

12369  
T-1

T-12369

NOAA FORM 76-35  
(6-80)

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

## DESCRIPTIVE REPORT

<i>Map No.</i> T-12369	<i>Edition No.</i> 1
<i>Job No.</i> PH-6303	
<i>Map Classification</i> FINAL FIELD EDITED MAP	
<i>Type of Survey</i>	
<b>LOCALITY</b>	
<i>State</i> ALASKA	
<i>General Locality</i> CLARENCE STRAIT	
<i>Locality</i> RATZ HARBOR, SOUTH OF	
1963 TO 1971	
<b>REGISTERED IN ARCHIVES</b>	
<b>DATE</b>	

NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY <u>TM 12369</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>FINAL</u> JOB PH- <u>6303</u>
DESCRIPTIVE REPORT - DATA RECORD		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division AMC, Norfolk, VA		JOB PH- MAP CLASS SURVEY DATES: <u>19 TO 19</u>	
OFFICER-IN-CHARGE  Jeffrey G. Carlen			
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Aerotriangulation Jan 9, 1967 Compilation March 20, 1967 Compilation Supp. 1 Nov 6, 1970 Compilation Supp. 2 Nov 23, 1970 Compilation Supp. 3 Nov 5, 1971 Compilation Amend 1 Dec 7, 1971		Control Feb 10, 1966	
II. DATUMS			
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 type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify)	
3. MAP PROJECTION polyconic		4. GRID(S) STATE Alaska ZONE 1	
5. SCALE 1:10,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME DATE	
1. AEROTRIANGULATION METHOD: stereoplanigraph LANDMARKS AND AIDS BY		J. Perrow Dec 1970	
2. CONTROL AND BRIDGE POINTS METHOD: coradomat PLOTTED BY CHECKED BY		J. Perrow Dec 1970 H. Eichert Dec 1970	
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:15,000 PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY		A. Shands Nov 1970 R. White Nov 1970 NA NA	
4. MANUSCRIPT DELINEATION METHOD: smooth drafted SCALE: 1:10,000 PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY HYDRO SUPPORT DATA BY CHECKED BY		B. Wilson Dec 1970 F. Beugnet Dec 1970 NA NA B. Wilson Dec 1970 F. Beugnet Dec 1970	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		F. Beugnet Dec 1970	
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		R. White Mar 1972 B. Wilson Mar 1972	
7. COMPILATION SECTION REVIEW BY		B. Wilson Mar 1972	
8. FINAL REVIEW BY		L.O. Neterer May 1987	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		L.O. Neterer, Jr.	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		<u>P. Dempsey</u> <u>Jun 1988</u>	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		<u>J. G. Carlen</u> <u>July 1988</u>	

## COMPILED SOURCES

## 1. COMPILED PHOTOGRAPHY

CAMERA(S) Wild RC-8" W"	TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY	TYPES OF PHOTOGRAPHY LEGEND (C) COLOR <input checked="" type="checkbox"/> PANCHROMATIC (I) INFRARED	TIME REFERENCE	
			ZONE Pacific	STANDARD <input checked="" type="checkbox"/>
			MERIDIAN 120th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
63W 7294-7297	Jul 2, 1963	11:08	1:30,000	11.5 ft above MLLW

## REMARKS

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

The mean high water line was compiled from the above listed photography.

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

There was no mean lower low water line compiled on this map.

