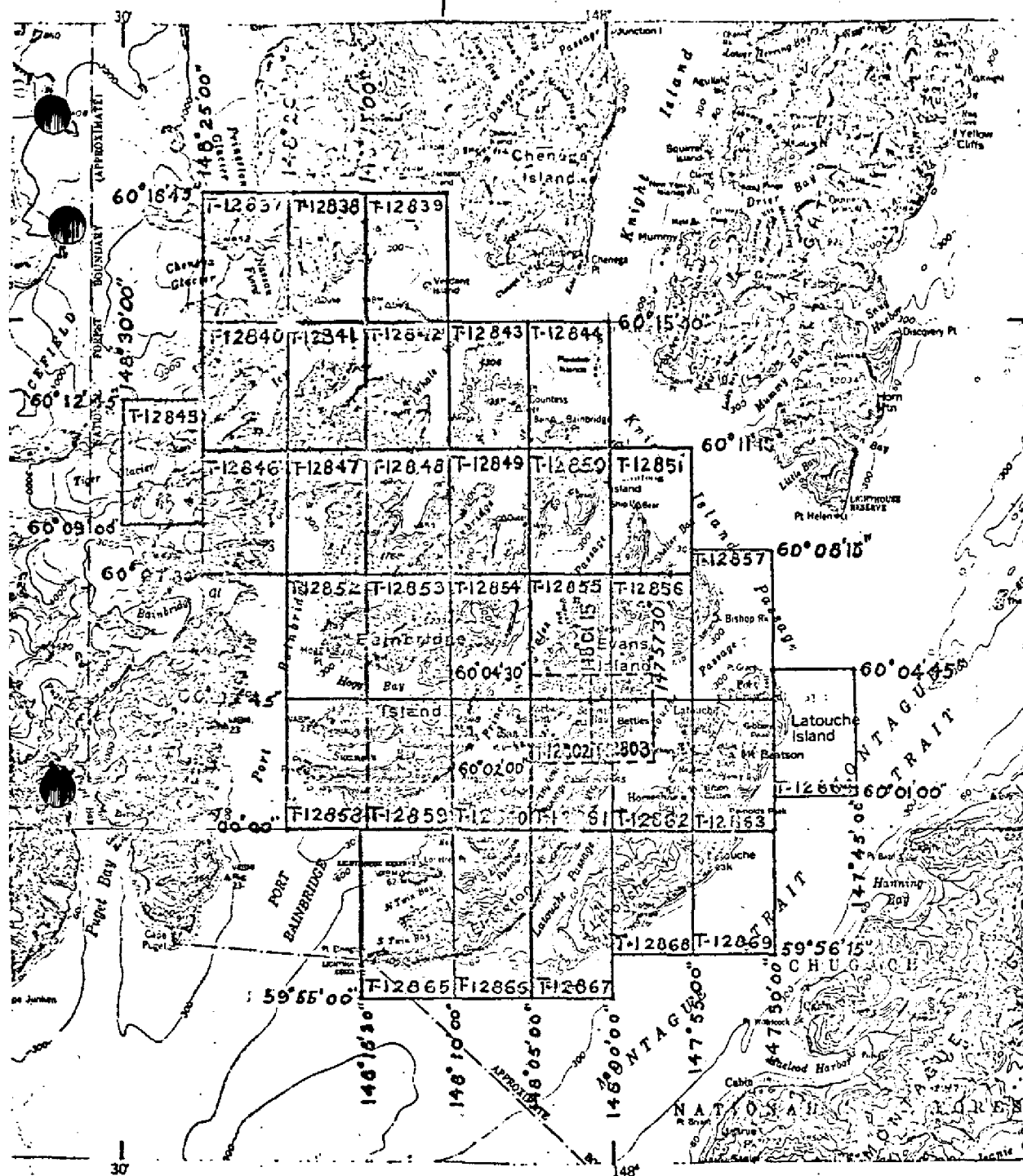
This job was planned to encompass thirty-three shoreline maps  
at 1:10,000 scale and two maps at 1:5,000 scale.

Job photography was taken in 1965. As a result of changes  
in hydrographic survey schedules, aerotriangulation has not  
been done, except for the Sawmill Bay area, covered by the  
1:5,000 scale maps (T-12802 and T-12803). These maps were  
field edited in conjunction with hydrographic survey opera-  
tions accomplished in 1966.

