

TP-00551

TP-00551

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. TP-00551	Edition No. 1
Job No. CM-7206	
Map Classification FINAL FIELD EDITED MAP	
Type of Survey SHORELINE	
LOCALITY	
State ALASKA	
General Locality ZAREMBO ISLAND	
Locality WRANGELL NARROWS	
1972 TO 1977	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
DESCRIPTIVE REPORT - DATA RECORD		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, Norfolk, VA		SURVEY TP. <u>00551</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final</u> JOB <u>CM-7206</u>	
OFFICER-IN-CHARGE Jeffrey G. Carlen		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB <u>PH-</u> MAP CLASS <u></u> SURVEY DATES: 19 <u></u> TO 19 <u></u>	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Aerotriangulation Sept. 19, 1972 Compilation Feb. 22, 1973		Field Jan. 26, 1972	
II. DATUMS			
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify)	
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify)	
3. MAP PROJECTION Polyconic		4. GRID(S) STATE <u>Alaska</u> ZONE <u>1</u>	
5. SCALE 1:10,000		STATE <u></u> ZONE <u></u>	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: <u>Analytic-Block</u> LANDMARKS AND AIDS BY		<u>D. Norman</u>	<u>Feb. 1973</u>
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Calcomp</u> CHECKED BY		<u>R. Robertson</u> <u>R. Robertson</u>	<u>Feb. 1974</u> <u>Feb. 1974</u>
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: <u>Wild B-8</u> SCALE: <u>1:15,000</u>		<u>L. Neterer, Jr. & C. Blood</u> <u>R. White & A. Rauck, Jr.</u> <u>None</u> <u>None</u>	<u>4-73 & 5-77</u> <u>4-73 & 5-77</u> <u></u> <u></u>
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: <u>Smooth Draft</u> SCALE: <u>1:10,000</u>		<u>C. Parker & F. Mauldin</u> <u>R. White & L. Neterer, Jr.</u> <u>None</u> <u>None</u>	<u>4-73 & 5-77</u> <u>7-73 & 6-77</u> <u></u> <u></u>
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		<u>C. Parker & F. Mauldin</u> <u>R. White & L. Neterer, Jr.</u>	<u>4-73 & 5-77</u> <u>7-73 & 6-77</u>
6. APPLICATION OF FIELD EDIT DATA BY		<u>R. White & L. Neterer, Jr.</u> <u>F. Margiotta & C. Blood</u>	<u>7-73 & 6-77</u> <u>2-76 & 3-78</u>
7. COMPILATION SECTION REVIEW BY		<u>J. Minton & J. Roderick</u> <u>J. Roderick</u>	<u>3-76 & 11-78</u> <u>Nov. 1978</u>
8. FINAL REVIEW BY		<u>C. Blood</u>	<u>June 1987</u>
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		<u>J. Byrd</u>	<u>July 1988</u>
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		<u>P. Dempsey</u>	<u>Nov 1988</u>
11. MAP REGISTERED - COASTAL SURVEY SECTION BY			

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

TP-00551

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "E" FL=152.71mm		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		X (C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE	
<input checked="" type="checkbox"/> PREDICTED TIDES				Pacific	
<input type="checkbox"/> REFERENCE STATION RECORDS				MERIDIAN	
<input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				120th	
				<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
*72 E(C) 3980-3982	June 23, 1972	09:30	1:30,000	7.6 ft. above MLLW
*72 E(C) 3852-3854	June 22, 1972	13:05	1:30,000	10.0 ft. above MLLW
72 E(C) 4000-4003	June 23, 1972	09:48	1:30,000	8.3 ft. above MLLW

REMARKS

*Compilation photographs

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was delineated from the photographs listed above.

3. SOURCE OF MEAN LOWER LOW-WATER LINE:

None delineated, the mean lower low-water photography was not available for compilation.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH CM-7309 TP-00637	EAST TP-00552	SOUTH TP-00556	WEST PH-6627 T-13051
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REMARKS

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

TP-00551

HISTORY OF FIELD OPERATIONS

1. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	M. Fleming	9/75-10/75
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None D. Eilers 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	D. Eilers
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)

72 E(C) 3980-3982

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

1 film field edit ozalid, 1 paper field edit ozalid
1 field edit reportNOAA FORM 76-36C
(3-72)

TP-00551

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION

☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	C. Andreassen	Sept. 1977
2. HORIZONTAL CONTROL	RECOVERED BY None ESTABLISHED BY None 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 None LOCATED (Field Methods) BY E. McDougal IDENTIFIED BY None	Sept. 1977
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 E. McDougal	Sept. 1977
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) 72 E(C) 3852 and 3854			
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 None			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division) 1 film field edit ozalid, 1 film sheet with plotted fixes, 1 field edit report with 1 form 76-40, 1 form 275 (volume of fix data), computer readouts for fix data.			

