

TP-00572

TP-00572

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. TP-00572	Edition No. 1
Job No. CM-7206	
Map Classification FINAL CLASS III MAP	
Type of Survey SHORELINE	
LOCALITY	
State ALASKA	
General Locality ZAREMBO ISLAND	
Locality SHRUBBY ISLAND	
1972 TO 19	
REGISTERED IN ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY

- ☒ ORIGINAL
☐ RESURVEY
☐ REVISED

SURVEY TP. 00572

MAP EDITION NO. (1)

MAP CLASS Final Class
IIIJOB ~~XXX~~ CM-7206

PHOTOGRAMMETRIC OFFICE

Coastal Mapping Division, Norfolk, VA

OFFICER-IN-CHARGE

Jeffrey G. Carlen

LAST PRECEDING MAP EDITION

TYPE OF SURVEY

- ☐ ORIGINAL
☐ RESURVEY
☐ REVISED

JOB PH. _____

MAP CLASS _____

SURVEY DATES:

19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE

Aerotriangulation Sept. 19, 1972
Compilation Feb. 22, 1973

2. FIELD

Field Jan. 26, 1972

II. DATUMS

1. HORIZONTAL:

☒ 1927 NORTH AMERICAN

OTHER (Specify)

2. VERTICAL:

- ☒ MEAN HIGH-WATER
☐ MEAN LOW-WATER
☐ MEAN LOWER LOW-WATER
☐ MEAN SEA LEVEL

OTHER (Specify)

3. MAP PROJECTION

Polyconic

4. GRID(S)

STATE

Alaska

ZONE

1

5. SCALE

1:10,000

STATE

ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic-Block	BY	D. Norman	Feb. 1973
	LANDMARKS AND AIDS BY	D. Norman	Feb. 1973
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat	PLOTTED BY	D. Allen	Apr. 1973
	CHECKED BY	D. Allen	Apr. 1973
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:15,000	PLANIMETRY BY	C. Blood, L. Neterer	Oct. 1973
	CHECKED BY	L. Neterer, A. Shands	Oct. 1973
	CONTOURS BY	N.A.	
	CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION METHOD: Smooth Draft SCALE: 1:10,000	PLANIMETRY BY	C. Blood	Nov. 1973
	CHECKED BY	A. Shands	Nov. 1973
	CONTOURS BY	N.A.	
	CHECKED BY	N.A.	
	HYDRO SUPPORT DATA BY	C. Blood	Nov. 1973
	CHECKED BY	A. Shands	Nov. 1973
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	A. Shands	Nov. 1973
6. APPLICATION OF FIELD EDIT DATA	BY	None	
	CHECKED BY	None	
7. COMPILATION SECTION REVIEW	BY	None	
8. FINAL REVIEW	BY	C. Blood	Oct. 1987
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	J. Byrd	July 1988
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	P. Dempsey	Dec. 1988
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-00572

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "E" FL = 152.71mm		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 120th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
72 E(C) 4230-4233	6-23-72	12:53	1:30,000	11.3 ft. above MLLW	
*72 E(C) 4238-4243	6-23-72	13:03	1:30,000	11.1 ft. above MLLW	
72 E(C) 4261	6-23-72	13:18	1:30,000	10.8 ft. above MLLW	
*72 E(C) 4273, 4274	6-23-72	13:28	1:30,000	10.7 ft. above MLLW	
72 E(C) 4289	6-23-72	13:37	1:30,000	10.4 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 LOW-WATER LINE~~ OR MEAN LOWER LOW-WATER LINE:

None delineated, there were no mean lower low-water photographs.

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

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

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00566	TP-00573	TP-00577	TP-00571

REMARKS

NOAA FORM 76-36D
(3-72)

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

TP-00572
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	Nov. 1973	Class III Map	Aug. 26, 1980	
Final Review	Oct. 1987	Final Class III Map	Dec. 1988	

II. LANDMARKS AND AIDS TO NAVIGATION None**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: None3. ☐ 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 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-7309

40M
variously colored. The
with the elevation
- 800M.

JOINS PH-6627

JOINS PH-6909

ZAREMBO I.