No additional hydrography will be done in the foreseeable future.

Job Completion Procedures

1. With the exception of T-12802 and T-12803, all job maps  
are cancelled.
2. The two Class I map manuscripts are in the Coastal Mapping  
Division, Atlantic Marine Center. These maps shall be final  
reviewed on a routine basis and forwarded with applicable  
job records to the Quality Control Group for registration.
3. A copy of this memo shall be forwarded to the final  
review activity, Coastal Mapping Division, Atlantic Marine  
Center.



ORIGINAL SHEET LAYOUT

JOB PH-6414

KNIGHT ISLAND PASSAGE  
(SOUTH SIDE)

LATOUCHE ISLAND TO ICY BAY  
ALASKA

1:5,000 & 1:10,000 SCALE

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-12802

Shoreline survey T-12802 is one of two 1:5,000 scale surveys in Project PH-6414, Sawmill Bay, Alaska. The purpose of the project was to provide new shoreline for nautical charts and photo-hydro support data for hydrographic surveys to be conducted in the area.

Field work preceding compilation consisted of recovery and identification of horizontal control. There was no field inspection prior to compilation.

Compilation was by Kelsh instrument methods using the 1:15,000 scale panchromatic photography obtained on 15 August 1964. Cronaflex copies of the Incomplete Manuscript along with 1:5,000 scale ratio photographs were provided for hydro-support purposes and for field edit.

The manuscript is a vinylite sheet 2 minutes 30 seconds in latitude by 3 minutes 45 seconds in longitude which was scribed and reproduced on cronaflex. One cronar positive and one cronar negative are provided for record and registry.

*See Page 5b bound with this Descriptive Report*

7

FIELD INSPECTION REPORT  
Map T-12802  
Project PH-6414  
Sawmill Bay, Alaska

There was no field inspection prior to compilation of this map.





PHOTOGRAMMETRIC PLOT REPORT  
Sawmill Bay, Alaska  
Job PH-6414

21. Area Covered

This report covers two T-sheets (T-12802 and T-12803) located in the area of Sawmill Bay, Alaska.

22. Method

Two bridges were run on the C-5 Stereoplanigraph and adjusted by IBM 1620 methods. All passpoints were drilled on the PUG.

Strip #1 (64-S-6217 thru 6222) was adjusted on four triangulation stations with no additional checks.

Strip #2 (64-S-6240 thru 6246) was adjusted on six triangulation stations with one station as a check.

All tie points between strips were averaged.

23. Adequacy of Control

Horizontal control provided complied with project instructions and was adequate. All control held within National Map Standards except ELL, 1965, SS "B" which could not be identified with accuracy on the instrument.

24. Supplemental Data

Local GS quads were used for vertical bridging control.

25. Photography

Photography was adequate as to coverage, overlap definition, and quality.

Submitted by:

Paul Hawkins  
Paul Hawkins

Approved by:

John D. Perrow, Jr.  
John D. Perrow, Jr.

10

COMPILATION REPORT  
T-12802

Photogrammetric Plot Report submitted with this report.

31. DELINEATION

Delineation was by Kelsh plotter and was supplemented by April 7, 1965 Preliminary Survey that was compiled by the radial plot method.

There was no field inspection.

Photographic coverage did not permit delineation of shoreline at the northwest corner of this map.

32. CONTROL

See Photogrammetric Plot Report.

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

Shoal and low water lines were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

Form 567 is submitted for one landmark and one fixed aid to navigation.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junction has been made with T-12803 to the east. There are no contemporary surveys to the north, south and west.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with USGS Quadrangle SEWARD (A-3), ALASKA scale 1:63,360 dated 1952.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with USC&GS Chart 8523; scale 1:40,000; edition of July 30, 1951; Hydro Survey #4316 scale 1:10,000 dated July, 1927.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted:

*B. H. Barnes*

Approved:

*Albert C. Rauck, Jr.*  
J. Bull, ADM., USESSA  
Director, Atlantic Marine Center

B.H. Barnes  
Cartographic Aide

12

GEOGRAPHIC NAMES  
Ph 21423 (Sawmill Bay, Alaska)

T-12802 (Shoreline)

Elrington Passage

Evans Island

Port Ashton

Port Benney (Ab'd.)

