

TP-00878

TP-00878

NOAA FORM 76-35 (3-76) U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
<h1>DESCRIPTIVE REPORT</h1>	
<i>Map No.</i> TP-00878	<i>Edition No.</i> 1
<i>Job No.</i> CM-7811	
<i>Map Classification</i> FINAL, FIELD EDITED MAP	
<i>Type of Survey</i> SHORELINE	
<b>LOCALITY</b>	
<i>State</i> ILLINOIS - INDIANA	
<i>General Locality</i> CHICAGO LAKE FRONT	
<i>Locality</i> GARY HARBOR	
<div style="border: 1px solid black; padding: 5px; display: inline-block;">           1978 TO 19 81         </div>	
<b>REGISTRY IN ARCHIVES</b>	
<b>DATE</b>	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		SURVEY TP. 00878 MAP EDITION NO. (1) MAP CLASS Final JOB <del>WHE</del> CM-7811	
DESCRIPTIVE REPORT - DATA RECORD  PHOTOGRAMMETRIC OFFICE Coastal Mapping Division AMC, Norfolk, VA OFFICER-IN-CHARGE Max Ethridge, LCDR				LAST PRECEDING MAP EDITION			
				TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Aerotriangulation January 24, 1980 Compilation May 27, 1980				Horizontal Control June 12, 1978 Field Edit June 26, 1981			
II. DATUMS							
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN				OTHER (Specify)			
2. VERTICAL: <input 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) International Great Lakes Datum, (1955) Lake Michigan Low Water Datum			
3. MAP PROJECTION  Transverse Mercator				4. GRID(S) STATE ZONE Indiana West			
5. SCALE 1:10,000				STATE ZONE			
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY				R. Kelly		April 1980	
METHOD: Analytic LANDMARKS AND AIDS BY				R. Kelly		" "	
2. CONTROL AND BRIDGE POINTS PLOTTED BY				R. Cauthorne		" "	
METHOD: Calcomp CHECKED BY				R. Cuathorne		" "	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY				C. Blood		Oct. 1980	
COMPILATION CHECKED BY				F. Mauldin & L. Neterer		" "	
INSTRUMENT: Wild B-8				CONTOURS BY		NA	
SCALE: 1:10,000				CHECKED BY		NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY				C. Blood		Dec. 1980	
CHECKED BY				F. Mauldin		Jan. 1981	
METHOD: Smooth drafted				CONTOURS BY		NA	
CHECKED BY				NA			
SCALE: 1:10,000 HYDRO SUPPORT DATA BY				C. Blood		Dec. 1980	
CHECKED BY				F. Mauldin		Jan. 1981	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				F. Mauldin		Jan. 1981	
6. APPLICATION OF FIELD EDIT DATA BY				P. Evans		Sept. 1981	
CHECKED BY				F. Mauldin		Mar. 1982	
7. COMPILATION SECTION REVIEW BY				F. Mauldin		Mar. 1982	
8. FINAL REVIEW BY				J. Hancock		Sept. 1982	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				J. Hancock		Oct. 1982	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				R. Kelly		Apr. 1983	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				(Signature) D. Wolfe		OCT 4 1983	

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

TP-00878

## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild R.C.-8 "S" (S = 152.29 mm) ✓		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Central MERIDIAN 90th <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
78 S(P) 8180-8182 ✓	June 5, 1978	13:42	1:30,000	NA (See below)	

REMARKS The lake level at time of photography was 579.05 feet or 2.25 feet above the International Great Lakes Datum. Water levels were taken at the Calumet Harbor gage on June 5, 1978.

## 2. SOURCE OF MEAN HIGH-WATER LINE:

The term Mean High-Water Line is not applicable. The "shoreline" was delineated from the above listed photographs, and is defined as the visible line of contact on the photographs between land and water.

