

TP-00577

TP-00577

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. TP-00577	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 BLASHKE ISLANDS	
1972 TO 19	
REGISTERED IN ARCHIVES	
DATE	

<b>NOAA FORM 76-36A</b> (3-72)		<b>U. S. DEPARTMENT OF COMMERCE</b> 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>00577</u>  MAP EDITION NO. <u>(1)</u>  MAP CLASS <u>Final Class</u> <u>III</u> JOB <u>CM-7206</u>	
<b>I. INSTRUCTIONS DATED</b>		<b>LAST PRECEDING MAP EDITION</b>	
<b>1. OFFICE</b>		<b>2. FIELD</b>	
Aerotriangulation                      Sept. 19, 1972 Compilation                              Feb. 22, 1973		Field                                      Jan. 26, 1972	
<b>II. DATUMS</b>			
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                      ZONE Alaska                      1	
5. SCALE 1:10,000		STATE                      ZONE	
<b>III. HISTORY OF OFFICE OPERATIONS</b>			
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>Coradomat</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> CONTOURS BY SCALE: <u>1:15,000</u> CHECKED BY		<u>R. White</u> <u>A. Shands</u> <u>N.A.</u>	<u>Sept. 1973</u> <u>Sept. 1973</u>
4. MANUSCRIPT DELINEATION                      PLANIMETRY BY CHECKED BY METHOD: <u>Smooth Draft and Graphic</u> CONTOURS BY CHECKED BY SCALE: <u>1:10,000</u> HYDRO SUPPORT DATA BY CHECKED BY		<u>C. Parker</u> <u>R. White</u> <u>N.A.</u> <u>C. Parker</u> <u>R. White</u>	<u>Oct. 1973</u> <u>Oct. 1973</u>  <u>Oct. 1973</u> <u>Oct. 1973</u>
5. OFFICE INSPECTION PRIOR TO FIELD EDIT                      BY		<u>R. White</u>	<u>Oct. 1973</u>
6. APPLICATION OF FIELD EDIT DATA                      BY CHECKED BY		<u>None</u> <u>None</u>	
7. COMPILATION SECTION REVIEW                      BY		<u>None</u>	
8. FINAL REVIEW                      BY		<u>C. Blood</u>	<u>Oct. 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>Dec. 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-00577

## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "E" FL = 151.77mm		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) 4290-4294	6-23-72	13:37	1:30,000	10.4 ft. above MLLW	
*72 E(C) 4242-4246	6-23-72	13:03	1:30,000	11.1 ft. above MLLW	
72 E(C) 4228-4230	6-23-72	12:53	1:30,000	11.3 ft. above MLLW	
*72 E(C) 4249-4251	6-23-72	13:12	1:30,000	11.1 ft. above MLLW	

## REMARKS

Bridging identified control points on photograph 72 E(C) 4246 for graphic compilation. \*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~~ 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	PH-6705	WEST	PH-6705
TP-00572	TP-00578		T-12313		T-12312

## REMARKS

NOAA FORM 76-36D  
(3-72)

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

TP-00577  
**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	Oct. 5, 1973	Oct. 5, 1973
Final Review	Oct. 1987	Final Class III Map	Dec. 1987	

