

T-12387

T-12387

NOAA FORM 76-35
(6-80)

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

DESCRIPTIVE REPORT

THIS MAP WILL NOT BE FIELD EDITED

Map No.	Edition No.
T-12387	1

Job No.

PH-6303

Map Classification

FINAL CLASS III MAP

Type of Survey

SHORELINE

LOCALITY

State

ALASKA

General Locality

CLARENCE STRAIT

Locality

CAAMANO POINT

1963 TO 19

REGISTERED 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-12387</u> MAP EDITION NO. <u>(1)</u> MAP CLASS Final Class III JOB <u>PH-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 Atlantic Marine Center, Norfolk, VA		JOB <u>PH-</u> MAP CLASS _____ SURVEY DATES: <u>19</u> TO <u>19</u>	
OFFICER-IN-CHARGE Jeffrey G. Carlen			
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Aerotriangulation Jan. 9, 1967 Compilation Mar. 20, 1967 Compilation Supplement 1 Nov. 6, 1970 Compilation Supplement 2 Nov. 23, 1970 Compilation Supplement 3 Nov. 5, 1971 Compilation Amendment 1 Dec. 7, 1971		Field 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		P. Hawkins Mar. 1967	
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat PLOTTED BY CHECKED BY		A. Roundtree Feb. 1967 R. Glaser Mar. 1967	
3. STEREOSCOPIC INSTRUMENT COMPILEATION INSTRUMENT: Kelsh SCALE: 1:6,000 PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY		A. Shands Apr. 1967 R. Smith Apr. 1967 N/A N/A	
4. MANUSCRIPT DELINEATION METHOD: Smooth Draft SCALE: 1:10,000 HYDRO SUPPORT DATA BY CHECKED BY CONTOURS BY CHECKED BY		L. Graves Apr. 1967 R. Smith Apr. 1967 N/A N/A L. Graves Apr. 1967 R. Smith Apr. 1967	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		R. Smith Apr. 1967	
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY			
7. COMPILEATION SECTION REVIEW BY		R. Smith Apr. 1967	
8. FINAL REVIEW BY		L. O. Neterer, Jr. Jan. 1988	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		L. O. Neterer, Jr. Jan. 1988	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		P. Dempsey J. Gilligan	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		July 1988	

T-12387

COMPILATION SOURCES

I. COMPILATION PHOTOGRAPHY

CAMERA(S)	TIDE STAGE REFERENCE	TYPES OF PHOTOGRAPHY		TIME REFERENCE
		LEGEND	ZONE	
Wild R.C.-8 "W"	<input type="checkbox"/> PREDICTED TIDES	(C) COLOR <input checked="" type="checkbox"/> (P) PANCHROMATIC	Pacific	<input checked="" type="checkbox"/> STANDARD

T-12387

HISTORY OF FIELD OPERATIONS

I. FIELD INSPECTION OPERATION FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	B. Williams	May 1966
2. HORIZONTAL CONTROL	R. Melby - L. Riggers	Apr. 1966
RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None	
3. VERTICAL CONTROL	R. Melby - L. Riggers	Apr. 1966
RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	N/A	
4. LANDMARKS AND AIDS TO NAVIGATION	L. Riggers	Apr. 1966
RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES 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	N/A

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED Photoidentified	2. VERTICAL CONTROL IDENTIFIED N/A
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PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
63 W 7207	MAN 2, 1929		
63 W 7223	CAAMANO POINT LIGHT, 1962		
63 W 7210	MUG, 1930		
63 W 7223	CAAMANO, 1912		

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
63 W 7223	CAAMANO POINT LIGHT		

5. GEOGRAPHIC NAMES: REPORT NONE6. 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)

7 - Forms 152, 1 - Form 26A, 3 - Forms 6133

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	Apr. 1967	Class III Manuscript	April 28, 1967	April 28, 1967
Final Review	Jan. 1988	Final Class III Map	June 1988	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		Dec. 2, 1977	Aid to be charted

2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: Dec. 2, 19773. 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)

