

TP-00637

TP-00637

NOAA FORM 76-35 (3-76)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. TP-00637	Edition No. 1
Job No. CM-7309	
Map Classification FINAL, FIELD EDITED MAP	
Type of Survey SHORELINE	
LOCALITY	
State ALASKA	
General Locality WRANGELL NARROWS	
Locality ISLAND POINT to NO THOROFARE POINT	
1974 TO 1978	
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 TP. 00637 MAP EDITION NO. (1) MAP CLASS Final Map JOB NH. 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 ZONE Alaska 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 April 1977	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY		S. Solbeck April 1977	
INSTRUMENT: Wild B-8 CONTOURS BY		S. Solbeck April 1977	
SCALE: 1:15,000 CHECKED BY		B. Maynard July 1977	
4. MANUSCRIPT DELINEATION PLANIMETRY BY		J. Battley, Jr. July 1977	
METHOD: Smooth drafted CHECKED BY		N.A.	
SCALE: 1:10,000 HYDRO SUPPORT DATA BY		N.A.	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		N.A.	
6. APPLICATION OF FIELD EDIT DATA BY		J. Battley, Jr. July 1977	
7. COMPILATION SECTION REVIEW BY		G. Morris, J. Minton Dec. 1979	
8. FINAL REVIEW BY		J. Massey Dec. 1979	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		J. Massey Dec. 1979	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		J. Hancock April 1981	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		J. Hancock April 1981	
12. MAP REGISTERED - COASTAL SURVEY SECTION BY		R. Kelly May 1981	
13. MAP REGISTERED - COASTAL SURVEY SECTION BY		N. D. Wallace OCT 1981	

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

TP-00637

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)0322 thru 0324	07/07/74	1640	1:30,000	15.0 ft. above MLLW	
74C(C)0568	07/28/74	1109	1:30,000	11.4 ft. above MLLW	
74C(C)0587 thru 0590	07/31/74	1250	1:40,000	13.8 ft. above MLLW	

REMARKS

Mean High Water level is 15.7 ft. above Mean Lower Low Water at Finger Point.

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled with a Wild B-8 stereoplotter utilizing the above listed photography. Modifications resulted from the application of the data itemized in part II of forms 76-36C, Field Edit, included within this report.

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-9729	July 1979	verified			
H-9795	Apr. 1980	smoothsheets			

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00438	No Survey	TP-00551 of CM-7206	No Survey

REMARKS

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYHISTORY OF FIELD OPERATIONS
TP-00637I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Melby	May 1974
2. HORIZONTAL CONTROL	RECOVERED BY R. Melby ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY None	1974
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 BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	
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)

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)

None

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

HISTORY OF FIELD OPERATIONS

TP-00637

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION 1977 Field Season

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	C. Andreasen	30 Sept. 1977
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	" " "
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	" " "
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	" " "
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	"
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
	None Photo-Identified		None Photo-Identified

3. PHOTO NUMBERS (Clarification of details)

74 (c) 322, 74 (c) 324

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None Photo-Identified

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)

Master Film Field Edit Ozalid, Field Edit Report, Fix Volume

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

TP-00637

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION 1978 Season

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	C. W. Hayes, Cdr., NOAA	Sept. 1978
2. HORIZONTAL CONTROL	RECOVERED BY L. F. Haas, Ltjg., NOAA ESTABLISHED BY L. F. Haas, Ltjg., NOAA PRE-MARKED OR IDENTIFIED BY None	Sept. 1978 Sept. 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 L. F. Haas, Ltjg., NOAA LOCATED (Field Methods) BY L. F. Haas, Ltjg., NOAA IDENTIFIED BY None	Sept. 1978 Sept. 1978
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, Ens., NOAA	Sept. 1978
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N. A.	

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)0322 and 74C(C)0568

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)

Field Edit Report

Field Edit Ozalid

Sounding Volume containing sextant fixes.

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
TP-00637

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	None
Partial field edit applied	March 1978	Class III manuscript	Oct. 1978	June 1978
Remaining field edit applied, compilation complete	Dec. 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
3		8/6/80	Forms 76-40 for 23 Aids 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 ~~76-40~~ SUBMITTED BY FIELD PARTIES. 76-40
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	