**II. LANDMARKS AND AIDS TO NAVIGATION** None**1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH**

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

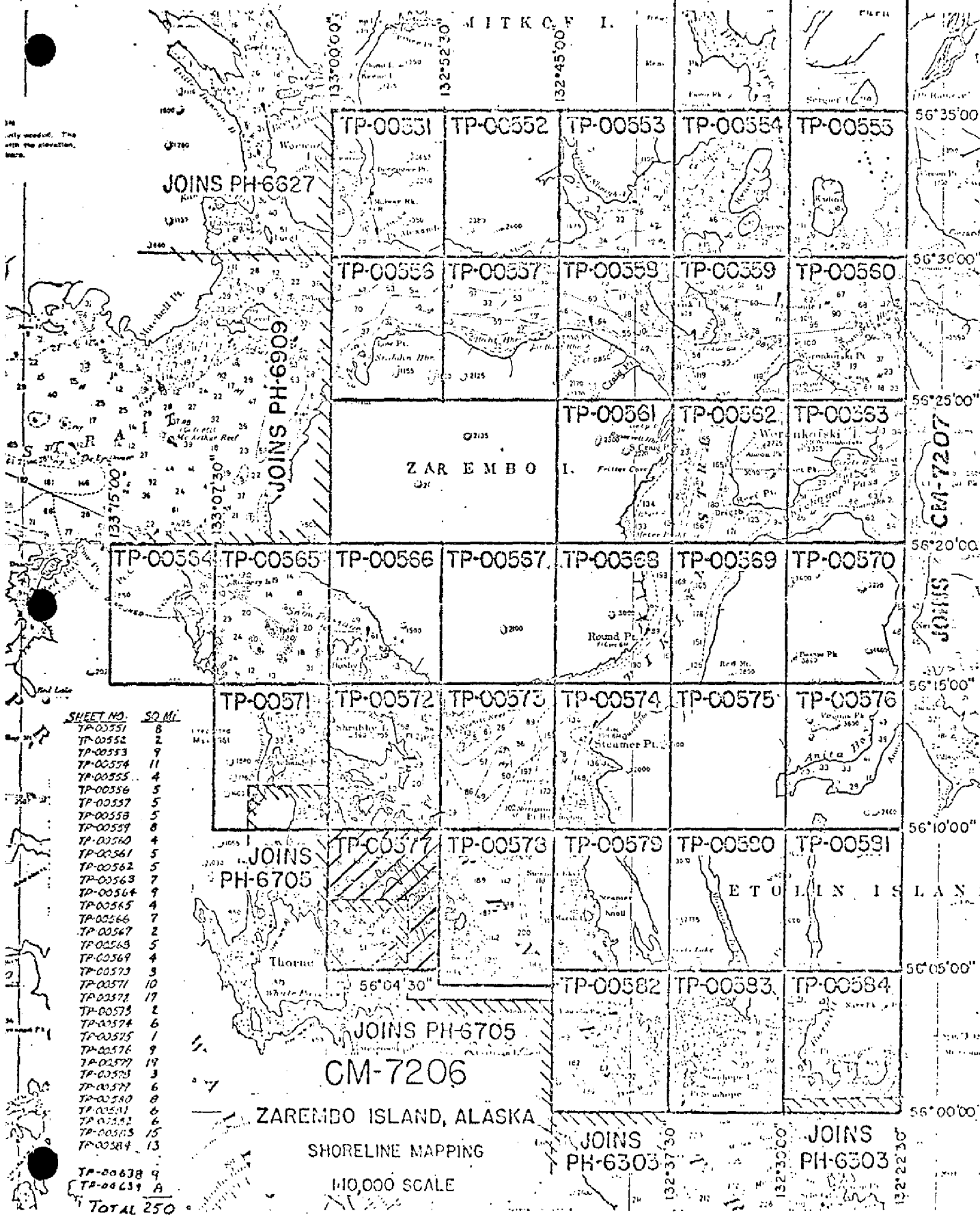
2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: None3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_**III. FEDERAL RECORDS CENTER DATA**

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS. 76-40 ~~562~~ 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



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

TP-00577

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 October 1973.

Field edit was not acquired for TP-00577.

