

TP- 00437

TP- 00437

NOAA FORM 76-35 (3-76) U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
<h2>DESCRIPTIVE REPORT</h2>	
<i>Map No.</i> TP-00437	<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	
LOCALITY	
<i>State</i> ALASKA	
<i>General Locality</i> WRANGELL NARROWS	
<i>Locality</i> SCOW BAY	
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 1974 TO 1978 </div>	
REGISTRY 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 <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Rockville, Maryland		SURVEY TP00437 MAP EDITION NO. (1) MAP CLASS FINAL MAP JOB HA CM-7309	
OFFICER-IN-CHARGE Commander James Collins		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
JOB PH- MAP CLASS SURVEY DATES: 19__ TO 19__			
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Oct. 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	
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 Oblique Mercator		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: Analytic LANDMARKS AND AIDS BY		R. Kelly	April 1977
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY		R. Kelly S. Solbeck	April 1977 April 1977
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 SCALE: 1:15,000 CONTOURS BY CHECKED BY		J. Taylor P. Dempsey N.A. N.A.	July 1977 July 1977
4. MANUSCRIPT DELINEATION PLANIMETRY BY METHOD: Smooth drafted CHECKED BY SCALE: 1:10,000 CONTOURS BY CHECKED BY HYDRO SUPPORT DATA BY CHECKED BY		J. Taylor P. Dempsey N.A. N.A. N.A. N.A.	July 1977 July 1977
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		J. Battley, Jr.	July 1977
6. APPLICATION OF FIELD EDIT DATA BY		J. Minton	July 1979
7. COMPILATION SECTION REVIEW BY		C. Goff	July 1979
8. FINAL REVIEW BY		C. Goff	July 1979
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		J. Hancock	Apr. 1981
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		J. Hancock	Apr. 1981
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		R. Kelly <i>W. R. Maeko</i>	May 1981 OCT 1981

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

TP-00437

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-10 "C" focal length = 88.47mm		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Pacific	<input checked="" type="checkbox"/> STANDARD
				MERIDIAN 120° W.	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
74C(C)0548 thru 0551	07/27/74	1427	1:30,000	4.3 feet above MLLW	
74C(C)0573	07/28/74	1109	1:30,000	10.2 feet above MLLW	
74C(C)0575 thru 0577	07/28/74	1118	1:30,000	10.0 feet above MLLW	
74C(C)0593 thru 0594	07/31/74	1253	1:40,000	13.8 feet above MLLW	

REMARKS

Mean range is 13.4 feet and, mean high water is 14.8 feet at Petersburg.

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled with a Wild B-8 plotter using the above listed photography. Modifications to the mean high water line resulted from the application of field edit data itemized on form 76-36C, Field Edit.

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

No mean lower low water line was 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
H-9792	Sept 1980	Verified Smoothsheet			

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
No Survey	No Survey	TP-00438	No Survey

REMARKS

A 1:5000 scale inset map, TP-00421, junctions with the Northwest region of the map.

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00437
HISTORY OF FIELD OPERATIONS.1. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Melby	July 1974
2. HORIZONTAL CONTROL	RECOVERED BY R. Melby	July 1974-75
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY R. 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 None	
	LOCATED (Field Methods) BY None	
	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 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
74-C(C) 0593	Blunt, 1929		

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 ☒ 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)

2 forms 152

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

TP-00437

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	C. W. Hayes, Cdr., NOAA	Oct. 1978
2. HORIZONTAL CONTROL	RECOVERED BY L. F. Haas, Lt., NOAA ESTABLISHED BY L. F. Haas, Lt., NOAA PRE-MARKED OR IDENTIFIED BY None	Oct. 1978 Oct. 1978
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 None LOCATED (Field Methods) BY L. F. Haas, Lt., NOAA IDENTIFIED BY None	Oct. 1978
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY T. Peasley, Lt(jg), NOAA	Sept. 1978
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED None		2. VERTICAL CONTROL IDENTIFIED None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS (Clarification of details) 74C(C)0549' and 0550' 74C(C)0572' and 0576'			
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 One field edit report			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division) One field edit report and one sounding volume containing fix data One film field edit ozalid One paper discrepancy ozalid			

TP-00437
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, compilation complete	July, 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 one aid to be charted

