

TP-00571

TP-00571

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|---------------------------------------------------------------------------------------------------------|------------------|
| NOAA FORM 76-35 (6-80) | |
| U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY | |
| DESCRIPTIVE REPORT | |
| Map No. TP-00571 | 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 EXCHANGE ISLAND | |
| 1972 TO 19 | |
| 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 OFFICER-IN-CHARGE Jeffrey G. Carlen | | SURVEY TP. <u>00571</u> MAP EDITION NO. (1) MAP CLASS Final Class JOB <u>III</u> <u>PH. CM-7206</u> | |
| I. INSTRUCTIONS DATED | | LAST PRECEDING MAP EDITION | |
| 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 | DATE |
| 1. AEROTRIANGULATION BY METHOD: Analytic-Block LANDMARKS AND AIDS BY | | D. Norman | Feb. 1973 |
| 2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY | | R. Robertson | Apr. 1973 |
| 3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY | | L. Neterer | Oct. 1973 |
| INSTRUMENT: Wild B-8 SCALE: 1:15,000 | | R. White | Oct. 1973 |
| 4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY | | C. Parker | Oct. 1973 |
| METHOD: Smooth Draft and Graphic SCALE: 1:10,000 | | A. Shands | Nov. 1973 |
| HYDRO SUPPORT DATA BY CHECKED BY | | N.A. | |
| 5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY | | N.A. | |
| 6. APPLICATION OF FIELD EDIT DATA BY | | C. Parker | Oct. 1973 |
| CHECKED BY | | A. Shands | Nov. 1973 |
| 7. COMPILATION SECTION REVIEW BY | | A. Shands | Nov. 1973 |
| 8. FINAL REVIEW BY | | None | |
| 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY | | None | |
| 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY | | None | |
| 11. MAP REGISTERED - COASTAL SURVEY SECTION BY | | C. Blood | Oct. 1987 |
| | | J. Byrd | July 1988 |
| | | P. Dempsey | Dec. 1988 |

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

TP-00571

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 | | (C) COLOR (P) PANCHROMATIC (I) INFRARED | | ZONE Pacific MERIDIAN 120th <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT | |
| NUMBER AND TYPE | DATE | TIME | SCALE | STAGE OF TIDE | |
| *72 E(C) 4252-4255 | 6-23-72 | 13:12 | 1:30,000 | 11.1 ft. above MLLW | |
| 72 E(C) 4286-4289 | 6-23-72 | 13:37 | 1:30,000 | 10.4 ft. above MLLW | |
| 72 E(C) 4297-4299 | 6-23-72 | 13:46 | 1:30,000 | 10.2 ft. above MLLW | |

REMARKS

*Compilation photographs

72 E(C) 4299, hydro support photograph was used for graphic compilation.

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~~ 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-00565 | TP-00572 | PH-6705 T-12310 | No Survey |

REMARKS

NOAA FORM 76-36D
(3-72)

TP-00571

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 |
| Compilation complete pending field edit | Oct. 1973 | Class III Map | Aug. 26, 1980 | |
| Final Review | Oct. 1987 | Final Class III 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 |
|--------|---------------------------------|-------------------|---------|
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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 557 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

city meeting. The
with the elevation,
here.

JOINS PH-6627

JOINS HI-6900

Z A R E M B O

CM-7207

50

 $6 \cdot 10^4$

1

5'05'

1.

5'00

12

1

| SHEET NO. | SQ. M. |
|-----------|--------|
| TP-00557 | 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 | 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 A
Total 250

SHORELINE MAPPING

140,000 SCALE

PH-6303

JOINS
PH-6303

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

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00571

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-00571.

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.

FIELD INSPECTION

TP-00571

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.

