

T-12385

T-12385

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. T-12385	Edition No. 1
Job No. PH-6303	
Map Classification FINAL FIELD EDITED MAP	
Type of Survey SHORELINE	
LOCALITY	
State ALASKA	
General Locality CLARENCE STRAIT	
Locality NIBLACK POINT	
1963 TO 1969	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
DESCRIPTIVE REPORT - DATA RECORD		TYPE OF SURVEY ☒ ORIGINAL ☐ RESURVEY ☐ REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Atlantic Marine Center, Norfolk, VA		SURVEY TP. <u>12385</u> MAP EDITION NO. (1) MAP CLASS Final JOB PH. <u>6303</u>	
OFFICER-IN-CHARGE Jeffrey G. Carlen		LAST PRECEDING MAP EDITION TYPE OF SURVEY ☐ ORIGINAL ☐ RESURVEY ☐ REVISED JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	

I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Aerotriangulation Compilation Compilation Supplement 1 Compilation Supplement 2 Compilation Supplement 3 Compilation Amendment 1	Jan. 9, 1967 March 20, 1967 Nov. 6, 1970 Nov. 23, 1970 Nov. 5, 1971 Dec. 7, 1971	Field	Feb. 10, 1966

II. DATUMS			
1. HORIZONTAL: ☒ 1927 NORTH AMERICAN		OTHER (Specify)	
2. VERTICAL: ☒ MEAN HIGH-WATER ☐ MEAN LOW-WATER ☐ MEAN LOWER LOW-WATER ☐ 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 BY METHOD: Stereoplanigraph LANDMARKS AND AIDS BY	P. Hawkins	Mar. 1967	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY	A. Roundtree	Feb. 1967	
	R. Glaser	Mar. 1967	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY	A. Shands	Apr. 1967	
	R. Smith	Apr. 1967	
INSTRUMENT: Kelsh and Graphic SCALE: 1:6,000	N/A		
	N/A		
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY	R. Smith	Apr. 1967	
	R. Pate	Apr. 1967	
METHOD: Smooth Drafted SCALE: 1:10,000	N/A		
	N/A		
HYDRO SUPPORT DATA BY CHECKED BY	R. Smith	Apr. 1967	
	R. Pate	Apr. 1967	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	R. Pate	Apr. 1967	
6. APPLICATION OF FIELD EDIT DATA BY	R. Pate	Nov. 1970	
	J. Bulfer	May 1972	
7. COMPILATION SECTION REVIEW BY	J. Bulfer	May 1972	
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	Jun, 1988	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	J. Bulfer	July 1988	

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COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild R.C.-8 "W"		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR X (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE ZONE Pacific MERIDIAN 120th		☒ STANDARD ☐ DAYLIGHT
TIDE STAGE REFERENCE ☒ PREDICTED TIDES ☐ REFERENCE STATION RECORDS ☐ TIDE CONTROLLED PHOTOGRAPHY						
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE		
63 W 7228-7229	July 2, 1963	10:30	1:30,000	11.2 ft. above MLLW		
63 W 7585-7588	July 2, 1963	15:02	1:15,000	5.6 ft. above MLLW		

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

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

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

None compiled.

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	EAST	SOUTH	WEST
T-12384	T-12386	T-10698*	T-12386

REMARKS

*This map is part of Project PH-148.

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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		RECOVERED BY		R. Melby		Apr. 1966	
		ESTABLISHED BY		None			
		PRE-MARKED OR IDENTIFIED BY		R. Melby		Apr. 1966	
3. VERTICAL CONTROL		RECOVERED BY		N/A			
		ESTABLISHED BY		N/A			
		PRE-MARKED OR IDENTIFIED BY		N/A			
4. LANDMARKS AND AIDS TO NAVIGATION		RECOVERED (Triangulation Stations) BY		None			
		LOCATED (Field Methods) BY		None			
		IDENTIFIED BY		None			
5. GEOGRAPHIC NAMES INVESTIGATION		TYPE OF INVESTIGATION					
		☐ COMPLETE					
		☐ SPECIFIC NAMES ONLY					
		☒ NO INVESTIGATION					
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				2. VERTICAL CONTROL IDENTIFIED			
Photoidentified				N/A			
PHOTO NUMBER	STATION NAME			PHOTO NUMBER	STATION DESIGNATION		
63 W 7229	Niblack, 1915						
63 W 7227	Pen, 1915						
3. PHOTO NUMBERS (Clarification of details)							
None							
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)							
4 - Forms 152.							