Prince of Wales Passage\*

Sawmill Bay

San Juan Cannery

*A. J. Wraight*

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A. J. Wraight  
Geographic Names Section

*\* Not used on this Survey*

INCOMPLETE MANUSCRIPTS

T-12802

and

T-12803

49. NOTES FOR THE HYDROGRAPHER

Foul, shoal and ledge areas shown on this sheet were determined by office inspection of aerial photographs of the area and are shown to aid the hydrographer in locating possible hazardous areas. Their existence and extent should be verified by the hydrographer. If a foul, shoal or ledge area that is shown does not exist, this fact should be so noted on the discrepancy or field edit ovalid.

Investigate non-floating aids and landmarks for charts. Forms 567 should be submitted.

The following note is taken from a report submitted by Robert B. Melby and approved by John B. Watkins, Jr., CDR, USC&GS:

"Photo-hydro signals consisting of rocky points, boulders, etc. were marked by a circle painted red with a red vertical arrow, bi-secting the letter "H" on the seaward side of the feature. Trees, stumps and snags were marked with a small square of white cloth, stapled to their trunks. Dolphins, building gables and corners of piers were unmarked as they are quite evident and readily recovered."

Photo-hydro signal sites established during May 9-12, 1966 and identified on the processed cronapsaque ratio prints during field operations, were plotted in their true positions during the Kelsh instrument compilation. These are shown with a 2.5 mm circle and labeled, when identification was furnished.

In order to expedite forwarding these T-sheet compilations, it was thought to be inadvisable to lose the additional time in acquiring new matte finish ratio prints. Only contact prints and ratio prints used during the May 1966 field operations are being re-submitted for your field edit use.



## PHOTOGRAMMETRIC OFFICE REVIEW

T-10963 T-12802

1. PROJECTION AND GRIDS CHB		2. TITLE CHB		3. MANUSCRIPT NUMBERS CHB		4. MANUSCRIPT SIZE CHB	
CONTROL STATIONS							
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY CHB				6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX		7. PHOTO HYDRO STATIONS CHB	
8. BENCH MARKS XX		9. PLOTTING OF SEXTANT FIXES XX		10. PHOTOGRAMMETRIC PLOT REPORT BRIDGE, W. O.		11. DETAIL POINTS XX	
ALONGSHORE AREAS (Nautical Chart Data)							
12. SHORELINE CHB		13. LOW-WATER LINE CHB		14. ROCKS, SHOALS, ETC. CHB		15. BRIDGES XX	
16. AIDS TO NAVIGATION CHB		17. LANDMARKS XX		18. OTHER ALONGSHORE PHYSICAL FEATURES CHB		19. OTHER ALONGSHORE CULTURAL FEATURES CHB	
PHYSICAL FEATURES							
20. WATER FEATURES CHB				21. NATURAL GROUND COVER CHB		22. PLANETABLE CONTOURS XX	
23. STEREOSCOPIC INSTRUMENT CONTOURS XX		24. CONTOURS IN GENERAL XX		25. SPOT ELEVATIONS XX		26. OTHER PHYSICAL FEATURES XX	
CULTURAL FEATURES							
27. ROADS XX		28. BUILDINGS CHB		29. RAILROADS XX		30. OTHER CULTURAL FEATURES CHB	
BOUNDARIES							
31. BOUNDARY LINES XX				32. PUBLIC LAND LINES XX			
MISCELLANEOUS							
33. GEOGRAPHIC NAMES CHB				34. JUNCTIONS CHB		35. LEGIBILITY OF THE MANUSCRIPT CHB	
36. DISCREPANCY OVERLAY XX		37. DESCRIPTIVE REPORT CHB		38. FIELD INSPECTION PHOTOGRAPHS XX		39. FORMS CHB	
40. REVIEWER CHB Charles H Bishop				SUPERVISOR, REVIEW SECTION OR UNIT ACR Albert C. Rauch, 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.							
COMPILER CHB Charles H Bishop				SUPERVISOR ACR Albert C. Rauch, Jr.			
43. REMARKS							

14/

FIELD EDIT REPORT  
T-12802

No field edit report was received from the field editor, however, the Discrepancy Print with field edit notations was returned to the compilation office.

15

REVIEW REPORT T-12802

SHORELINE

March 6, 1967

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with Registered Survey No. 4316, 1:10,000 scale made in May-July 1927. There is considerable difference in the MHWL between the two surveys. The difference has been indicated on the comparison print in blue.