## 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-12366	EAST no survey	SOUTH T-12372	WEST no survey

## REMARKS

## HISTORY OF FIELD OPERATIONS

I.  FIELD INSPECTION OPERATION FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	B. Williams	Apr 1966
2. HORIZONTAL CONTROL	L. Riggers	Apr 1966
RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None	
3. VERTICAL CONTROL	L. Riggers	Apr 1966
RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	NA	
4. LANDMARKS AND AIDS TO NAVIGATION	None	
RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	BY
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED Photoidentified	2. VERTICAL CONTROL IDENTIFIED NA
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PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
63W 7293	SAL, 1915 sub pt		

## 3. PHOTO NUMBERS (Clarification of details)

None

## 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

## HISTORY OF FIELD OPERATIONS

I.  FIELD INSPECTION OPERATION FIELD EDIT OPERATION

OPERATION	NAME	DATE	
1. CHIEF OF FIELD PARTY	H Lippold	May 1971	
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None	
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	NA NA NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None None None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	BY	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	L. Oliver	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA	
II. SOURCE DATA			
1. HORIZONTAL CONTROL IDENTIFIED None		2. VERTICAL CONTROL IDENTIFIED NA	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS (Clarification of details) 63W 7284, 63W7294-7298, 63W7295-7297			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> 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 ozalid Field edit report			

## RECORD OF SURVEY USE

## I. MANUSCRIPT COPIES

COMPILED STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	Dec 1970	Class III	Jan 19, 71	Jan 18, 71
Field edit applied compilation complete	Mar 1972	Class I	Dec 28, 73	Feb 21, 74
Final Review	May 1987	Final Field Edited Map	June 1987	

## II. LANDMARKS AND AIDS TO NAVIGATION None

## 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

- BRIDGING PHOTOGRAPHS;  DUPLICATE BRIDGING REPORT;  COMPUTER READOUTS.
- CONTROL STATION IDENTIFICATION CARDS;  FORM NOS 567 SUBMITTED BY FIELD PARTIES.
- 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)

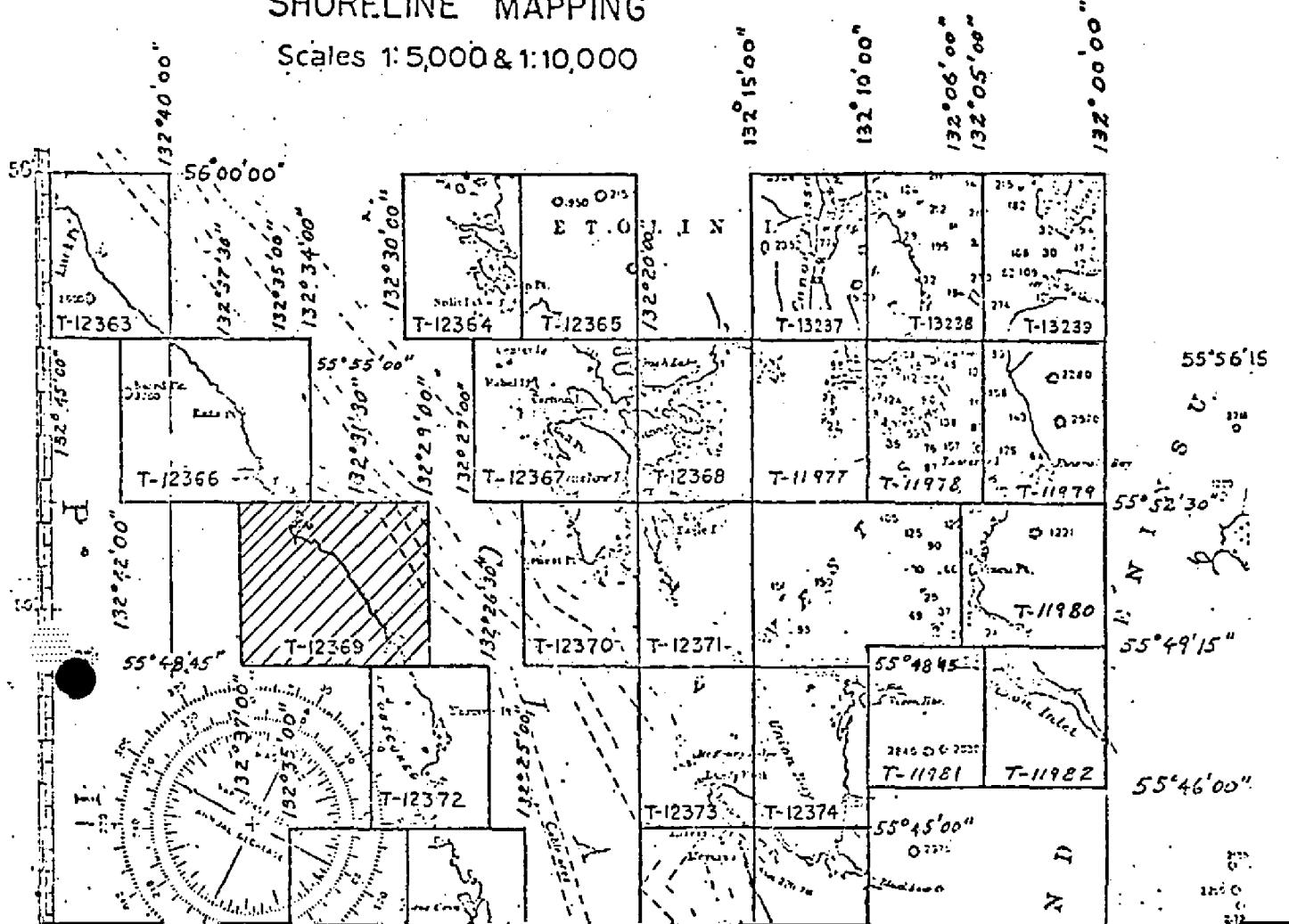
SECOND EDITION	SURVEY NUMBER TP - (2)	JOB NUMBER PH -	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY  MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF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