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: April 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. 54-40 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 <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	

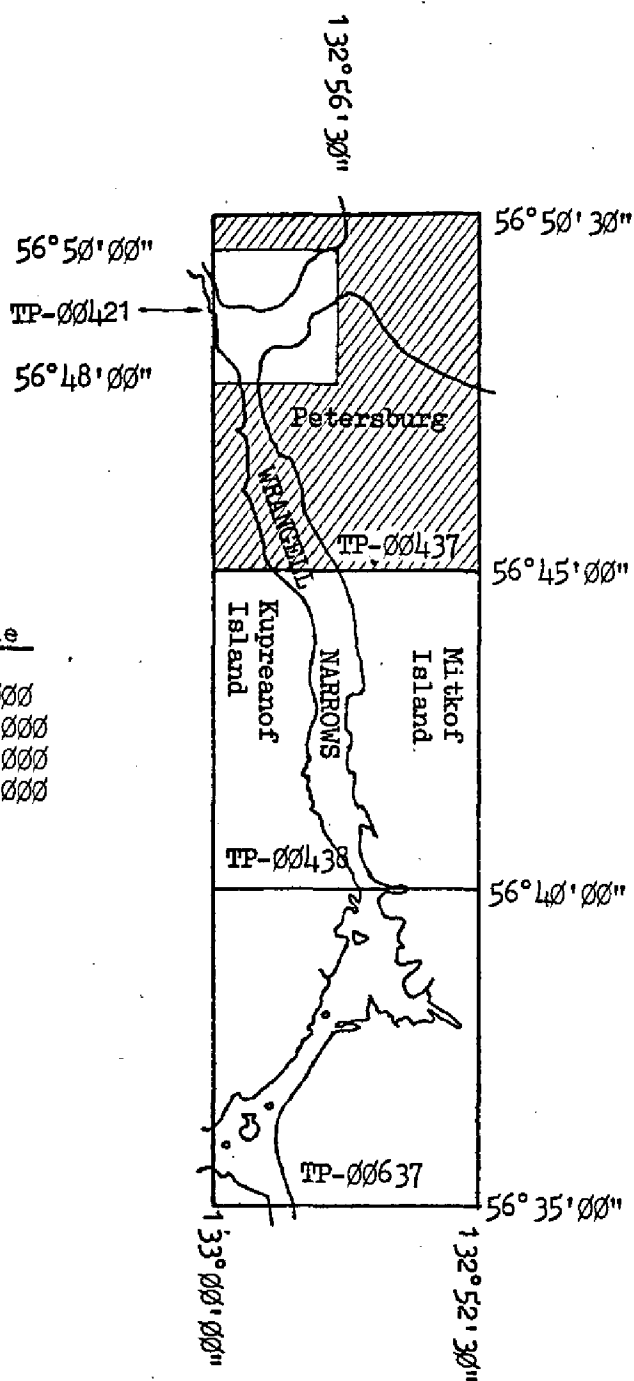
WRANGELL NARROWS, ALASKA

CM - 7309

TP-00437

Manuscript Scale

TP-00421 1:5,000
 TP-00427 1:10,000
 TP-00428 1:10,000
 TP-00637 1:10,000



SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS

TP-00437

This 1:10,000 shoreline manuscript 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. A 1:5000 inset, TP-00421, of the Petersburg Harbor area covers the northwest portion of this map.

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 smoothsheet H-9792 was 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 Oct. 1978 in accordance with OPR-325-DA-78.

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

TP-00437

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 smoothsheet reflects 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-00437

Field inspection operations for this project were 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