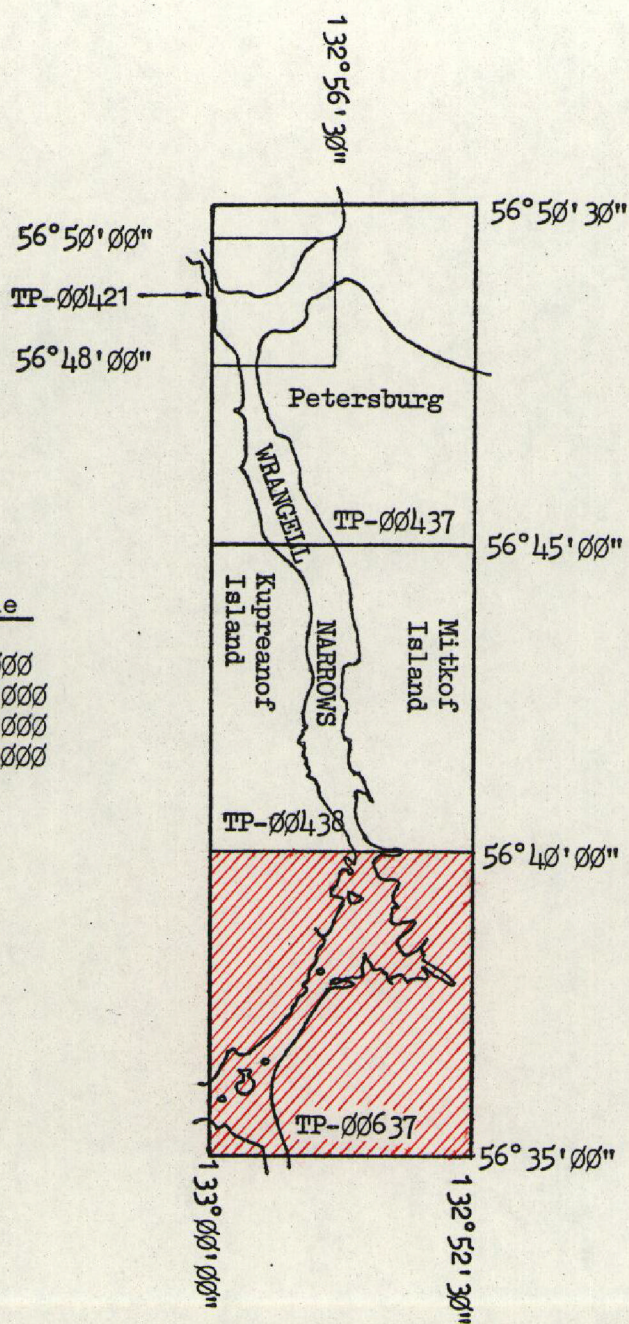
WRANGELL NARROWS, ALASKA

CM - 7309

TP-00637

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-00637

This 1:10000 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. This final map junctions with the Class I, Coastal Project CM-7206.

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 two seasonal projects, OPR-448-DA-77 and OPR-325-DA-78. Verified smoothsheets H-9729 and H-9795 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 aerotriangulation 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 during the 1977 and 1978 field seasons. South of Lat. $56^{\circ}37'$ field edit was performed in Sept. 1977 according to OPR-448-DA-77. This segment of the map is included on smoothsheet

H-9729 and junctions with TP-00551 for coastal project CM-7206. North of Lat. $56^{\circ}37'$ field edit was performed in Sept. 1978 according to OPR-325-DA-78 in conjunction with smoothsheet H-9795.

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

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 for 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 operation. 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-00637

Field inspection was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.

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.

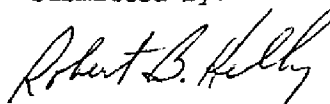
24. Supplemental Data

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

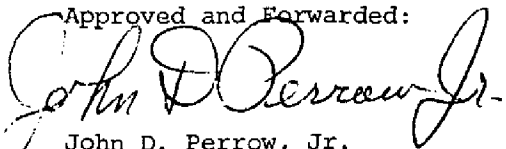
25. Photography

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

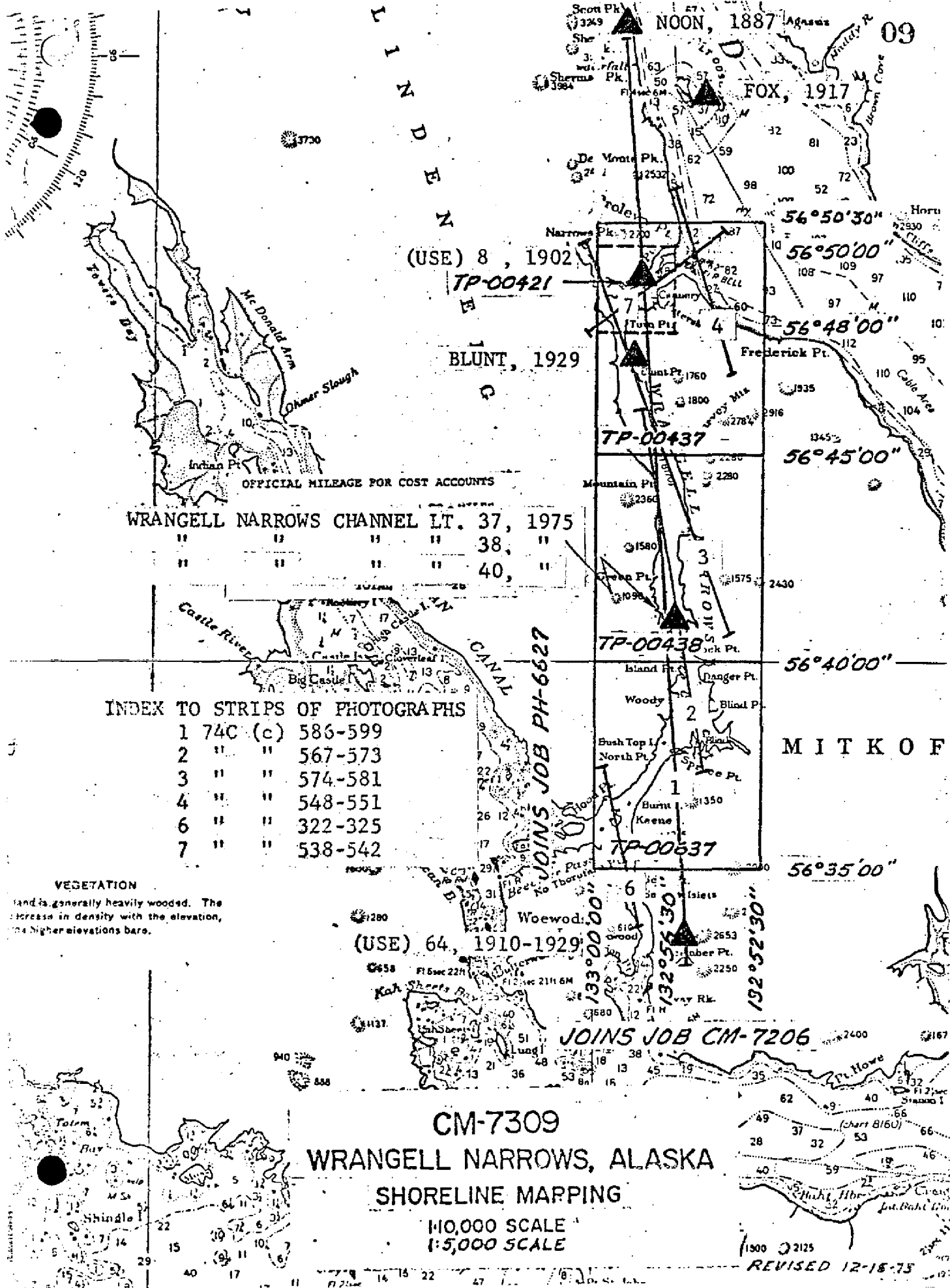
Submitted by:


Robert B. Kelly

Approved and Forwarded:



John D. Perrow, Jr.
Chief, Aerotriangulation Section



DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	GEODETTIC DATUM		AEROTRI- ANGULATION POINT NUMBER	GEODETTIC DATUM		ORIGINATING ACTIVITY	
			STATE	ZONE		COORDINATES IN FEET	PHOTOGRAMMETRIC BR., Seattle, Wa.		
TP-00637		CM-7309	North American 1927						
			STATE Alaska	1					
BON, 1929	561 324		x= 2,822,535.87						
			y= 1,740,360.80						
BURNT ISLAND LIGHT, 1977	Unadjusted Field Pos.		x=						
			y=						
BURNT ISLAND REEF LIGHT, 1977	Unadjusted Field Pos.		x=						
			y=						
BURNT ISLAND FORWARD RANGE LIGHT, 1977	Unadjusted Field Pos.		x=						
			y=						
BURNT ISLAND AFTER RANGE LIGHT, 1977	Unadjusted Field Pos.		x=						
			y=						
BUSH TOP ISLAND FRONT RANGE LIGHT, 1978	Unadjusted Field Pos.		x=						
			y=						
BUSH TOP ISLAND REAR RANGE LIGHT, 1978	Unadjusted Field Pos.		x=						
			y=						
BUSH TOP ISLAND LIGHT, 1929	561 324		x= 2,830,841.83						
			y= 1,754,195.69						
HUMBUG, 1977	Unadjusted Field Pos.		x=						
			y=						
KEENE, 1977	Unadjusted Field Pos.		x=						
			y=						
COMPUTED BY	J. R. Minton	DATE 08/12/79	COMPUTATION CHECKED BY		J. W. Massey	DATE 12/09/79			
LISTED BY	J. R. Minton	DATE 08/12/79	LISTING CHECKED BY		J. W. Massey	DATE 12/09/79			
HAND PLOTTING BY	J. R. Minton	DATE 08/12/79	HAND PLOTTING CHECKED BY		J. W. Massey	DATE 12/20/79			