I. MANUSCRIPT COPIES				
COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit.	April, 1973	Class III Map	June 28, 1974	June 28, 1974
All details redrafted as a result of bridge adjustment.	April, 1974	Class III Map	None	None
Field edit applied to the entrance to Wrangell Narrows only.	Feb., 1976	Class III Map	Mar. 18, 1976 for entrance only	
Compilation complete to north limit. Pending field edit.	May, 1977	Class III Map		Aug. 16, 1977

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
3. ☐ 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 76-40 567 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
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAR. 18, 1976 for entrance only
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAR. 18, 1976 for entrance only
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAR. 18, 1976 for entrance only

NOAA FORM 76-36D
(3-72)

TP-00551

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

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Field edit applied, compilation complete	Mar. 1978	Class I Map	Nov. 27, 1978 Jan. 25, 1979 Dec. 1981	Nov. 28, 1978 Jan. 25, 1979

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____3. ☐ 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:

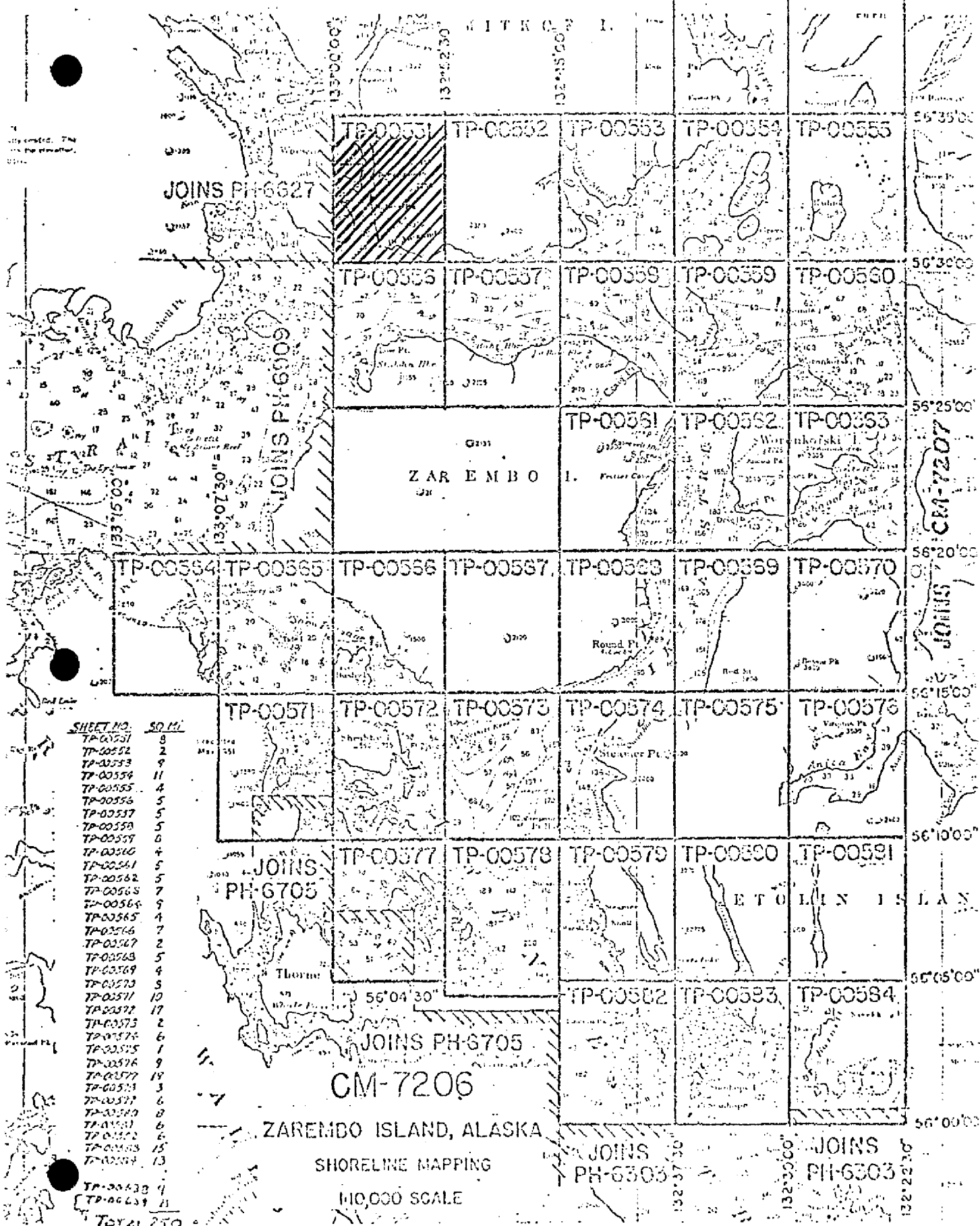
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

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	

JOINS CM-7209

TP-00530 TP-00539 56°40'0" 7



SHEET NO. 50 MI

TP-00531	8
TP-00532	2
TP-00533	9
TP-00534	11
TP-00535	4
TP-00536	5
TP-00537	5
TP-00538	5
TP-00539	6
TP-00540	4
TP-00541	5
TP-00542	5
TP-00543	7
TP-00544	9
TP-00545	7
TP-00546	4
TP-00547	2
TP-00548	5
TP-00549	4
TP-00550	3
TP-00551	10
TP-00552	17
TP-00553	2
TP-00554	6
TP-00555	1
TP-00556	9
TP-00557	19
TP-00558	3
TP-00559	6
TP-00560	8
TP-00561	6
TP-00562	6
TP-00563	15
TP-00564	13
TP-00565	4
TP-00566	11

TOTAL 250

ZAREMDO ISLAND, ALASKA

SHORELINE MAPPING

1:100,000 SCALE

REVISED 5/18/72 R.W.M.
REVISED 4/23/73 R.W.M.

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00551

This final shoreline map is one of thirty-six 1:10,000 scale maps designated as CM-7206, Zarembo Island, Alaska.

The purpose of this map was to provide contemporary shoreline in support of hydrographic operations and to aid in chart revision.

Field work prior to compilation during the 1972 field season consisted of recovery and premarking of horizontal control for aerotriangulation.

This map area was photographed in June 1972 with the RC-9 "M" camera at 1:60,000 scale using panchromatic film. The map area was also photographed in June 1972 with the RC-8 "E" camera at 1:30,000 scale using color film.

Aerotriangulation was completed at the Washington Office in February 1973 and revised in January 1974.