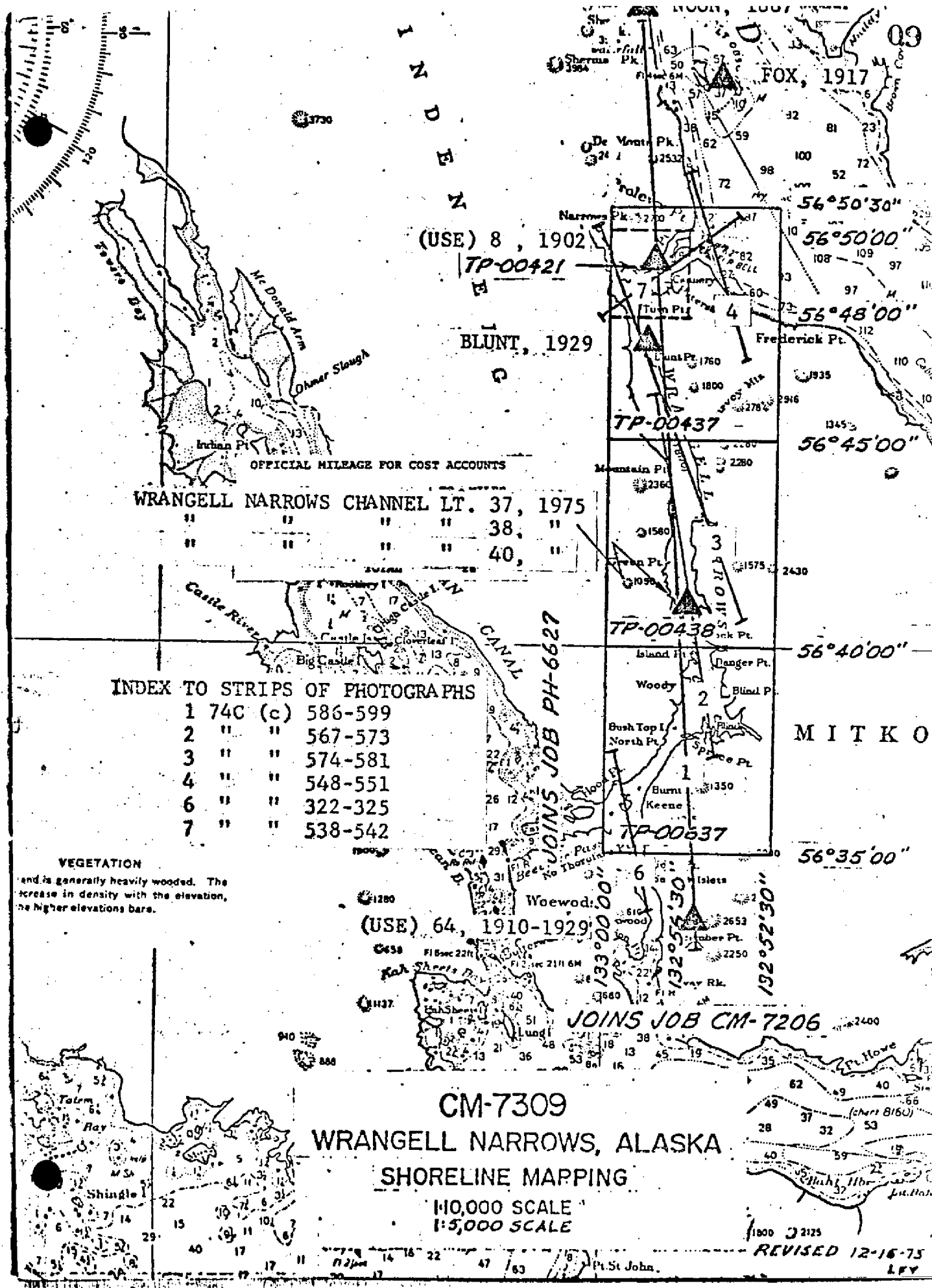
RC-8 color positives were adequate as to coverage, overlay, and definition.

Submitted by:

Robert B. Kelly
Robert B. Kelly

Approved and Forwarded:

John D. Perrow, Jr.
John D. Perrow, Jr.
Chief, Aerotriangulation Section



(USE) 8, 1902
TP-00421

BLUNT, 1929

FOX, 1917

TP-00437

TP-00438

TP-00637

OFFICIAL MILEAGE FOR COST ACCOUNTS

WRANGELL NARROWS CHANNEL LT.	37,	1975
"	38,	"
"	40,	"

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

and is generally heavily wooded. The increase in density with the elevation, the higher elevations bare.

