

TP-00438

TP-00438

NOAA FORM 76-35 (3-76) U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
<h1>DESCRIPTIVE REPORT</h1>	
<i>Map No.</i> TP-00438	<i>Edition No.</i> 1
<i>Job No.</i> CM-7309	
<i>Map Classification</i> FINAL, FIELD EDITED MAP	
<i>Type of Survey</i> SHORELINE	
<b>LOCALITY</b>	
<i>State</i> ALASKA	
<i>General Locality</i> WRANGELL NARROWS	
<i>Locality</i> MOUNTAIN POINT to ROCK POINT	
<div style="border: 1px solid black; padding: 5px; display: inline-block;">           1974 TO 1978         </div>	
<b>REGISTRY IN ARCHIVES</b>	
<b>DATE</b>	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.					
<b>DESCRIPTIVE REPORT - DATA RECORD</b>		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">           TYPE OF SURVEY  <input checked="" type="checkbox"/> ORIGINAL  <input type="checkbox"/> RESURVEY  <input type="checkbox"/> REVISED         </td> <td style="width:50%;">           SURVEY TP. <u>00438</u>             MAP EDITION NO. <u>(1)</u>             MAP CLASS _____             JOB <u>PHX CM-7309</u> </td> </tr> </table>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP. <u>00438</u>  MAP EDITION NO. <u>(1)</u>  MAP CLASS _____  JOB <u>PHX CM-7309</u>		
TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP. <u>00438</u>  MAP EDITION NO. <u>(1)</u>  MAP CLASS _____  JOB <u>PHX CM-7309</u>						
PHOTOGRAMMETRIC OFFICE  Coastal Mapping Div., Rockville, Maryland		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"> <b>LAST PRECEDING MAP EDITION</b> </td> </tr> <tr> <td style="width:50%;">           TYPE OF SURVEY  <input type="checkbox"/> ORIGINAL  <input type="checkbox"/> RESURVEY  <input type="checkbox"/> REVISED         </td> <td style="width:50%;">           JOB <u>PH</u>            MAP CLASS _____            SURVEY DATES:            19__ TO 19__         </td> </tr> </table>		<b>LAST PRECEDING MAP EDITION</b>		TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB <u>PH</u> MAP CLASS _____ SURVEY DATES: 19__ TO 19__
<b>LAST PRECEDING MAP EDITION</b>							
TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB <u>PH</u> MAP CLASS _____ SURVEY DATES: 19__ TO 19__						
OFFICER-IN-CHARGE  Commander James Collins							
<b>I. INSTRUCTIONS DATED</b>							
<b>1. OFFICE</b>		<b>2. FIELD</b>					
October 20, 1976      Aerotriangulation April 1, 1977        Compilation May 12, 1977        Amendment I		May 18, 1973        Premarking April 15, 1974      Amendment I June 4, 1975        Additional Control					
<b>II. DATUMS</b>							
<b>1. HORIZONTAL:</b> <input checked="" type="checkbox"/> 1927 NORTH-AMERICAN		OTHER (Specify) _____					
<b>2. VERTICAL:</b> <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) _____					
<b>3. MAP PROJECTION</b>  Oblique Mercator		<b>4. GRID(S)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">STATE <u>Alaska</u></td> <td style="width:50%;">ZONE <u>1</u></td> </tr> <tr> <td>STATE _____</td> <td>ZONE _____</td> </tr> </table>		STATE <u>Alaska</u>	ZONE <u>1</u>	STATE _____	ZONE _____
STATE <u>Alaska</u>	ZONE <u>1</u>						
STATE _____	ZONE _____						
<b>5. SCALE</b> 1:10,000							
<b>III. HISTORY OF OFFICE OPERATIONS</b>							
<b>OPERATIONS</b>		<b>NAME</b>	<b>DATE</b>				
<b>1. AEROTRIANGULATION</b> BY <u>R. Kelly</u> METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY <u>R. Kelly</u>			<u>April 1977</u>				
<b>2. CONTROL AND BRIDGE POINTS</b> PLOTTED BY <u>S. Solbeck</u> METHOD: <u>Coradomat</u> CHECKED BY <u>S. Solbeck</u>			<u>April 1977</u>				
<b>3. STEREOSCOPIC INSTRUMENT</b> PLANIMETRY BY <u>R. Rich</u> COMPILATION      CHECKED BY <u>J. Battley, Jr.</u> INSTRUMENT: <u>Wild B-8</u> CONTOURS BY <u>N.A.</u> SCALE: <u>1:15,000</u> CHECKED BY <u>N.A.</u>			<u>July 1977</u> <u>July 1977</u>				
<b>4. MANUSCRIPT DELINEATION</b> PLANIMETRY BY <u>R. Rich</u> CHECKED BY <u>J. Battley, Jr.</u> METHOD: <u>Smooth drafted</u> CONTOURS BY <u>N.A.</u> CHECKED BY <u>N.A.</u> SCALE: <u>1:10,000</u> HYDRO SUPPORT DATA BY <u>R. Rich</u> CHECKED BY <u>J. Battley, Jr.</u>			<u>July 1977</u> <u>July 1977</u> <u>July 1977</u>				
<b>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</b> BY <u>J. Battley, Jr.</u>			<u>July 1977</u>				
<b>6. APPLICATION OF FIELD EDIT DATA</b> BY <u>J. Minton</u> CHECKED BY <u>J. Massey</u>			<u>Aug. 1979</u> <u>Dec. 1979</u>				
<b>7. COMPILATION SECTION REVIEW</b> BY <u>J. Massey</u>			<u>Dec. 1979</u>				
<b>8. FINAL REVIEW</b> BY <u>J. Hancock</u>			<u>Apr. 1981</u>				
<b>9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH</b> BY <u>J. Hancock</u>			<u>Apr. 1981</u>				
<b>10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH</b> BY <u>R. Kelly</u>			<u>May 1981</u>				
<b>11. MAP REGISTERED - COASTAL SURVEY SECTION</b> BY <u>J. W. Minton</u>			<u>OOT 1981</u>				



