

TP-00552

TP-00552

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. TP-00552	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 WOODPECKER COVE	
19 <sup>72</sup> TO 19 <sup>76</sup>	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
<b>DESCRIPTIVE REPORT - DATA RECORD</b>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE  Coastal Mapping Division, Norfolk, VA OFFICER-IN-CHARGE  Jeffrey G. Carlen		SURVEY TP. <u>00552</u>  MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final</u> JOB <u>PH. CM-7206</u>	
I. INSTRUCTIONS DATED		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
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 Alaska ZONE 1	
5. SCALE 1:10,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	
1. AEROTRIANGULATION BY METHOD: Analytic-Block LANDMARKS AND AIDS BY		D. Norman Feb. 1973	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Calcomp CHECKED BY		R. Robertson Feb. 1974 R. Robertson Feb. 1974	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 SCALE: 1:15,000 CONTOURS BY CHECKED BY		L. Neterer Apr. 1973 R. White Apr. 1973 None None	
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: Smooth drafted CONTOURS BY CHECKED BY SCALE: 1:10,000 HYDRO SUPPORT DATA BY CHECKED BY		C. Parker Apr. 1973 S. Kumer-R. White July 1973 None None C. Parker Apr. 1973 R. White July 1973	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		R. White July 1973	
6. APPLICATION OF FIELD EDIT DATA BY		G. Morris Feb. 1977	
7. COMPILATION SECTION REVIEW BY		J. Roderick Feb. 1977	
8. FINAL REVIEW BY		C. Blood June 1987	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		J. Byrd July 1988	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		P. Dempsey NOV. 1988	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY			

## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "E" FL=152.71		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		X (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) 3977-3979	6-23-72	09:30	1:30,000	7.6 ft. above MLLW	
72 E(C) 3941-3943	6-23-72	09:06	1:30,000	6.7 ft. above MLLW	
*72 E(C) 4062-4063	6-23-72	10:35	1:30,000	10.0 ft. above MLLW	
*72 E(C) 3969-3971	6-23-72	09:20	1:30,000	7.2 ft. above MLLW	
*72 E(C) 3999-4000	6-23-72	09:48	1:30,000	8.3 ft. above MLLW	

REMARKS \*Compilation photographs

Photos 3999-4000 include a second number 3999 (3999A).

## 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	EAST	SOUTH	WEST
No Survey	TP-00553	TP-00557	TP-00551

REMARKS

TP-00552

## HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	C. Andreasen	Oct. 1976
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	N.A. N.A. N.A.
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None None None
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION BY	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	G. Wheaton
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

N.A.

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

72 E(C) 3978, 3979, 3942, and 4062

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

Field Report OPR-448-DA-76

NOAA FORM 76-36D  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
TP-00552

## 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	Apr. 1973	Class III Map	June 28, 1974	June 28, 1974
Manuscript redrafted as a result of new bridge data	Apr. 1974	Class III Map		
Field edit applied compilation complete	Feb. 1977	Class I Map	Mar. 25, 1977	Mar. 25, 1977
Final Review	June 1987	Final Map	Dec 1988	

## 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-7309

5

JOIN  
empty space. This  
with the information  
to hand.

JOINS PH-6627

JOINS PH-6909

ZAREMBO I.

JOINS  
PH-6705

JOINS PH-6705

CM-7206

ZAREMBO ISLAND, ALASKA

SHORELINE MAPPING

110,000 SCALE

SHEET NO. 5021K

- 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 9
- TP-00565 4
- TP-00566 7
- TP-00567 2
- TP-00568 5
- TP-00569 4
- TP-00570 5
- TP-00571 10
- TP-00572 17
- TP-00573 2
- TP-00574 6
- TP-00575 1
- TP-00576 19
- TP-00577 3
- TP-00578 6
- TP-00579 0
- TP-00580 4
- TP-00581 4
- TP-00582 15
- TP-00583 13

TOTAL 250

TP-00550 TP-00551

TP-00551

TP-00552

TP-00553

TP-00554

TP-00555

TP-00556

TP-00557

TP-00558

TP-00559

TP-00560

TP-00561

TP-00562

TP-00563

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TP-00571

TP-00572

TP-00573

TP-00574

TP-00575

TP-00576

TP-00577

TP-00578

TP-00579

TP-00580

TP-00581

TP-00582

TP-00583

TP-00584

JOINS  
PH-6303

JOINS  
PH-6303

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

6

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

TP-00552

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 July 1973 and revised using readjusted aerotriangulation in April 1974.