## 3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

Not applicable

## 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	No survey	No survey	TP-00877
REMARKS			

TP-00878

## HISTORY OF FIELD OPERATIONS.

I. ☒ FIELD INSPECTION OPERATION (Hor. Control) ☐ FIELD EDIT OPERATION.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	L. Davis	Aug. 1978
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 None	
	IDENTIFIED BY 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 None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

None

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)

REMARK: No horizontal control (photo-identification) coverage fell within the limits of this map.

TP-00878  
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. S. Tibbetts	June 1981
2. HORIZONTAL CONTROL	RECOVERED BY J. D. Dimare	June 1981
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
3. VERTICAL CONTROL	RECOVERED BY NA	
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY J. D. Dimare	June 1981
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY 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 J. D. Dimare	June 1981
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

## 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)

78 S(P) 8180, 8181, 8182 (1:10,000 scale)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

(See below)

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
78S(P)8181	Gary East Pierhead Light		
78S(P)8181	Gary West Pierhead Light		
(1:10,000 scale)			

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)

4 Forms 76-40

1 Field Edit Report

1 Film Master Field Edit Print

NOAA FORM 76-360  
(3-72)

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

TP-00878  
**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	Jan. 1981	Class III manuscript Superseded	None	None
Field edit applied Compilation complete	March 1982	Class I manuscript	None	None
Final Review	Sept. 1982	Final Map	Jan 7, 1983	None

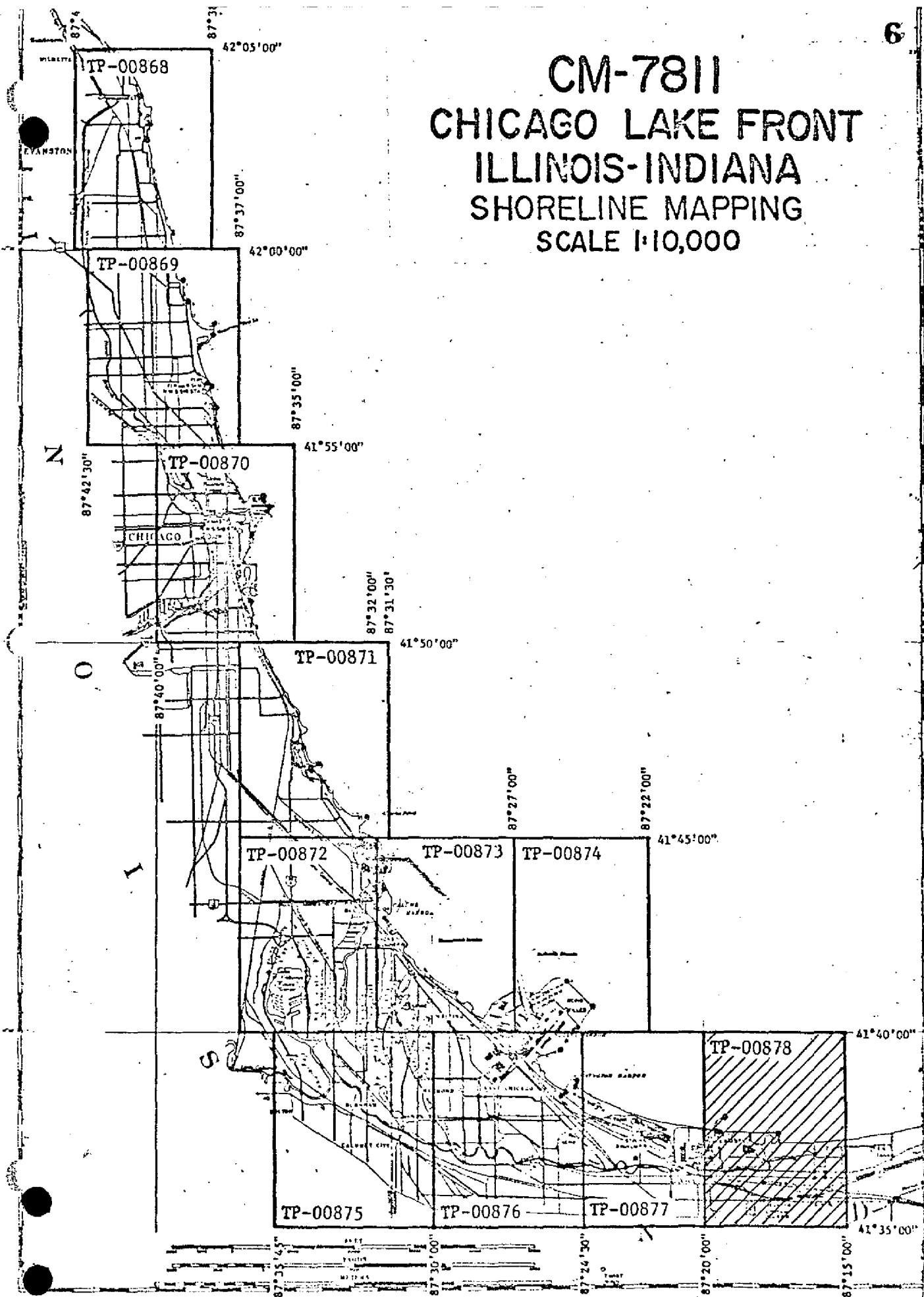
II. LANDMARKS AND AIDS TO NAVIGATION			
1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH			
NUMBER (pages)	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		Jan 7, 1983	Landmarks to be charted
1		"	Landmarks recommended for deletion
1		"	Aids to be charted