JOINS
PH-6705

JOINS PH-6705

CM-7206

ZAREMBO ISLAND, ALASKA

SHORELINE MAPPING

110,000 SCALE

TP-00638 TP-00639

56°40'00"

TP-00551 TP-00552 TP-00553 TP-00554 TP-00555

56°35'00"

TP-00556 TP-00557 TP-00558 TP-00559 TP-00560

56°30'00"

TP-00561 TP-00562 TP-00563

56°25'00"

TP-00564 TP-00565 TP-00566 TP-00567 TP-00568 TP-00569 TP-00570

56°20'00"

TP-00571 TP-00572 TP-00573 TP-00574 TP-00575 TP-00576

56°15'00"

TP-00577 TP-00578 TP-00579 TP-00580 TP-00581

56°10'00"

TP-00582 TP-00583 TP-00584

56°05'00"

JOINS PH-6303

JOINS PH-6303

56°00'00"

SHEET NO. SQ. MI.

TP-00551 8
TP-00552 2
TP-00553 9
TP-00554 11
TP-00555 4
TP-00556 5
TP-00557 5
TP-00558 5
TP-00559 8
TP-00560 4
TP-00561 5
TP-00562 5
TP-00563 7
TP-00564 7
TP-00565 4
TP-00566 7
TP-00567 2
TP-00568 5
TP-00569 4
TP-00570 3
TP-00571 10
TP-00572 17
TP-00573 2
TP-00574 6
TP-00575 1
TP-00576 9
TP-00577 19
TP-00578 3
TP-00579 6
TP-00580 8
TP-00581 6
TP-00582 6
TP-00583 15
TP-00584 13

TP-00638 9
TP-00639 8

TOTAL 250

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

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00572

This final Class III 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 November 1973.

Field edit was not acquired for TP-00572.

Final review was accomplished at the Atlantic Marine Center in October 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 Class III Map. The original base manuscript and all related data were forwarded to the Washington Science Center for final registration.

4

FIELD INSPECTION

TP-00572

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.