ESSA FORM 76-36c  
(2-70)U.S. DEPARTMENT OF COMMERCE  
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION  
COAST AND GEODETIC SURVEY

TP-00438

## HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. B. Melby	July 1975
2. HORIZONTAL CONTROL	RECOVERED BY R. B. Melby	July 1975
	ESTABLISHED BY R. B. Melby	July 1975
	PRE-MARKED OR IDENTIFIED BY R. B. Melby	July 1975
3. VERTICAL CONTROL	RECOVERED BY None	
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY R. B. Melby	July 1975
	LOCATED (Field Methods) BY R. B. Melby	July 1975
	IDENTIFIED BY R. B. Melby	July 1975
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
74C(C)0590	Wrangell Narrows Channel Light 38, 1975 Wrangell Narrows Channel Light 40, 1975		

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
74C(C)0590	Wrangell Narrows Channel Light 38, 1975 Wrangell Narrows Channel Light 40, 1975		

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)

Two forms 152, Control Station Identification Cards

NOAA FORM 76-36C  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

TP-00438

## HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	C. W. Hayes	Sept. 1978
2. HORIZONTAL CONTROL	RECOVERED BY L. A. Haas	Sept. 1978
	ESTABLISHED BY L. A. Haas	Sept. 1978
	PRE-MARKED OR IDENTIFIED BY None	
3. VERTICAL CONTROL	RECOVERED BY None	
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY L. A. Haas	Sept. 1978
	LOCATED (Field Methods) BY L. A. Haas	Sept. 1978
	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	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY T. Peasley	Sept. 1978
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY None	

## 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)  
740(C)570, 572 and 578

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 and duplicate  
Sounding Volume containing fix data  
Ozolid copies bearing field annotations ( one paper and one film)

NOAA FORM 76-36D  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONTP-00438  
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	July 1977	Class III manuscript	None	June 1978
Field edit applied	August 1979	Class I manuscript	8/6/80	Dec. 1979
Final Review	April 1981	Final Map	Apr. 1981	Apr. 1981

## II. LANDMARKS AND AIDS TO NAVIGATION

## 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		8/6/80	Form 76-40 for ten Aids to be charted

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: Apr. 19813. ☐ 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	