This map was compiled at the Norfolk Office in two stages. The Summer Strait coast in July 1973 and Wrangell Narrows in June 1977.

Field edit was acquired for TP-00551 during the 1975 and 1977 field season. Field edit was applied at AMC in March 1976 and November 1978.

Final review was accomplished at the Atlantic Marine Center in June 1987. A Chart Maintenance Print was prepared and forwarded to the Marine Charts Branch.

This Descriptive Report contains all pertinent information used to compile this Final Field Edited Map. The original base manuscript and all related data were forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

TP-00551

There was no *field inspection* prior to compilation. Field work accomplished was limited to the recovery and premarking of the horizontal control necessary for the aerotriangulation of the project.

Photogrammetric Plot Report
Zarembo Island, Alaska
CM-7206
February 1973

21. Area Covered

This report pertains to 34 sheets in the vicinity of Zarembo Island, Alaska. The sheets covered are TP-00551 through TP-00584. All are 1:10,000 scale.

22. Method

Six strips of RC-9 photography at 1:60,000 scale and three strips of RC-8 photography at 1:30,000 scale were bridged by analytic aerotriangulation methods and adjusted to ground with the block adjustment program. Points were established for determining ratios of 1:30,000 scale support photography. Sufficient points were also established for setting 1:30,000 scale compilation photography. These points were plotted by the Coradomat.

23. Adequacy of Control

The control was adequate. Ten horizontal control stations were used in the block adjustment. Shoreline points with approximately 0 elevation were used as vertical control.

The horizontal positions of several light structures were determined in the block adjustment. The positions of these structures are to be verified by field methods as a check on the block adjustment.

24. Supplemental Data

USGS topographic quadrangles were used in determining elevations for strip adjustments.

25. Photography

The photography was adequate, however, on sheet TP-00565, there is no coverage with 1:30,000 scale photography of Rookery and Tide Islands.

On sheet TP-00559 it was impossible to establish points for the compilation of Five Mile Island. It is recommended that a field party establish points for the graphic compilation. A ratio photograph was ordered and sent to the compilation office.