Shoreline map T-12802 supersedes Survey No. 4316 and should be used for future nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. SEWARD (A-3), ALASKA quadrangle, 1:63,360 scale, edition of 1952. Because of the difference in the scale of the two surveys only a visual comparison was made. The general shape of the shoreline and islands on the U.S.G.S. quadrangle and survey T-12802 are in good general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet HO-05-2-66. The shoreline for the boat sheet was obtained from a copy of an Incomplete Manuscript and is not in agreement with the Final Reviewed manuscript as some changes in the shoreline, reefs and ledges were made during Final Review.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart 8523, 1:40,000 scale, 3rd edition, July 30, 1951, corrected through Notice to Mariners No. 50, December 12, 1964. The shoreline for the chart is identical with Survey No. 4316 and any differences that exist between that survey and T-12802 also exist between the chart and T-12802.

Two landmark tanks located at latitude 60°03.1' longitude 148°03.8' and latitude 60°03.4' longitude 148°03.2' were not



15

recommended for charting either by the field editor or hydrographic party and are not shown on this survey.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Approved by:

Reviewed by:

*Albert C. Rauck Jr.*

*for* J. Bull, RADM  
Director, Atlantic Marine Center

*Leo F. Beugnot*

Leo F. Beugnot

**NONFLOATING AIDS OR LANDMARKS FOR CHARTS**

STRIKE OUT TWO

I recommend that the following objects which have *(have not)* been inspected from seaward to determine their value as landmarks be charted on *(deleted from)* the charts indicated.

The positions given have been checked after listing by

Atlantic Marine Center

November 23, 1966

C. H. Bishop

J. Bull. ADM., USESA

Director, AMC

Chief of Party

No copy of Form 567 was furnished to the Photogrammetric Section by the hydrographer				
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This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

\* TABULATE SECONDS AND METERS



DESCRIPTIVE REPORT - DATA RECORD  
T - 12803

PROJECT NO. (II):

PH-6414

FIELD OFFICE (II):

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center

OFFICER-IN-CHARGE

J. Bull, ADM., USESSA  
Director, Atlantic Marine Center

INSTRUCTIONS DATED (II) (III):

OFFICE COMPILATION - Shoreline Mapping, Sawmill Bay, Alaska, Project 21423 (7),  
dated February 25, 1965

OFFICE - Shoreline Mapping, Sawmill Bay, Alaska, Job PH-6414, dated June 6, 1966

METHOD OF COMPILATION (III):

Kelsh instrument

MANUSCRIPT SCALE (III):

1:5,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:3,000 pantographed to 1:5,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.:

DATE:

DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):

N. A. 1927

VERTICAL DATUM (III): MHW

~~MEAN SEA LEVEL~~ EXCEPT AS FOLLOWS:

Elevations shown as (23) refer to mean high water

Elevations shown as (3) refer to sounding datum

i.e., mean low water or mean lower low water

REFERENCE STATION (III):

BETTE 1955 ✓

LAT.:

LONG.:

60° 02' 48.393" (1497.7m)

148° 00' 31.968" (494.8m)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y = 2,214,500.70 ft. ✓

X = 863,941.70 ft. ✓

Alaska ✓

4 ✓

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

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



## DESCRIPTIVE REPORT - DATA RECORD

T-12803

FIELD INSPECTION BY (II): None		DATE:
AN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Date of photography 15 August 1964 Kelsh Instrument, June 1966		
PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree		DATE 1/13/65
PROJECTION AND GRIDS CHECKED BY (IV): P. Hawkins		DATE 1/13/65
CONTROL PLOTTED BY (III): C. H. Bishop		DATE 6/17/66
CONTROL CHECKED BY (III): K. G. Boyle		DATE 6/17/66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): P. Hawkins		DATE 1/13/65
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY L. O. Neterer, Jr.	DATE 6/24/66
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): L. O. Neterer, Jr.		DATE 6/30/66
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): C. H. Bishop		DATE July 1966
REMARKS:		



DESCRIPTIVE REPORT - DATA RECORD

T-12803

CAMERA (KIND OR SOURCE) (III):

"S" Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64-S-6241 thru 64-S-6246	15 Aug. 1964	10:20	1:15,000	4.4 ft. above MLLW