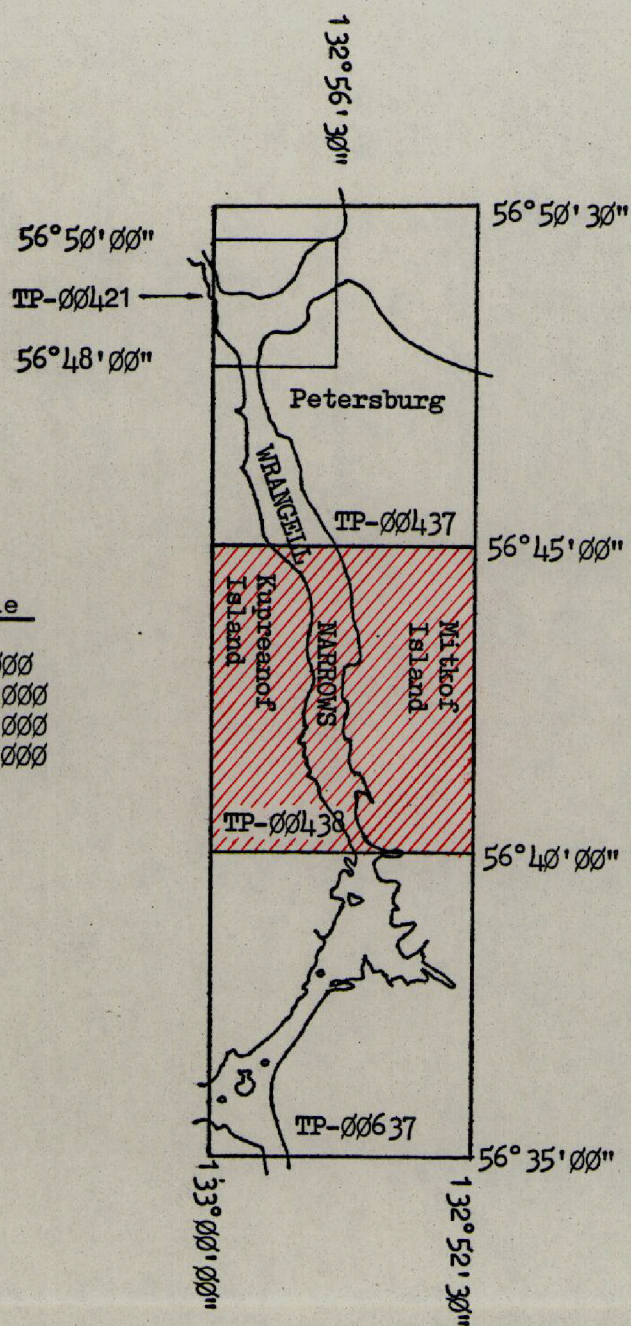
## WRANGELL NARROWS, ALASKA

CM - 7309

TP-00438

Manuscript Scale

TP-00421 1:5,000  
 TP-00427<sub>3</sub> 1:10,000  
 TP-00428<sub>3</sub> 1:10,000  
 TP-00637 1:10,000



## SUMMARY TO ACCOMPANY

## DESCRIPTIVE REPORTS

TP-00438

This 1:10,000 shoreline is one of four final maps that comprise Project CM-7309, Wrangell Narrows, Alaska. The project limits begin at No Thorofare Pt. on Woewodski Island and extends North through Wrangell Narrows up to Fredrick Sound.

The purpose of this map was to provide contemporary shoreline data for the support of hydrographic operations and to furnish data for nautical chart revision.

The contemporary hydrographic survey, assigned as a Navigable Area Survey, was accomplished by the NOAA Ship Davidson in accordance with OPR-325-DA-78. Verified smoothsheets H-9795 and H-9792 were compared with this map during final review. Refer to the Review Report item #64.

Field work prior to compilation was accomplished in May 1974; this involved the premarking of ground stations for horizontal control. However, after the photography was flown it was discovered that areotriangulation requirements could not be met due to insufficient data. Additional horizontal control was field determined in June 1975 by photo identification methods.

Photo coverage for compilation and aerotriangulation was flown in July 1974 with the "C" camera at scales 1:15,000, 1:30,000 and 1:40,000 with color photography. The photography was taken over a period of several days at various tide stages. Low water photography was not assigned.

Analytic aerotriangulation was adequately provided by the Washington Science Center in April 1977.

Compilation was originally assigned to the Atlantic Marine Center in April 1977. Control problems were encountered during compilation and the project was returned to aerotriangulation for further analysis. Afterwards, the project was assigned to the Coastal Mapping Section at the Washington Science Center and compilation was accomplished in July 1977.

The field edit operation was assigned to NOAA Ship Davidson and was accomplished in Sept. 1978 in accordance with OPR-325-DA-78.

Field edit data was applied in Dec. 1979 by the Photogrammetric Branch at the Pacific Marine Center.



TP-00438

Final review was performed at the Atlantic Marine Center in April 1981. An explanatory note concerning the mapped shallow limits was added to the legend for clarification that these photogrammetric limits were intended only to assist the hydrographer and field editor. These limits were retained on the final map because the hydrographic smoothsheets reflect the field editors terminology of specific foul areas within the shallow limits.

According to the Tides and Water Levels Division, the tide gage requirements for OPR-325-DA-78 were not met during the 1978 field edit operations. Consequently, rock height determinations were referenced from predicted tide data.

The original base manuscript and all pertinent data was forwarded to the Washington Science Center for final registration.

Field Inspection Report, TP-00438

Field inspection was limited to the recovery and identification of control for aerotriangulation purposes.

Photogrammetric Plot Report  
Wrangell Narrows, Alaska  
Job CM-7309

April 18, 1977

21. Area Covered

This report covers Wrangell Narrows from December Point to Beacon Point, Alaska.

22. Method

Six strips of photography were bridged by analytic aerotriangulation methods and adjusted to ground on the Alaska State Plane Coordinate System Alaska Zone 1. One strip of 1:40,000 photography was bridged to establish control for the bridging of 4 strips of 1:30,000 and 1 strip of 1:15,000 scale photography. The 1:15,000 and 1:30,000 scale photography was bridged to locate aids to navigation. Ratio points were drilled and measured on 1:15,000 and 1:30,000 scale photography. Ratio prints of the bridging photography were ordered, one each on matte paper. The bridging points will provide model points for B-8 compilation. Ruling of manuscripts and plotting of points were done on the Coradomat.

23. Adequacy of Control

All control was adequate and held within the accuracy required by National Standards of Map Accuracy at 1:5,000 and 1:10,000 scale.

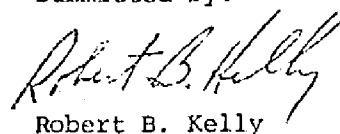
24. Supplemental Data

Local shoreline and U.S. Geological Survey quadrangles were used to provide elevations for vertical adjustments of bridges.

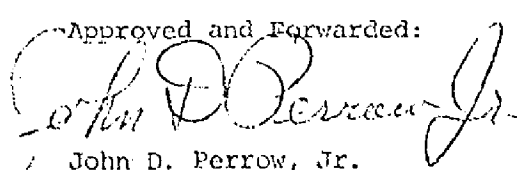
25. Photography

RC-8 color positives were adequate as to coverage, overlay, and definition.

