

TP-00873

TP-00873

NOAA FORM 76-35 (3-76)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. TP-00873	Edition No. 1
Job No. CM-7811	
Map Classification FINAL, FIELD EDITED MAP	
Type of Survey SHORELINE	
LOCALITY	
State ILLINOIS - INDIANA	
General Locality CHICAGO LAKE FRONT	
Locality CALUMET HARBOR	
19 78 TO 1981	
REGISTRY 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 AMC, Norfolk, VA		SURVEY TP <u>00873</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final</u> JOB <u>RM-CM-7811</u>	
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__	
<b>I. INSTRUCTIONS DATED</b>			
<b>1. OFFICE</b>		<b>2. FIELD</b>	
Aerotriangulation      January 24, 1980 Compilation              May 27, 1980		Horizontal Control      June 12, 1978 Field Edit                June 26, 1981	
<b>II. DATUMS</b>			
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 Illinois                      E	
5. SCALE 1:10,000		STATE                      ZONE	
<b>III. HISTORY OF OFFICE OPERATIONS</b>			
OPERATIONS		NAME	
DATE			
1. AEROTRIANGULATION METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY		R. Kelly      April 1980	
2. CONTROL AND BRIDGE POINTS METHOD: <u>Calcomp</u> PLOTTED BY		R. Kelly      "      "	
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: <u>Wild B-8</u> SCALE: <u>1:10,000</u>		R. Cauthorne      "      " R. Cauthorne      "      " J. Moler / R. Kravitz      9-1980/2-1981 F. Mauldin      Feb. 1981	
4. MANUSCRIPT DELINEATION  METHOD: <u>Smooth drafted</u>  SCALE: <u>1:10,000</u>		NA NA J. Moler/ R. Kravitz      10-1980/2-1981 F. Mauldin      March 1981 NA NA J. Moler/ R. Kravitz      10-1980/2-1981 F. Mauldin      March 1981	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT		F. Mauldin      March 1981	
6. APPLICATION OF FIELD EDIT DATA		R. Kravitz      March 1982 W. McLemore      April 1982	
7. COMPILATION SECTION REVIEW		W. McLemore      April 1982	
8. FINAL REVIEW		J. Hancock      Sept. 1982	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH		J. Hancock      Oct. 1982	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH		R. Kelly      Apr. 1983	
11. MAP REGISTERED - COASTAL SURVEY SECTION		D. Wolfe      1983	

NOAA FORM 76-36B  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEYTP-00873  
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) 8205-8208 ✓	June 5, 1978	14:09	1:30,000	NA	
78 S(P) 8190-8193 ✓	June 5, 1978	13:54	1:30,000	(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 & 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	TP-00874 ✓	TP-00875 - TP-00876 -	TP-00872 -

REMARKS

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

TP-00873

## HISTORY OF FIELD OPERATIONS.

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

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	L. Davis	July 1979
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	None None None
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	None
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) None			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> 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-00873  
**HISTORY OF FIELD OPERATIONS**

I. <input type="checkbox"/> FIELD INSPECTION OPERATION <span style="margin-left: 100px;"><input checked="" type="checkbox"/> FIELD EDIT OPERATION.</span>			
OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		P. B. Walbolt	June 1981
2. HORIZONTAL CONTROL	RECOVERED BY	P. B. Walbolt	June 1981
	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	C. S. Middleton	July 1981
	IDENTIFIED BY	P. B. Walbolt	June 1981
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	N. Wike & P. B. Walbolt	June 1981
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA	
<b>II. SOURCE DATA</b>			
1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
None		None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS (Clarification of details)			
78 S(P) 8207 (1:10,000 scale)			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED			
See below			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
78 S(P) 8207 (1:10,000 scale)	North Slip South Light		
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS			
None			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)			
1 Form 76-109 (Hor. Observations Bk.), 5 Forms 76-40, 6 Forms 76-184, 2 Forms 76-135, 2 Forms 76-72, 1 Form 76-177, 2 Forms 470, 1 Film master field edit print, 1 Field edit report			