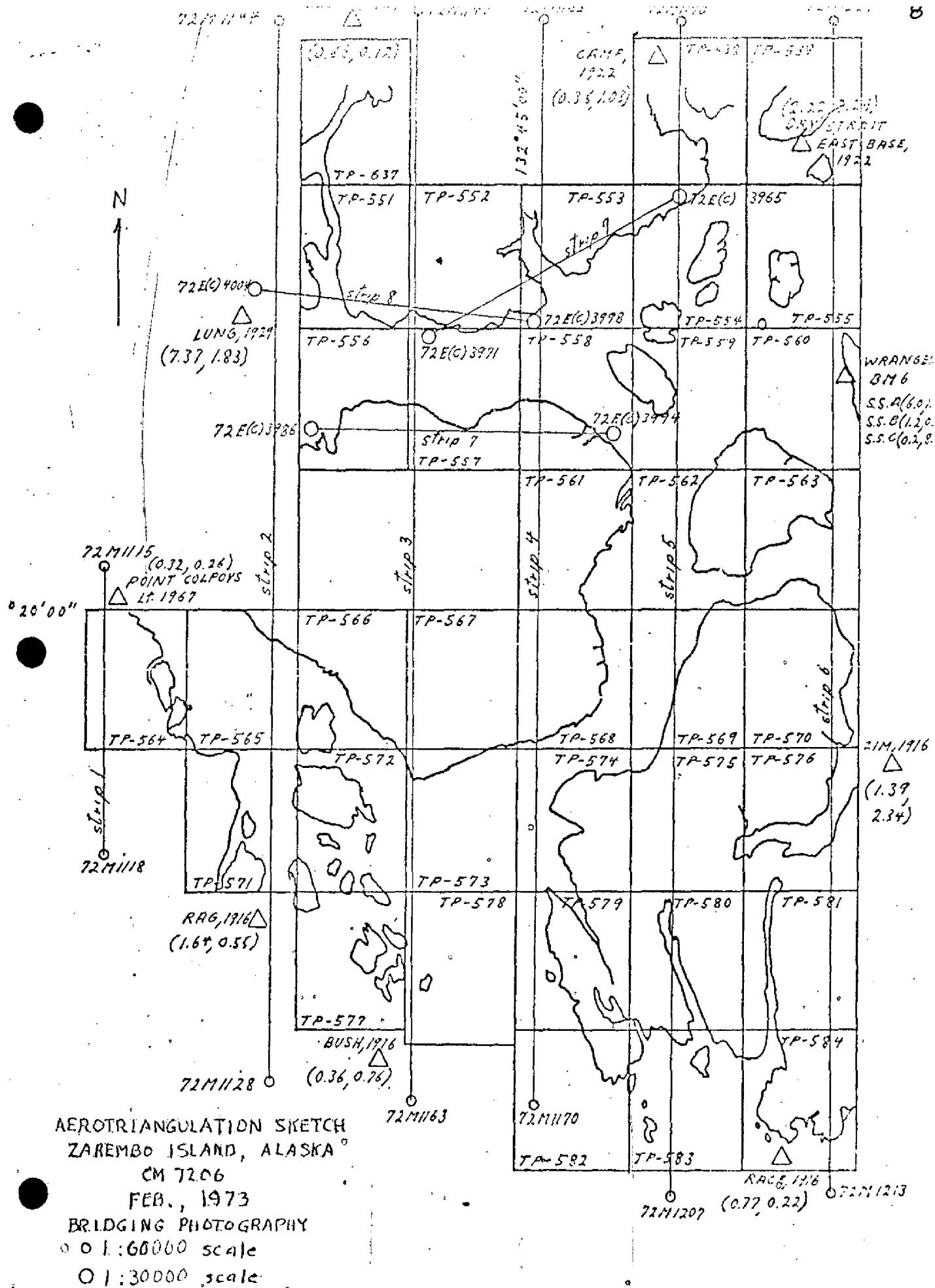
submitted by,

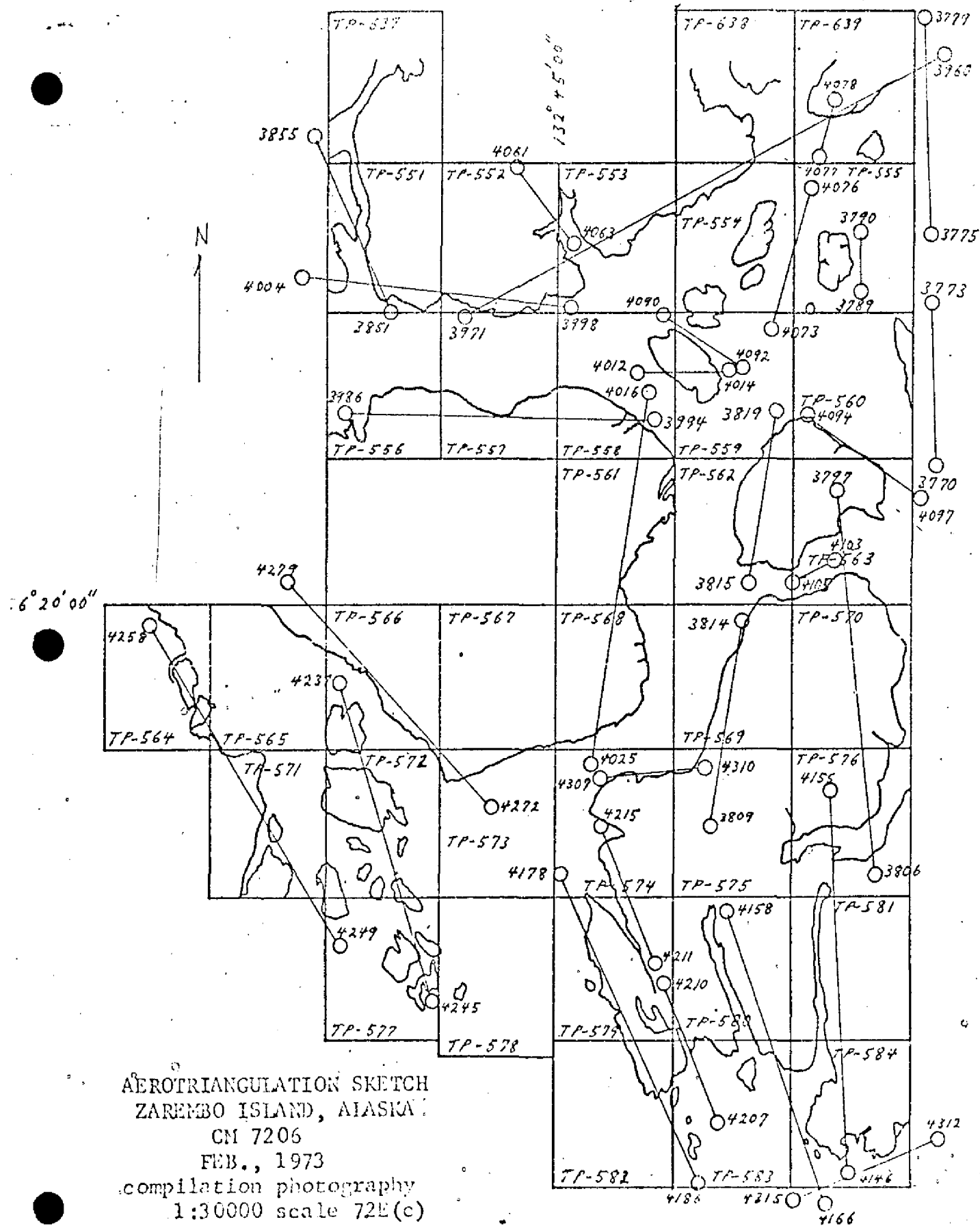
Don O. Norman

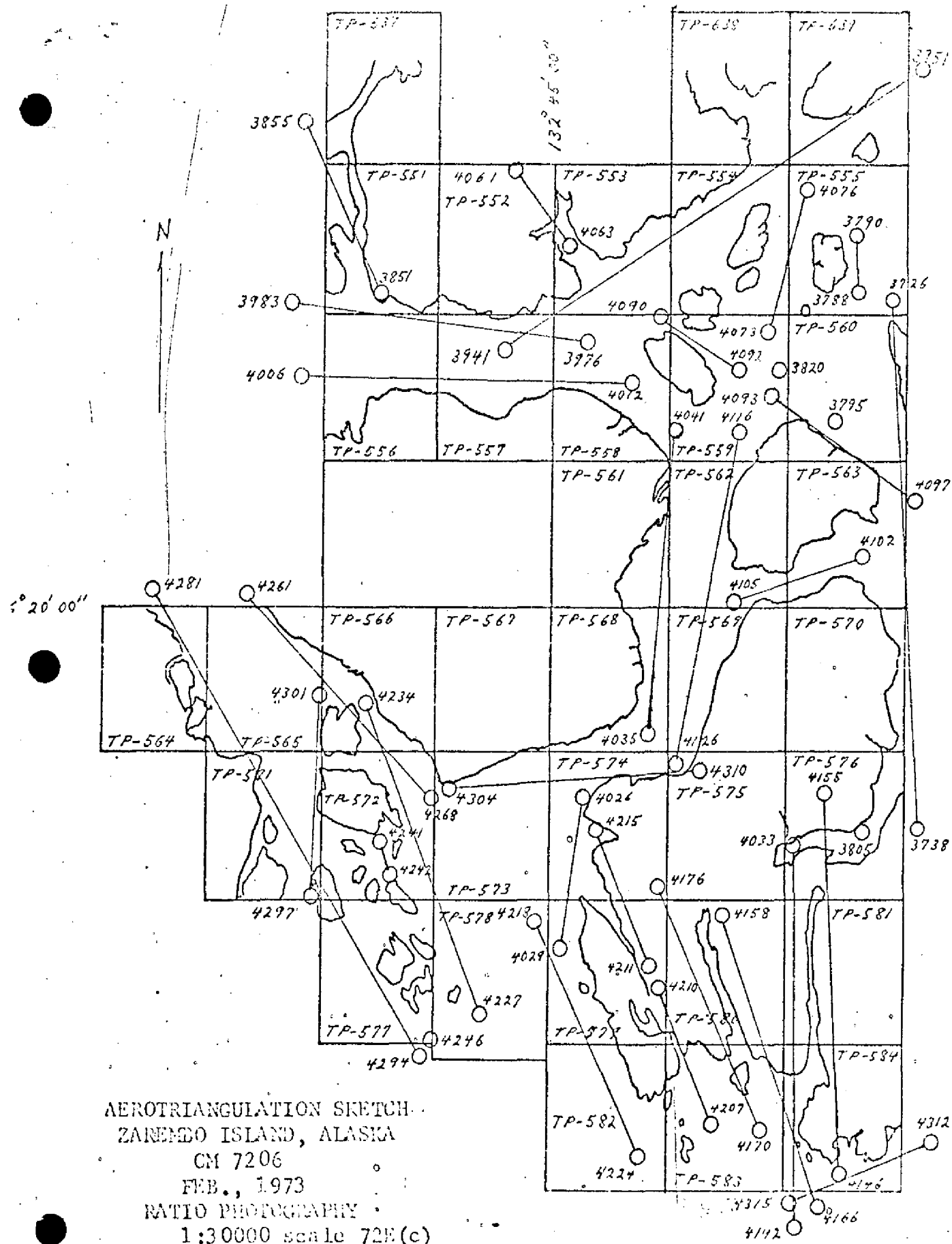
Don O. Norman

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.

NOAA FORM 76-41 (6-75)										U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	
DESCRIPTIVE REPORT CONTROL RECORD										ORIGINATING ACTIVITY Coastal Mapping Division, AMC, Norfolk, VA	
MAP NO.	JOB NO.	CM-7206	TP-00572	GEODETIC DATUM N.A. 1927		COORDINATES IN FEET STATE Alaska ZONE 1		GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE		REMARKS	
		SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER								
LAD, 1916		Vol. 1 P. 144	121			X=		φ 56° 13' 55.018"			
						Y=		λ 132° 55' 46.647"			
SHRUB, 1915		Vol. 1 P. 144	122			X=		φ 56° 13' 07.792"			
						Y=		λ 132° 55' 00.379"			
BLUFF, 1915		Vol. 3 P. 985	123			X=		φ 56° 10' 03.239"			
						Y=		λ 132° 52' 43.662"			
						X=		φ			
						Y=		λ			
						X=		φ			
						Y=		λ			
						X=		φ			
						Y=		λ			
						X=		φ			
						Y=		λ			
						X=		φ			
						Y=		λ			
						X=		φ			
						Y=		λ			
						X=		φ			
						Y=		λ			