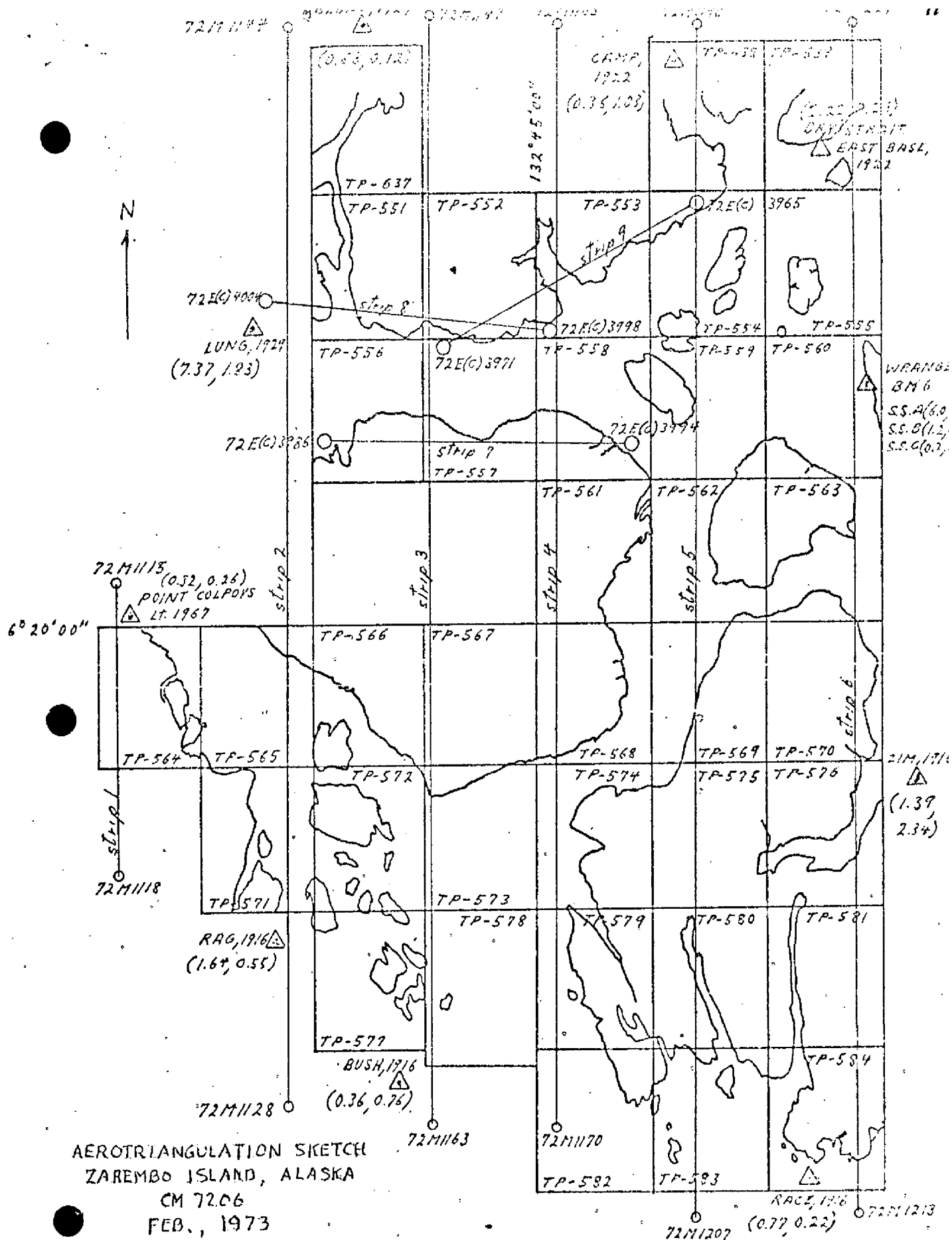
submitted by,

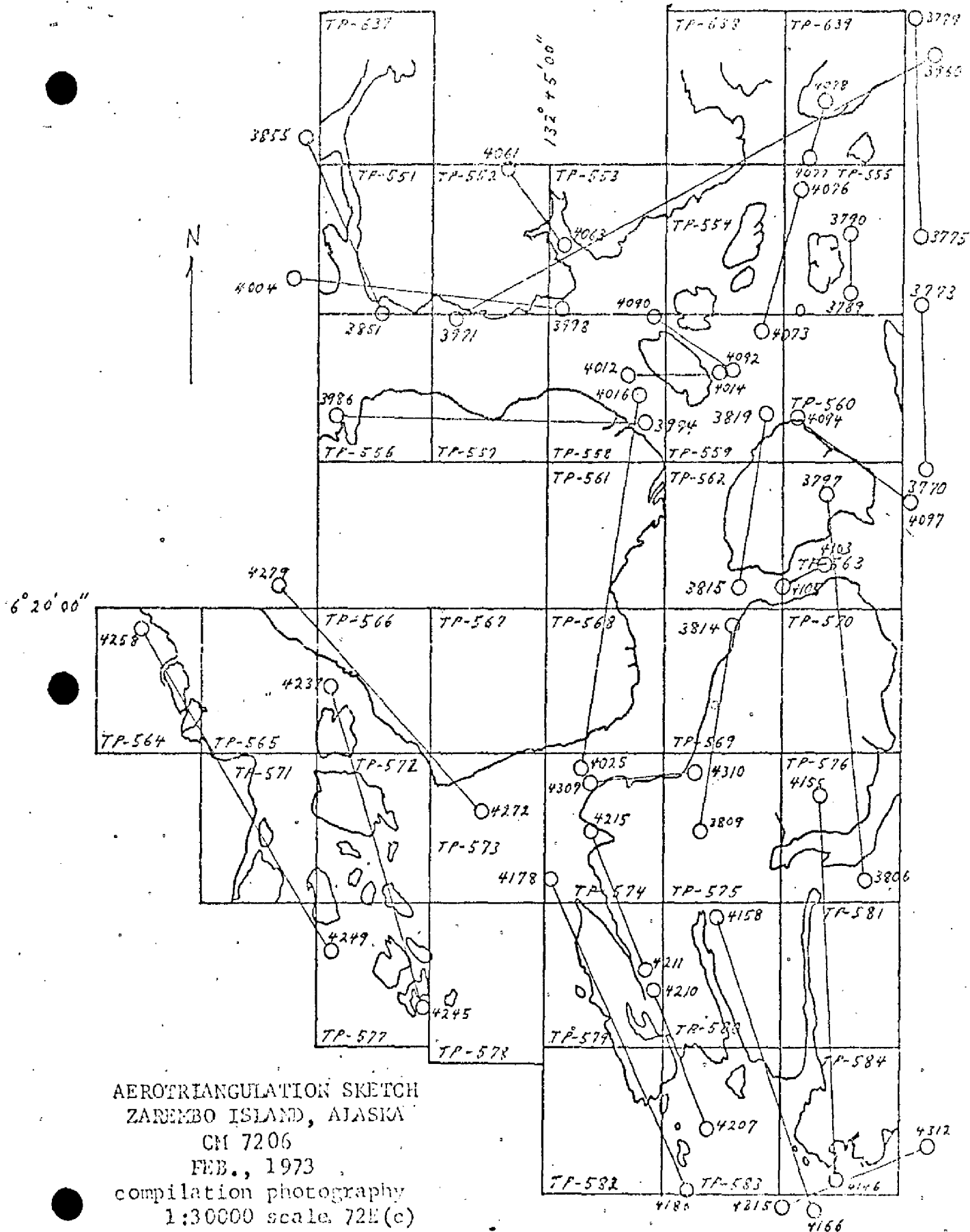
Don O. Norman

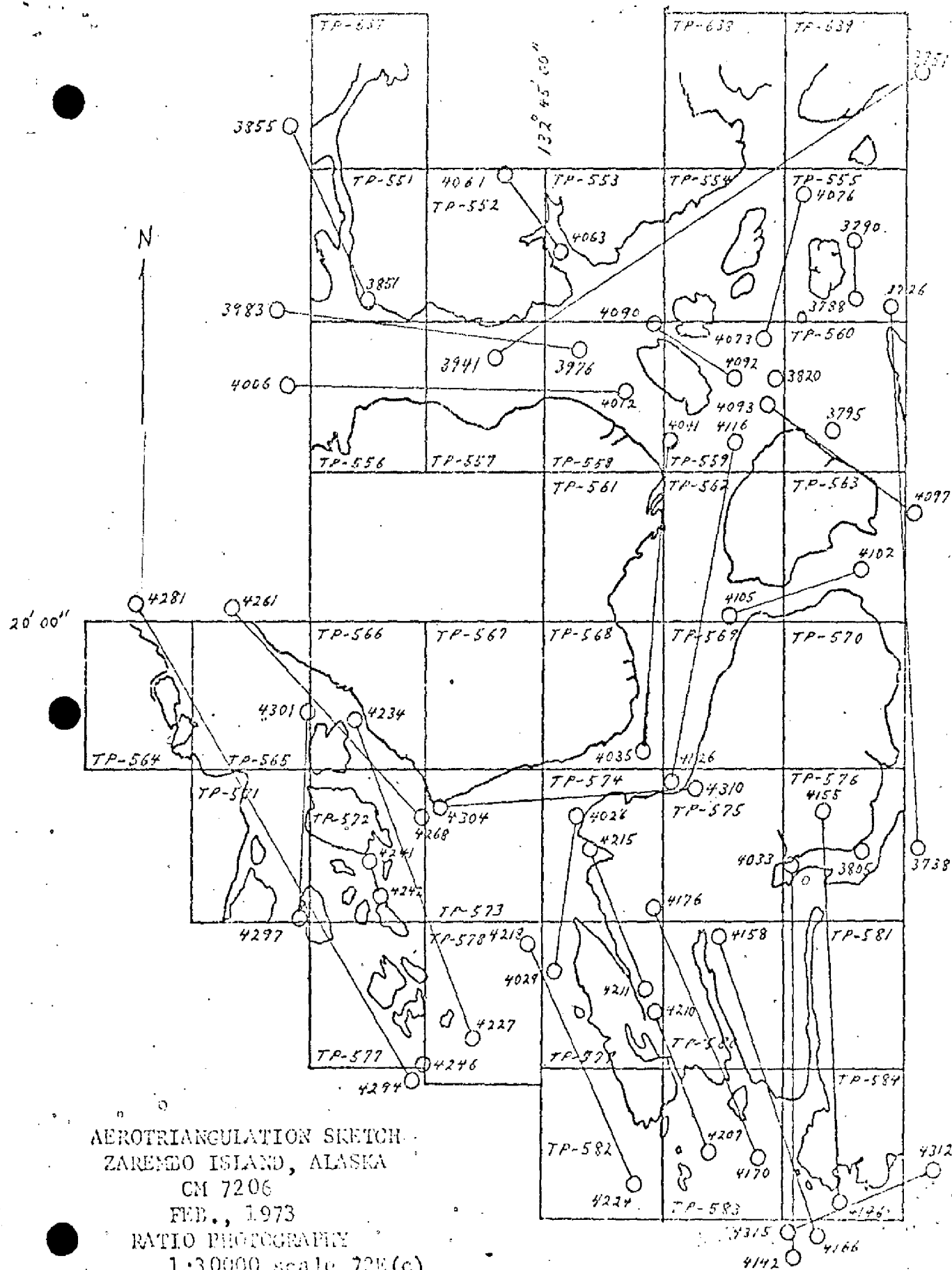
Don O. Norman

Approved by

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







AEROTRIANGULATION SKETCH
ZAREMBO ISLAND, ALASKA
CM 7206

FEB., 1973

RATIO PHOTOGRAPHY
1:30000 scale 72E(c)

ADDENDUM
ZARENBO ISLAND, ALASKA
CM-7206
January 1974

In the compilation office at the Atlantic Marine Center, it was noticed that when a model in the vicinity of Wrangell Narrows (TP-00551) was set by holding the compilation points, the navigation lights would not plot in their proper positions. In this vicinity the horizontal control station LUNG, 1929, was weighted in the block and would not hold within 7 feet.

It was decided to remeasure several models to determine refined coordinates for MIDWAY ROCK LIGHT, 1929, and PORT ALEXANDER LIGHT, 1929. Plate 72E(C)4004 was also remeasured for another refined coordinate for LUNG, 1929. At this time it was noticed that the refined coordinate for point 004320 was not correct. Corrections were made and all these refined coordinates were placed in their proper place in the block.

Another block adjustment was run just as before, except MIDWAY ROCK LIGHT and PORT ALEXANDER LIGHT were also weighted. This produced satisfactory results. LUNG fit within 0.8 feet, MIDWAY ROCK LIGHT within 2.2 feet and PORT ALEXANDER LIGHT within 3.1 feet. In this same vicinity compilation points changed by as much as 16.7 feet.

It is believed that this block is now properly adjusted and will meet national map accuracy standards. New T-sheets will be ruled and forwarded to AMC for compilation.

Submitted by,

Don O. Norman

Don O. Norman