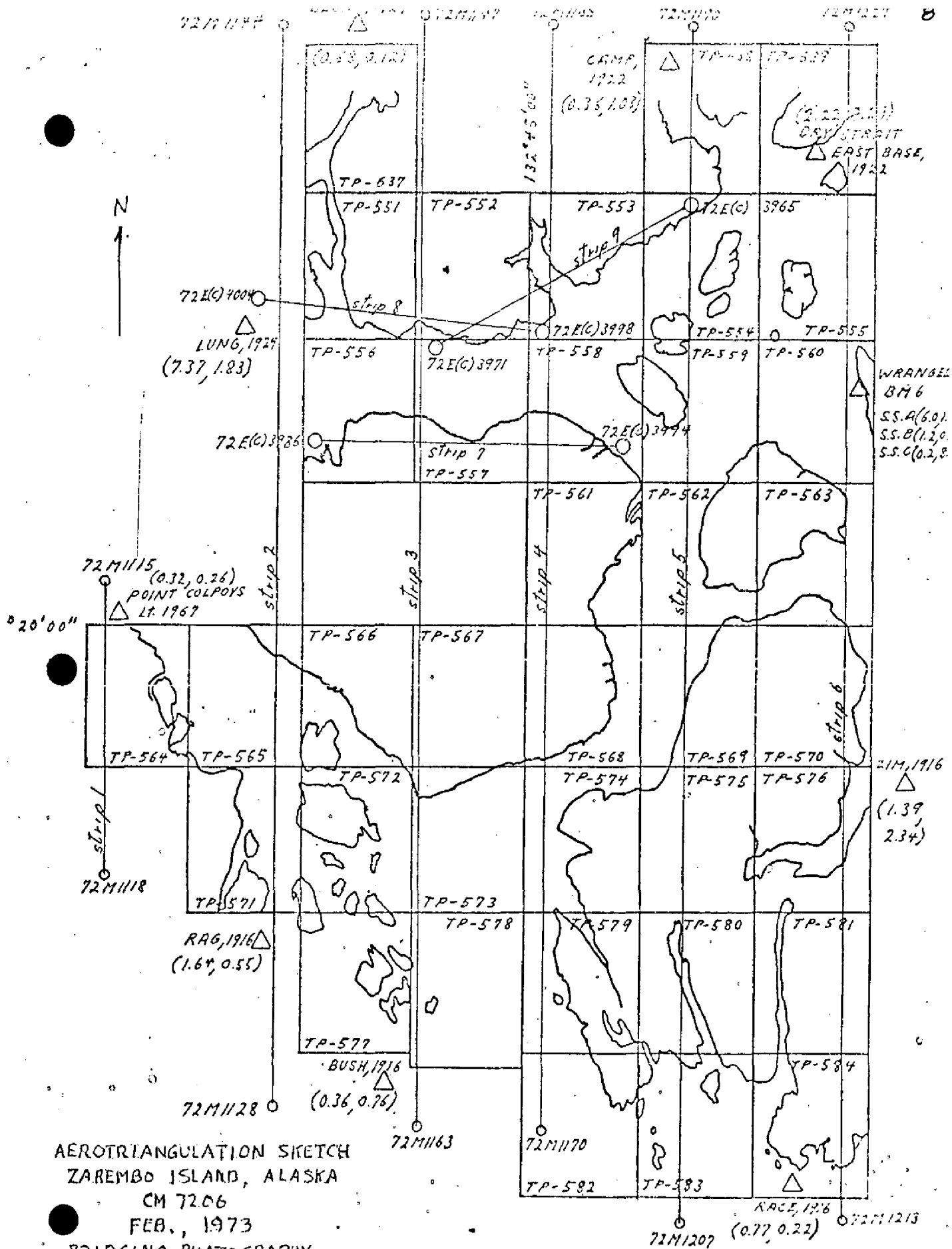
submitted by,

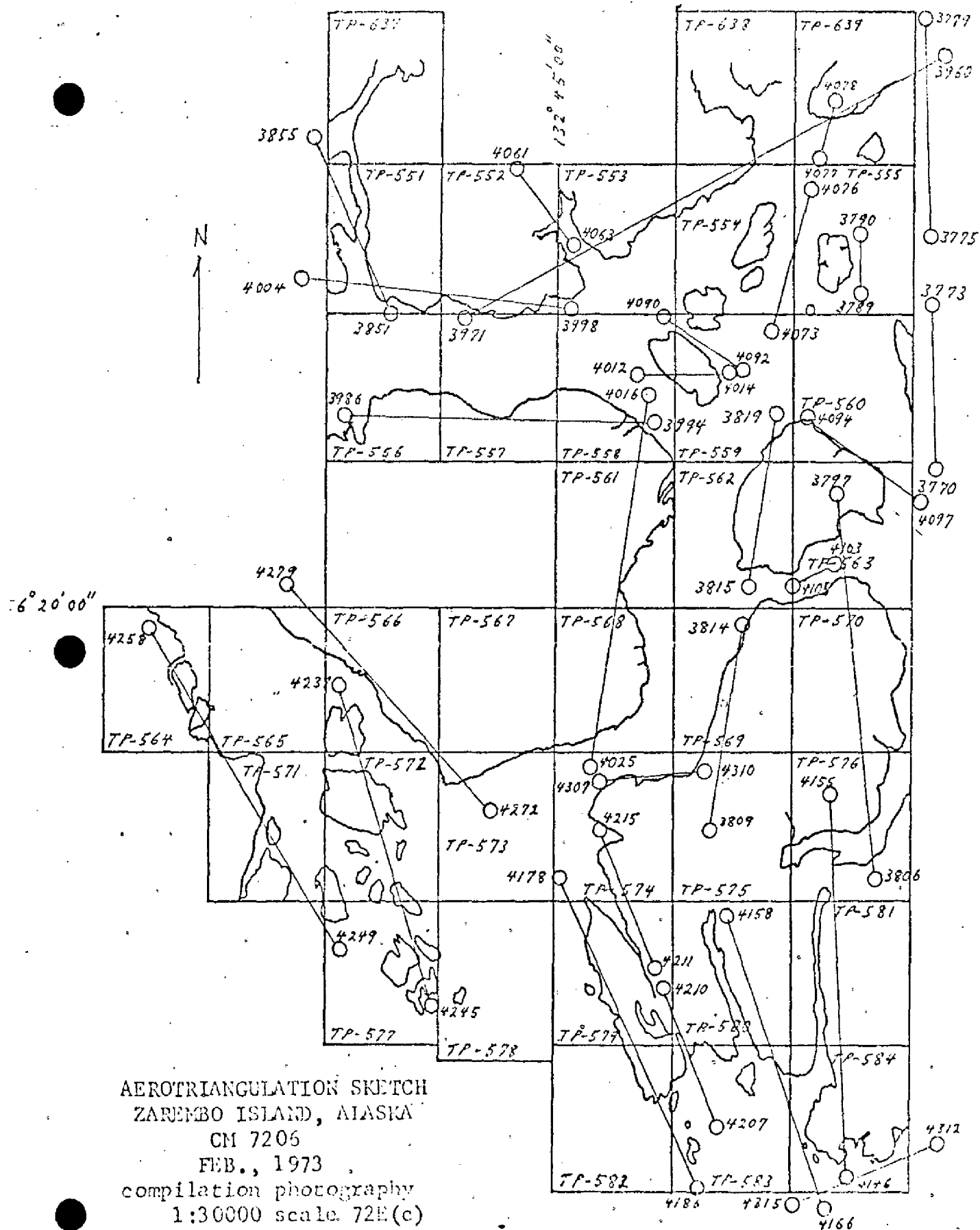
Don O. Norman

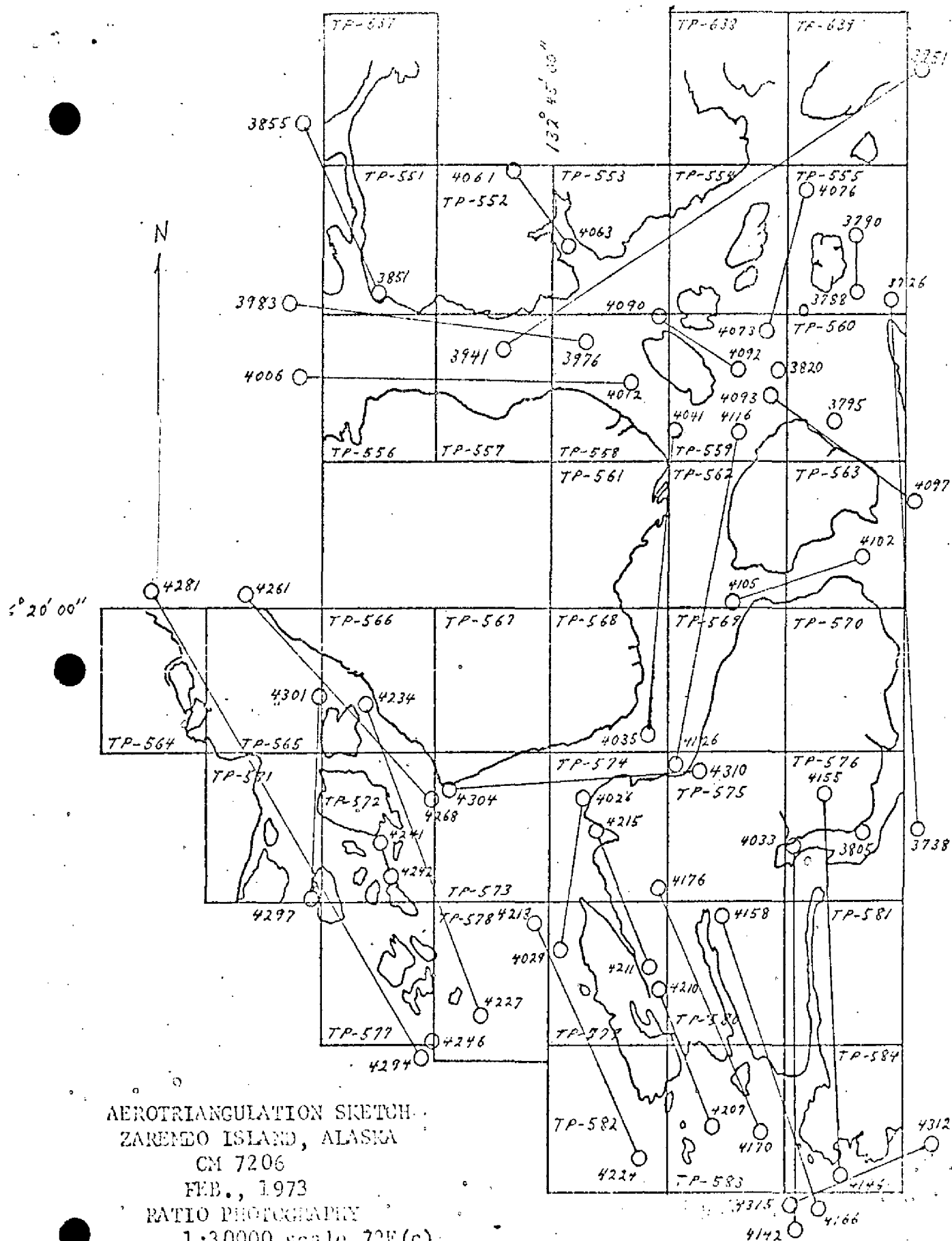
Don O. Norman

Approved by

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







ADDENDUM
ZAREMBO 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. | CM-7206 | GEODETIC DATUM | COORDINATES IN FEET | GEOGRAPHIC POSITION | ORIGINATING ACTIVITY |
|---------------------------------|-------------------------------|---------------------------------|----------------------------------------|---------------------|------------------------------------------------------|----------------------------|
| STATION NAME | SOURCE OF INFORMATION (Index) | AEROTRI-ANGULATION POINT NUMBER | STATE | ZONE | ϕ LATITUDE λ LONGITUDE | Division, AMC, Norfolk, VA |
| CLO, 1916 | Vol. 1 P. 155 | | Alaska | 1 | ϕ 56° 14' 17.617" λ 133° 04' 02.350" | |
| SAP, 1916 | Vol. 1 P. 154 | | | | ϕ 56° 14' 06.763" λ 133° 03' 16.334" | |