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	GEODETTIC DATUM		ORIGINATING ACTIVITY	
			North American 1927 COORDINATES IN FEET	Geographic Position	Photogrammetric Br., Seattle, Wa.	
			STATE Alaska	φ LATITUDE	λ LONGITUDE	REMARKS
			ZONE 1			
TP-00637		CM-7309				
NOB, 1929	561 324		X= 2,823,306.82 Y= 1,742,099.56	φ 56° 36' 03.332" λ 132° 59' 00.469"		103.1m (1752.8m) 8.0m (1015.7m)
USE 41, 1902	561 324		X= 2,835,781.08 Y= 1,763,468.31	φ 56° 39' 32.625" λ 132° 55' 13.459"		1009.2m (846.7m) 229.3m (792.8m)
USE 48, 1910	561 324		X= 2,826,394.90 Y= 1,748,876.71	φ 56° 37' 09.810" λ 132° 58' 04.065"		303.4m (1552.5m) 69.3m (953.9m)
USE 49, 1929	561 324		X= 2,829,740.61 Y= 1,750,696.75	φ 56° 37' 27.405" λ 132° 57' 03.925"		847.7m (1008.2m) 66.9m (956.2m)
USE 50, 1910	561 324		X= 2,825,365.32 Y= 1,747,879.58	φ 56° 37' 00.087" λ 132° 58' 22.648"		2.7m (1853.2m) 386.3m (637.0m)
USE 52, 1910	561 324		X= 2,823,597.32 Y= 1,746,495.91	φ 56° 36' 46.627" λ 132° 58' 54.494"		1442.3m (413.6m) 929.5m (93.9m)
USE 55, 1910	561 324		X= 2,825,649.62 Y= 1,741,899.17	φ 56° 36' 01.125" λ 132° 58' 18.651"		34.8m (1821.1m) 318.2m (705.5m)
USE 56, 1910	561 324		X= 2,824,911.63 Y= 1,737,808.37	φ 56° 35' 20.886" λ 132° 58' 32.572"		646.0m (1209.9m) 555.9m (468.1m)
USE 58, 1910	561 324		X= 2,825,050.38 Y= 1,735,883.44	φ 56° 35' 01.903" λ 132° 58' 30.441"		58.9m (1797.0m) 519.6m (504.6m)
USE 59, 1910	561 324		X= 2,826,140.34 Y= 1,736,013.82	φ 56° 35' 03.079" λ 132° 58' 10.954"		95.2m (1760.7m) 187.0m (837.2m)
COMPUTED BY	J. R. Minton		COMPUTATION CHECKED BY	J. W. Massey		DATE 12/09/79
LISTED BY	J. R. Minton		LISTING CHECKED BY	J. W. Massey		DATE 12/09/79
HAND PLOTTING BY	J. R. Minton		HAND PLOTTING CHECKED BY	J. W. Massey		DATE 12/20/79

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.		JOB NO.		GEODEIC DATUM		ORIGINATING ACTIVITY	
TP-00637		CM-7309		North American 1927		Photogrammetric Br., Seattle, Wa.	
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE <u>Alaska</u> ZONE <u>1</u>		GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE		REMARKS
WRANGELL NARROWS CHANNEL LIGHT 8, 1977	Unadjusted Field Pos.		x=	φ 56° 35' 40.216"	1244.0m	(611.9m)	
			y=	λ 132° 58' 21.576"	368.2m	(655.7m)	
WRANGELL NARROWS CHANNEL LIGHT 10, 1977	Unadjusted Field Pos.		x=	φ 56° 36' 08.752"	270.7m	(1585.2m)	
			y=	λ 132° 58' 26.202"	447.0m	(576.6m)	
WRANGELL NARROWS CHANNEL LIGHT 15, 1978	Unadjusted Field Pos.		x=	φ 56° 37' 24.731"	765.0m	(1090.9m)	
			y=	λ 132° 57' 33.709"	574.8m	(448.3m)	
WRANGELL NARROWS CHANNEL LIGHT 16, 1978	Unadjusted Field Pos.		x=	φ 56° 37' 25.090"	776.1m	(1079.8m)	
			y=	λ 132° 57' 25.445"	433.9m	(589.2m)	
WRANGELL NARROWS CHANNEL LIGHT 17, 1978	Unadjusted Field Pos.		x=	φ 56° 37' 41.718"	1290.4m	(565.5m)	
			y=	λ 132° 57' 10.849"	185.0m	(838.0m)	
WRANGELL NARROWS CHANNEL LIGHT 18, 1978	Unadjusted Field Pos.		x=	φ 56° 37' 51.081"	1580.0m	(275.9m)	
			y=	λ 132° 56' 47.925"	817.0m	(205.9m)	
WRANGELL NARROWS CHANNEL LIGHT 21, 1958	561 324		x=	φ 56° 38' 21.043"	650.9m	(1205.0m)	
			y=	λ 132° 55' 56.161"	957.3m	(65.4m)	
WRANGELL NARROWS CHANNEL LIGHT 27, 1958	561 324		x=	φ 56° 38' 55.972"	1731.3m	(124.6m)	
			y=	λ 132° 55' 12.134"	206.8m	(815.6m)	
WRANGELL NARROWS CHANNEL LIGHT 31, 1978	Unadjusted Field Pos.		x=	φ 56° 39' 21.606"	668.3m	(1187.6m)	
			y=	λ 132° 55' 26.612"	453.4m	(568.8m)	
WRANGELL NARROWS CHANNEL LIGHT 32, 1958	561 324		x=	φ 56° 39' 24.827"	767.9m	(1088.0m)	
			y=	λ 132° 55' 21.931"	373.6m	(648.6m)	
COMPUTED BY	J. R. Minton	DATE	COMPUTATION CHECKED BY		J. W. Massey		DATE
LISTED BY	J. R. Minton	DATE	LISTING CHECKED BY		J. W. Massey		DATE
HAND PLOTTING BY	J. R. Minton	DATE	HAND PLOTTING CHECKED BY		J. W. Massey		DATE

