

T-12912

ORIGINAL

T-12912

NOAA FORM 76-35

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

## DESCRIPTIVE REPORT

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Type of Survey ..... Shoreline .....

Job No. .... PH-6415 ..... Map No. .... T-12912 .....

Classification No. .... Edition No. .... 1 .....

Field Edited Map

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### LOCALITY

State ..... Alaska .....

General Locality ..... Knight Island Passage .....

Locality ..... Point Helen .....

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1965 TO 1975

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### REGISTRY IN ARCHIVES

DATE .....

NOAA FORM 76-36A (3-72)	U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY <u>TR-T-12912</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final</u> JOB <u>PH-6415</u>
		<b>DESCRIPTIVE REPORT - DATA RECORD</b>	

PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Atlantic Marine Center, Norfolk, Virginia	<b>LAST PRECEDING MAP EDITION</b>	
OFFICER-IN-CHARGE  Jeffrey G. Carlen, Cdr.	TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB <u>PH-6415</u> MAP CLASS _____ SURVEY DATES: 19__ TO 19__

<b>I. INSTRUCTIONS DATED</b>	
<b>1. OFFICE</b>	<b>2. FIELD</b>
Verbal	

<b>II. DATUMS</b>	
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN	OTHER (Specify)
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input checked="" type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL	OTHER (Specify)
3. MAP PROJECTION  Polyconic	4. GRID(S) STATE <u>Alaska</u> ZONE <u>3</u>
5. SCALE 1:10,000	STATE _____ ZONE _____

<b>III. HISTORY OF OFFICE OPERATIONS</b>		
<b>OPERATIONS</b>	<b>NAME</b>	<b>DATE</b>
1. AEROTRIANGULATION BY METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY	<u>G. M. Ball</u>	<u>1/66</u>
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: CHECKED BY		
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: <u>Wild B-8</u> CONTOURS BY SCALE: CHECKED BY	<u>Atlantic Marine Center</u>	<u>1/77</u>
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: <u>Smooth Drafting</u> CONTOURS BY CHECKED BY SCALE: <u>1:10,000</u> HYDRO SUPPORT DATA BY CHECKED BY		
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY	<u>J. R. Minton</u> <u>L. O. Neterer</u>	<u>6/77</u> <u>6/77</u>
7. COMPILATION SECTION REVIEW BY	<u>L. O. Neterer</u>	<u>6/77</u>
8. FINAL REVIEW BY	<u>C. H. Bishop</u>	<u>7/77</u>
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	<u>C. H. Bishop</u>	<u>7/77</u>
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	<u>J. B. Phillips</u>	<u>7/77</u>
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	<u>P. T. Catler</u>	<u>8/77</u>

NOAA FORM 76-36B (3-72)	T-12912 <b>COMPILATION SOURCES</b>	U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY
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**1. COMPILATION PHOTOGRAPHY**

CAMERA(S)	TYPES OF PHOTOGRAPHY LEGEND	TIME REFERENCE
TIDE STAGE REFERENCE	(C) COLOR	ZONE
<input checked="" type="checkbox"/> PREDICTED TIDES	X(P) PANCHROMATIC	Alaska - Hawaii <input type="checkbox"/> STANDARD
<input type="checkbox"/> REFERENCE STATION RECORDS	(I) INFRARED	MERIDIAN
<input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		150th <input type="checkbox"/> DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
65 L(P) 3228 and 3229	6/22/65		1:30,000	1.1 ft. above MLLW
65 L(P) 4120 thru 4123	7/05/65	10:10	1:15,000	

REMARKS

**2. SOURCE OF MEAN HIGH-WATER LINE:**

Office interpretation of the photographs.

**3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:**

Office interpretation of the photographs.

**4. CONTEMPORARY HYDROGRAPHIC SURVEYS** *(List only those surveys that are sources for photogrammetric survey information.)*

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

**5. FINAL JUNCTIONS**

NORTH T-12911	EAST No Survey	SOUTH No Survey	WEST No Contemporary Survey
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REMARKS