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. ~~200~~ SUBMITTED BY FIELD PARTIES. Form 76-40
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: SEPTEMBER 1983

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	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	<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
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	<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
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	<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

CM-7811  
CHICAGO LAKE FRONT  
ILLINOIS-INDIANA  
SHORELINE MAPPING  
SCALE 1:10,000



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

TP-00878

This 1:10,000 scale final shoreline map is one of eleven maps, TP-00868 through TP-00878, that comprise project CM-7811, Chicago Lake Front, Illinois-Indiana.

The purpose of this project was to provide current charting information for nautical chart maintenance. No hydrographic operations were concurrent with this mapping project.

This final map portrays a portion of the southern shore of Lake Michigan from Long. 87°15.0' to Long. 87°20.0' featuring Gary Harbor, Indiana. This map defines the southeast limit for the project.

Two flight strips of 1:60,000 scale panchromatic photography were obtained for aerotriangulation May 10, 1978 using the RC-10 "Y" camera. Four flight strips of 1:30,000 scale panchromatic photography were obtained for compilation June 5, 1978, using the RC-8 "S" camera. This photography provided adequate coverage for the project.

Field work prior to compilation was accomplished in August 1979; this involved the establishment of horizontal control by field photo-identification methods specified to meet aerotriangulation requirements.

Analytic aerotriangulation was adequately provided by the Washington Science Center in April 1980.

Compilation was performed at the Coastal Mapping Section, Atlantic Marine Center, in January 1981. Copies of the Class III map were submitted for field edit.

Field edit was performed in September 1981 by assigned personnel from the Field Surveys Branch, AMC. Field data acquired during this edit was returned to the original compilation office and applied in March 1982.

Final review was performed at the Atlantic Marine Center in September 1982. At that time, a final Chart Maintenance Print was prepared and submitted for the Marine Chart Division.

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



FIELD INSPECTION

TP-00878

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

Photogrammetric Plot Report

CM-7811

Chicago Lake Front

Illinois-Indiana

April 18, 1980

21. Area Covered

This report covers 11 1:10,000 sheets, TP-00868 thru TP-00878 of Chicato Lake Front Illinois-Indiana.