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETTIC DATUM		ORIGINATING ACTIVITY			
		STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE <u>Alaska</u> ZONE <u>1</u>	Geographic Position ϕ LATITUDE λ LONGITUDE	REMARKS
TP-00637	CM-7309	WRANGELL NARROWS CHANNEL LIGHT 32A, 1958	561 324		X=2,834,836.10	ϕ 56° 39' 33.435"	1034.2m (821.7m) 517.1m (505.0m)
					Y=1,763,540.25	λ 132° 55' 30.353"	
		WRANGELL NARROWS CHANNEL LIGHT 34, 1958	561 324		X=2,834,554.60	ϕ 56° 39' 41.611"	1287.1m (568.8m) 600.1m (422.0m)
					Y=1,764,366.90	λ 132° 55' 35.230"	
		WRANGELL NARROWS CHANNEL LIGHT 37, 1975	561 324	590101	X=2,833,743.76	ϕ 56° 39' 59.636"	1844.7m (11.2m) 841.2m (180.7m)
					Y=1,766,187.38	λ 132° 55' 49.389"	
					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	J. R. Minton				COMPUTATION CHECKED BY	J. W. Massey	DATE 09/12/79
LISTED BY	J. R. Minton				LISTING CHECKED BY	J. W. Massey	DATE 09/12/79
HAND PLOTTING BY	J. R. Minton				HAND PLOTTING CHECKED BY	J. W. Massey	DATE 09/12/79

COMPILATION REPORT
TP-00637
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 high 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 photo interpretation of "boulder flats" and/or foul areas even though the photography was taken at near high water.

36. Offshore Details

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

37. Landmarks and Aids

(See Notes to Field Editor)

All lights are either triangulation or were located photogrammetrically.

38. Control for Future Surveys

None

COMPILATION REPORT (contd.)
TP-00 637

39. Junctions

See the attached form 76-36B, item 5.

40. Horizontal and Vertical Accuracy

Refer to the Photogrammetric Plot Report.

46. Comparison with Existing Maps

Comparison was made with USGS Quadrangles: Petersburg, Alaska, scale 1:63,360, dated 1953, minor revisions 1963 and 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:

William M. Maynard

William Maynard
Cartographer

Approved:

Jeter P. Battley, Jr.

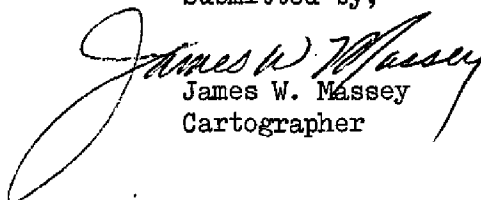
Jeter P. Battley, Jr.
Chief, Coastal Mapping Section

Addendum to the Compilation Report

1977 Field Edit of TP-~~006~~37

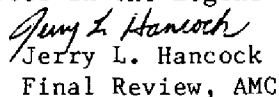
The 1977 field edit of TP-~~006~~37, applied to the area south of latitude 56°37' was applied in the Photogrammetric Branch at the Pacific Marine Center rather than the original compilation activity. No unusual difficulty was encountered in the edit application and, all questions have been resolved. *Rock heights were determined from approved tide data.

Submitted by,



James W. Massey
Cartographer

*The rock heights for the 1977 Field Edit were determined from approved tides but the rock heights for the 1978 Field Edit did not meet the requirements dictated by the Tides and Water Levels Division. Consequently, all rock heights were noted in the Legend as being based on predicted tide data.



Jerry L. Hancock
Final Review, AMC

Addendum to the Compilation Report

1978 Field Edit of TP-00637

The 1978 field edit, which applies to the area north of latitude $56^{\circ} 37'$, was applied in the Photogrammetric Branch at the Pacific Marine Center rather than the original compilation activity. No unusual difficulty was encountered in the edit application and, all questions have been answered. *Rock heights were applied from approved tide data.

Submitted by;

James R. Minton

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

Jerry L. Hancock
Final Review AMC

March 25, 1981

GEOGRAPHIC NAMES

FINAL NAME SHEET

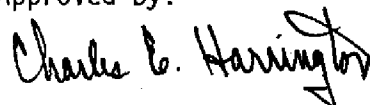
CM-7309 (Wrangell Narrows, Alaska)

TP-00637

Anchor Point
Beecher Pass
Big Gulch
Blind Island
Blind Point
Blind Slough
Boulder Flats
Burnt Island
Burnt Island Reef
Bush Top Island
California Boulder Point
Colorado Creek
Colorado Reef
Copoly Reef
Danger Point
False Island Point
Green Rocks
Halfmoon Anchorage
Inlet Point
Island Point

Keene Channel
Keene Island
Kupreanof Island
Lindenberg Peninsula
Mitkof Island
North Ledge
North Point
No Thorofare Point
Point Humbug
South Ledge
Spike Rock
Spruce Point
Vexation Point
Woewodski Island
Woody Island
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-00637 (1977)