(USE) 64, 1910-1929

JOINS JOB CM-7206

CM-7309

WRANGELL NARROWS, ALASKA
SHORELINE MAPPING

100,000 SCALE
1:5,000 SCALE

REVISED 12-16-75
LFV

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.		JOB NO.		GEOGETIC DATUM		ORIGINATING ACTIVITY	
STATION NAME		SOURCE OF INFORMATION (Index)		COORDINATES IN FEET		GEOGRAPHIC POSITION	
TP-00437		QM-7309		N. A. 1927		Photogrammetric Br., PWC, Seattle	
				STATE Alaska		φ LATITUDE	
				ZONE 1		λ LONGITUDE	
B, 1910	561324	0000014		x= 2,832,605.57		φ 56° 49' 16.592"	513.2m (1342.7m)
				y= 1,822,695.23		λ 132° 55' 58.925"	999.5m (18.3m)
BLUNT, 1929	561324	5941000		x= 2,825,101.144		φ 56° 46' 14.545"	1377.9m (478.1m)
				y= 1,807,190.07		λ 132° 58' 11.217"	190.5m (828.4m)
C, 1910, 1918	561324			x= 2,833,735.28		φ 56° 49' 10.358"	320.4m (1535.6m)
				y= 1,822,074.74		λ 132° 55' 38.745"	657.3m (360.5m)
D, 1910	561324			x= 2,835,116.58		φ 56° 48' 48.410"	1497.5m (358.5m)
				y= 1,819,862.40		λ 132° 55' 14.358"	243.6m (774.4m)
E, 1910	561324	0000017		x= 2,836,699.63		φ 56° 48' 28.372"	877.6m (978.4m)
				y= 1,817,846.24		λ 132° 54' 46.316"	785.9m (232.2m)
LEW, 1910, 1918	561324	0000011		x= 2,831,433.91		φ 56° 50' 07.877"	243.7m (1612.3m)
				y= 1,827,887.22		λ 132° 56' 18.987"	321.9m (695.4m)
USE 12, 1902, 1929	561324			x= 2,821,960.16		φ 56° 47' 49.420"	1528.7m (327.3m)
				y= 1,813,739.00		λ 132° 59' 11.819"	200.6m (817.8m)
USE 14, 1902, 1929	561324	0000029		x= 2,822,060.75		φ 56° 47' 36.081"	1116.1m (739.9m)
				y= 1,812,386.36		λ 132° 59' 10.254"	174.1m (844.4m)
USE 18, 1902, 1929	561324	0000033		x= 2,822,881.144		φ 56° 46' 01.326"	41.0m (1814.9m)
				y= 1,802,778.77		λ 132° 58' 57.241"	972.4m (46.8m)
USE 20, 1902, 1929	561324			x= 2,824,354.19		φ 56° 45' 18.537"	573.4m (1282.6m)
				y= 1,798,451.34		λ 132° 58' 31.598"	536.9m (482.6m)
COMPUTED BY	J. R. Minton	DATE	07/05/79	COMPUTATION CHECKED BY	C. W. Goff	DATE	07/05/79
LISTED BY	J. R. Minton	DATE	07/05/79	LISTING CHECKED BY	C. W. Goff	DATE	07/05/79
HAND PLOTTING BY	J. R. Minton	DATE	07/05/79	HAND PLOTTING CHECKED BY	C. W. Goff	DATE	07/05/79

COMPILATION REPORT

TP-00437

Wrangell Narrows

Alaska

July 1977

31. Delineation

Delineation was accomplished on the Wild B-8 stereoplotter, using 1:30,000 and 1:40,000 scale photography. The 1:30,000 scale photography was used to delineate the Frederick Sound portion of the sheet, and the 1:40,000 scale photography was used for the delineation of the SCOW BAY portion of the sheet. The 1:40,000 scale photography was near high tide while the 1:30,000 scale was flown near low tide, thus a contour was computed to be drawn for the high water line based on the predicted tide information as shown on 76-36B of this report. The area covered by TP-00421 was not duplicated on this sheet.

32. Control

See the Photogrammetric Plot Report and the notes to the field editor.

33. Supplemental Data - None34. 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 photography proved good for compiling the shoreline and some foreshore features. The 1:30,000 scale photography was near low tide so more foreshore areas could be interpreted from the B-8 plotter.

36. Offshore Details

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

37. Landmarks and Aids

(See notes to field editor).

One light was dropped during aerotriangulation on the sheet, and one proposed landmark, a tank located near the airport, was dropped photogrammetrically from the B-8 plotter.