NOAA FORM 76-36D  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONTP-00873  
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	March 1981	Class III manuscript Superseded	None	None
Field edit applied; compilation complete	April 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 for charts
1		"	Aids for charts
1		"	Landmarks recommended for chart deletion

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. ~~301~~ SUBMITTED BY FIELD PARTIES. (Forms 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 <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	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 <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	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 <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	

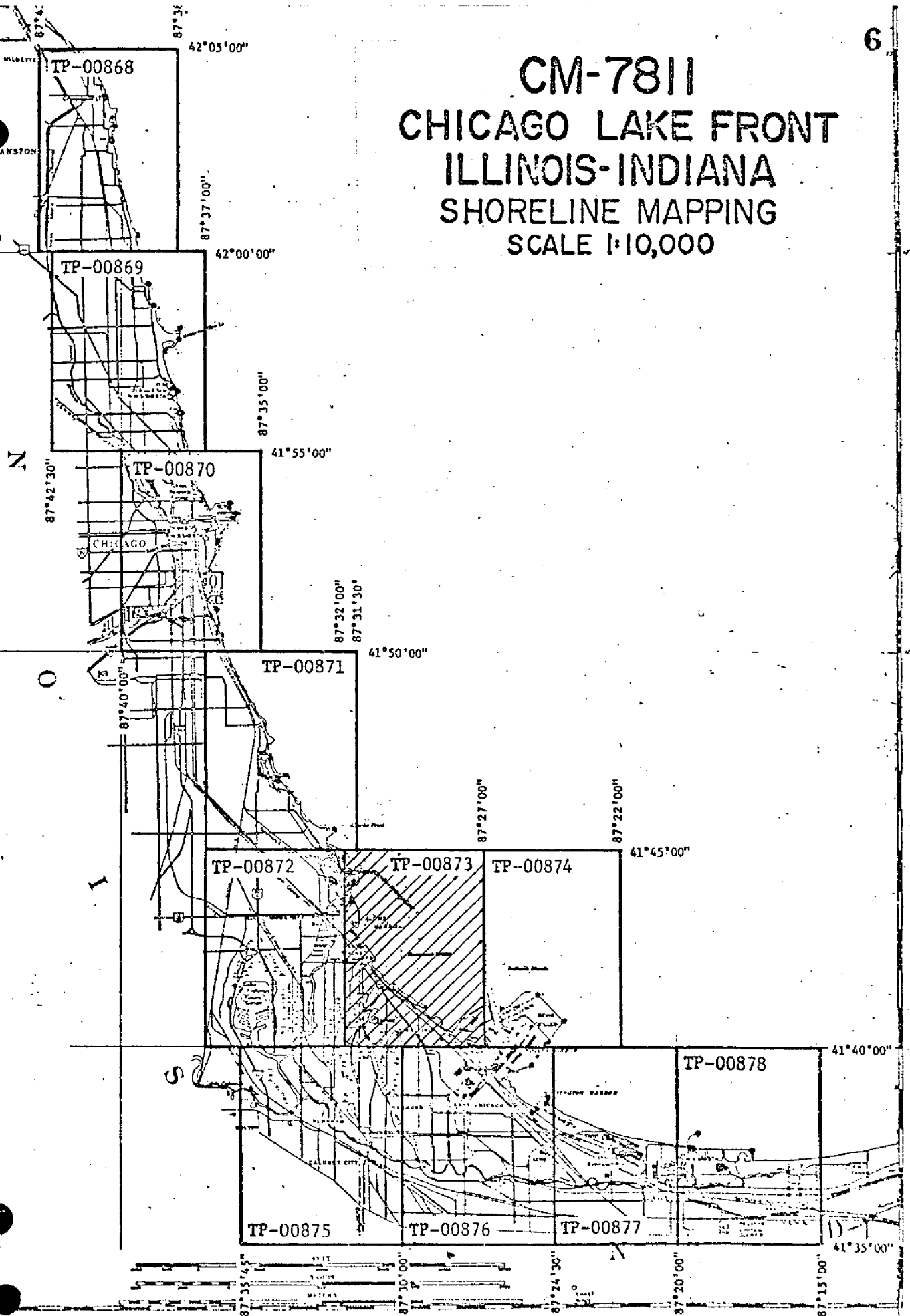
# CM-7811

## CHICAGO LAKE FRONT

### ILLINOIS-INDIANA

#### SHORELINE MAPPING

SCALE 1:10,000



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

TP-00873

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 the western shore of Lake Michigan from Lat.  $41^{\circ}40.0'$  to Lat.  $41^{\circ}45.0'$  featuring the Calumet Harbor entrance area.

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 March 1981. Copies of the Class III map were submitted for field edit.

Field edit was performed in August 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 April 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-00873

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.

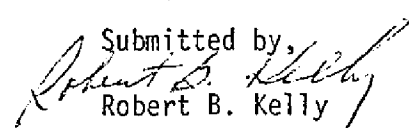
24. Supplemental Data

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

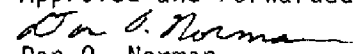
25. Photography

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.