TP-00637

1. PROJECTION AND GRIDS J. B. Jr.	2. TITLE J. B. Jr.	3. MANUSCRIPT NUMBERS J. B. Jr.	4. MANUSCRIPT SIZE J. B. Jr.
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY N. A.	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 N. A.
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE J. B. Jr.	13. LOW-WATER LINE J. B. Jr.	14. ROCKS, SHOALS, ETC. J. B. Jr.	15. BRIDGES J. B. Jr.
16. AIDS TO NAVIGATION J. B. Jr.	17. LANDMARKS J. B. Jr.	18. OTHER ALONGSHORE PHYSICAL FEATURES J. B. Jr.	19. OTHER ALONGSHORE CULTURAL FEATURES J. B. Jr.
PHYSICAL FEATURES			
20. WATER FEATURES J. B. Jr.	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. Jr.
CULTURAL FEATURES			
27. ROADS J. B. Jr.	28. BUILDINGS J. B. Jr.	29. RAILROADS J. B. Jr.	30. OTHER CULTURAL FEATURES J. B. Jr.
BOUNDARIES			
31. BOUNDARY LINES N. A.		32. PUBLIC LAND LINES N. A.	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES J. B. Jr.		34. JUNCTIONS J. B. Jr.	35. LEGIBILITY OF THE MANUSCRIPT J. B. Jr.
36. DISCREPANCY OVERLAY J. B. Jr.	37. DESCRIPTIVE REPORT J. B. Jr.	38. FIELD INSPECTION PHOTOGRAPHS N. A.	39. FORMS J. B. Jr.
40. REVIEWER J. Battley Jr. July 1977		SUPERVISOR, REVIEW SECTION OR UNIT	
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 George A. Morris Reviewed by J. W. Massey		SUPERVISOR J. W. Massey	
43. REMARKS This is a partial Field Edit Manuscript is incomplete. For a list of Field Edit Source Material submitted in 1977 see Form 76-360, Field Edit, Section II, Items 3, and 8			

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

PHOTOGRAMMETRIC OFFICE REVIEW

ZTP-00637 (1978)

1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)		7. PHOTO HYDRO STATIONS
8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
PHYSICAL FEATURES			
20. WATER FEATURES	21. NATURAL GROUND COVER		22. PLANETABLE CONTOURS
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
CULTURAL FEATURES			
27. ROADS	28. BUILDINGS	29. RAILROADS	30. OTHER CULTURAL FEATURES
BOUNDARIES			
31. BOUNDARY LINES		32. PUBLIC LAND LINES	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES	34. JUNCTIONS		35. LEGIBILITY OF THE MANUSCRIPT
36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
40. REVIEWER		SUPERVISOR, REVIEW SECTION OR UNIT	
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		12/31/79	SUPERVISOR James W. Massey
Reviewer James W. Massey		12/79	
43. REMARKS The 1978 field edit completes this manuscript. The field edit data is itemized on form 76-36C, Field Edit, part II, sections 3 and 8.			

FIELD EDIT REPORT
TP-00637
Wrangell Narrows, Alaska
OPR-448-DA-77
NOAA Ship DAVIDSON

51 METHODS

Field edit was accomplished in accordance with Project Instructions for OPR-448-DA-77 dated 3 August 1977, and with section 3.2.4 of the Hydrographic Manual. OPODER methods were used for field work and coordination with hydrography.

Items on the discrepancy print in the working area were transferred to the field print, which was taken into the field. No photos were taken out for field work as only one set of prints was provided in the manuscript package. These prints (numbers 74C322 and 74C324) were needed for final data compilation and submission. Field investigation of the area was done by skiff on 26 October thru 30 October 1977. Because of insufficient time, only the part of the manuscript that appears on the hydrographic survey was edited during this season; hydrography, horizontal control and tide control only extended as far north as 56°37'N. Inspection of the remainder of the manuscript should be completed during the 1978 field season when hydrographic operations resume in that area.

Positions of rocks, ledges and other landmarks were found by three-point visual sextant fixes with check angles taken. Field inspection was done as close to low water as possible to insure complete coverage. Data was recorded on the field print and in a field volume; positions were computed each evening and observation data logged in a sounding volume. The logged data and computations are included with the data package. The fixes are referenced to Greenwich Mean Time and are logged by Julian Day.

On both the matte photos and field edit sheet, standard colors as per PMC OPODER change no. 2-77 were used as follows:

Violet - verification
Green - Deletion
Red - addition/revision

On the Final Field Sheet the colors were also standard:

Black - verification
Blue - non-verification
Red - addition/revision

52 ADEQUACY OF COMPILATION

The map is complete as compiled from the photographs. Unfortunately, the photos were flown very near high tide so very few foreshore features were visible. With the application of field edited features the manuscript is now adequate for charting, up to the 1977 field edit limits.

53 MAP ACCURACY

The high water line as compiled is accurate. It compared well with the water limits obtained from hydrography. Very few foul limits were compiled; these were supplemented by visual fixes and hydrographic data. Many reefs and ledges were compiled on the manuscript, especially around Keene Island and Beecher Pass; most of these proved to be dense kelp beds, as verified by check fixes from a boat while stationary in the kelp. There were dense growths on shoal areas and along the edge of the foul zone on each shore. The hydrographic data shows most areas originally marked as reefs on the map to be shoal, but not protruding above the low water line. Those exposed at low water were field located.

54 RECOMMENDATIONS

The area north of Keene Island, through Keene Channel, is shoal and densely grown with kelp. Individual reefs were located but it is recommended that the whole area be delineated foul, as only small boats with local knowledge should attempt passage through the Channel. Limits of the kelp bed were established by hydrographic fixes with a survey launch on JD 302; see hydrographic data.