Field edit was acquired for TP-00552 during the 1976 field season. Field edit was applied at AMC in February 1977.

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-00552

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.



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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.

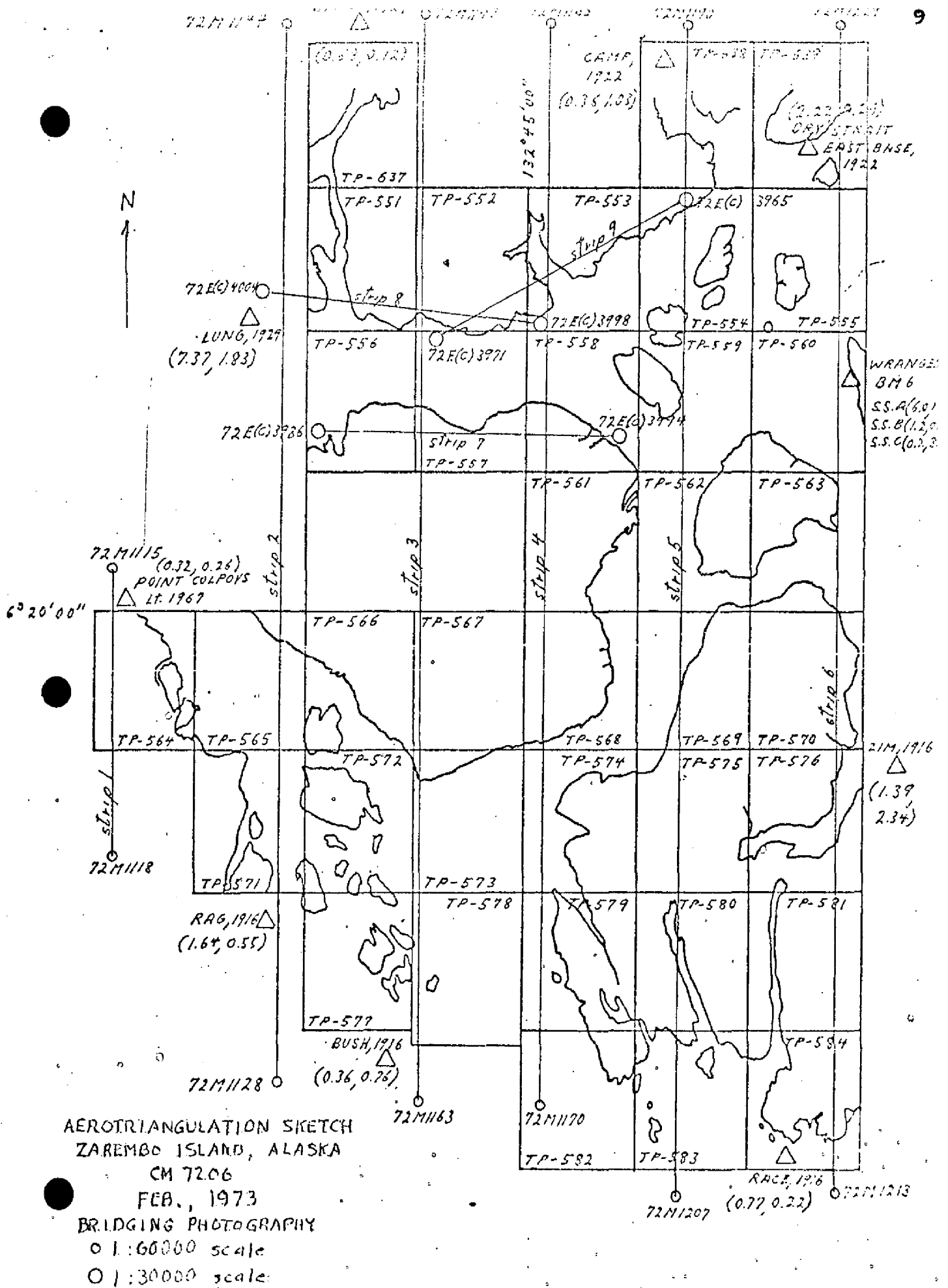
submitted by,

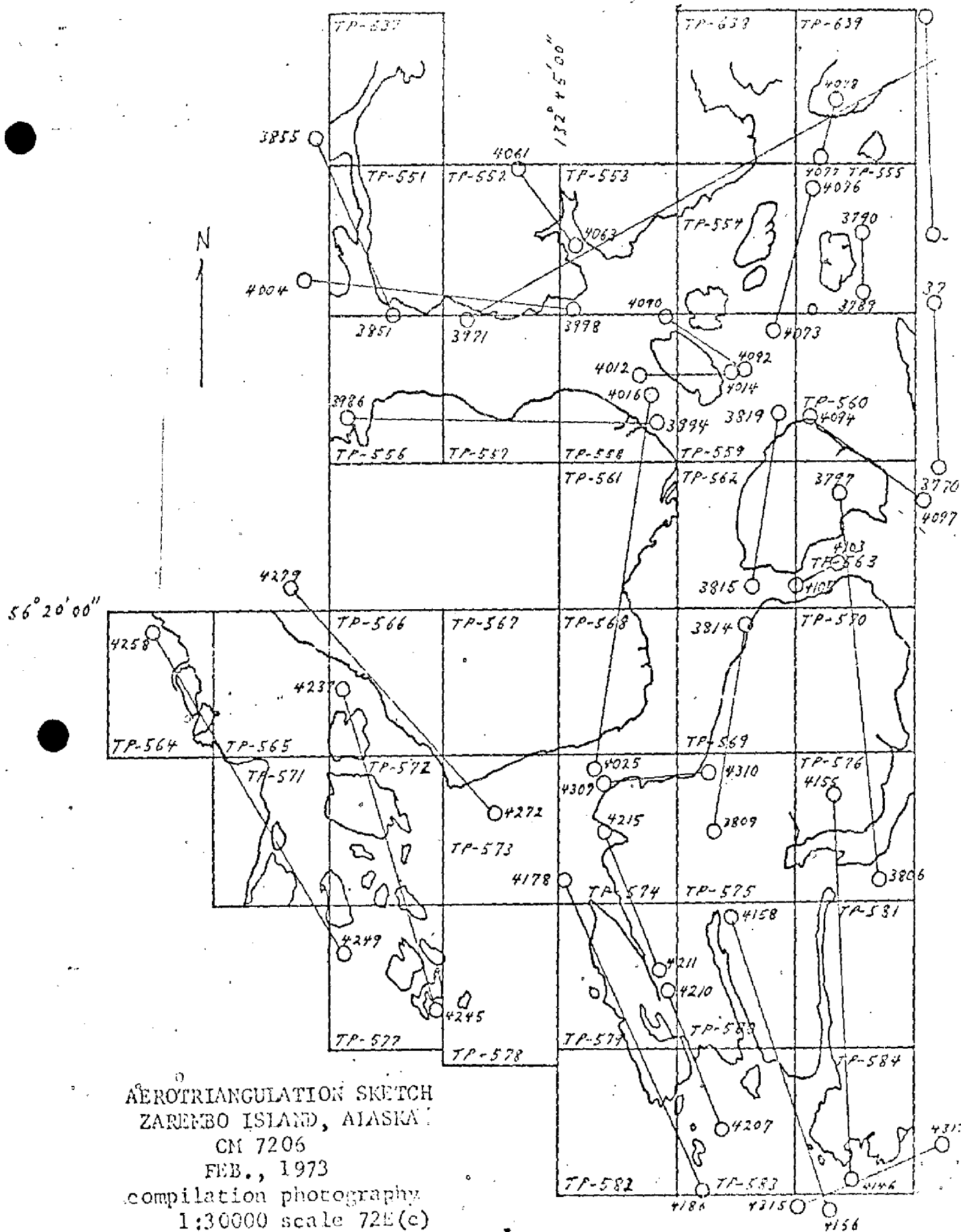
*Don O. Norman*

Don O. Norman

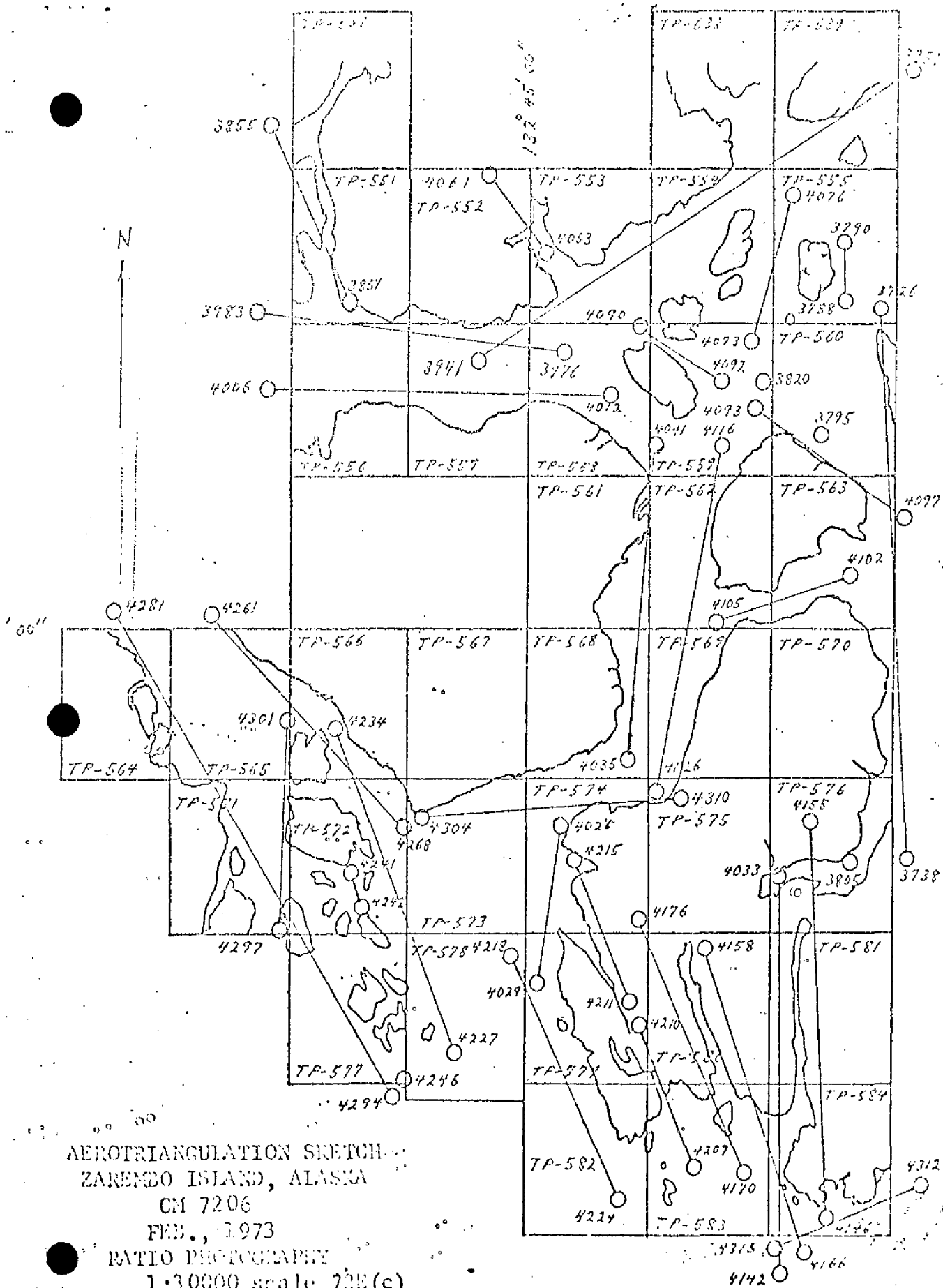
Approved by

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





AEROTRIANGULATION SKETCH  
 ZAREMBO ISLAND, ALASKA  
 CM 7206  
 FEB., 1973  
 compilation 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.

## COMPILATION REPORT

TP-00552

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 tidal water 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 February, 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 water 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-00552