22. Method

Two strips of 1:60,000 scale photography were bridged by analytic aerotriangulation methods and adjusted to ground on the Illinois State Plane Coordinate System, Illinois East Zone. These 2 strips were bridged to established compilation points to control 4 strips of 1:30,000 compilation photography. Aids and landmarks were located in bridging of the 1:60,000 scale photography. Ratio values were determined of the 1:30,000 scale photography and one each black-and-white print film were ordered for compilation and field edit. Ruling of manuscript and plotting of points were done on the CALCOMP and forwarded to AMC.

23. Adequacy of Control

The horizontal control provided was adequate except for Foster, 1977 Substitute Station B, which was the intersection of two paved walkways.

Due to the irregular shape of the intersection an accurate instrument reading was impossible. All other control held within the accuracy required by National Standards of Maps at 1:10,000 scale.

24. Supplemental Data

Local shoreline and U.S. Geological Survey quadrangles were used to provide vertical elevations for vertical adjustments of bridges.

25. Photography

RC-10 "Y" photography was used for the 2 bridging strips. RC-8 "S" Photography was used for the 4 compilation strips. Both RC-10 "Y" and RC-8 "S" photography were adequate as to coverage and definition. Vacuum failure was noticed at the end lap of the RC-8 "S" photography, but this should not effect the compilation.

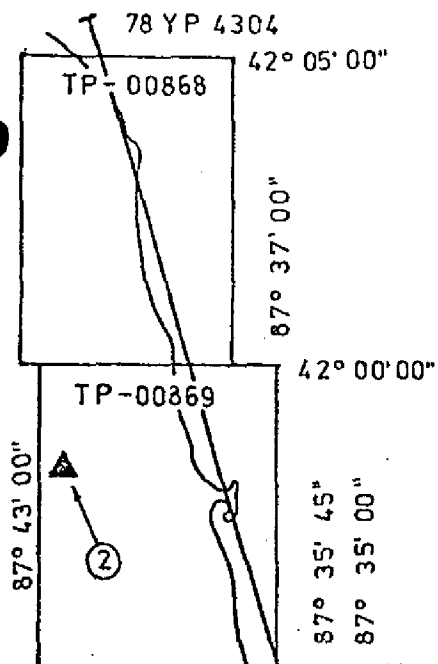
Submitted by,

*Robert B. Kelly*  
Robert B. Kelly

Approved and Forwarded:

*Don O. Norman*  
Don O. Norman

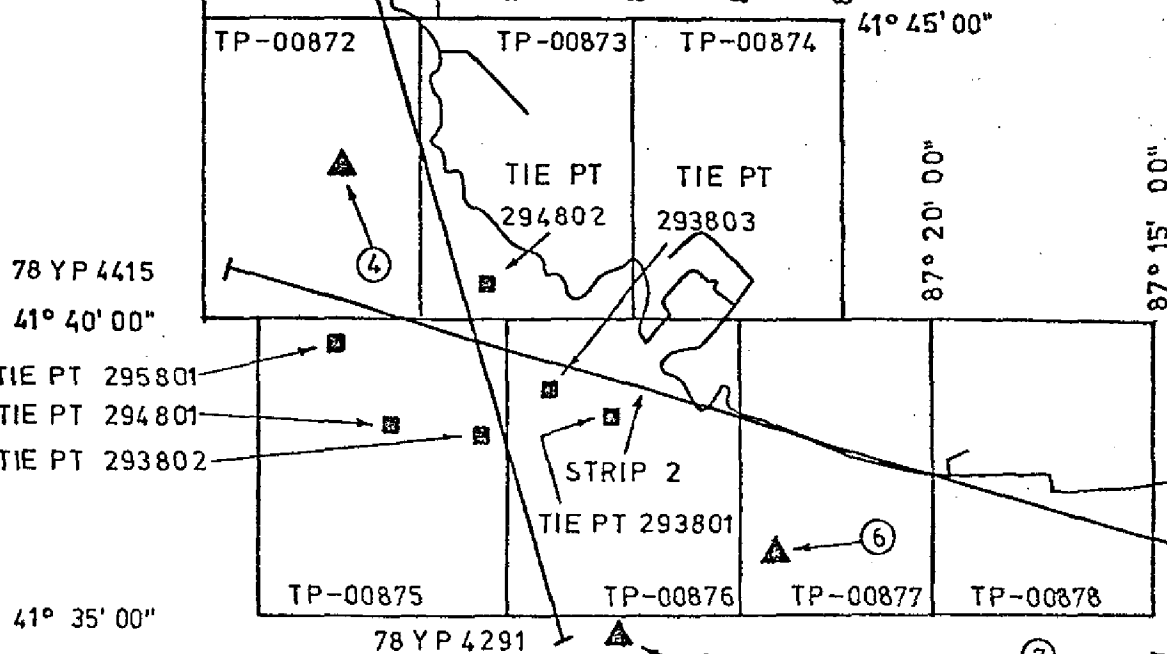
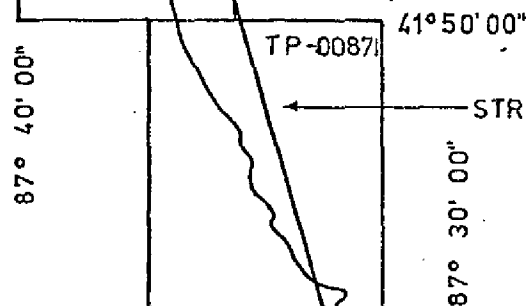
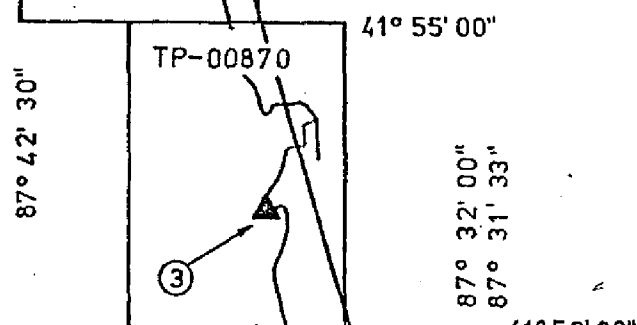
Chief, Aerotriangulation Section