Approved by:

John D. Perrow, Jr.
John D. Perrow, Jr.

Chief, Aerotriangulation Section

Note: After thorough research it was determined that the name PORT ALEXANDER LIGHT was used incorrectly in this report for POINT ALEXANDER LIGHT 1929. POINT ALEXANDER LIGHT 1929 is adjacent to LUNG 1929 and MIDWAY ROCK LIGHT 1929. PORT ALEXANDER LIGHT is located approximately 2° west of the project area.

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	GEODETIC DATUM		ORIGINATING ACTIVITY		REMARKS	
					COORDINATES IN FEET STATE Alaska ZONE 1	N.A. 1927	COASTAL POSITION φ LATITUDE λ LONGITUDE	Coastal Mapping Division, AMC		
TP-00551	CM-7206									
60 (USE), 1902		Vol. 2 P. 527		7	X=	φ 56° 34' 50.934"				
					Y=	λ 132° 58' 33.099"				
61 (USE), 1910		Vol. 2 P. 527		6	X=	φ 56° 34' 46.284"				
					Y=	λ 132° 58' 09.786"				
63 (USE), 1910		Vol. 2 P. 527		4	X=	φ 56° 34' 14.831"				
					Y=	λ 132° 58' 07.661"				
62 (USE), 1910		Vol. 2 P. 527		3	X=	φ 56° 34' 10.807"				
					Y=	λ 132° 58' 31.996"				
65 (USE), 1910		Vol. 2 P. 527		2	X=	φ 56° 33' 59.936"				
					Y=	λ 132° 57' 30.450"				
64 (USE), 1910		Vol. 2 P. 528		1	X=	φ 56° 33' 49.500"				
					Y=	λ 132° 58' 04.030"				
66 (USE), 1910		Vol. 1 P. 180		9	X=	φ 56° 33' 22.670"				
					Y=	λ 132° 57' 45.383"				
67 (USE), 1910		Vol. 1 P. 180		10	X=	φ 56° 33' 29.340"				
					Y=	λ 132° 57' 21.093"				
BOLT, 1910		Vol. 1 P. 180		11	X=	φ 56° 32' 59.662"				
					Y=	λ 132° 58' 04.861"				
HUM, 1910		Vol. 1 P. 180		12	X=	φ 56° 32' 53.341"				
					Y=	λ 132° 57' 33.993"				
COMPUTED BY A. C. Rauck, Jr.				DATE 3/14/73	COMPUTATION CHECKED BY F. Margiotta					DATE 3/19/73
LISTED BY				DATE	LISTING CHECKED BY					DATE
HAND PLOTTING BY				DATE	HAND PLOTTING CHECKED BY					DATE