6  
JOB PH-6303

CLARENCE STRAIT  
ALASKA  
SHORELINE MAPPING

Scales 1:5,000 & 1:10,000

REVISED 9/23/76 R.W.W.  
REVISED 10/11/86 D.B.  
T-13240 CANCELED  
REVISED 12/11/86 J.D.M  
T-13381 CANCELED (1976)



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

T-12369

This 1:10,000 scale shoreline map is one of thirty-four maps that comprise project PH-6303, Clarence Strait, Alaska. This project encompasses Clarence Strait and Ernest Sound, latitude 55° 28' 45" north to latitude 56° 00' 00" and longitude 131° 55' 00" west to longitude 132° 45' 00".

Photographic coverage was provided in July 1963 using black and white panchromatic film with the "W" camera (focal length 153.02 millimeters) at 1:30,000 scale.

Field work prior to compilation consisted of photoidentification of horizontal control for aerotriangulation in May 1966.

Analytic aerotriangulation was performed at the Washington Science Center in December 1970.

Compilation was performed at the Atlantic Marine Center during December 1970.

Field edit was accomplished during May 1971.

Application of field edit and advancing this map to Class I status was achieved in March 1972 at the Atlantic Marine Center.

Final review was completed at the Atlantic Marine Center during May 1987.

This Descriptive Report contains all pertinent information used to compile this Final Field Edited Map.

The original base map and all pertinent data were forwarded to the Washington Science Center for registration.

## FIELD INSPECTION REPORT

Project PH-6303

Shoreline Mapping, Clarence Strait &amp; Ernest Sound Alaska

May, 1966

Shoreline Manuscripts T-11982 and T-12363 thru T-12387

The area of the project is along the shores of Clarence Strait and the entrance of Ernest Sound, including Tolstoi Bay and Union Bay.

The area is in a remote section of southeast Alaska, accessible only by ship or airplane.

There are three communities, Meyers Chuck, Thorne Bay and Ratz Harbor. The latter two are logging camps.

The interior areas are covered with a dense growth of coniferous timber, chiefly spruce, hemlock and cedar.

Horizontal control consisted of the photo-identification of the required triangulation stations. New station were established by triangulation or traverse utilizing the electronic distance measuring instruments (Fairchild MC-8 Electrochains).

The shoreline is mostly rocky and irregular. Numerous ledges extend seaward from the rocky headlands and points. The strata formation of many of the ledges are in vertical or incline planes making the ledges quite irregular and jagged. The shoreline of occasional small bights will be of a gravel, stone or boulder composition.