BRIDGING PHOTOGRAPHY

**CM-7811**  
**CHICAGO LAKE FRONT**  
**ILLINOIS-INDIANA**  
**SHORELINE MAPPING**  
**SCALE 1:10,000**

- 1 GLENVIEW, 1956
- 2 FOSTER, 1977
- 3 021 COC
- 4 OSWALD, 1977
- 5 HIGHLAND, 1952
- 6 EDISON, 1952
- 7 HOBART, 1952



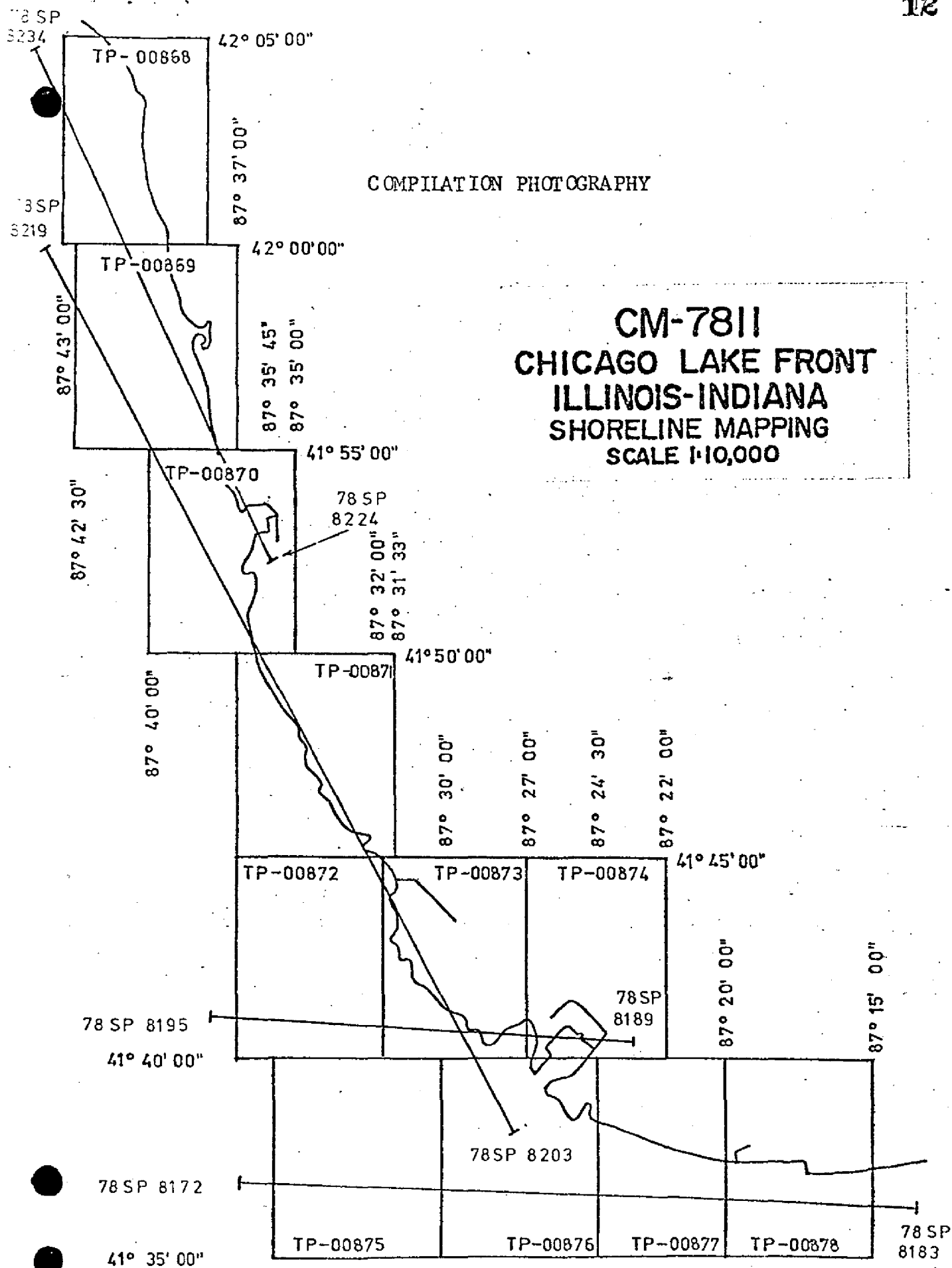
## CLOSURES TO CONTROL

## STRIP 1

304101	GLENVIEW, 1956	SUB PT A	4.4	,	-6.6
304102	" "	" " B	3.5	,	-0.7
301101	FOSTER, 1977	SUB PT A	-0.3	,	0.8
301102	" "	" " B	-0.5	,	14.2
298101	021 COC	SUB PT A	1.4	,	-1.8
298102	" "	" " B	0.0	,	-1.3
415101	OSWALD, 1977	SUB PT A	-1.1	,	3.1
415102	" "	" " B	0.2	,	0.8
292101	HIGHLAND, 1952	SUB PT A	-0.0	,	-0.2
292102	" "	" " B	-1.2	,	-4.9

## STRIP 2

415102	OSWALD, 1977	SUB PT B	0.9	,	0.2
295801	TIE POINT		2.5	,	-0.1
294801	" "		-1.5	,	-0.7
294802	" "		0.3	,	2.8
293802	" "		-0.2	,	-1.1
293803	" "		-0.9	,	-0.8
293801	" "		3.9	,	1.5
411101	EDISON, 1972	SUB PT A	-2.4	,	2.5
411102	" "	" " B	-1.9	,	-3.3
409101	HOBART, 1972	SUB PT A	-1.7	,	0.9
409102	" "	" " B	-5.6	,	0.1



## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	GEODETTIC DATUM		AEROTRI- ANGULATION POINT NUMBER	ORIGINATING ACTIVITY	
			N.A. 1927	Coastal Mapping Division			
TP-00878		CM-7811	COORDINATES IN FEET	Geographic Position	φ LATITUDE	λ LONGITUDE	
		SOURCE OF INFORMATION (Index)	STATE Indiana				
			ZONE West				
JORDAN, 1952	410871		X= 435,766.35	φ 41°36'01.577"			
	1008		Y= 1,493,627.65	λ 87°19'05.452"			
			X=	φ			
			Y=	λ			
			X=	φ			
			Y=	λ			
			X=	φ			
			Y=	λ			
			X=	φ			
			Y=	λ			
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			X=	φ			
			Y=	λ			
			X=	φ			
			Y=	λ			
			X=	φ			
			Y=	λ			
COMPUTED BY A. Rauck, Jr.			COMPUTATION CHECKED BY F. Margiotta		DATE May 14, 1980		
LISTED BY A. Rauck, Jr.			LISTING CHECKED BY F. Margiotta		DATE May 14, 1980		
HAND PLOTTING BY L. Williams			HAND PLOTTING CHECKED BY I. Perkinson		DATE May 22, 1980		

## COMPILATION REPORT

TP-00878

31. DELINEATION

Delineation was by instrument methods using the Wild B-8 stereo-plotter and by office interpretation of the 1:30,000 scale panchromatic photographs. The compilation photography was adequate. Photographs ratioed at 3.02 times the contact photo size were processed for field edit.

32. CONTROL

The horizontal control was adequate. Refer to the Photogrammetric Plot Report, dated April 18, 1980.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are not applicable. Drainage was delineated by the Wild B-8 instrument from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

Refer to form 76-36B, Item 2 for shoreline delineation.

Alongshore details were delineated by the Wild B-8 stereoplotter from office interpretation of the photographs.

36. OFFSHORE DETAILS

No unusual problems.

37. LANDMARKS AND AIDS

Preliminary 76-40 forms consisting of 1 page of Navigational Aids and 1 page of Landmarks for Charts were prepared for field edit.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Refer to the Data Record Form 76-36B, Item 5.

TP-00878

40. HORIZONTAL AND VERTICAL ACCURACY

See Item #32.

41. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. quadrangle, Gary, Indiana, 1:24,000 scale, dated 1968.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with N.O.S. charts: No. 14926, 3rd edition, dated July 24, 1976, two pages, 1:15,000 scale and 1:60,000 scale; No. 14927, 1:60,000 scale dated May 5, 1979, 17th edition; No. 14905, 21st edition, dated March 3, 1979, scale 1:120,000.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by,

*Charles Blood*

Charles Blood  
Cartographic Technician

Date: December 3, 1980

Approved,

*James L. Byrd, Jr.*

James L. Byrd, Jr.  
Chief, Coastal Mapping Section



## ADDENDUM TO THE COMPILATION REPORT

TP-00878

FIELD EDIT

According to the field editor, there are numerous steel swimming markers posted approximately 200 ft. beyond the shoreline starting at the ramp at Long. 87°16.1' and extending east, parallel to the beach. No location was determined for these markers since they are seasonally used only from June to September and removed during the inactive months.

JOB CM-7811, CHICAGO LAKE FRONT, TP-00878

51. METHODS

The shoreline was inspected by boat and by truck. The portion of this sheet on U.S. Steel Property was checked with one of their engineers who was very helpful with all interior questions asked on this manuscript.

Additions and deletions were noted on the Master Field Edit Print and cross-referenced to the NOAA Form 76-40.

Field edit information will be found on the Master Field Edit Print and Photographs: 78SP-8180, 8181 and 8182.