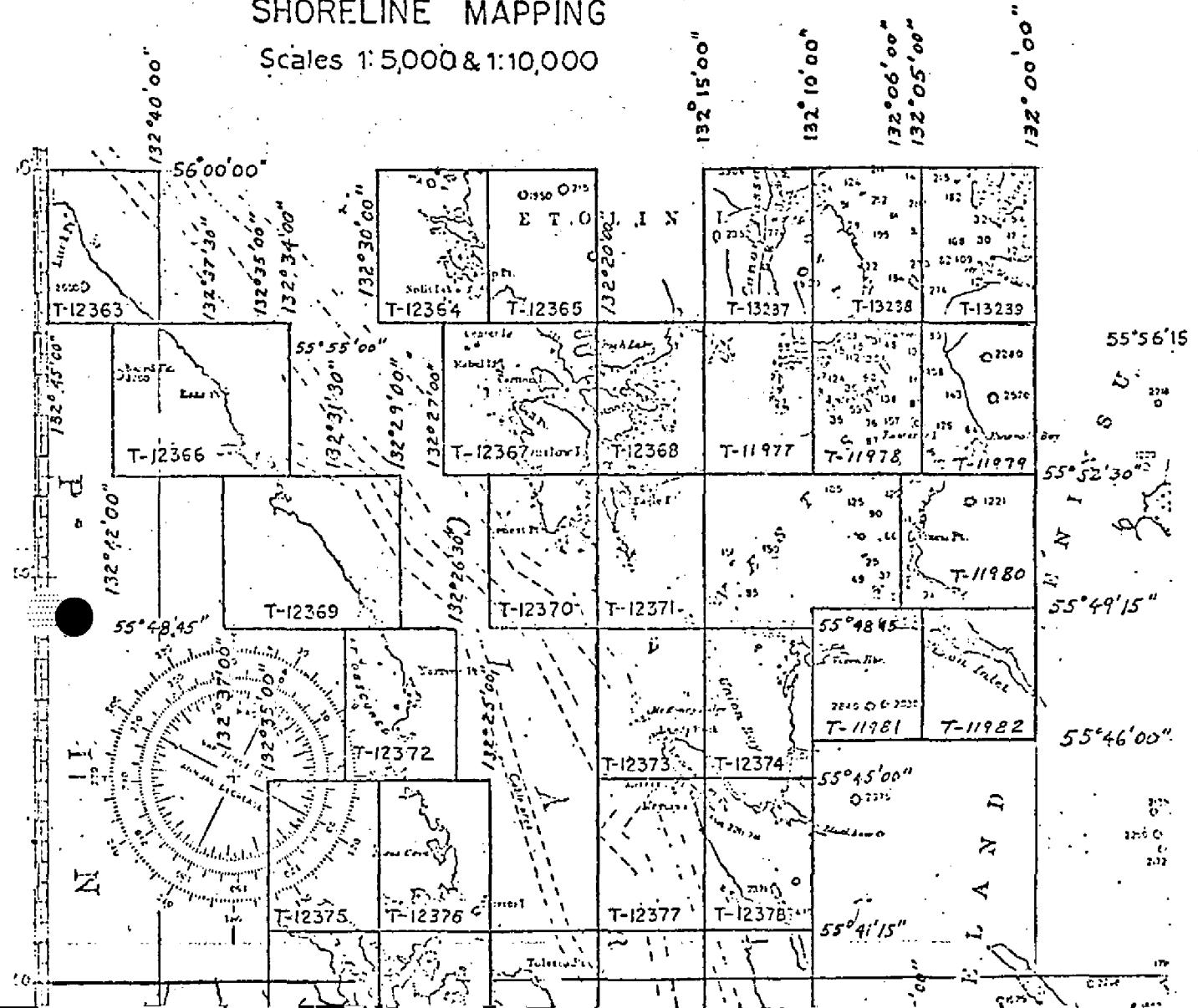
SECOND EDITION	SURVEY NUMBER TP - (2)	JOB NUMBER PH -	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF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

JOB PH-6303

CLARENCE STRAIT
ALASKA
SHORELINE MAPPING

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

REVISED 9/23/76 RWW
REVISED 10/19/86 D.B.
T-13240 CANCELED
REVISED 12/11/86 JDM
T-13381 CANCELED (1976)



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

T-12387

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 the "W" camera (focal length 153.02 millimeters) at 1:30,000 scale using black and white panchromatic film.