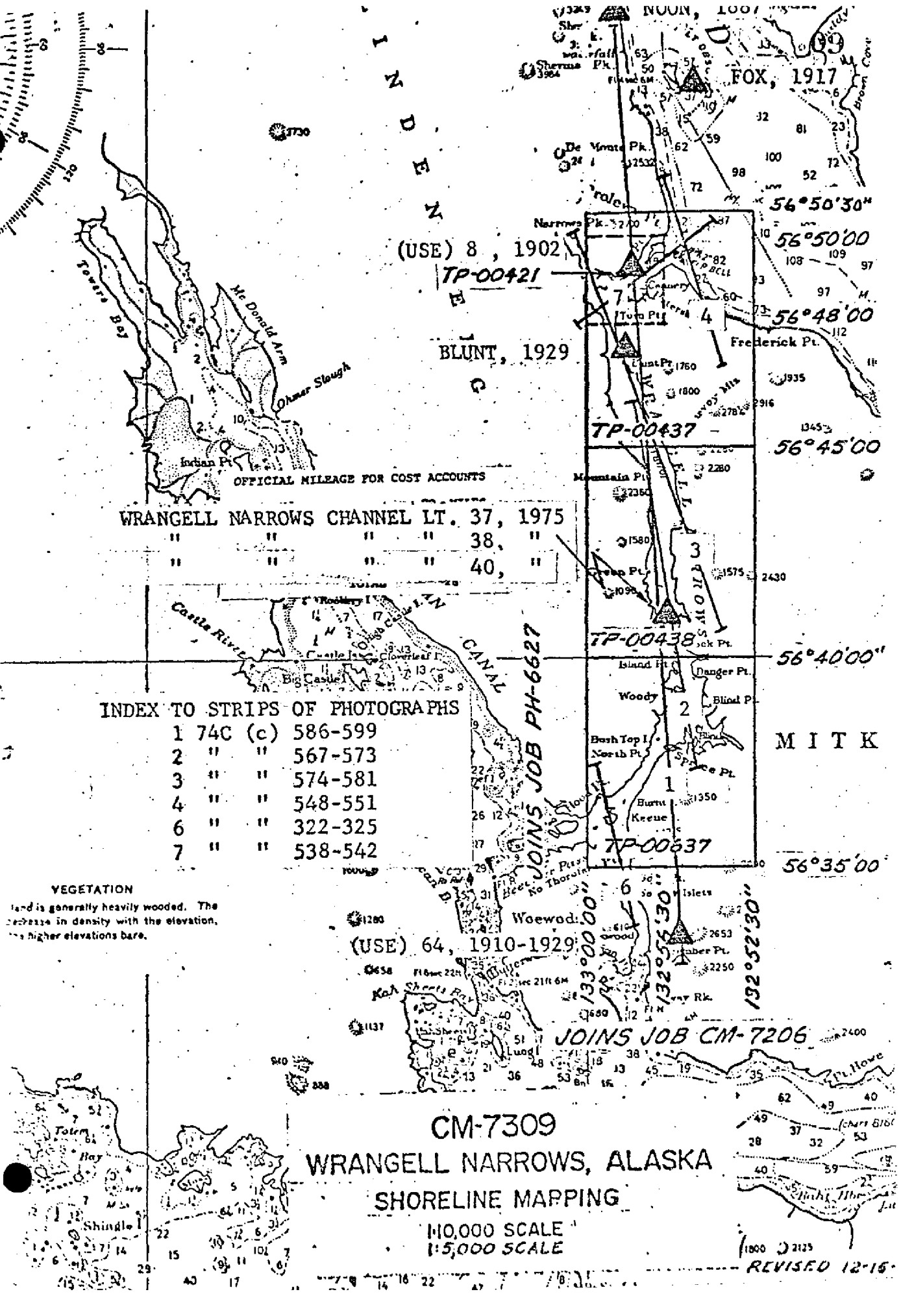
Submitted by:

  
Robert B. Kelly

Approved and Forwarded:

  
John D. Perrow, Jr.

Chief, Aerotriangulation Section



(USE) 8, 1902

TP-00421

BLUNT, 1929

WRANGELL NARROWS CHANNEL LT. 37, 1975

INDEX TO STRIPS OF PHOTOGRAPHS

1	74C (c)	586-599
2	"	" 567-573
3	"	" 574-581
4	"	" 548-551
6	"	" 322-325
7	"	" 538-542

VEGETATION

land is generally heavily wooded. The decrease in density with the elevation, the higher elevations bare.