| IRE, 1916 | Vol. 1 P. 155 | | | | ϕ 56° 13' 48.055" λ 133° 03' 14.012" | |
| LEDGE, 1916 | Vol. 1 P. 145 | | | | ϕ 56° 12' 27.372" λ 133° 00' 30.967" | |
| CHANGE, 1916 | Vol. 1 P. 145 | | | | ϕ 56° 11' 55.930" λ 133° 01' 50.600" | |
| | | | | | ϕ | |
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| | | | | | λ | |
| COMPUTED BY A. C. Rauck, Jr. | | DATE 3/16/73 | COMPUTATION CHECKED BY F. Margiotta | | | DATE 3/22/73 |
| LISTED BY | | DATE | LISTING CHECKED BY | | | DATE |
| HAND PLOTTING BY | | DATE | HAND PLOTTING CHECKED BY | | | DATE |

COMPILATION REPORT

TP-00571

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter, using 1:30,000 scale color photographs. Echo Island and vicinity were graphically delineated. The map area south of Latitude $56^{\circ} 11.25''$ has been previously delineated on project PH-6705, map T-12310, the area is not delineated on this map.

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 landmarks and none were noted during compilation.

A Form 76-40 concerning a charted daybeacon was submitted to the field for verification.

TP-00571

38. CONTROL FOR FUTURE SURVEY:

None.

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-4), 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
for

Charles Parker
Cartographic Aid
October 24, 1973

Approved and forwarded:

J. Rautk for
Albert C. Rautk, Jr.
Chief, Coastal Mapping Section

JUN 18 1987
15

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7206 (Clarence and Sumner Straits, Alaska)

TP-00571

Echo Island

Exchange Cove

Exchange Creek

Exchange Island

Fire Island

Kashevarof Passage

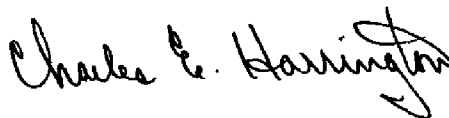
Lava Creek

Prince of Wales Island

Shrubby Island

West Island

Approved:



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

REVIEW REPORT
SHORELINE

TP-00571

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. Bryson

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]