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 March 1967.

Compilation was performed at the Atlantic Marine Center during April 1967.

No field edit was accomplished within the limits of this map.

Final review was completed at the Atlantic Marine Center during January 1988.

This Descriptive Report contains all pertinent information used to compile this Final Class III 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 & 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 5029 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 I - Southern Half

March 15, 1967

21. Area Covered

The area covered in this report is along both the east and west shoreline of Clarence Strait, Alaska. Included are all, or part, of T-sheets 12372 thru 12387, at 1:10,000 scale.

22. Method

Five strips were bridged on the stereoplaniograph and adjusted by the IBM 1620 methods. Strip #1 (63-W-7205 thru 7211) was adjusted on three control stations with tie points from Strip #2 as checks. Strip #2 (63-W-7223 thru 7233) was adjusted on four control stations using tie points from Strip #1 and #3 as checks. Strip #3 (63-W-7240 thru 7250), was adjusted on four control stations with tie points from Strip #2 as checks. Strip #5 (63-W-7262 thru 7271) was adjusted on four control stations with tie points from Strip #6 as checks. Strip #6 (63-W-7275 thru 7285) was adjusted on four control stations with tie points from Strip #6 as checks.

All plates were drilled on the PUG. All tie points between strips were averaged.

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) MAN 2, HUB A (temp.) 1930, SS "A", SS "B", SS "C"

None of the three substations could be held in either Strip #1 or #2. Since the field report stated, "instrument #307 giving erratic readings," plus the fact that two positions could be computed for any of the substations (depending on which azimuth station was used) the entire station was dropped from both strips.

(2) JAY 1924, SS "C" Strip #2)

This substation could not be seen clearly in Strip #1 due to overhang. It was held in Strip #2, but was dropped from Strip #1.

(3) NIBLACK 1915, SS "A" (Strip #2)

This substation could not be seen clearly. Since SS "B" and SS "C" held together in the bridge, SS "A" was dropped from the strip.

(4) LEM 1916, SS "B" (Strip #3)

This substation was of very poor quality and was dropped from the bridge. Substation "A" and SS "C" held in the bridge.

(5) THOR 1966, SS "B" (Strip #5)

This substation was of very poor image point and could not be held in the bridge.

(6) JERK 1966, SS "B" (Strip #5)

This substation was of very poor image quality and was dropped from the bridge.

(7) NAR 1915, SS "B" (Strip #6)

This substation was of poor image quality and was dropped from the bridge.

In general, the photo quality of most of the substations was very poor. It is realized that the field was working in a very difficult area and fortunately provided three substations for most control stations. For this reason the above were dropped from the bridge with no fear of detracting from the overall accuracy.

25. Photography

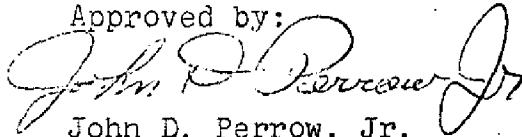
Photography was adequate as to coverage, overlap and definition.

Submitted by:



Paul Hawkins

Approved by:



John D. Perrow, Jr.

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	PH-6303	GEODETIC DATUM		ORIGINATING ACTIVITY		Coastal Mapping Division, AMC, Norfolk, VA
			SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET	GEOGRAPHIC POSITION	
STATION NAME	STATE	ZONE	φ LATITUDE	λ LONGITUDE	REMARKS		
CAAMANO, 1912 ✓	G.P. ✓ Vol. 3 ✓ Pg. 984 ✓	X=	φ 55° 29'	55.124" ✓			
	G.P. ✓ Vol. 2 ✓ Pg. 653 ✓	Y=	λ 131° 58'	55.186" ✓			
BOND, 1930 ✓	G.P. ✓ Vol. 2 ✓ Pg. 654 ✓	X=	φ 55° 31'	35.700" ✓			
	G.P. ✓ Vol. 2 ✓ Pg. 602 ✓	Y=	λ 131° 56'	32.432" ✓			
GUM, 1930		X=	φ 55° 33'	45.830" ✓			
		Y=	λ 131° 56'	18.068" ✓			
MAN 2, 1929		X=	φ 55° 30'	12.879" ✓			
		Y=	λ 131° 57'	17.148" ✓			
		X=	φ				
		Y=	λ				
		X=	φ				
		Y=	λ				
		X=	φ				
		Y=	λ				
		X=	φ				
		Y=	λ				
COMPUTED BY A. C. Rauck, Jr. ✓	DATE 4/17/67 ✓	COMPUTATION CHECKED BY L. L. Graves ✓	DATE 4/17/67 ✓				
LISTED BY	DATE	LISTING CHECKED BY	DATE				
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE				