(USE) 64, 1910-1929

JOINS JOB CM-7206

CM-7309  
WRANGELL NARROWS, ALASKA  
SHORELINE MAPPING

10,000 SCALE  
1:5,000 SCALE

REVISED 12-15

## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	GEODETTIC DATUM		ORIGINATING ACTIVITY	
			North American 1927	North American 1927	P.M.C. Photogrammetric Branch	
TP-00438		CM-7309	COORDINATES IN FEET	STATE	ZONE	REMARKS
				ALASKA	1	
			AEROTRI- ANGULATION POINT NUMBER			
MOUNTAIN POINT LIGHT, 1978	Unadjusted Field Pos.					
USE 22, 1902	561324		37			586.3m (1269.6m) 356.7m (663.3m)
USE 24, 1902	561324					850.0m (1005.9m) 500.3m (519.6m)
USE 25, 1902	561324					1540.8m (315.1m) 213.5m (806.7m)
USE 28, 1902	561324		39			1649.6m (206.3m) 71.9m (948.3m)
USE 30, 1902	561324					42.6m (1813.3m) 230.2m (790.8m)
USE 32, 1902	561324					253.3m (1602.6m) 971.8m (49.6m)
USE 33, 1902	561324					1446.8m (409.1m) 551.8m (469.8m)
USE 34, 1902	561324					674.7m (1181.2m) 99.5m (921.8m)
WRANGELL NARROWS CHANNEL LIGHT 38, 1975	561324		590102			246.3m (1609.6m) 118.3m (903.6m)
COMPUTED BY	J. R. Minton		DATE	J. W. Massey		
LISTED BY	J. R. Minton		DATE	J. W. Massey		
HAND PLOTTING BY	J. R. Minton		DATE	J. W. Massey		

## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.		JOB NO.		GEODETIC DATUM		ORIGINATING ACTIVITY	
STATION NAME		SOURCE OF INFORMATION (Index)		AEROTRIANGULATION POINT NUMBER		North American 1927	
						P.M.C. Photogrammetric Br.	
						COORDINATES IN FEET	
						STATE Alaska	
						ZONE 1	
						φ LATITUDE	
						λ LONGITUDE	
						REMARKS	
TP-00438	WRANGELL NARROWS CHANNEL DAYBEACON 39, 1975	561 324	590104	x= 2,833,212.87 y= 1,766,984.67	φ 56° 40' 07.549" λ 132° 55' 58.737"	233.5m (1622.4m) 1000.3m ( 21.5m)	
	WRANGELL NARROWS CHANNEL LIGHT 40, 1975	561 324	590103	x= 2,833,216.39 y= 1,767,928.06	φ 56° 40' 16.845" λ 132° 55' 58.493"	521.0m (1334.9m) 996.1m ( 25.7m)	
	WRANGELL NARROWS CHANNEL LIGHT 43, 1978	Unadjusted Field Pos.		x= y=	φ 56° 41' 01.461" λ 132° 56' 37.613"	45.2m (1810.7m) 640.4m ( 381.1m)	
	WRANGELL NARROWS CHANNEL LIGHT 44, 1978	Unadjusted Field Pos.		x= y=	φ 56° 41' 05.190" λ 132° 56' 32.326"	169.8m (1686.1m) 550.3m ( 471.2m)	
	WRANGELL NARROWS CHANNEL LIGHT 47, 1978	Unadjusted Field Pos.		x= y=	φ 56° 41' 33.248" λ 132° 57' 01.718"	1028.4m ( 827.5m) 29.2m ( 992.0m)	
	WRANGELL NARROWS CHANNEL LIGHT 48, 1978	Unadjusted Field Pos.		x= y=	φ 56° 41' 42.380" λ 132° 56' 55.452"	1310.9m ( 545.0m) 943.8m ( 77.3m)	
	WRANGELL NARROWS CHANNEL LIGHT 49, 1978	Unadjusted Field Pos.		x= y=	φ 56° 42' 07.962" λ 132° 56' 56.668"	246.3m (1609.6m) 964.3m ( 56.6m)	
	WRANGELL NARROWS CHANNEL LIGHT 50, 1978	Unadjusted Field Pos.		x= y=	φ 56° 42' 17.619" λ 132° 56' 47.206"	545.0m (1310.9m) 803.2m ( 217.7m)	
				x= y=	φ λ		
				x= y=	φ λ		
				x= y=	φ λ		
COMPUTED BY	J. R. Minton	DATE 08/15/79		COMPUTATION CHECKED BY		J. W. Massey	
LISTED BY	J. R. Minton	DATE 08/15/79		LISTING CHECKED BY		J. W. Massey	
HAND PLOTTING BY	J. R. Minton	DATE 08/15/79		HAND PLOTTING CHECKED BY		J. W. Massey	



COMPILATION REPORT  
TP-00438  
Wrangell Narrows, Alaska

July 1977

31. Delineation

Delineation was accomplished on the Wild B-8 stereoplotter using the 1:40,000 scale color photography.

1:30,000 scale photography was flown for compilation, but as this project was assigned on a revised priority basis, the 1:40,000 scale bridging photography was used. This photography, taken at near high water, afforded the setting of fewer models and was adequate for compilation.

32. Control

See the Photogrammetric Plot Report and Notes to Field Editor.

33. Supplemental Data - None

34. Contours and Drainage

Contours are not applicable to the project. Drainage was delineated on the Wild B-8 stereoplotter.

35. Shoreline and Alongshore Features

The 1:40,000 scale color photography proved excellent for compiling shoreline and foreshore features. The water penetration of this photography afforded the photointerpretation of "Boulder Flats" and for four areas even though the photography was taken at near high water. *other*

36. Offshore Details

Numerous reefs were delineated and should be verified by the field editor.

37. Landmarks and Aids

All lights are either triangulation or were located photogrammetrically. (See notes to Field Editor.)

38. Control for Future Surveys

None

39. Junctions

See the attached form 76-36B, item 4

40. Horizontal and Vertical Accuracy

Refer to the Photogrammetric Plot Report.