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-00577

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*

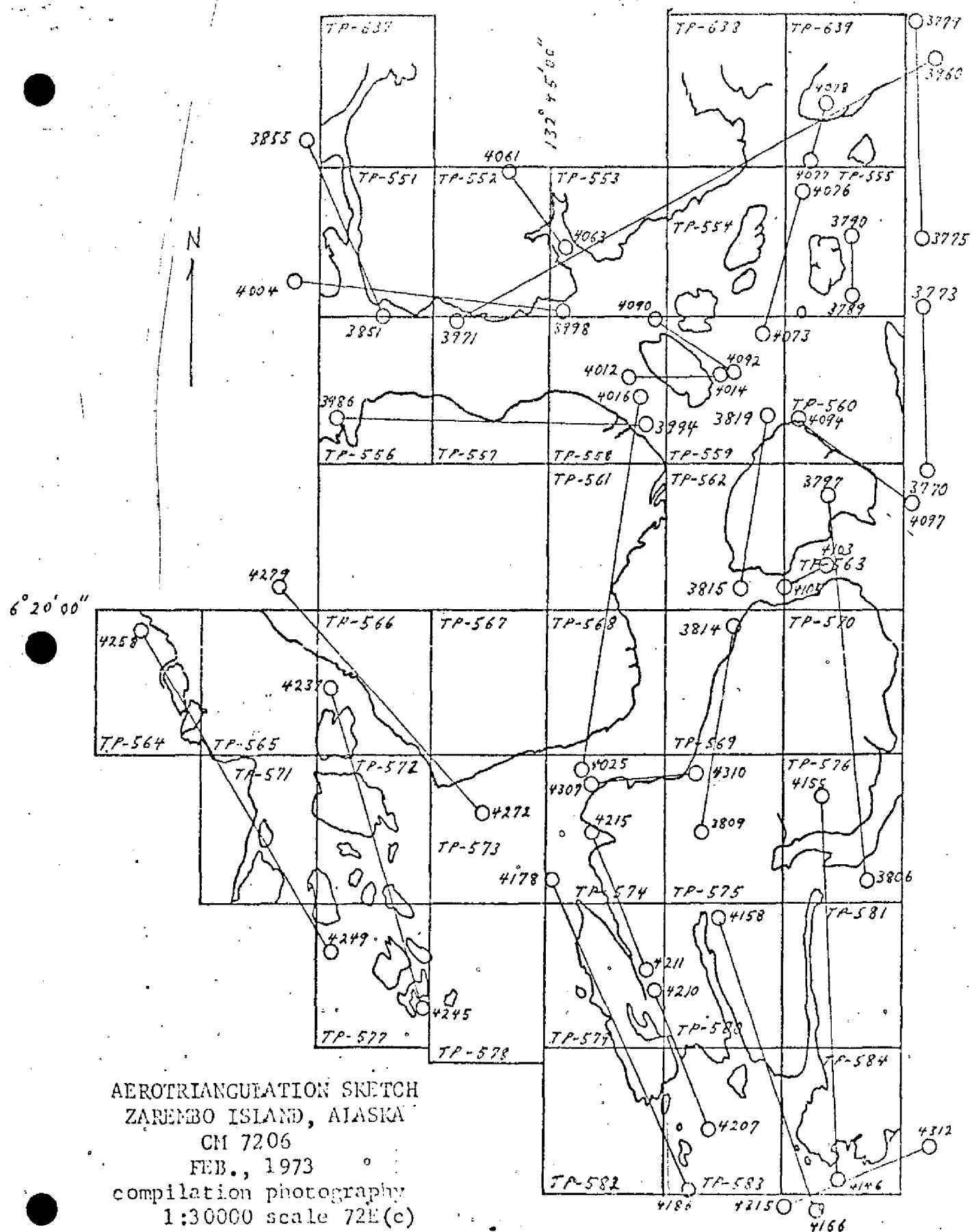
Don O. Norman

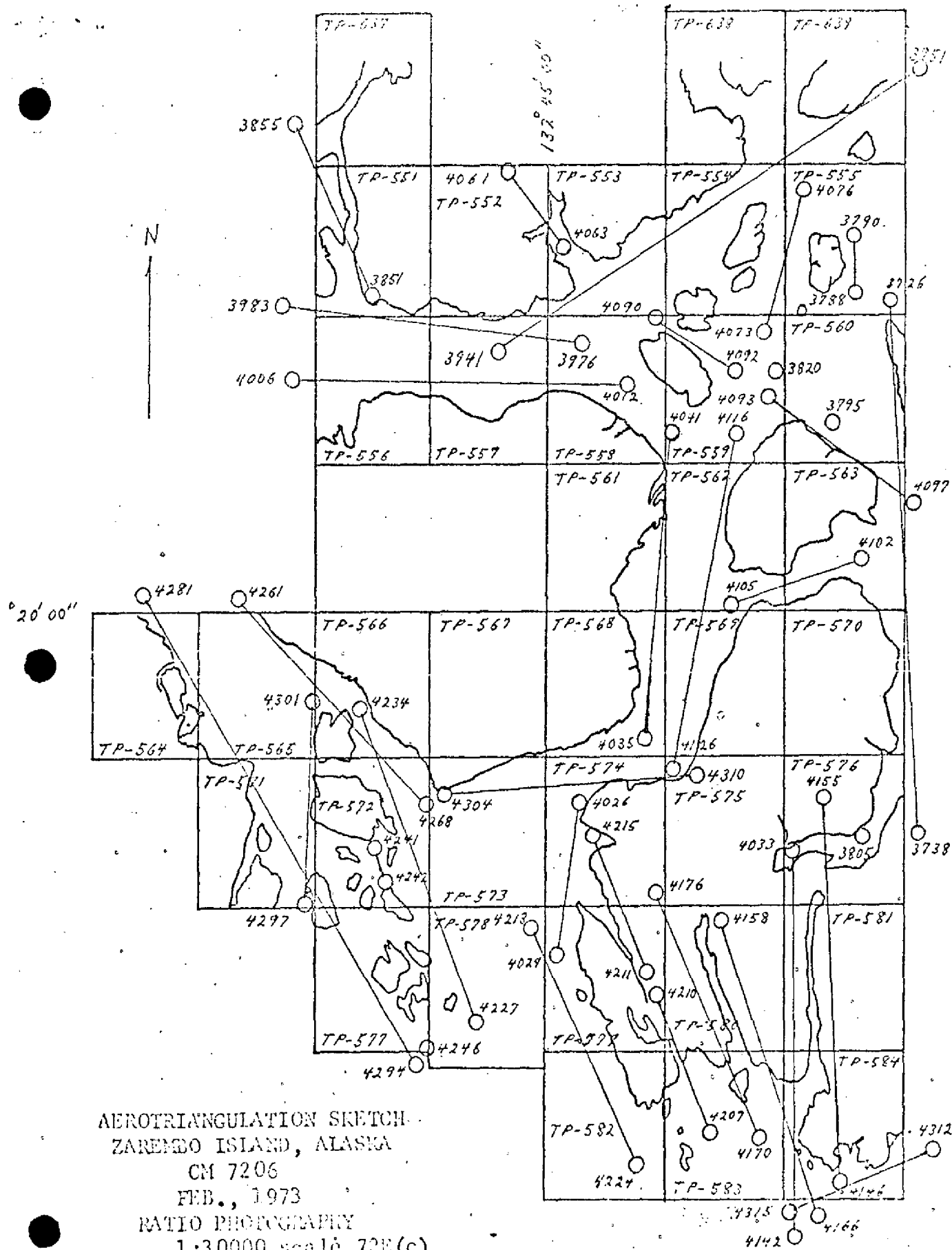
Approved by

*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.	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODETTIC DATUM		ORIGINATING ACTIVITY		REMARKS
					CM-7206	N.A. 1927	Division, AMC, Norfolk, VA	Coastal Mapping	
					COORDINATES IN FEET		GEOGRAPHIC POSITION		
					STATE	ALASKA	$\phi$ LATITUDE	$\lambda$ LONGITUDE	
					ZONE	1			
POLE, 1916	Vol. 1 P. 155	164			X=		$\phi$ 56° 09' 08.353"		
					Y=		$\lambda$ 132° 58' 07.477"		
GIN, 1916	Vol. 1 P. 162	159			X=		$\phi$ 56° 09' 25.13"		
					Y=		$\lambda$ 132° 53' 25.99"		
VETO, 1916	Vol. 1 P. 162	158			X=		$\phi$ 56° 09' 47.48"		
					Y=		$\lambda$ 132° 52' 38.76"		
LAS, 1916	Vol. 1 P. 146	163			X=		$\phi$ 56° 07' 33.926"		
					Y=		$\lambda$ 132° 56' 23.501"		
STUMP, 1916	Vol. 1 P. 156	162			X=		$\phi$ 56° 06' 40.712"		
					Y=		$\lambda$ 132° 55' 10.995"		
ROSE, 1916	Vol. 1 P. 156	161			X=		$\phi$ 56° 05' 07.079"		
					Y=		$\lambda$ 132° 52' 39.845"		
SKE, 1916	Vol. 1 P. 146	160			X=		$\phi$ 56° 06' 00.496"		
					Y=		$\lambda$ 132° 53' 40.308"		
INTO, 1916	Vol. 1 P. 162	156			X=		$\phi$ 56° 08' 18.87"		
					Y=		$\lambda$ 132° 52' 30.11"		
STEW, 1916	Vol. 1 P. 155	165			X=		$\phi$ 56° 09' 17.860"		
					Y=		$\lambda$ 132° 59' 58.228"		
					X=		$\phi$		
					Y=		$\lambda$		
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

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

## COMPILATION REPORT

TP-00577

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter, using 1:30,000 scale color photographs, except for some graphic compilation. See "Notes to Compiler" an addendum to the Plot Report. Photo images were drilled on the compilation photograph 72 E(C) 4246, which were transferred to the 1:10,000 scale ratio photographs. The geographic position of these points were plotted on the map, thus providing control for graphic compilation. Additional control points were located by joining this map to map TP-00578 and graphically resecting points from adjoining photographs.

A portion of this map is delineated on Project PH-6705, T-12313 and 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 photography.

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.

TP-00577

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.

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*  
*for*

Charles Parker  
Cartographic Aid  
October 2, 1973

Approved and forwarded:

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

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7206 (Clarence and Sumner Straits, Alaska)

TP-00577

Blashke Islands

Bluff Island

East Island

Kashevarof Islands

Kashevarof Passage

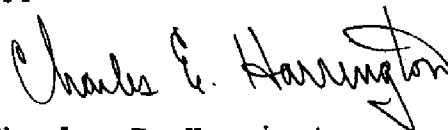
Middle Islands

Rose Rock

Thorne Island

West Island

Approved:



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



REVIEW REPORT  
SHORELINE

TP-00577

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. Bryan*

### 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]