T-12912  
**HISTORY OF FIELD OPERATIONS**

I.  FIELD INSPECTION OPERATION       FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	M. H. Fleming	5/75
2. HORIZONTAL CONTROL	RECOVERED BY	NA
	ESTABLISHED BY	NA
	PRE-MARKED OR IDENTIFIED BY	NA
3. VERTICAL CONTROL	RECOVERED BY	NA
	ESTABLISHED BY	NA
	PRE-MARKED OR IDENTIFIED BY	NA
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED ( <i>Triangulation Stations</i> ) BY	NA
	LOCATED ( <i>Field Methods</i> ) BY	NA
	IDENTIFIED BY	NA
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE      BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	D. J. Tennesen      5/75
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
None		None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (*Clarification of details*)  
65 L(P), 4120 thru 4123

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  
None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES:     REPORT     NONE      6. BOUNDARY AND LIMITS:     REPORT     NONE

7. SUPPLEMENTAL MAPS AND PLANS  
None

8. OTHER FIELD RECORDS (*Sketch books, etc. DO NOT list data submitted to the Geodesy Division*)  
Field Edit Report  
Field Edit Ozalid

NOAA FORM 76-36D  
(3-72)

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

T-12912  
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete, pending field edit.	1/75	Class III Superseded		
Field edit applied. Compilation complete.	6/77	Class I Superseded		
Final Review	7/77	Final	7/13/77	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

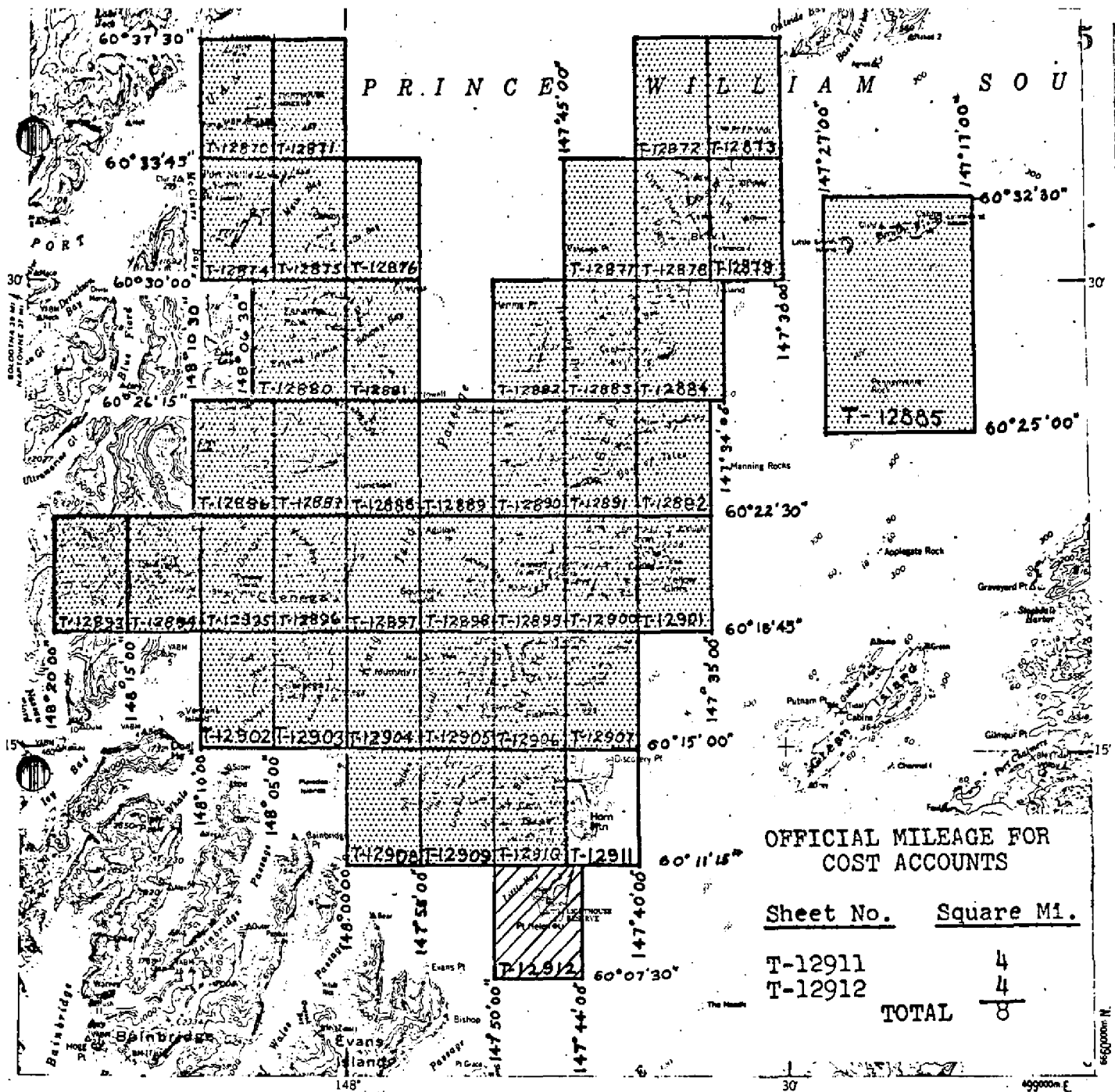
2.  REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: \_\_\_\_\_
3.  REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