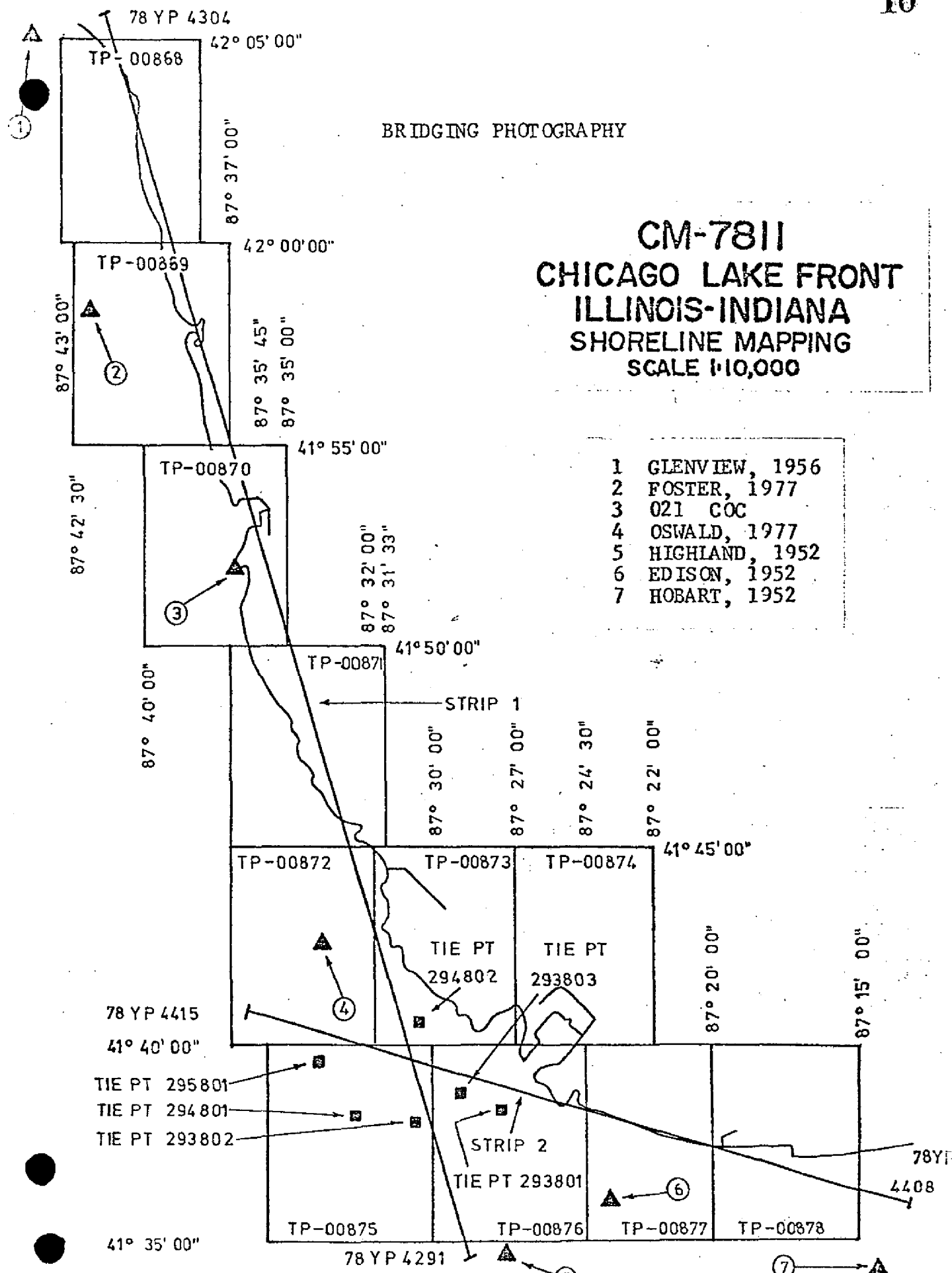
Submitted by,

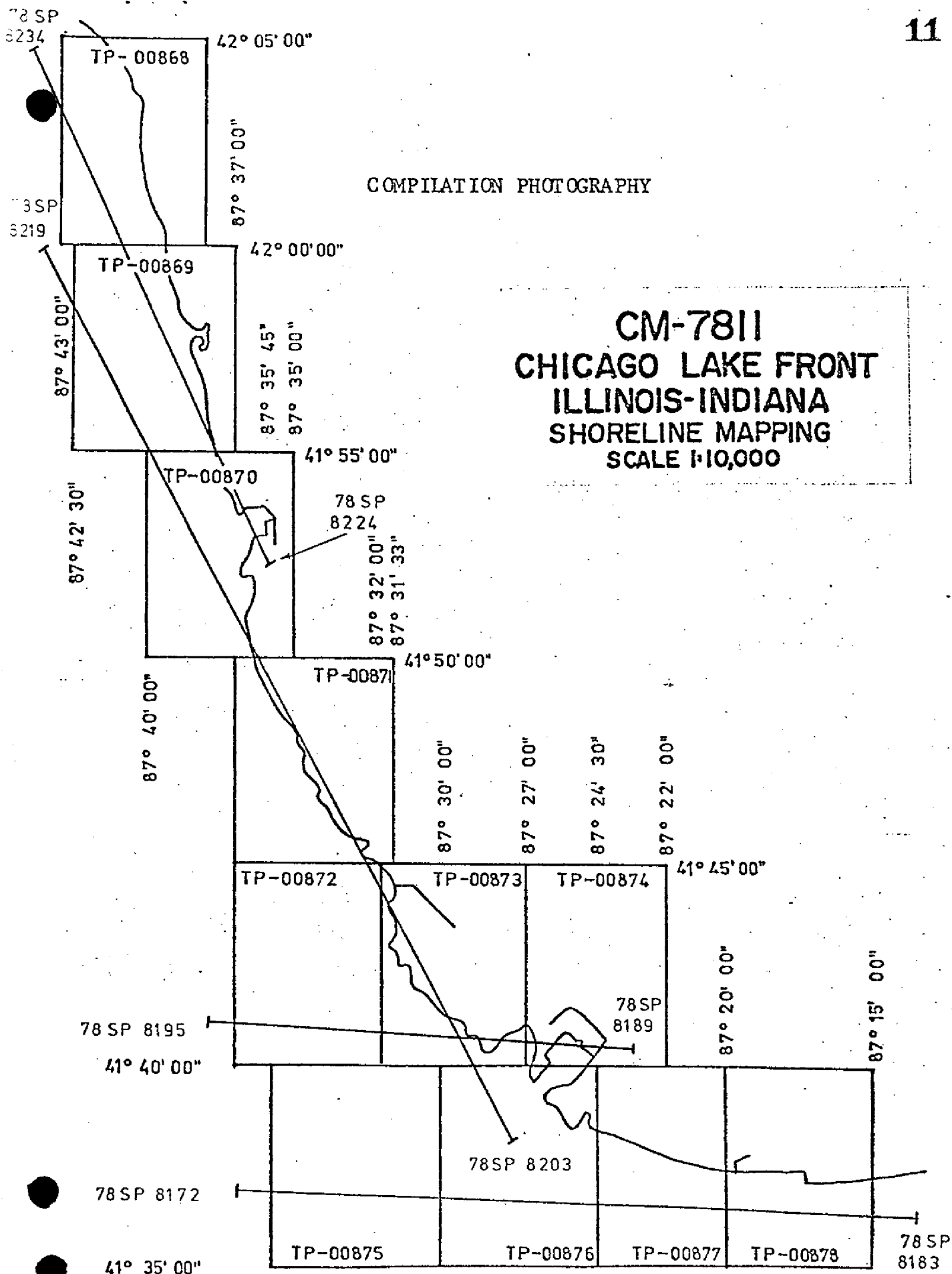
  
Robert B. Kelly

Approved and Forwarded:

  
Don O. Norman

Chief, Aerotriangulation Section





# 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. TP-00873	JOB NO. CM-7811	GEODETTIC DATUM NA 1927		ORIGINATING ACTIVITY Coastal Mapping Division AMC, Norfolk, VA	
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION $\phi$ LATITUDE $\lambda$ LONGITUDE
			STATE Illinois	ZONE East	
NONE			X=	$\phi$	REMARKS
			Y=	$\lambda$	
			X=	$\phi$	
			Y=	$\lambda$	
			X=	$\phi$	
			Y=	$\lambda$	
			X=	$\phi$	
			Y=	$\lambda$	
			X=	$\phi$	
			Y=	$\lambda$	
			X=	$\phi$	
			Y=	$\lambda$	
			X=	$\phi$	
			Y=	$\lambda$	
			X=	$\phi$	
			Y=	$\lambda$	
COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATE
LISTED BY A. Rauck, Jr.		DATE	LISTING CHECKED BY W. McLeomore		DATE April 1982
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE

## COMPILATION REPORT

TP-00873

31. DELINEATION

Delineation was by instrument methods using the Wild B-8 stereoplotter 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 2 pages of Landmarks for Charts were prepared for field edit.

38. CONTROL FOR FUTURE SURVEYS

None

TP-00873

39. JUNCTIONS

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

40. HORIZONTAL AND VERTICAL ACCURACY

See Item #32.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. quadrangles:  
Lake Calumet, Illinois-Indiana, photo revised 1973, scale 1:24,000  
Whiting, Indiana 1968 scale 1:24,000

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with N.O.S. Chart No. 14926, scales 1:10,000  
and 1:20,000, dated July 24, 1976, 3rd edition; No. 14929, scale  
1:15,000, dated January 27, 1979, 16th edition; No. 14927, scale  
1:60,000, dated May 5, 1979, 17th edition.

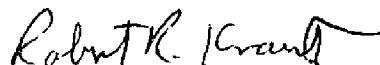
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

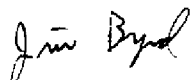
Submitted by:



Robert R. Kravitz  
Cartographic Technician

Date: February 1981

Approved:



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



## ADDENDUM TO THE COMPILATION REPORT

TP-00873

FIELD EDIT

The field editor noted that there is a cable running along the southern edge of the large breakwater protecting Calumet Harbor. He also noted that this cable is broken and not in use. No positions for the cable were given.