No cronapague photos for the manuscript were supplied with the package to the DAVIDSON. Before operations resume in the area, it is recommended that the cronapaques of all photos be supplied.

56 MISCELLANEOUS

TP-00637 and TP-00551 do not junction well; the shorelines

are not colinear on the two manuscripts. The two manuscripts were compiled from photographs from different years, 1972 and 1974; perhaps this can be resolved photogrammetrically.

NOAA form 76-40, Nonfloating Aids or Landmarks for Charts, has been completed for the manuscript and is appended. All the fixed aids listed on the 76-40 have been located to third order class I standards of accuracy.

Submitted by,

Ellen McDougal for
Linda F. Haas
ENS, NOAA

Approved and Forwarded by,

C. William Taylor
for Christian Andreasen
CDR, NOAA
Commanding Officer

FIELD EDIT REPORT
TP-00637

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

51. METHODS

Field Edit on Manuscript TP-0037 was accomplished 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. All original data was recorded on the Field Print or in a notebook at the time of field edit. See fix volume for TP-00637 for fix data.

The Field Print was taken into the field along with matte ratio photo numbers 74C 568 and 74C 589 which cover this T-Sheet. The field edit was conducted mostly by skiff. A small amount of work was done by walking the beach (sextant fixes). Field edit was conducted on 18, 20, and 21 September (JD's 261, 263 and 264) (Refer to appendix for times). The data was compiled and inked on the MYLAR Field Edit Sheet. Standard Ink Colors as per PMC OPORDER Change No. 2-77, dated 23 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 DP'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 322 and 74C 568 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 at Anchor Pt., on the Channel Light 32 structure, and at Papke's Landing provided tides control for this T-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.

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.				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				NONFLOATING AIDS CHARTS				ORIGINATING ACTIVITY			
REPORTING UNIT (Field Party, Ship or Office)		STATE		LOCALITY		DATE		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED		ORIGINATING ACTIVITY			
TO BE CHARTED <input checked="" type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED		FMC Photogrammetric Br.		Alaska		Wrangell Narrows		12/27/79				<input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> COMPILATION ACTIVITY <input type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH (See reverse for responsible personnel)			
OPR PROJECT NO.		JOB NUMBER		SURVEY NUMBER		DATUM		POSITION							
0325-DA-78		CM-7309		TP-00637		North American 1927									
CHARTING NAME		DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)		LATITUDE		LONGITUDE		OFFICE		FIELD		CHARTS AFFECTED			
				° / ' " D.M. Meters		° / ' " D.P. Meters									
LIGHT	(WRANGELL NARROWS CHANNEL LIGHT 17, 1978 (Field Position))	56	37	141.718	132	57	10.849				F-1-6-L Oct. 1978		17375		
LIGHT	(WRANGELL NARROWS CHANNEL LIGHT 18, 1978 (Field Position))	56	37	51.081	132	56	47.925				F-1-6-L Oct. 1978		17375		
LIGHT	Wrangell Narrows Channel Light 19 (BUSH TOP ISLAND LIGHT, 1929)	56	38	01.771	132	56	43.581				Triang. Rec. Oct. 1978		17375		
LIGHT	(WRANGELL NARROWS CHANNEL LIGHT 21, 1958)	56	38	21.043	132	55	56.161				Triang. Rec. Oct. 1978		17375		
LIGHT	Blind Point Range Front Light 24 This light was not in position at the time of field edit.										V-Vis. ^{adj. tide} Oct. 1978		17375		
LIGHT	Blind Point Range Rear Light This is only a temporary location.	56	38	41.04	132	55	07.11				F-1-6-L Oct. 1978		17375		
LIGHT	Wrangell Narrows Channel Light 25	56	38	47.97	132	55	14.86				F-4-8-L Oct. 1978		17375		
LIGHT	(WRANGELL NARROWS CHANNEL LIGHT 27, 1958)	56	38	55.972	132	55	12.134				Triang. Rec. Oct. 1978		17375		
LIGHT	(WRANGELL NARROWS CHANNEL LIGHT 31, 1978 (Field Position))	56	39	21.606	132	55	26.612				F-1-6-L Oct. 1978		17375		
LIGHT	(WRANGELL NARROWS CHANNEL LIGHT 32, 1958)	56	39	24.827	132	55	21.931				Triang. Rec. Oct. 1978		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)
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.	