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 was made with the U.S. Geological Survey quadrangle PETERSBURG (C-3) Alaska, dated 1953, minor revisions 1963; 1:63,360 series.

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 1973

Approved and forwarded:

*J. L. Byrd Jr. / for*

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

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7206 (Clarence and Sumner Straits, Alaska)

TP-00552

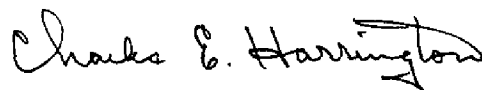
Blind Slough

Mitkof Island

Sumner Strait

Woodpecker Cove

Approved:



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



## FIELD EDIT REPORT

TP-00552

Sumner Strait, Alaska

OPR-448-DA-76

NOAA Ship DAVIDSON

1976

## 51 METHODS

Field edit on manuscript TP-00552 was accomplished in accordance with Project Instructions OPR-448-DA-76, Sumner Strait, Alaska, dated 10 June 1976. The field edit investigation, conducted in a small skiff near times of low water, was performed on 6 October (JD280) and 11 October (JD285) 1976. The weather was fair. The Discrepancy Print was mistakenly taken into the field, instead of a Field Print, along with the field photographs (matte ratio photographs 72E3979, 72E3978, 72E3942 and 72E4062). The Field Print (in this case the Discrepancy Print) was annotated with pencil.

Ink colors used to process the field edit data were as follows:

FIELD PHOTOGRAPHS:	Violet
FIELD EDIT SHEET:	Red - Additions Green - Deletions Violet - References to photos
FINAL FIELD SHEET:	Black - Manuscript, no change Red - Additions

One detached position has been recorded and processed with the hydrographic records for H-9572 (OPR-448-DA-76). This position is indexed on the Field Edit Sheet.

Greenwich Mean Time was recorded with all elevations and depths. During field edit, tide gages were operating at Point Howe, Dry Strait, Vank Island and Greys Island. See the Field Tide Note, OPR-448-DA-76.

## 52 ADEQUACY OF COMPILATION

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

## 53 MAP ACCURACY

The high water line as depicted on the map was accurate with the addition of the fill area in Woodpecker Cove.

## 54 RECOMMENDATIONS

None.

56 MISCELLANEOUS

No "Non-Floating Aids or Landmarks for Charts" forms (Form 76-40) are submitted with this manuscript since there are no fixed or floating aids to navigation within the limits of this sheet.

Submitted by:

*Gerald E. Wheaton*

Gerald E. Wheaton  
ENS, NOAA

Approved and Forwarded by:

*Christian Andreasen*

Christian Andreasen  
CDR, NOAA  
Commanding Officer

REVIEW REPORT  
SHORELINE

TP-00552

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-9572, 1:10,000 scale, dated September 26, 1977.

H-9652, 1:10,000 scale, dated October 21, 1977.

There were no conflicts.

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.

TP-00552

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

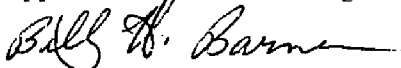
This map complies with the Project Instructions, and meets the requirements for National Standards of Map Accuracy.

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]