NOAA FORM 76-41
(6-75)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	CM-7206	GEODETTIC DATUM		ORIGINATING ACTIVITY	
			STATE	ZONE	COASTAL MAPPING DIVISION, AMC	
TP-00551			N.A. 1927			
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION	
			Alaska	1	ϕ LATITUDE	REMARKS
					λ LONGITUDE	
TREE, 1910	Vol. 1 P. 180	13	X=		ϕ 56° 32' 33.071"	
			Y=		λ 132° 58' 15.109"	
GOLD, 1910	Vol. 1 P. 180	14	X=		ϕ 56° 32' 17.512"	
			Y=		λ 132° 57' 34.851"	
MOD, 1910	Vol. 1 P. 181	15	X=		ϕ 56° 32' 03.502"	
			Y=		λ 132° 57' 35.386"	
COAL, 1910	Vol. 1 P. 181	18	X=		ϕ 56° 32' 04.718"	
			Y=		λ 132° 58' 55.268"	
SLIDE, 1910	Vol. 1 P. 181	16	X=		ϕ 56° 31' 42.231"	
			Y=		λ 132° 57' 25.530"	
SIT, 1910	Vol. 1 P. 181	19	X=		ϕ 56° 31' 21.637"	
			Y=		λ 132° 58' 34.342"	
GREEN, 1910	Vol. 1 P. 181	21	X=		ϕ 56° 31' 13.732"	
			Y=		λ 132° 57' 17.319"	
IN, 1910	Vol. 1 P. 181	20	X=		ϕ 56° 31' 06.197"	
			Y=		λ 132° 58' 37.151"	
WORK, 1910	Vol. 1 P. 182	22	X=		ϕ 56° 30' 55.734"	
			Y=		λ 132° 58' 45.900"	
FIRST, 1929	Vol. 2 P. 483	23	X=		ϕ 56° 30' 40.429"	
			Y=		λ 132° 59' 24.760"	
COMPUTED BY A. C. Rauck, Jr.		DATE 3/14/73	COMPUTATION CHECKED BY F. Margiotta		DATE 3/19/73	
LISTED BY		DATE	LISTING CHECKED BY		DATE	
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE	

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

NOAA FORM 76-41 (6-75)		DESCRIPTIVE REPORT CONTROL RECORD				NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION		U.S. DEPARTMENT OF COMMERCE	
MAP NO.	JOB NO.	CM-7206	GEODETTIC DATUM		ORIGINATING ACTIVITY				
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS		
			STATE	ZONE	ϕ LATITUDE	λ LONGITUDE			
TP-00551			N.A.	1927	Coastal Mapping Division, AMC				
			Alaska	1					
START, 1910	Vol. 1 P. 182	24	X=		ϕ 56° 30' 33.976"				
			Y=		λ 132° 56' 55.207"				
ALEX, 1916	Vol. 1 P. 141	37	X=		ϕ 56° 30' 22.948"				
			Y=		λ 132° 56' 03.039"				
DEER, 1916	Vol. 1 P. 141	38	X=		ϕ 56° 30' 01.920"				
			Y=		λ 132° 53' 48.416"				
			X=		ϕ				
			Y=		λ				
			X=		ϕ				
			Y=		λ				
			X=		ϕ				
			Y=		λ				
			X=		ϕ				
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			Y=		λ				
			X=		ϕ				
			Y=		λ				
			X=		ϕ				
			Y=		λ				
			X=		ϕ				
			Y=		λ				
COMPUTED BY A. C. Rauck, Jr.	DATE 3/14/73	COMPUTATION CHECKED BY Frank Margiotta				DATE 3/19/73			
LISTED BY	DATE	LISTING CHECKED BY				DATE			
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY				DATE			

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

COMPILATION REPORT

TP-00551

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter, using 1:30,000 scale color photography. The compilation of the Sumner Strait coast was in July 1973, and Wrangell Narrows in June 1977. The stage of tide was above mean lower-low water at the time of photography, therefore, detail which covers by tide is only partially compiled. The quality of the photography is adequate for shoreline compilation.

32. CONTROL:

Refer to the Photogrammetric Plot Report, dated February 1973 and the Addendum dated January, 1974.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable. Drainage was delineated from the compiler's interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line and alongshore details were delineated from the compiler's interpretation of the photography.

36. OFFSHORE DETAILS:

Offshore details were delineated from the compiler's interpretation of the photographs. Details which were covered by the tide at the time of photography were not compiled.

37. LANDMARKS AND AIDS:

There were no charted landmarks and none were noted during compilation. Form 76-40 concerning the charted lights was submitted to the field for verification.