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

NONFLOATING AIDS FOR CHARTS

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

<input checked="" type="checkbox"/> TO BE CHARTED (Field Party, Ship or Office)		REPORTING UNIT	LOCALITY	DATE	ORIGINATING ACTIVITY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> COMPILATION ACTIVITY <input type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH (See reverse for responsible personnel)
<input type="checkbox"/> TO BE REVISED	<input type="checkbox"/> TO BE DELETED	PMC Photogrammetric Br. Seattle, Wa.	Wrangell Narrows	12/27/79	
The following objects HAVE <input checked="" type="checkbox"/> BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUES AS LANDMARKS.					
OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM		
Ø325-DA-78	CM-7309	TP-ØØ637	North American 1927		

CHARTING NAME	JOB NUMBER	SURVEY NUMBER	DATUM	POSITION				METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED
				LATITUDE		LONGITUDE		OFFICE	FIELD	
				°	'	°	'			
Ø 325-DA-78	CM-7309	TP-ØØ637	North American 1927	° <td>'<td>°<td>'<td></td><td></td><td></td></td></td></td>	' <td>°<td>'<td></td><td></td><td></td></td></td>	° <td>'<td></td><td></td><td></td></td>	' <td></td> <td></td> <td></td>			
	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)									
LIGHT		(WRANGELL NARROWS CHANNEL LIGHT 8, 1977 (Field Position))	56 35	40.216 1244.0	1 32 58	21.576 368.2		F-3-6-L Oct. 30, 1977	17375	
LIGHT		(Burnt Island Range Front Light (BURNT ISLAND FORWARD RANGE LIGHT, 1977 (Field Position))	56 36	26.488 819.3	1 32 58	31.118 530.8		F-3-6-L Oct. 30, 1977	17375	
LIGHT		(Burnt Island Range Rear Light (BURNT ISLAND AFTER RANGE LIGHT, 1977 (Field Position))	56 36	37.960 1174.2	1 32 58	32.346 551.8		F-3-6-L Oct. 30, 1977	17375	
LIGHT		(WRANGELL NARROWS CHANNEL LIGHT 10, 1977 (Field Position))	56 36	08.752 270.7	1 32 58	26.202 447.0		F-3-6-L Oct. 30, 1977	17375	
LIGHT		(Wrangell Narrows Channel Light 11 (BURNT ISLAND LIGHT, 1977 (Field Position))	56 36	27.545 852.0	1 32 58	25.296 431.5		F-3-6-L Oct. 30, 1977	17375	
LIGHT		(Wrangell Narrows Channel Light 14 (BURNT ISLAND REEF LIGHT, 1977 (Field Position))	56 36	41.417 1281.1	1 32 58	09.352 159.5		F-3-6-L Oct. 30, 1977	17375	
LIGHT		(BUSH TOP ISLAND RANGE FRONT LIGHT, 1978 (Field Position))	56 37	54.033 1671.3	1 32 57	00.287 4.9		F-1-6-L Oct. 1978	17375	
LIGHT		(BUSH TOP ISLAND RANGE REAR LIGHT, 1978 (Field Position))	56 38	05.926 183.3	1 32 56	48.309 823.5		F-1-6-L Oct. 1978	17375	
LIGHT		(WRANGELL NARROWS CHANNEL LIGHT 15, 1978 (Field Position))	56 37	24.731 765.0	1 32 57	33.709 574.8		F-1-6-L Oct. 1978	17375	
LIGHT		(WRANGELL NARROWS CHANNEL LIGHT 16, 1978 (Field Position))	56 37	25.090 776.1	1 32 57	25.445 433.9		F-1-6-L Oct. 1978	17375	

11/11/79

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 P - Photogrammetric L - Located Vis - Visually V - Verified 1 - Triangulation 5 - Field identified 2 - Traverse 6 - Theodolite 3 - Intersection 7 - Planetable 4 - Resection 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.	

[illegible]

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	FIELD ACTIVITY REPRESENTATIVE
ACTIVITIES	OFFICE ACTIVITY 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 P - Photogrammetric Vis - Visually 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	III. 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 II. 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.	

SHORELINE

61. GENERAL STATEMENT: See the Summary included in this Descriptive Report.

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

The inlet area known as Blind Slough was not accessible to field investigation. This area was labeled "Not navigable, except with extreme caution at high tide" as recommended by the Field Editor.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not 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 surveys OPR-448-DA-77 and OPR-325-DA-78 provide coverage for this final shoreline map. These surveys were assigned as Navigable Area Surveys and the field editor for this coastal map assumed responsibility for the foreshore and some offshore features. This data was then transferred from the Class I Map to the hydrographic smoothsheets.

South of Lat. $56^{\circ}37'$ verified smoothsheet H-9729 (1977) at 1:10,000 scale compared well and no significant differences were noted.

North of Lat. $56^{\circ}37'$ verified smoothsheet H-9795 (1978) at 1:10,000 scale was compared. During final review three mapped rock heights were corrected which are reflected on the smoothsheet. See correspondence letter to the Chief of Hydrographic Surveys dated April 29, 1981 concerning this amended data. A copy of this letter will be forwarded to Nautical Charts.

In various areas where the photogrammetric shallow limits differ 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.

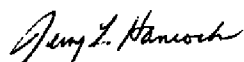
65. COMPARISON WITH NAUTICAL CHARTS:

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

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

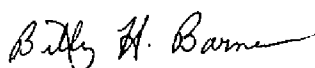
This map complies with the Project Instructions, and meets the requirements for Bureau Standards and National Standards of Map Accuracy.

Submitted by:



Jerry L. Hancock
Final Reviewer

Approved for forwarding:



Billy H. Barnes
Chief, Photogrammetric Branch, AMC

Approved:



for John D. Penner 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.

0A/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:
0A/C3222
0A/C35