The shoreline was field inspected at landing sites, these locations usually being at the site of triangulation stations. The interpretation of the mean high water line on photography taken at low water can be distinguished in the following manner. Adjacent to the existing water level at the time of photography will be a white area. This is mostly barnacles and similiar marine

life that reflects a white tone. This will appear as a white band paralleling the shoreline. This is followed by a dark, nearly black color tone. This area receives only occasional wave action during storms. This appears on the photography as a dark band adjacent to and next in elevation above the white band of barnacles. Above the dark band will usually be seen a greyish color tone, extending to the tree line. This is composed of grass, lichens and debris on the bedrock. The mean high water line is at the junction of the white barnacle band and the dark band. An example of this can be noted by observing contact photograph 65 L 5129 in the vicinity of the field identification of station OVAL, 1916.

Approved:

*Bruce I. Williams*  
Bruce I. Williams Lt. ESSA

C.O. Ship PATTON

Respectfully submitted

*Robert B. Melby*  
Robert B. Melby

Surveying Technician, C & GS

Photogrammetric Plot Report  
Job PH-6303  
Clarence Strait, Alaska  
Part II - Northern Half

December 3, 1970

21. Area Covered

The area covered is in and around the junction of Ernest Sound and Clarence Strait, Alaska. Included are T-Sheets 11977 thru 11982, 12363 thru 12371, 12374, and 13237 thru 13240, at 1:10,000 scale, in Zone 1, Alaska Plane Coordinates.

22. Method

Seven strips were bridged on the stereoplaniograph and adjusted by I.B.M. 1620 methods. Strip #4 (63-W-7254 thru 7258) was adjusted on three triangulation sub-stations and two tie points from Strip #3 (Part I). Companion sub-stations and additional tie points served as checks. Strip #7 (65-L-5098 thru 5105) was adjusted on four triangulation sub-stations with companion sub-stations and tie points from strip #12 as checks. Strip #8 (65-L-7224 thru 7228) was

23. Adequacy of Control

Horizontal control was adequate and complied with project instructions. All stations held within National Map Accuracy Standards with the following exceptions:

(1) Drag, 1916 SS "C". This position was of poor image quality. In addition, it was allowed to drift by using tie points from Strip #3, as control on Strip #4. This solution provided the best overall fit.

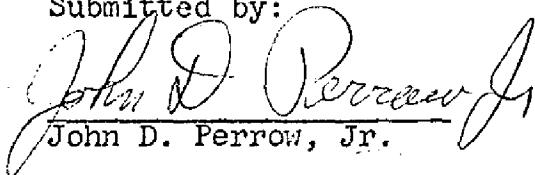
24. Supplemental Data

Local GS quads were used to provide level points for bridging Operations. Due to the nature of the terrain and the scale of the quads, these elevations are very approximate.

25. Photography

Photography was good in coverage, overlap, and definition.

Submitted by:



John D. Perrow, Jr.

Approved by:



Henry P. Eichert  
Chief, Aerotriangulation Section

PROJ...

AL...  
AL...

Notes to Compiler  
PM-6303  
Clarence Strait, Alaska

December 3, 1970

Strip #4 does not fit within itself too well. However, the best overall fit was made so that the strip could be tied to Strip #3 (Part I), which had been compiled at an earlier date.

Strip #8 is positioned too far out over the water to provide more than a quarter of a model in that portion of the strip north of triangulation station Mabel. These small portion models would be extremely difficult to bridge, and equally as difficult to set in a compilation instrument. Therefore, points common to both strips in that area were selected in critical areas to establish ratioing constants for Strip #8, so that those photographs could be used in compiling the alongshore detail by graphic methods.