38. Control for Future Surveys - None

39. Junctions

See the attached form 76-36B under Item #5.

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 quadrangle:

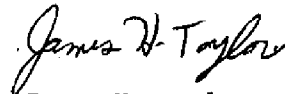
PETERSBURG (D-3), ALASKA at a scale of 1:63,360 dated 1961.

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:



James H. Taylor
Cartographer

Approved and Forwarded:



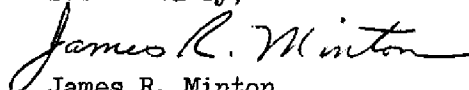
Jeter P. Battley, Jr.
Chief, Coastal Mapping Section

Addendum to the Compilation Report - Field Edit

TP - 00437

The field edit data was applied in the Photogrammetric Branch at the Pacific Marine Center rather than the original compilation activity. The data itemized on form 76-36C, Field Edit, was applied by standard means utilizing approved tide information. No problems or unusual difficulties were encountered and, the manuscript with the edit revisions applied is complete and advanced to Class I.

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-00437

Blunt Point

Petersburg Airport

Doyhof

Prolewy Point

Frederick Sound

Sandy Beach

Kupreanof Island

~~Skow Bay~~ Scow Bay *PEH*

Lindenberg Peninsula

~~Skow Bay~~-(Ppl) Scow Bay *PEH*

Mitkof Island

Wrangell Narrows

Approved by:

*Charles E. Harrington*Charles E. Harrington
Chief Geographer, C3x5

NOAA FORM 75-74 (2-74)		TP-00437 PHOTOGRAMMETRIC OFFICE REVIEW		U.S. DEPARTMENT OF COMMERCE NOAA NATIONAL OCEAN SURVEY	
1. PROJECTION AND GRIDS P.D.	2. TITLE P.D.	3. MANUSCRIPT NUMBERS P.D.	4. MANUSCRIPT SIZE P.D.		
CONTROL STATIONS					
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY P.D.		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) P.D.		7. PHOTO HYDRO STATIONS N.A.	
8. BENCH MARKS N.A.	9. PLOTTING OF SEXTANT FIXES N.A.	10. PHOTOGRAMMETRIC PLOT REPORT P.D.		11. DETAIL POINTS N.A.	
ALONGSHORE AREAS (Nautical Chart Data)					
12. SHORELINE P.D.	13. LOW-WATER LINE N.A.	14. ROCKS, SHOALS, ETC. P.D.	15. BRIDGES P.D.		
16. AIDS TO NAVIGATION P.D.	17. LANDMARKS P.D.	18. OTHER ALONGSHORE PHYSICAL FEATURES P.D.	19. OTHER ALONGSHORE CULTURAL FEATURES P.D.		
PHYSICAL FEATURES					
20. WATER FEATURES P.D.		21. NATURAL GROUND COVER N.A.		22. PLANETABLE CONTOURS N.A.	
23. STEREOSCOPIC INSTRUMENT CONTOURS P.D.	24. CONTOURS IN GENERAL N.A.	25. SPOT ELEVATIONS N.A.	26. OTHER PHYSICAL FEATURES P.D.		
CULTURAL FEATURES					
27. ROADS P.D.	28. BUILDINGS P.D.	29. RAILROADS P.D.	30. OTHER CULTURAL FEATURES P.D.		
BOUNDARIES					
31. BOUNDARY LINES N.A.		32. PUBLIC LAND LINES N.A.			
MISCELLANEOUS					
33. GEOGRAPHIC NAMES P.D.		34. JUNCTIONS P.D.		35. LEGIBILITY OF THE MANUSCRIPT P.D.	
36. DISCREPANCY OVERLAY P.D.	37. DESCRIPTIVE REPORT P.D.	38. FIELD INSPECTION PHOTOGRAPHS N.A.		39. FORMS P.D.	
40. REVIEWER P. Dempsey		JULY, 1977		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> J. R. Minton		7/3/79		SUPERVISOR	
REVIEWER: C. W. Goff		7/25/79		J. W. Massey	
43. REMARKS Field edit data is itemized on form 76-36 C, Field Edit, items 3 and 8.					