41. thru 45. Inapplicable

46. Comparison with Existing Maps

Comparison was made with USGS Quadrangles:

Petersburg (C-3), Alaska, Scale 1:63,360, dated 1953. (Minor revisions 1963)

Petersburg, Alaska-Canada, 1:250,000, dated 1960.

47. Comparison with Existing Charts

Comparison was made with NOS Chart 17375 (C&GS 8170), scale 1:20,000, dated April 30, 1977, 17th Edition.

Submitted by:



R. Rich  
Cartographer

Approved and Forwarded:



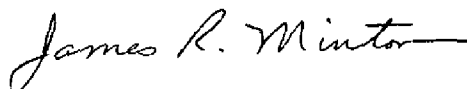
Jeter P. Battley, Jr.  
Chief, Coastal Mapping Section

## Addendum to the Compilation Report

TP-00438

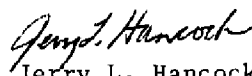
The field edit was applied in the Photogrammetric Branch at the Pacific Marine Center rather than the original compilation activity. The edit data was complete and well organized. No unusual difficulty was encountered in applying the data and all questions have been answered.\*Rock heights were determined from approved tide data.

Submitted by;



James R. Minton  
Cartographic Technician

\*Rock heights were calculated from "approved" tides inferred from the reference gage at Ketchikan (approx. 90 miles away) because temporary gages were not in operation during this segment of the field edit. According to the Tides and Water Levels Division this does not meet the requirements for approved tides. Consequently, the rock heights are based on predicted tide data.



Jerry L. Hancock  
Final Review, AMC

March 25, 1981

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

CM-7309 (Wrangell Narrows, Alaska)

TP-00438

Falls Creek

Finger Point

Green Point

Green Rocks

Kupreanof Island

Lindenberg Peninsula

Mitkof Island

Mountain Point

North Flat

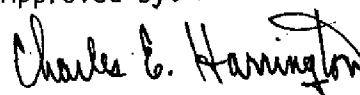
Papkes Landing

Rock Point

South Flat

Wrangell Narrows

Approved by:

Charles E. Harrington  
Chief Geographer, C3x5

NOAA FORM 75-74  
(2-74)U.S. DEPARTMENT OF COMMERCE  
NOAA  
NATIONAL OCEAN SURVEY

## PHOTOGRAMMETRIC OFFICE REVIEW

TP-00438

1. PROJECTION AND GRIDS J.B.	2. TITLE J.B.	3. MANUSCRIPT NUMBERS J.B.	4. MANUSCRIPT SIZE J.B.
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY J.B.	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) N.A.		7. PHOTO HYDRO STATIONS N.A.
8. BENCH MARKS N.A.	9. PLOTTING OF SEXTANT FIXES N.A.	10. PHOTOGRAMMETRIC PLOT REPORT N.A.	11. DETAIL POINTS J.B.
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE J.B.	13. LOW-WATER LINE N.A.	14. ROCKS, SHOALS, ETC. J.B.	15. BRIDGES J.B.
16. AIDS TO NAVIGATION J.B.	17. LANDMARKS J.B.	18. OTHER ALONGSHORE PHYSICAL FEATURES J.B.	19. OTHER ALONGSHORE CULTURAL FEATURES J.B.
PHYSICAL FEATURES			
20. WATER FEATURES J.B.	21. NATURAL GROUND COVER N.A.		22. PLANETABLE CONTOURS N.A.
23. STEREOSCOPIC INSTRUMENT CONTOURS N.A.	24. CONTOURS IN GENERAL N. A.	25. SPOT ELEVATIONS N.A.	26. OTHER PHYSICAL FEATURES J.B.
CULTURAL FEATURES			
27. ROADS J.B.	28. BUILDINGS J.B.	29. RAILROADS J.B.	30. OTHER CULTURAL FEATURES J.B.
BOUNDARIES			
31. BOUNDARY LINES N.A.		32. PUBLIC LAND LINES N.A.	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES J.B.	34. JUNCTIONS J.B.		35. LEGIBILITY OF THE MANUSCRIPT J.B.
36. DISCREPANCY OVERLAY J.B.	37. DESCRIPTIVE REPORT J.B.	38. FIELD INSPECTION PHOTOGRAPHS N.A.	39. FORMS J.B.
40. REVIEWER J. Battley, Jr.		SUPERVISOR, REVIEW SECTION OR UNIT J. Battley, 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 <i>James R. Minton</i> James R. Minton Aug. 31, 1979		SUPERVISOR James W. Massey	
REVIEWER James W. Massey Dec. 18, 1979			
43. REMARKS The field edit sources are itemized under part II, items 3 and 8 of form 76-35C Field Edit.			

FIELD EDIT REPORT  
TP-00438

WRANGELL NARROWS ALASKA  
OPR-0325-DA-78  
NOAA Ship DAVIDSON  
1978

51. METHODS

Field Edit on Manuscript TP-00438 was accomplished by PMC personnel working with the DAVIDSON in accordance with Project Instructions OPR-0325-DA-78, Wrangell Narrows, Alaska, dated 27 June 1978 and Chapter 11, Manual of Coastal Mapping Field Procedures. Features were located by photo identification or three-point sextant fix (with check angle) on 16, 17 and 21 September (JD's 259, 260, and 264). All original data was recorded on the Field Print or in a notebook at the time of field edit. See fix volume for TP-00438 for fix data.