38. CONTROL FOR FUTURE SURVEY:

None.

TP-00551

39. JUNCTIONS:

A satisfactory junction was made with all adjoining contemporary maps. Refer to the Data Record Form 76-36B, item 5.

40. HORIZONTAL AND VERTICAL ACCURACY:

No Statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with the U.S. Geological Survey quadrangle PETERSBURG (C-3) Alaska, dated 1953, minor revisions 1963, scale 1:63,360.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the U.S. Coast and Geodetic Survey Chart 8160, 7th edition, dated July 4, 1970, scale 1:80,000.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Charles E. Blood
for

Charles Parker
Cartographic Aid
April 11, 1973

Also:

Fay T. Mauldin

Fay T. Mauldin
May 26, 1977

Approved and forwarded:

J. C. Rauck, Jr. for

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

ADDENDUM TO THE COMPILATION REPORT

TP-00551

FIELD EDIT

Field edit was acquired in two parts, the Shelikof Strait Coast in 1975 and Wrangell Narrows in 1977.

Field edit of 1975 submitted positions for 2 additional fixed aids to navigation.

It was discovered that the 1977 field editor made a plus 3 hour error in Z times for rock fixes No's. 29, 30, 31, and 33.

The heights of these rocks, along with the erroneous times were taken from the field film ozalid. Subsequently, it was found that the times as recorded in the Field Edit Sounding Volume were corrected. The use of these corrected times of the sounding volume effected the symbolization and heights of these four rocks.

Field edit was adequate.

Submitted by:

Charles E. Blood
for

A. C. Rauck, Jr.
August 21, 1979

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7206 (Clarence and Sumner Straits, Alaska)

TP-00551

Alexander, Point

Battery Islets

Boulder Point

December Point

Deception Point

Hicks Point

Lockwood, Point

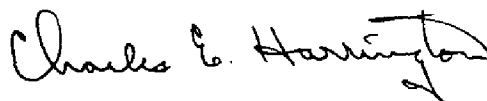
Mitkof Island

Sumner Strait

Woewodski Island

Wrangell Narrows

Approved:



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

OPR 448 FIELD EDIT

COVER SHEET

MANUSCRIPTS TP-00551, TP-00556, and TP-00557

Field edit reports for the above three manuscripts follow. Maps TP-00551 and TP-00556 apply to hydrographic survey H-9571. Map TP-00557 applies to the incomplete survey H-9572. This manuscript has been field edited only for the area corresponding to the completed work on H-9572.

All fixes taken in support of this field edit have been treated as hydrographic data and logged as detached positions. Verification of these fixes is to be accomplished in conjunction with survey verification at the Pacific Marine Center. These data are abstracted in each report.

Numerous features have been identified photogrammetrically. These require compilation by the Coastal Mapping Division. The sources for this data are the Field Edit Sheet, Discrepancy Ozalids, and photographs.

Appended to these reports are copies of the hydrographic signal list and an Abstract of Tides Requirements for surveys H-9571 and H-9572 and this field edit.

FIELD EDIT REPORT

TP-00551

WRANGELL NARROWS

SUMNER STRAIT, ALASKA

OPR 448

NOAA SHIP DAVIDSON

1975

51 METHODS

Field edit on TP-00551 was accomplished under project instructions OPR-448-DA-75, Sumner Strait, Alaska, dated 18 June 1975; and as per change No. 4-75 of the PMC OPORDER.

OPORDER procedures for field edit with HYDROPLOT support in conjunction with hydrography were used.

Items noted on the discrepancy sheet were transferred to the field copy of the field edit ozalid. The field copy and field photographs 72 E 3980, 72E 3981, and 72E 3982 were taken into the field to conduct the field edit for the compiled manuscript TP-00551.

The field edit investigation was performed on 21-22 September and 8 October 1975. It was conducted from a small skiff equipped with Motorola MINI-RANGER III equipment (console sn 716 and R/T sn 709) at or near low tide. Fixes were initially hand plotted in the field. Where fixes confirmed photogrammetric compilation no fix data was recorded. Fixes were recorded when locating new features not photogrammetrically identifiable or when revising mapped features. Where fixes were required, three independent, calibrated MINI-RANGER rates were observed and recorded along with the description and specific data for the feature being located. See appended abstracts.

The abstracts were processed as follows:

1. When the field editor took a fix, he radioed the recorded fix data to the ship. Ship personnel then computed (using Program RK 300, function 10, Electronic rates to Electronic Rates) the true third rate from the field rates corrected for calibration error. The computed third rate was then compared to the observed third rate to assure an accurate fix had been obtained. If the fix met accuracy standards, the field editor continued field work. The results of the computations are recorded on the abstracts in red ink directly below each observed field rate.

2. The pair of rates yielding the strongest fix was then circled and logged on the HYDROPLOT Master Detached Position tape for plotting.

3. RK 211 (R/R Position and Sounding Plot) was used to plot logged fixes on the smooth field sheet.

All fixes meet NOS position accuracy requirements as defined in section 1.1k2 of the Provisional Hydrographic Manual.

All original data was recorded on the field sheet or photographs at the time of investigation by the field editor.

All times are referenced to GMT (Z).

Weather observations for the days of field edit were generally as follows: winds: SSE 5-15 kts; sky: overcast; water vertical visibility: 10-15 feet.

A tide gage was installed at Southerly Island and should provide the controlling tide data for this sheet. Gages were also installed on Little Level Is., Pt. Howe, and Vank Island.

Standard ink colors as per PMC OPODER 1975 were used to process the field edit data.

52 ADEQUACY AND COMPILATION

The map compilation is adequate and complete for charting with this field edit applied.