TIDE (III) Predicted

Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Cordova, Alaska		10.0	12.4
SUBORDINATE STATION: Sawmill Bay, Evans Island, Alaska		8.9	11.3
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): *Leo F. Beugnot, Atlantic Marine Center*

DATE: *March 1967*

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 7(65)3(66)

RECOVERED:  
4(65)3(66)

IDENTIFIED:  
4 (65) 3 (66)

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

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): 24

REMARKS:



T-12803

COMPILATION RECORD

COMPLETION DATE

REMARKS

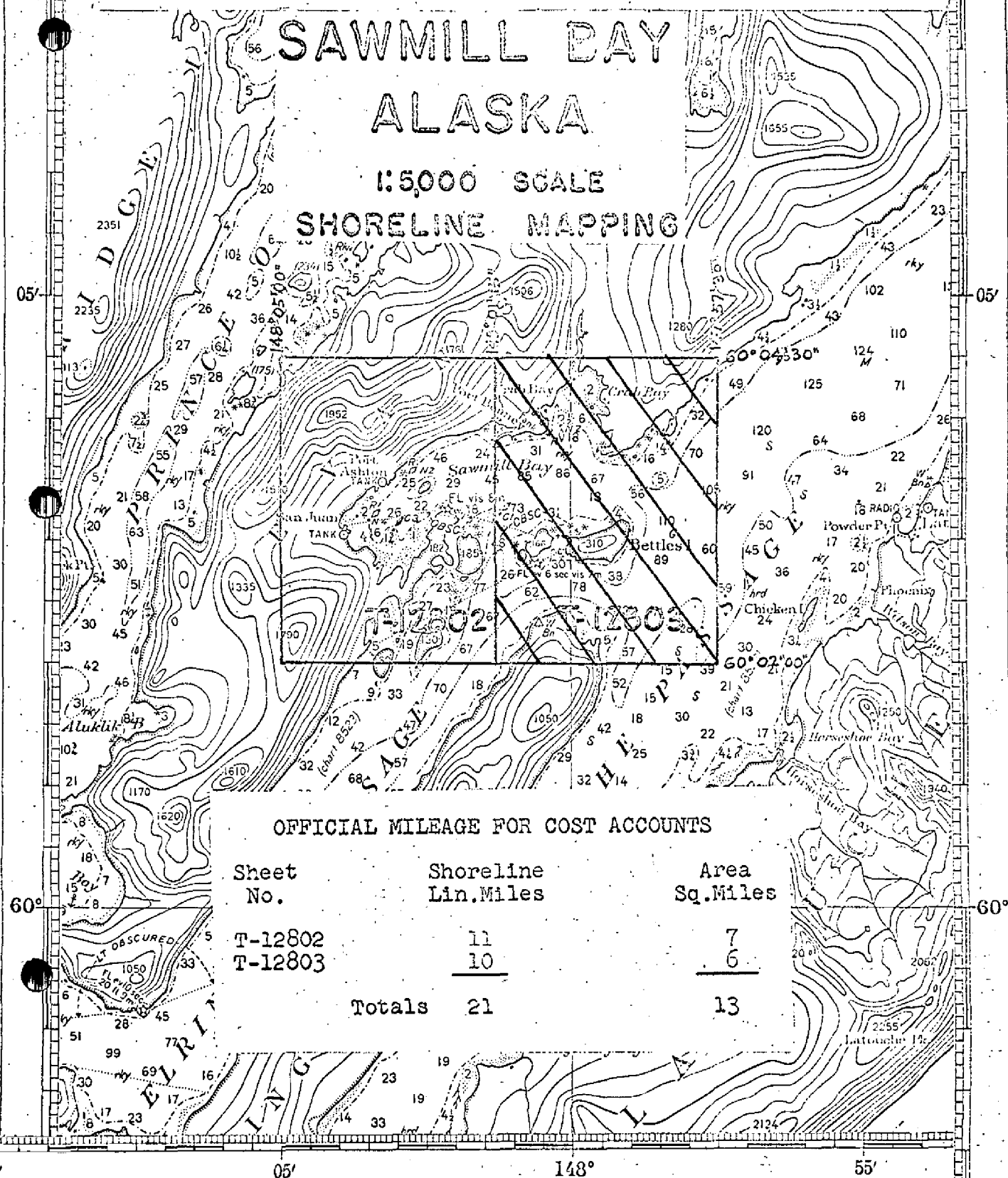
Alongshore area for hydro	June 1966	Superseded
Field edit applied	November 1966	
Manuscript complete	January 1967	
<i>Corrected by Final Review</i>	<i>March 1967</i>	