At approximately Lat.  $41^{\circ}43'15''$  Long.  $87^{\circ}31'30''$  there is a submerged bulkhead that was verified by the field editor. He also noted that there is a row of steel girders along the submerged bulkhead that project 3 feet. These girders were not compiled as no data for their location was submitted.

FIELD EDIT REPORT  
TP-00873 CALUMET HARBOR  
CM-7811 CHICAGO LAKE FRONT  
ILLINOIS - INDIANA

51. METHODS

This Map was edited by boat, by truck, and by foot. A few changes are indicated on the photo, and are referenced on the Field Edit Print.

All questions were investigated thoroughly in the field, and are answered on the Map.

52. ADEQUACY OF COMPILATION

The compilation appears to be good, and it will be both complete and adequate upon the application of this edit.

54. RECOMMENDATIONS

No recommendations for the Map. However, the title name "Calumet" is spelled incorrectly on the bottom margin of the map.

56. GEOGRAPHIC NAMES

There are no name changes on this Map.

57. LANDMARKS AND AIDS

Four (4) Stacks are recommended for deletion, as they do not show well from seaward. One prominent Stack which is already compiled is recommended as a Landmark, as it shows well from seaward.

A private front range light was located by traverse, and the data is included herein. An additional light was indicated on the photograph.

58. FIELD EDITOR

Field Edit was by P. B. Walbolt.

24 August 1981

Submitted by:

*Philip B. Walbolt*

Philip B. Walbolt

Chief, Photo Party 63

## REVIEW REPORT TP-00873

## SHORELINE

61. 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 the following 1:24,000 U.S.G.S. quadrangles:

Lake Calumet, Illinois-Indiana, 1965 photorevised 1973

Whiting, Indiana, 1968

No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

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

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following N.O.S. charts:

14926, 3rd edition, 1:20,000 scale, dated July 24, 1976

14929, 16th edition, 1:15,000 scale, dated January 27, 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*

Jerry L. Hancock  
Final Reviewer

Approved for forwarding:

*Billy H. Barnes*

Billy H. Barnes  
Chief, Photogrammetric Branch, AMC

Approved:

*George W. Ball*

Chief, Photogrammetric Branch, Rockville

*Lawrence W. Fritz*

Chief, Photogrammetry Division

August 13, 1982

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7811 (Chicago Lakefront, Illinois-Indiana)

TP-00873

Baltimore and Ohio (RR)

Calumet Harbor

Calumet River

Conrail (RR)

East Chicago

East Side

Elgin Joliet and Eastern (RY)

Indiana Harbor Belt (RR)

Lake George

Lake Michigan

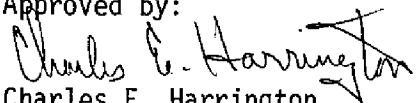
Robertsdale

South Chicago

Whiting

Wolf Lake

Approved by:

  
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

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.										U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION FOR CHARTS									
NONFLOATING AIDS										ORIGINATING ACTIVITY									
REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Div. AMC, Norfolk, VA										<input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> COMPILATION ACTIVITY <input type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH (See reverse for responsible personnel)									
<input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED										DATE June 1981									
STATE Illinois										LOCALITY Chicago Lake Front									
The following objects HAVE <input checked="" type="checkbox"/> BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS. OPR PROJECT NO.										DATUM NA 1927									
JOB NUMBER CM-7811										SURVEY NUMBER TP-00873									
DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)										METHOD AND DATE OF LOCATION (See instructions on reverse side)									
CHARTING NAME										CHARTS AFFECTED									
LATITUDE										LONGITUDE									
° / ' " D.M. Meters										° / ' " D.P. Meters									
LIGHT	North Slip Range Front Light	41 44	28.90	87 31	48.23	Not identifiable on 1978 photo	F-2-6-L July 1981	14929											
LIGHT	North Slip South Light	41 44	26.00	87 31	48.04		P-5-L 6/8/81	14926											
LIGHT	Calumet River Entrance Light	41 43	56.43	87 31	45.99		V-VIS 6/8/81	14927											
LIGHT	Calumet Pierhead Light	41 44	01.49	87 31	44.18		V-VIS 6/8/81	14905											
LIGHT	Calumet Harbor Entrance South Side Light	41 44	08.10	87 30	22.59		V-VIS 6/8/81												
LIGHT	Calumet Harbor Light	41 44	12.64	87 30	28.91		V-VIS 6/8/81												
LIGHT	Calumet Harbor Breakwater South End Light, R. Bn. 320kHz	41 43	33.58	87 29	35.87		V-VIS 6/8/81												
LIGHT	Calumet Park 101st Street Pier Light	41 42	47.84	87 31	30.75		V-VIS 6/8/81												
LIGHT	Hammond Intake Crib Light	41 42	15.14	87 29	49.26		V-VIS 6/8/81												