53 MAP ACCURACY

The high water line as depicted on the map was accurate.

54 RECOMMENDATIONS

Although no low water photography was available for the compilation of this manuscript, some attempt to depict features seaward of the high water line and to classify some of the foreshore areas would have helped the field editor. The photographs of the area were taken at a 7.6 foot state of tide and reveal numerous features which are readily identifiable but were not depicted on the manuscript. Because of the lack of features besides the HWL, much time was spent by the field editor drawing features on the manuscript and boat sheets. It is easier, and operationally more effective, to make small changes to a manuscript rather than compiling the majority of the manuscript in the field.

This manuscript should be considered complete with corrections compiled from the field edit.

56 MISCELLANEOUS

MINI-RANGER fixes were computed with program RK 300 (Utility Computations; version 5/22/75). They were plotted with program RK 211 (R/R Position and Sounding Plot; version 8/16/74).

The form 76-40 furnished with this manuscript is attached. Only those nonfloating aids to navigation within the mapped area were verified by the field editor. Point Alexander Light, 1929, and Midway Rock Light, 1929, have been destroyed and rebuilt near their old locations. The new positions for the new lights were determined by theodolite traverse and intersection methods. Refer to the attached for 76-40.

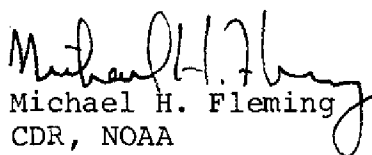
Height data for all rocks compiled on the manuscript was requested on the discrepancy sheet. Several compiled rocks were actually parts of rock ledges. When the high point of these rock ledges could not be positively identified because of the jagged and sloping nature of the ledge, rock height data was omitted, but the feature was described.

Submitted by,



D.S. Eilers
LT, NOAA

Approved by,



Michael H. Fleming
CDR, NOAA

FIELD EDIT REPORT
TP-00551
Wrangell Narrows, Alaska
OPR-448-DA-77
NOAA Ship DAVIDSON

51 METHODS

Field edit on TP-00551 was completed in accordance with project instructions OPR-448-DA-77, Wrangell Narrows, Alaska, dated 3 August 1977.

OPORDER procedures for field edit with Hydroplot support in conjunction with hydrography were used.

Items noted on the Discrepancy Print were transferred to the Field Print. The Field Print was taken into the field along with well protected cronapague photos (72E-3852, 72E3853 and 72E3854) as no matte ratio photos covering this T-sheet were provided. The field edit investigation was conducted by skiff from 3 October through 28 October in the 1977 field season. (Part of this T-sheet was field edited during the 1975 field season.) Detached positions were taken by visual three-point sextant fixes as near as possible to times of low tide. Check angles were observed to confirm each fix. All original data was recorded on the field print or in a field volume at the time of the investigation. Hydrographic detached position information is included in the hydrographic records for H-9729 (DA-10-2-77). Times are referenced to Greenwich Mean Time.

Weather observations for the days of field edit were generally as follows: winds 5-20 kts; sky, cloudy with frequent showers; and temperature, 35° - 45°F.

Tide gages were installed at Midway Rock, Inlet Point, Lindenberg Peninsula and Anchor Point.

Standard ink colors as per PMC OPORDER change no. 1-77 were used to process the field edit data.

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

Field Edit Sheet: Violet - verification
Green - deletion
Red - addition/revision

-2-

Final Field Sheet: Black - verification
 Blue - non-verification
 Red - additions/revisions

52 ADEQUACY OF COMPILATION

The map compilation is adequate and complete for charting with this field edit applied.

53 MAP ACCURACY

The high water line as depicted on the map is accurate. Hydrography run to the shoreline, consisting primarily of fairly steep boulder beaches and rock outcrops, agreed well with the compiled high water line. It was necessary, however, to extend many existing foul limits and add many others.

54 RECOMMENDATIONS

No recommendations.

56 MISCELLANEOUS

Matte ratio photographs 72E3852-54 were not supplied to the DAVIDSON. The cronapaques of the same numbers were used in the field when weather conditions allowed. TP-00551 and TP-00637 do not junction well, though field edit data compiled on TP-00551 shows no evidence of a datum shift or shoreline position problem.

A NOAA form 76-40, "Nonfloating Aids or Landmarks for Charts", has been completed for this manuscript and is appended.

Submitted by,

Ellen McDougal
Ellen McDougal
ENS, NOAA

Approved and Forwarded by,

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

REVIEW REPORT
SHORELINE

TP-00551

61. GENERAL STATEMENT:

See the summary included with this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Not applicable.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with the following Hydrographic Surveys:

H-9729 1:10,000 scale, dated July 2, 1979

H-9571 1:10,000 scale, date of hydrography September, October 1975

H-9572 1:10,000 scale, dated September 1976.

There were no conflicts.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following NOS charts:

17375, 1:20,000 scale, dated April 24, 1982

17382, 1:80,000 scale, dated July 25, 1981.

The charts compared well with this manuscript.

TP-00551

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

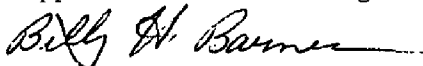
This map complies with the Project Instructions, and meets the requirements for National Standards of Map Accuracy.

Submitted by:



James L. Byrd, Jr.
Final Reviewer

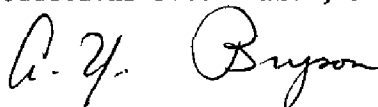
Approved for forwarding:



Billy H. Barnes
Chief, Quality Assurance Group, AMC

Approved:

Chief, Photogrammetric Productions Sec. Chief, Photogrammetry Branch



RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

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

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

[illegible]