Just south of the area covered by Strip #9, are a number of islands which could not be covered by bridging operations, due to excessive water areas. These islands are located on T-Sheets 11977 and 11978. Ratio prints of this area were made at a three time enlargement, however, these are uncontrolled, and the exact scale cannot be determined. It is recommended that the islands on these two T-Sheets be located and positioned by the hydrographic survey party.

Strip #11. It is recommended that the area covered by model 63-W-7291 - 7292 be detailed from Strip #6 (Part I), since Strip #6 seems to be the stronger photogrammetric bridge.

Note: The published position of station HASH, 1966, is in error. A new position was provided by Geodesy. The sub-stations for Station OVAL, 1916, could not be seen on the bridging photography.

No photo coverage on the northern part of T-13776 or west of T-13740.  
Points on T-13776 and 13778 must be tied by hand or by base line.

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	T-12369	JOB NO. PH-6303	GEOGRAPHIC DATUM				GEOGRAPHIC POSITION				ORIGINATING ACTIVITY	
			NA 1927		NA 1927		LATITUDE φ		LONGITUDE λ		FORWARD	BACK
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET STATE <u>Alaska</u> ZONE <u>1</u>								REMARKS	
SAL, 1915	pg. 21	55132	$x =$		$\phi$	55 48	λ	132 29	φ	54.401	1682.5	(173.2)
ROSE, 1886	pg. 20	55132	$y =$		λ	132 29	49.896	49.896	λ		868.9	(175.9)
			$x =$		φ	55 48	53.670	53.670	φ		1660.0	(195.7)
			$y =$		λ	132 29	49.296	49.296	λ		858.5	(186.4)
			$x =$		φ				φ			
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SUPERSEDES NOAA FORM 76-41-2-71 EDITION WHICH IS OBSOLETE.

## COMPIILATION REPORT

T-12369

31. DELINEATION:

The Wild B-8 stereoplotter was used to compile this map from the 1963 photography. The photography was of acceptable definition. The stage of tide (11.51) prevented interpretation of the details offshore from the high water line.

32. CONTROL:

See "Photogrammetric Plot Report," dated December 3, 1970.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable. Drainage has been delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line was delineated from office interpretation of the photographs. No low water line has been compiled.

36. OFFSHORE DETAILS:

None.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See Form 76-36B.

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40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

45. COMPARISON WITH OLD SURVEYS:

Not applicable.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with USGS quadrangle Craig (D-2), Alaska, scale 1:63,360 dated 1949, with minor revisions in 1962.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with Chart 8102, scale 1:229,376, 8th edition, dated December 20, 1965.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

*J. Bond /f*  
B. Wilson  
Cartographic Technician  
December 4, 1970

Approved and forwarded:

*J. Bond /f*  
A. C. Rauck, Jr.  
Chief, Coastal Mapping Section

OCT 23 1986 <sup>17</sup>

GEOGRAPHIC NAMES

FINAL NAME SHEET

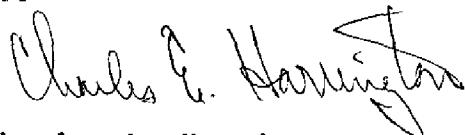
PH-6303 (Clarence Strait, Alaska)

T-12369

Clarence Strait

Prince of Wales Island

Approved:



Charles E. Harrington  
Chief Geographer  
Nautical Charting Division  
Charting and Geodetic Services

REVIEW REPORT  
SHORELINE

T-12369

61. GENERAL STATEMENT:

See Summary included with this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with USGS quadrangle: Craig (D-2) Alaska, scale 1:63,360, dated 1949.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with registered Hydrographic Survey H-9194, scale 1:20,000.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with NOS charts:

17360, 26th edition, dated August 18, 1984, scale 1:217,828; and 17420, 23rd edition, dated March 16, 1985, scale 1:229,376.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the Project Instructions and meets the requirements for National Standards of Map Accuracy.

Submitted by:

*Lowell O. Neterer*  
Lowell O. Neterer, Jr.  
Final Reviewer  
January 5, 1987

**RECORD OF APPLICATION TO CHARTS**

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

## INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.