Items noted on the Discrepancy Print were transferred to the field print. The field print was taken into the field along with matte ratio photos #74C 570, #74C 572, #74C 578, #74C 580, and #74C 591 which cover this T-Sheet. The field edit was conducted by skiff and on foot walking the beach. The data was compiled and inked on the MYLAR Field Edit Sheet.

Standard Ink Colors as per PMC OPORDER Change No. 2-77, dated 28 March 1977, were used to process field edit data:

Photographs and Field Edit Sheet:

Violet - verification  
Red - additions  
Green - deletions

Final Field Sheet:

Black - manuscript, no change  
Red - additions, Hydro D P'S

Data collected by field edit methods has not been duplicated on the hydrographic Final Field Sheet. All times are referenced to Greenwich Mean Time.

Cronapaque photos #74C 570 and #74C 572 were used for clarification of detail.

Weather observations for the days of field edit were generally as follows: winds 0-20 knots; sky cloudy, with frequent rain; and temperatures 40-47°F. Tide gauges installed just south of Scow Bay, at Mountain Point and Papke's Landing provide tides control for this sheet.

See the addendum to the compilation report concerning tide gages. *DLH*



52. ADEQUACY OF COMPILATION

The map compilation of obstructions and shallow zones is adequate. The map compilation is adequate and complete for charting with this field edit applied.

53. MAP ACCURACY

The high waterline as depicted on the map is accurate. All shallow zones compare well with the hydrographic data (MLLW line).

54. RECOMMENDATIONS

The Manuscript should be considered complete with corrections compiled from this field edit.

56. MISCELLANEOUS

A NOAA Form 76-40, "Nonfloating Aids or Landmarks," for Charts, has been completed for this manuscript and is appended. Two different shades of red ink were used on the manuscript. Both shades should be considered "red" for the verification process.

Submitted by:

*Timothy Peasley*

Timothy Peasley  
ENS, NOAA

Approved and Forwarded by:

*C. William Hayes*

C.W. Hayes  
CDR, NOAA  
Commanding Officer

NOAA FORM 76-40  
(8-74)

Replaces C&GS Form 567.

# NONFLOATING AIDS

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

## FOR CHARTS

ORIGINATING ACTIVITY	
<input type="checkbox"/> HYDROGRAPHIC PARTY	<input type="checkbox"/> PHOTO FIELD PARTY
<input type="checkbox"/> GEODETIC PARTY	<input type="checkbox"/> COMPILATION ACTIVITY
<input type="checkbox"/> PHOTO FIELD PARTY	<input checked="" type="checkbox"/> FINAL REVIEWER
<input type="checkbox"/> QUALITY CONTROL & REVIEW GRP.	<input type="checkbox"/> COAST PILOT BRANCH
(See reverse for responsible personnel)	

REPORTING UNIT (If field party, ship or office) Photogrammetric Br., P.M.C., Seattle, Wa.	STATE Alaska	LOCALITY Wrangell Narrows	DATE 08/27/79
The following objects HAVE <input checked="" type="checkbox"/> BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.			
OPR PROJECT NO. 0325-DA-78	JOB NUMBER CM-7309	SURVEY NUMBER TP-00438	DATUM N. A. 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	JOB NUMBER	SURVEY NUMBER	DATUM		POSITION				METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED
				N. A. 1927		LATITUDE		LONGITUDE		OFFICE	FIELD	
				°	'	°	'	°	'			
Ø325-DA-78	CM-7309	TP-00438		56	44	18.954 586.3	132	57	20.981 355.7		F-1-6-L 10/78	17375
LIGHT	(Mountain Point Light, 1978 (Field Position))			56	42	17.619 545.0	132	56	47.206 803.2		F-1-6-L 10/78	17375
LIGHT	(Wrangell Narrows Channel Light 50, 1978 (Field Position))			56	42	Ø7.962 246.3	132	56	56.668 964.3		F-1-6-L 10/78	17375
LIGHT	(Wrangell Narrows Channel Light 49, 1978 (Field Position))			56	41	42.380 1310.9	132	56	55.452 943.8		F-1-6-L 10/78	17375
LIGHT	(Wrangell Narrows Channel Light 48, 1978 (Field Position))			56	41	33.248 1028.4	132	57	Ø1.718 29.2		F-1-6-L 10/78	17375
LIGHT	(Wrangell Narrows Channel Light 47, 1978 (Field Position))			56	41	Ø5.490 169.8	132	56	32.326 550.3		F-1-6-L 10/78	17375
LIGHT	(Wrangell Narrows Channel Light 44, 1978 (Field Position))			56	41	Ø1.461 45.2	132	56	37.613 640.4		F-1-6-L 10/78	17375
LIGHT	(Wrangell Narrows Channel Light 43, 1978 (Field Position))			56	40	16.845 521.0	132	55	58.493 996.1		Triang. Rec. 10/78	17375
LIGHT	(Wrangell Narrows Channel Light 40, 1975)			56	40	Ø7.549 233.5	132	55	58.737 1000.3		Triang. Rec. 10/78	17375
DAYBEACON	(Wrangell Narrows Channel Daybeacon 39, 1975)			56	40	Ø9.517 294.4	132	55	50.650 862.6		Triang. Rec. 10/78	17375
LIGHT	(Wrangell Narrows Channel Light 38, 1975)			56	40							17375