FIELD EDIT REPORT
TP-00437

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

51. METHODS

Field edit on TP-00437 was completed 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. Items noted on the Discrepancy Print were transferred to the Field Print which was then taken into the field along with matte ratio photos #74C 548 through 551, #74C 576, #74C 578, and #74C 593 which cover this T-Sheet. The field edit investigation was conducted by skiff on 21 September (JD 264) and on 16-18 October (JD's 289-291). See appended Abstract for Times of Field Edit. Items were located by visual three-point sextant fixes as near as possible to times of low tide. Check angles were observed where possible to confirm each fix. All original data was recorded on the Field Print, in a notebook, or in a field volume at the time of the investigation (See fix volume for TP-00437). In addition, hydrographic detached position information is indexed on this T-Sheet (See hydro data H-9792 (DA-10-4-77)). Times are referenced to Greenwich Mean Time. Standard ink colors as per PMC OPODER Change No. 2-77, dated 23 March 1977, were used to process the field edit data.

Cronapaque Photographs: Violet - verification
Green - deletion
Red - addition/revision

Final Field Sheet: Black - manuscript, no change
Red - additions/Hydro DP's

Cronapaque photos #74C 57C, #74C 549, #74C 550 and #74C 576 were used for clarification of detail. Weather observations for the days of field edit were generally as follows: winds 0-20 knots; sky cludy, with frequent rain, and temperature 40° - 47°F. *Tide gauges for control of the field edit were installed in Frederick Sound, Petersburg, south of Turn Point, Saw Mill, and on Mountain Pt. Note: Data collected by field edit methods has not been duplicated on the hydro. Final Field Sheet.

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. Hydrography run to the shoreline, which consisted primarily of mud flats with scattered

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

boulders, small rocks, and rocky outcrops, agreed well with the compiled high waterline.

54. RECOMMENDATIONS

The manuscript should be considered complete with corrections compiled from field edit and data from H-9792 (DA-10-4-78).

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 as "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

NONFLOATING AIDS ~~FOR CHARTS~~ FOR CHARTS

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

ORIGINATING ACTIVITY

- ☐ HYDROGRAPHIC PARTY
☐ GEODETIC PARTY
☐ PHOTO FIELD PARTY
☒ COMPILATION ACTIVITY
☐ FINAL REVIEWER
☐ QUALITY CONTROL & REVIEW GRP.
☐ COAST PILOT BRANCH

REPORTING UNIT
(Field Party, Ship or Office)
Photogrammetric Br.

ATE
Alaska

LOCALITY
Wrangell Narrows

ATE 07/03/79

The following objects HAVE ☒ HAVE NOT ☐ been inspected from seaward to determine their value as landmarks.

(See reverse for responsible personnel)

OPR PROJECT NO.

JOB NUMBER

VEY NUMBER

DATUM

DATUM

1

1

DESCRIPTION

Record reason for deletion of landmark or aid to navigation.
Show triangulation station names, where applicable, in parentheses.

LATITUDE

LONGITUDE

D.M. Meters	1	0
"		
D.P. Meters	1	0
"		

T. T. C. H. T.

LIGHT (WRANGELL NARROWS CHANNEL LIGHT 52,
1978 (Field Position))

56° 46'	53.675	132 58	45.202
	1660.3		767.6m

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)	
OFFICE I. OFFICE IDENTIFIED AND LOCATED OBJECTS 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	FIELD (Cont'd) B. Photogrammetric field positions* require 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
FIELD I. NEW POSITION DETERMINED OR VERIFIED 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	II. TRIANGULATION STATION RECOVERED 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 III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

REVIEW REPORT TP-00437

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 (D-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 offshore features. This data was later transferred from the Class I Map to the hydrographic smoothsheet.

Verified smoothsheet H-9792 at 1:10,000 scale, dated Sept. 1980 compared well with this final map. However, during final review one significant change was made to a rock location. This affects the smoothsheet 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:

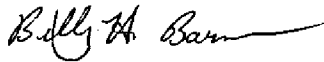
This map complies with the Project instructions, and meets the requirements for Bureau Standards and National Standards of Map Accuracy.

Submitted by:



Jerry L. Hancock
Final Reviewer

Approved for forwarding:



Billy H. Barnes
Chief, Photogrammetric Branch, AMC

Approved:



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

Approved:



Walter S. Simmons
Chief, Photogrammetry Division

DATE: April 29, 1980¹

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