# JOB PH-6414

## SAWMILL BAY ALASKA

1:5,000 SCALE  
SHORELINE MAPPING



### OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Shoreline Lin. Miles	Area Sq. Miles
T-12802	11	7
T-12803	10	6
Totals	21	13



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-12803

Shoreline map T-12803 is one of two 1:5,000 scale surveys in Project PH-6414, Sawmill Bay, Alaska. The primary purpose of the surveys was to provide new shoreline for nautical charts and photo-hydro support data for hydrographic surveys to be conducted in the same area.

Field work preceding compilation consisted of recovery and identification of horizontal control. There was no field inspection prior to compilation.

Compilation was by Kelsh instrument methods using the 1:15,000 scale panchromatic photography obtained on August 15, 1964 and the control established by aerotriangulation. Cronaflex copies of the map manuscript along with specially prepared 1:5,000 scale ratio photographs were provided for preparation of the hydrographer's boat sheet, field edit and photo-hydro support purposes.

The manuscript is a vinylite sheet 2 minutes 30 seconds in latitude by 3 minutes 45 seconds in longitude which was scribed and reproduced on cronaflex. One cronar positive and one cronar negative are provided for record and registry.

See Page 5b bound with this Descriptive  
Report.

## FIELD INSPECTION REPORT

Map T-12803

Project PH-6414

Sawmill Bay, Alaska

There was no field inspection prior to compilation of this map.

MAP T. 12803

PROJECT NO. PH-6414

SCALE OF MAP 1:5000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\psi$ -COORDINATE LONGITUDE OR $\lambda$ -COORDINATE Alaska Zone 4	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
BETTE 1955	GP Vol 6 p. 372	NA 1927	60 02 48.393 ✓ 148 00 31.968 ✓	1 497.7 ( 359.2 ) 494.8 ( 433.9 )		✓			
"	Alaska 60148 p. 4	"	2214 500.70 ✓ 863 941.70 ✓	500.70 (1499.30) 1 941.70 (0058.30)		✓			
ELRLINGTON ISLAND DAYBEACON 1955	GP Vol. 6 p. 373	"	60 02 20.116 ✓ 148 00 31.996 ✓	622.6 (1234.3) 495.4 ( 433.4 )		✓			
"	Alaska 60148 p. 10	"	2 211 630.64 ✓ 864 026.72 ✓	1 630.64 (0369.36) 0026.72 (1973.28)		✓			
ELRLINGTON PASSAGE LIGHT 1955	GP Vol 6 p. 373	"	60 02 48.469 ✓ 148 00 32.289 ✓	1 500.1 ( 356.8 ) 499.8 ( 428.9 )		✓			
"	Alaska 60148 p. 10	"	2 214 507.92 ✓ 863 925.16 ✓	507.92 (1492.08) 1 925.16 (0074.84)		✓			
KRIS 1966	Form 27A unadjusted	"	60 03 41.04 ✓ 147 59 30.12 ✓	1270.1 ( 586.8 ) 466.0 ( 462.3 )		✓			
RED 3, 1966	IBM Readout	"	60 03 04.11 ✓ 147 59 23.53 ✓	127.2 (1729.7) 364.2 ( 564.4 )		✓			
SHUN 1927	GP Vol 6 p. 98	"	60 03 39.029 ✓ 147 58 55.181 ✓	1207.9 ( 649.0 ) 853.8 ( 074.5 )		✓			
"	Alaska 60147 p. 22	"	2219 789.04 ✓ 868 697.93 ✓	1789.04 (0210.96) 0697.93 (1302.07)		✓			
WINTER 1966	Form 27A unadjusted	"	60 03 48.13 ✓ 147 58 18.08 ✓	1489.5 ( 367.4 ) 279.7 ( 648.6 )		✓			

MAP T-12803

PROJECT NO. PH-6474

SCALE OF MAP:

1:5,000

SCALE FACTOR

[illegible]

1 FT. = .3048006 METER

COMPUTED BY: B. Barnes

DATE July 1, 1966

CHECKED BY: TON

DATE July 1, 1966

COMM-DC-5784

10

COMPILATION REPORT  
Map Manuscript T-12803

The Photogrammetric Plot Report is submitted with the compilation report for Map T-12802.