III. FEDERAL RECORDS CENTER DATA

1.  BRIDGING PHOTOGRAPHS;  DUPLICATE BRIDGING REPORT;  COMPUTER READOUTS.
2.  CONTROL STATION IDENTIFICATION CARDS;  FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3.  SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:
4.  DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: \_\_\_\_\_

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY  MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY  MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY  MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	



OFFICIAL MILEAGE FOR  
COST ACCOUNTS

Sheet No.	Square Mi.
T-12911	4
T-12912	4
<b>TOTAL</b>	<b>8</b>

**JOB PH-6415**  
**KNIGHT ISLAND PASSAGE**  
 ICY BAY TO  
 PORT NELLIE JUAN  
**ALASKA**  
 1:10,000 & 1:20,000 SCALE  
 SHORELINE MAPPING

Note:  
 All sheets except T-12911 and 12912  
 are cancelled, per memo Chief, Coastal  
 Mapping Division, dated July 9, 1975

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS T-12911 and T-12912

These maps are the only surveys in Project PH-6415 that were compiled; the remaining maps were cancelled (letter C3421 dated August 6, 1975). They are 1:10,000 scale shoreline surveys and were used to furnish shoreline for a Navy Amphibious Training Chart Survey. At the time the maps were compiled, the need was urgent. Compilation instructions were issued by telephone. No data records were kept and no compilation reports were written. At the time of final review, no bridging photographs and no photographs with pass points were available.

-Field work before compilation consisted of premarking horizontal control required for bridging.

Compilation was done at the Atlantic Marine Center in January 1975.

Field edit was done in May 1975 by the Ship DAVIDSON and applied to the manuscripts by the Coastal Mapping Section at the Atlantic Marine Center in June 1977.

Final review was done at the Atlantic Marine Center in July 1977.

The original maps were compiled on vinylite sheets. T-12911 is 3' 45" in latitude by 5' in longitude; T-12912 is 3' 45" in latitude by 6' in longitude.

The original manuscripts were forwarded for processing a positive film copy of each map for filing in the Archives, one reproduction negative of each map for filing in the Reproduction Branch, and two negatives of each map for forwarding to the Photo Map and Imagery Information Section for dispersal.

FIELD INSPECTION REPORT  
T-12912  
in support of the

MONTAGUE ISLAND AMPHIBIOUS TRAINING CHART SURVEY  
SP-PMC-4-DA-75

INTRODUCTION

The area covered by this report is that of Knight Island from the western approach of Little Bay to the southern entrance of Hogan Bay. The area is rocky sedimentary coastline, cliffs and steep forested hillside inshore, and numerous kelp and rocky areas offshore.

METHODS

A field ozalid work copy was taken into the field for this inspection. Special attention was paid to locating additional seaward hazards to navigation and foreshore classification. Any features noted as additions to the field edit ozalid were located with respect to recognizable local features. A cursory inspection was made also of the apparent MHHW line and tree-vegetation line.

RECOMMENDATIONS

All foreshore features are now classified; however, all additional navigation hazards have not been located because control was not available and hydrography was not obtained northwest of Pt. Helen. Field Edit of this sheet is incomplete west of 147°46'30"W pending hydrography in the area. Photogrammetric compilation is in general excellent, and the approximate MLLW, MHHW, and vegetation lines should be accepted as adequate for use on the chart.

Submitted by:

*David J. Tennesen*

D. J. Tennesen, ENS NOAA

Approved by:

*M. H. Fleming*

M. H. Fleming, CDR NOAA  
Chief of Party



Photogrammetric Plot Report No. 1  
Project PH-6415  
Knight Island Passage - Icy Bay  
to Port Nellie Juan, Alaska

January 1966

21. Area Covered

This report covers an area of Alaska, from Point Helen on the southern tip of Knight Island northward along the eastern coastline to Point Eleanor on the northern tip of Eleanor Island; in addition the offshore island, named, Seal Island. It is a portion of the total project covering all or part of surveys T-12873, T-12878, T-12879, T-12884, T-12885, T-12891, T-12892, T-12900, T-12901, T-12907, T-12911, and T-12912.