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	T. Peasley, ENS, NOAA
POSITIONS DETERMINED AND/OR VERIFIED	L. Haas, LTJG, NOAA
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	<input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)  FIELD ACTIVITY REPRESENTATIVE  OFFICE ACTIVITY REPRESENTATIVE  <input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
<b>OFFICE</b> <b>1. OFFICE IDENTIFIED AND LOCATED OBJECTS</b> Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	<b>FIELD (Cont'd)</b> <b>B. Photogrammetric field positions** require</b> entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
<b>FIELD</b> <b>1. NEW POSITION DETERMINED OR VERIFIED</b> Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	<b>11. TRIANGULATION STATION RECOVERED</b> When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75  <b>111. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b> Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75  <b>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</b>
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

## REVIEW REPORT TP-00438

## SHORELINE

61. GENERAL STATEMENT:

See the Summary included in this Descriptive Report.

Field edit was assigned to the NOAA Ship DAVIDSON in conjunction with the contemporary hydrographic survey.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

No applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with USGS quadrangle Petersburg (C-3), Alaska, 1:63,360 scale, 1953. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Contemporary hydrographic survey, assigned as a Navigable Area Survey, OPR-325-DA-78 was compared with this final shoreline map. The field editor for this map assumed responsibility for the foreshore and some offshore features. This data was later transferred from the Class I Map to the hydrographic smoothsheets.

Verified smoothsheets H-9792 and H-9795 at 1:10,000 scale, dated Sept. and Apr. 1980 compared well with this final map. However, during final review it was necessary to make three changes concerning rock information. This affects the smoothsheets and is addressed in the correspondence letter to the Chief of Hydrographic Surveys dated April 29, 1981. A copy of this letter will be forwarded to Nautical Charts.

In various areas where the photogrammetric shallow limits varied with the hydrography the limits were revised to correspond with the surveyed shallow soundings. The photogrammetric shallow limits are discussed in the Summary for this Descriptive Report.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with NOS Chart 17375, 17th ED, 1:20,000 scale, April 30/77. No significant differences were noted.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

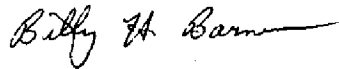
Submitted by:

*Jerry L. Hancock*

Jerry L. Hancock  
Final Reviewer

TP-00438

Approved for forwarding:




Billy H. Barnes  
Chief, Photogrammetric Branch, AMC

Approved:



John D. Perreault Jr.  
Chief, Photogrammetric Branch, Rockville

Approved:



Walter S. Simmons  
Chief, Photogrammetry Division



DATE: April 29, 1980

TO: Ken Wellman  
Hydrographic Surveys Division  
OA/C35x2

FROM: Jerry L. Hancock *Jerry L. Hancock*  
Coastal Mapping Division, Final Review AMC  
CAM 52x1

SUBJECT: Amended data concerning CM-7309 Wrangell Narrows, Alaska for  
Contemporary Hydrographic Survey, OPR-325-DA-78.

During the final review for project CM-7309, several corrections were made to the Class I shoreline maps. These revisions affect the contemporary smoothsheets for OPR-325-DA-78.

Copies of annotated Final Maps and the following list of amended data concerning individual smoothsheets are submitted for your records. This information will also be forwarded to Nautical Charts.

TP-00637 duplicated on H-9795 (1978):

Three rock heights were amended.

ITEM NO.	LAT.	LONG.	HEIGHT
#1	56° 37.2'	132° 58.0'	*(12) revised to *(3)
#2	56° 37.4'	132° 57.9'	*(11) " *(4)
#3	56° 37.9'	132° 57.3'	*(17) " *(13)

★ TP-00438 duplicated on H-9795 (1978):

Two rock heights were amended.

ITEM NO.	LAT.	LONG.	HEIGHT
#4	56° 40.3'	132° 55.7'	*(17) revised to *(13)
#5	56° 41.9'	132° 56.1'	*(11) no elevation determined, *

TP-00438 duplicated on H-9795 and H-9792:

PA rock \*(12) position was moved approx. 150 ft. southwest to previously mapped rock \*(4).

ITEM NO.	LAT.	LONG.	HEIGHT
#6	56° 43.8'	132° 57.2'	*(4) revised to *(12)

cont.



OA/C35x2

TP-00437 duplicated on H-9792:

Rock \*(11) position was moved approx. 165 Ft. east , height remains the same.

ITEM NO.	LAT.	LONG.
#7	56° 47.7'	132° 58.9'

TP-00421 duplicated on H-9791:

Two prominent piers in the Petersburg Harbor area were redelineated.

ITEM NO.	LAT.	LONG.	
#8 (Piers)	56° 48' 48"	132° 57' 30"	(Both piers are in this area)

#9 (Rock)	56° 49' 36"	132° 56' 34"	(Conflicting rock heights TP *(4) and H *(7))
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CC:

OA/C3222

OA/C35