52. ADEQUACY OF COMPILATION

The compilation was found to be adequate and will be complete upon application of field edit information.

54. RECOMMENDATIONS

Three charted landmarks are recommended for deletion and two are recommended for charting. Forms 76-40 are submitted.

*Joseph D. Di Mare*  
Joseph D. Di Mare  
Surveying Technician

4 September 1981  
Approved and forwarded:

*Robert S. Tibbetts*  
Robert S. Tibbetts  
Chief, Photo Party 62

REVIEW REPORT TP-00878  
SHORELINE61. GENERAL STATEMENT:

Refer to the Summary included in this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. quadrangle Gary, Indiana, 1968, 1:24,000 scale. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No contemporary hydrographic survey was conducted in the area common to this final map.

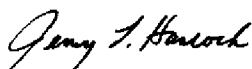
65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following N.O.S. charts:  
14926, 3rd edition, 1:15,000/1:60,000 scales, dated July 24, 1976  
14927, 17th edition, 1:60,000 scale, dated May 5, 1979  
14905, 21st edition, 1:120,000 scale, dated March 3, 1979

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

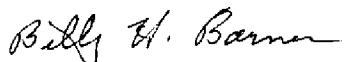
This map complies with the Project Instructions and meets the requirements for National Standards of Map Accuracy.

Submitted by,



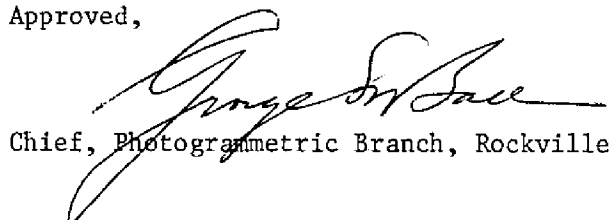
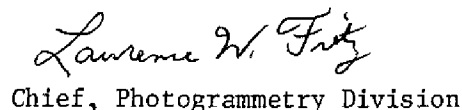
Jerry L. Hancock  
Final Reviewer

Approved for forwarding,



Billy H. Barnes  
Chief, Photogrammetric Branch, AMC

Approved,

  
Chief, Photogrammetric Branch, Rockville  
Chief, Photogrammetry Division

August 13, 1982

17.

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7811 (Chicago Lakefront, Illinois-Indiana)

TP-00878

Gary

Gary Harbor

Grand Calumet River

Grand Calumet River Lagoon

Marquette Park Beach

Approved by:

*Charles E. Harrington*  
Charles E. Harrington  
Chief Geographer, OA/C3x5

CM-7811

CHICAGO LAKE FRONT, ILL. & IND.

MATERIAL ON FILE

NATIONAL ARCHIVES/FEDERAL RECORDS CENTER

BOX (CONTENTS)

- Control Station Identification Cards
- Field Identified Horizontal Control Photographs
- Field Edit Photographs
- Bridging Photographs
- Field Edit Copies (Discrepancy Prints)

Project Completion Report

BUREAU ARCHIVES

- Registered Maps
- Descriptive Reports

REPRODUCTION DIVISION

8x Reduction Negative of Each Map

OFFICE OF STAFF GEOGRAPHER

Geographic Names Standards

[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	R. S. Tibbelts
POSITIONS DETERMINED AND/OR VERIFIED	J. D. Dimare
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	C. Blood
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
<b>OFFICE</b> <b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b> Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	<b>FIELD (Cont'd)</b> <b>B. Photogrammetric field positions** require</b> entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
<b>FIELD</b> <b>I. NEW POSITION DETERMINED OR VERIFIED</b> Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	<b>II. TRIANGULATION STATION RECOVERED</b> When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 <b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b> Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 <b>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</b>
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

[illegible]



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POSITIONS DETERMINED AND/OR VERIFIED	J. D. Dimare
	C. Blood
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	<input checked="" type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
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