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	Robert R. Kravitz
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	<input 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'	
(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 entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.</b> 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 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>**FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.</b> <b>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</b>	

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.										U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION									
LANDMARKS FOR CHARTS										ORIGINATING ACTIVITY									
<input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED REPORTING UNIT Coastal Mapping Div. AMC, Norfolk, VA										<input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> COMPILATION ACTIVITY <input type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH DATE June 1981									
The following objects HAVE <input checked="" type="checkbox"/> HAVE NOT <input type="checkbox"/> been inspected from seaward to determine their value as landmarks. OPR PROJECT NO.										METHOD AND DATE OF LOCATION (See instructions on reverse side)									
CHARTING NAME (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)										CHARTS AFFECTED									
STATE Illinois										LOCALITY Chicago Lake Front									
SURVEY NUMBER TP-00873										DATE June 1981									
JOB NUMBER CM-7811										DATUM N.A. 1927									
DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)										POSITION									
										LATITUDE ° / ' "									
										LONGITUDE ° / ' "									
										D.M. Meters D.P. Meters									
TANK	Lever Bros. Co.	41	41	29.27	87-30	34.55	78 S(P)	8192	V-VIS	6/8/81	14927								
SPIRE		41	40	47.16	87-30	06.10	78 S(P)	8192	V-VIS	6/8/81	14926								
STACK	Prominent stack recommended to be added as new landmark	41	40	24.12	87-29	51.53	78 S(P)	8192	V-VIS	6/8/81	14929								
STACK	Commonwealth Edison Co. of Ind., Easterly Center of Six	41	42	28.81	87 31	14.92	78 S(P)	8206	V-VIS	6/11/81	14905								
STACK	Commonwealth Edison Co. of Ind., South of Six	41	42	27.71	87 31	14.19	78 S(P)	8206	V-VIS	6/11/81	"								
STACK	*Commonwealth Edison Co. of Ind., North of six	41	42	30.82	87 31	16.61	78 S(P)	8206	V-VIS	6/11/81	"								
STACK	*Commonwealth Edison Co. of Ind., Northwest of six	41	42	30.11	87 31	17.69	78 S(P)	8206	V-VIS	6/11/81	"								
STACK	*Commonwealth Edison Co. of Ind., Westerly Center of six	41	42	29.53	87 31	15.04	78 S(P)	8206	V-VIS	6/11/81	"								
STACK	*Commonwealth Edison Co. of Ind., Southwest Center of six	41	42	28.78	87 31	16.26	78 S(P)	8206	V-VIS	6/11/81	"								
	*Shorter (4) stacks of the group of six						78 S(P)	8206	V-VIS	6/11/81	"								



RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	Robert R. Kravitz
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	<input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
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(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 entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.</b> 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 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

\*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.

\*\*PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.



RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	Robert R. Kravitz
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	<input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
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<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 entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.</b> EXAMPLE: P-8-V 8-12-75 74L(C)2982
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*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods. **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.	