COMPILED REPORT

T-12387

31. DELINEATION:

The mean high water line and foreshore details were compiled using the KELSH plotter with 1:30,000 scale photography. There was no field inspection prior to compilation.

32. CONTROL:

See Photogrammetric Plot Report, dated March 15, 1967.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable. Drainage was delineated from photo interpretation.

35. SHORELINE AND ALONGSHORE DETAILS:

Shoreline and alongshore details were compiled from office interpretation of the photographs.

36. OFFSHORE DETAILS:

Offshore rocks and small islands were compiled from office interpretation of the photographs.

37. LANDMARKS AND AIDS:

Caamano Point Light, a triangulation station, was located on this manuscript. There are no landmarks.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See Form 76-36B, Item 5, included with this report.

T-12387

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with USGS quadrangles KETCHIKAN (B-6), Alaska, scale 1:63,360, dated 1954 and KETCHIKAN (C-6), Alaska, scale 1:63,360, dated 1952.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 8079, scale 1:79,334, 1st edition, revised April 1, 1963.

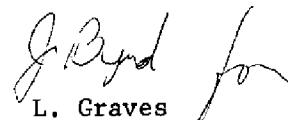
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

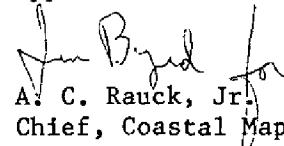
ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:


L. Graves
Cartographic Technician
April, 1967

Approved and forwarded:


A. C. Rauck, Jr.
Chief, Coastal Mapping Section

OCT 23 1984

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6303 (Clarence Strait, Alaska)

T-12387

Behm Cnaal

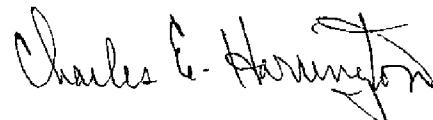
Bond Bay

Caamano Point

Clarence Strait

Cleveland Peninsula

Approved:



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

REVIEW REPORT
SHORELINE

T-12387

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 Quadrangles: KETCHIKAN (B-6), Alaska, dated 1954 and KETCHIKAN (C-6), Alaska, dated 1952, both are 1:63,360 scale.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

There is no contemporary hydrographic survey covering this map.

65. COMPARISON WITH NAUTICAL CHARTS:

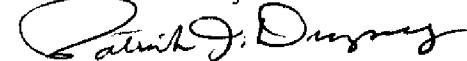
A comparison was made with the following N.O.S. charts:

17420, 23rd edition, dated March 16, 1985, scale 1:229,376 and 17422, 6th edition, dated August 15, 1981, scale 1:79,334.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

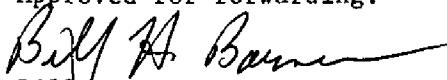
This map complies with the Project Instructions and meets the requirements for National Standards of Map Accuracy.

Submitted by:



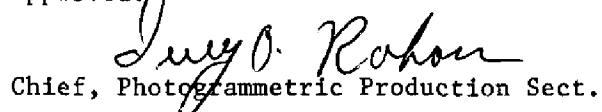
For: Lowell O. Neterer, Jr.
Final Reviewer
January 22, 1988

Approved for forwarding:

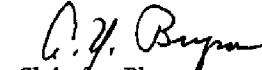


Billy H. Barnes
Chief, Quality Assurance Group, AMC

Approved:



Chief, Photogrammetric Production Sect.


G. Y. Bryan
Chief, Photogrammetry Branch
Rockville

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.
1. Letter all information.

1. Enter all information.
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.