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HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. Watkins	Oct. 1969
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	A. Divis None None
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	N/A N/A N/A
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 ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION BY	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	A. Divis
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N/A

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

N/A

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

63 W 7228

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

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)

1 - Field Edit Ozalid and Field Edit Report.

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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	Apr. 28, 1967	July 30, 1968
Field edit applied compilation complete	Nov. 1970	Class I Manuscript		
Final Review	Jan. 1988	Final Field Edited 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~~ 76-40 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:

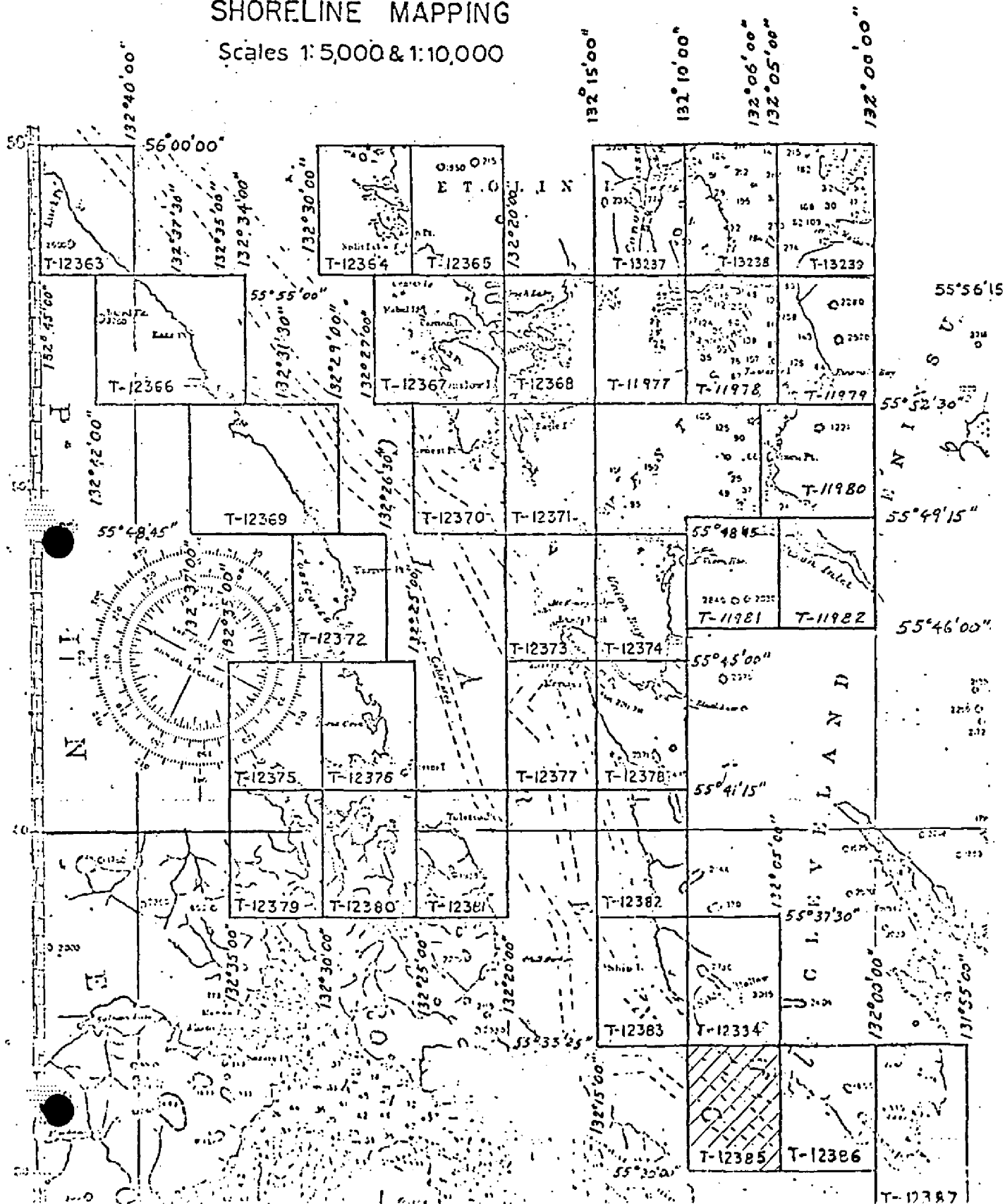
4. ☐ DATA TO FEDERAL RECORDS CENTER, DATE FORWARDED: _____

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 ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

JOB PH-6303
CLARENCE STRAIT
ALASKA
SHORELINE MAPPING
Scales 1:5,000 & 1:10,000

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



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

T-12385

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 1:15,000 and 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.