COMPUTED BY A. C. Rauck, Jr.			DATE 3/16/73	COMPUTATION CHECKED BY P. Margiotta						DATE 3/22/73	
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-00572

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter, using 1:30,000 scale color photographs. 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.

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 photographs.

36. OFFSHORE DETAILS:

Offshore detail was 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 nonfloating aids or landmarks and none were noted during stereoscopic instrument compilation.

38. CONTROL FOR FUTURE SURVEY:

None.

TP-00572

39. JUNCTIONS:

A satisfactory junction was made with the 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 was made with the U.S. Geological Survey quadrangle PETERSBURG (A-3), Alaska, 1:63,360 scale, dated 1949.

47. COMPARISON WITH NAUTICAL CHARTS:

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

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Charles E. Blood

Charles Blood
Cartographic Technician
November 9, 1973

Approved and forwarded:

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

JUN 18 1987
15

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7206 (Clarence and Sumner Straits, Alaska)

TP-00572

Bluff Island

Bushy Island

Clarence Strait

East Island

Kashevarof Island

Middle Islands

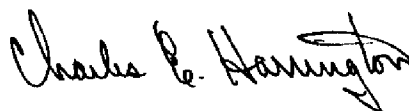
Ossipee Channel

Shrubby Island

West Island

Zarembo Island

Approved:



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

REVIEW REPORT
SHORELINE

TP-00572

61. GENERAL STATEMENT:

See 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:

The Hydrographic Survey for the area of this map was not available for comparison at the time of Final Review.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with NOS chart 17382, 1:80,000 scale, dated July 25, 1981.

The chart compared well with this manuscript.

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:

J. Byrd Jr.

James L. Byrd, Jr.
Final Reviewer

Approved for forwarding:

Billy H. Barnes

Billy H. Barnes
Chief, Quality Assurance Group, AMC

Approved:

Chief, Photogrammetric Productions Sec. Chief, Photogrammetry Branch

A. Y. Byrd

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]