22. Method

Analytic aerotriangulation methods were used to bridge one strip of photography at the scale of 1:30,000 (Strip #1) and one strip at the scale of 1:15,000 (Strip #2). Analog methods were employed to set up a single model, at the scale of 1:10,000 (Strip #3) on Seal Island.

The attached sketch of strips bridged shows the placement of horizontal control used in the final adjustment of Strip #1. Strip #2 was adjusted solely on tie points established from the final adjustment of Strip #1. Strip #3 was adjusted by straight line methods.

Closures to control (Strip #1) and to the tie points (Strip #2 to Strip #1) have been tabulated. The compilation office has been furnished positions for each point of Strips #1 and #2 to be plotted at the scale of 1:10,000; Strip #3 values have been computed at the scale of 1:20,000. Plain coordinates have been furnished for all points with their values computed on Alaska, Zone 3.

23. Adequacy of Control

Horizontal control (premarked targets) identified and required for our adjustment was slightly above our minimum requirements, however, the twelve sheets can be compiled to meet the National Standards of Map Accuracy.

23. Adequacy of Control, cont.

Two of the seven targets (SHELF, 1933 and ISLE (TEMP.), 1964) were not visible on the film or in the STK-1. In the final adjustment triangulation station, FLOWER, 1905, used as a "floater" in order to check our bridging accuracy; the bridge position differed by +3.8 feet in x and by -1.8 feet in y from the published position of this station.


24. Supplemental Data

Numerous U.S.G.S. quadrangles were used to obtain elevations required for the final horizontal and vertical adjustments.


25. Photography

The photography was good with regard to coverage, overlap and image definition.

Submitted by:

  
George M. Ball

Approved by:

  
Henry P. Eichert

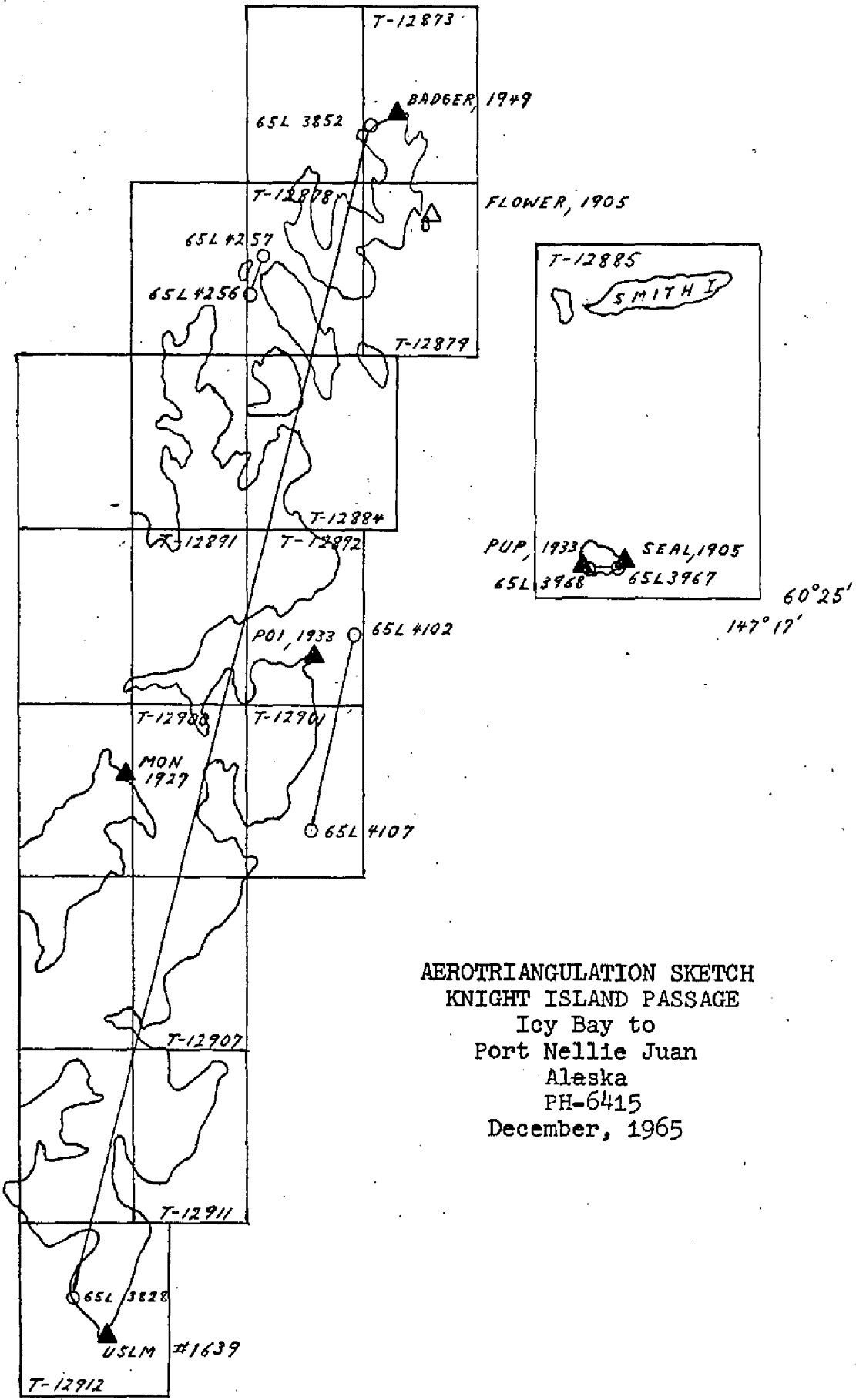
## CLOSURES TO CONTROL AND TIE POINTS

## STRIP #1

USLM #1639, 1926	SS	(-1.0	-6.9)	
	RM	(-0.2	-0.0)	
MON, 1927	SS	(+0.5	-0.6)	
POI, 1933		(-0.5	+0.5)	
FLOWER, 1905		(+3.8	-1.8)	"floater"
BADGER, 1949		(+0.1	-0.1)	

## STRIP #2

Ties to Strip #1			
40501	(+0.7	+0.6)	
40502	(-1.5	-1.2)	
38503	(+0.1	+1.8)	
39501	(+3.2	+0.4)	
38501	(+4.1	-1.0)	
38502	(-6.5	-0.9)	



AEROTRIANGULATION SKETCH  
 KNIGHT ISLAND PASSAGE  
 Icy Bay to  
 Port Nellie Juan  
 Alaska  
 PH-6415  
 December, 1965

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6415 (Knight Island Passage, Alaska)

T-12911

Discovery Point

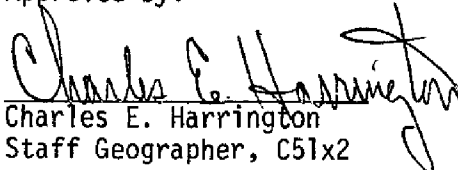
Hogan Bay

Knight Island

Montague Strait

Snug Harbor

Approved by:

  
Charles E. Harrington  
Staff Geographer, C51x2

## REVIEW REPORT

T-12912

61. GENERAL STATEMENT:

One charted fixed aid, Point Helen Light, is not office identifiable on the photographs and was not located by the field editor.

New rocks indicated approximately on the Field Edit Ozalid in the vicinity of Lat.  $60^{\circ} 09.8'$ , Long.  $147^{\circ} 47.5'$  are not shown on the manuscript. They are not visible on the photographs and were not located by the field editor because there was no control. The area was enclosed with a foul line.

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

None.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

None.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

None.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 16701 (8515), 1:81,436 scale, 11th edition, dated March 10, 1973, corrected through Notice to Mariners dated June 28, 1975. No significant differences were noted.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

No statement can be made about compliance with instructions; no written instructions are available. It is apparent from Item 23, "Adequacy of Control", in the Photogrammetric Plot Report and examination of the manuscript that this map meets requirements for Bureau Standards and the National Standards of Map Accuracy.

Submitted:

*Charles H. Bishop*

Charles H. Bishop  
Cartographer  
July 6, 1977

Approved for forwarding:

*Joseph W. Vonasek*

Joseph W. Vonasek  
Chief, Photogrammetric Branch, AMC

Approved:

*[Signature]*

Chief, Photogrammetric Branch

*[Signature]*

Chief, Coastal Mapping Division