Field edit was accomplished during October 1969.

Application of field edit and advancing this map to Class I status was achieved in May 1972.

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

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 & 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 stations 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 similar 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 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 stereoplanigraph 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)

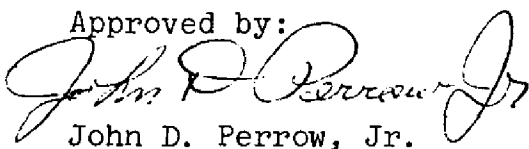
This substation was of poor image quality and was dropped from the bridge.

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.

Approved by:


John D. Perrow, Jr.

Submitted by:


Paul Hawkins

DESCRIPTIVE REPORT CONTROL RECORD

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

MAP NO.	T-12385	JOB NO.	PH-6303	GEODETIC DATUM NA 1927	ORIGINATING ACTIVITY Coastal Mapping Division, AMC Norfolk, Virginia 23510	
STATION NAME		SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET STATE ZONE	GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE	REMARKS
PEN, 1915		G.P. Vol. 3 Pg. 984		X=	ϕ 55 32' 19.607"	606.4 1249.2
				Y=	λ 132 05' 05.548"	97.3 955.0
		G.P. Vol. 1 Pg. 119		X=	ϕ 55 33' 02.079"	64.3 1791.3
NIRLACK, 1915				Y=	λ 132 07' 08.172	143.3 908.7
				X=	ϕ	
				Y=	λ	
				X=	ϕ	
				Y=	λ	
				X=	ϕ	
				Y=	λ	
				X=	ϕ	
				Y=	λ	
				X=	ϕ	
				Y=	λ	
				X=	ϕ	
				Y=	λ	
				X=	ϕ	
				Y=	λ	
				X=	ϕ	
				Y=	λ	
COMPUTED BY	A. C. Rauck,		DATE 4/17/67	COMPUTATION CHECKED BY		DATE
LISTED BY			DATE	LISTING CHECKED BY		DATE
HAND PLOTTING BY			DATE	HAND PLOTTING CHECKED BY		DATE

COMPILATION REPORT

T-12385

31. DELINEATION:

The mean high water line and foreshore details were compiled on the KELSH plotter using 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 were compiled from office interpretation of the photographs.

37. LANDMARKS AND AIDS:

One form 76-40 for an aid to navigation was forwarded to the Rockville, MD office on November 29, 1977.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

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

T-12385

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with USGS quadrangle CRAIG (C-1), Alaska, scale 1:63,360, dated 1951.

47. COMPARISON WITH NAUTICAL CHARTS:

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

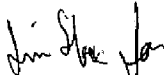
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

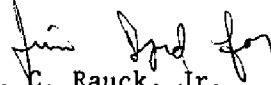
ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:


R. J. Pate
Cartographic Technician
May 1970

Approved and forwarded:


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

OCT 23 1986

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6303 (Clarence Strait, Alaska)

T-12385

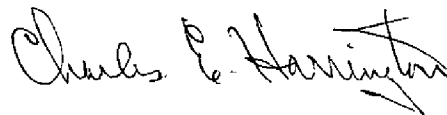
Clarence Strait

Cleveland Peninsula

Niblack Point

Pen Point

Approved:

A handwritten signature in cursive script, reading "Charles E. Harrington". The signature is written in dark ink and is positioned above the printed name and title.

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

REVIEW REPORT
SHORELINE

T-12385

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 U.S.G.S. Quadrangle: CRAIG (C-1), Alaska, scale 1:63,360, dated 1951.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with Hydrographic Survey H-9062, 1:20,000 scale.

65. COMPARISON WITH NAUTICAL CHARTS:

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

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, Jr.
Lowell O. Neterer, Jr.
Final Reviewer
January 11, 1988

Approved for forwarding:

Billy H. Barnes
Billy H. Barnes
Chief, Quality Assurance Group, AMC

Approved:

Lucy O. Robson
Chief, Photogrammetric Production Sect.

A. Y. Bryan
Chief, Photogrammetry Branch
Rockville

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

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

1. Letter 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.

[illegible]