31. DELINEATION

The delineation was done by the Kelsh instrument and was supplemented by an April 1965 Preliminary Survey.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAIL

All the mean high water line, mean lower low water line, shoal, foul and shallow lines were delineated by office interpretation of the photographs and are subject to change upon field inspection.

36. OFFSHORE DETAILS

The only offshore details are rocks and ledges detached from the shoreline. These were mapped, by office interpretation of the photographs, and are subject to change by field inspection.

37. LANDMARKS AND AIDS

There are no landmarks.

Form 567 is submitted for two fixed aids to navigation.

38. CONTROL FOR FUTURE SURVEY

None.

39. JUNCTIONS

Junction with T-12802 to the west was made. To the north, east and south there are no contemporary surveys.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with USGS Quadrangle SEWARD (A-3), ALASKA, scale 1:63,360 dated 1952.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with nautical chart 8523, scale 1:40,000, edition of July 30, 1951.

ITEMS TO BE APPLIED TO CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Approved:

*for Albat C. Rauck Jr.*  
J. Bull, ADM., USESSA  
Director, Atlantic Marine Center

Submitted:

*Lowell O. Neterer*  
Lowell O. Neterer  
Cartographic Aide



GEOGRAPHIC NAMES

Ph 21423 (Sawmill, Bay, Alaska)

T-12803 (Shoreline)

Bettles Island

Crab Bay

~~Crab Bay~~

Elrington Island

Johnson Cove

Latouche Passage

Port Beney <sup>n</sup> (Abou 'd)

Sawmill Bay

Evans Island

~~Elrington Island~~

*A. J. Wraight*

A. J. Wraight  
Geographic Names Section

INCOMPLETE MANUSCRIPTS

T-12802

and

T-12803

49. NOTES FOR THE HYDROGRAPHER

Foul, shoal and ledge areas shown on this sheet were determined by office inspection of aerial photographs of the area and are shown to aid the hydrographer in locating possible hazardous areas. Their existence and extent should be verified by the hydrographer. If a foul, shoal or ledge area that is shown does not exist, this fact should be so noted on the discrepancy or field edit oval.

Investigate non-floating aids and landmarks for charts. Forms 567 should be submitted.

The following note is taken from a report submitted by Robert B. Melby and approved by John B. Watkins, Jr., CDR, USC&GS:

"Photo-hydro signals consisting of rocky points, boulders, etc. were marked by a circle painted red with a red vertical arrow, bi-secting the letter "H" on the seaward side of the feature. Trees, stumps and snags were marked with a small square of white cloth, stapled to their trunks. Dolphins, building gables and corners of piers were unmarked as they are quite evident and readily recovered."

Photo-hydro signal sites established during May 9-12, 1966 and identified on the processed cronapaque ratio prints during field operations, were plotted in their true positions during the Kelsh instrument compilation. These are shown with a 2.5 mm circle and labeled, when identification was furnished.

In order to expedite forwarding these T-sheet compilations, it was thought to be inadvisable to lose the additional time in acquiring new matte finish ratio prints. Only contact prints and ratio prints used during the May 1966 field operations are being re-submitted for your field edit use.



## PHOTOGRAMMETRIC OFFICE REVIEW

XT-10283 T-12803

1. PROJECTION AND GRIDS CHB		2. TITLE CHB		3. MANUSCRIPT NUMBERS CHB		4. MANUSCRIPT SIZE CHB	
CONTROL STATIONS							
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY CHB				6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX		7. PHOTO HYDRO STATIONS CHB	
8. BENCH MARKS XX		9. PLOTTING OF SEXTANT FIXES XX		10. PHOTOGRAMMETRIC PLOT REPORT BRIDGE - W. O.		11. DETAIL POINTS XX	
ALONGSHORE AREAS (Nautical Chart Data)							
12. SHORELINE CHB		13. LOW-WATER LINE CHB		14. ROCKS, SHOALS, ETC. CHB		15. BRIDGES XX	
16. AIDS TO NAVIGATION CHB		17. LANDMARKS XX		18. OTHER ALONGSHORE PHYSICAL FEATURES CHB		19. OTHER ALONGSHORE CULTURAL FEATURES CHB	
PHYSICAL FEATURES							
20. WATER FEATURES CHB				21. NATURAL GROUND COVER CHB		22. PLANETABLE CONTOURS XX	
23. STEREOSCOPIC INSTRUMENT CONTOURS XX		24. CONTOURS IN GENERAL XX		25. SPOT ELEVATIONS XX		26. OTHER PHYSICAL FEATURES XX	
CULTURAL FEATURES							
27. ROADS XX		28. BUILDINGS CHB		29. RAILROADS XX		30. OTHER CULTURAL FEATURES XX	
BOUNDARIES							
31. BOUNDARY LINES XX				32. PUBLIC LAND LINES XX			
MISCELLANEOUS							
33. GEOGRAPHIC NAMES CHB				34. JUNCTIONS CHB		35. LEGIBILITY OF THE MANUSCRIPT CHB	
36. DISCREPANCY OVERLAY XX		37. DESCRIPTIVE REPORT CHB		38. FIELD INSPECTION PHOTOGRAPHS XX		39. FORMS CHB	
40. REVIEWER CHB Charles H. Bishop				SUPERVISOR, REVIEW SECTION OR UNIT ACR Albert C. Rauck, 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.							
COMPILER CHB Charles H. Bishop				SUPERVISOR ACR Albert C. Rauck, Jr.			
43. REMARKS							

14

FIELD EDIT REPORT  
T-12803

No field edit report was received from the field editor, however, the Discrepancy Print with field edit notations was returned to the compilation office.

15

REVIEW REPORT T-12803  
SHORELINE  
March 14, 1967

61. GENERAL STATEMENT

See summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with Registered Survey No. 4316 made in May and July 1927 at 1:10,000 scale. The differences in the shoreline and alongshore detail has been shown on the Comparison Print in blue.

Shoreline survey T-12803 supersedes the older survey and should be used for future nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. SEWARD (A-3), ALASKA quadrangle, 1:63,360 scale, edition of 1952. Because of the difference in the scales of the two surveys, no attempt was made to superimpose the U.S.G.S. quadrangle on the new survey. A visual comparison indicates that the two surveys are in good general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with a copy of boat sheet HO-05-2-66. The shoreline for this boat sheet was obtained from a copy of the Incomplete Manuscript and is not in complete agreement with the Advance Manuscript as changes in the shoreline and ledges were made during the time of Final Review.

Three rocks, shown on the boat sheet at the following positions, are not visible on photographs of the area and are not shown on survey T-12803.

	Latitude	Longitude
Rock awash	60° 03'45"	147°58' 26"
Rock awash	60° 04'12"	147°59' 57"
Rock awash	60° 04'14"	147°59' 57"

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with nautical chart 8523, 1:40,000 scale, 3rd edition, July 30, 1951, corrected through Notice to Mariners

16  
No. 50, December 12, 1964. The shoreline of the chart is identical with Registered Survey No. 4316 and the differences that exist between that survey and T-12803 also exist between the chart and T-12803.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Approved by:

*Albert C. Rauch, Jr.*  
\_\_\_\_\_  
J. Bull, RADM  
Director, Atlantic Marine Center

Reviewed by:

*Leo F. Beugnet*  
\_\_\_\_\_  
Leo F. Beugnet

Approved by:

\_\_\_\_\_  
Chief, Photogrammetric Branch

\_\_\_\_\_  
Chief, ~~Photogrammetry~~ Division  
Coastal Mapping

\_\_\_\_\_  
~~Chief, Nautical Chart Division~~



PROJECT MATERIAL ON FILENATIONAL ARCHIVES

Brown Jacket - Aerotriangulation Photographs  
6 Form 526 - Recovery Note  
10 Form 152 - Control Station Identification  
1 Form 738 - Traverse Computations (11 pages)  
2 Form 25 - Computation of Triangles  
3 Form 164 - Control Record

## Field Edit Sheets

7 Photo-section blow-ups containing field identified control --  
64-S(P) 6219, 6220, 6242, 6243 in two parts and 6244.

NATIONAL OCEAN SURVEY ARCHIVES

Copies of Final Maps  
Descriptive Reports

REPRODUCTION DIVISION

Negatives of Final Maps



