TP-00869

TP 00869

NOAA FORM 76-35
(3-76)

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

DESCRIPTIVE REPORT

Map No. TP-00869	*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
MONTROSE HARBOR

1978 TO 1981

REGISTRY IN ARCHIVES

DATE

*U.S. GOVERNMENT PRINTING OFFICE:1976-669-248

NOAA FORM 76-36A (3-72) — U. S. DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY: [X] ORIGINAL [ ] RESURVEY [ ] REVISED

SURVEY TP-00869

MAP EDITION NO. (1)

MAP CLASS Final

JOB ~~PH~~ CM-7811

PHOTOGRAMMETRIC OFFICE: Coastal Mapping Division, AMC, Norfolk, VA

OFFICER-IN-CHARGE: Max Ethridge, LCDR

LAST PRECEEDING MAP EDITION — TYPE OF SURVEY: [ ] ORIGINAL [ ] RESURVEY [ ] REVISED; JOB PH-; MAP CLASS; SURVEY DATES: 19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE		2. FIELD	
Aerotriangulation	January 24, 1980	Horizontal Control	June 12, 1978
Compilation	May 27, 1980	Field Edit	June 26, 1981

II. DATUMS

1. HORIZONTAL: [X] 1927 NORTH AMERICAN — OTHER (Specify)

2. VERTICAL: [ ] MEAN HIGH-WATER [ ] MEAN LOW-WATER [ ] MEAN LOWER LOW-WATER [ ] MEAN SEA LEVEL — OTHER (Specify): International Great Lakes Datum, (1955) Lake Michigan Low Water Datum

3. MAP PROJECTION: Transverse Mercator

4. GRID(S): STATE: Illinois; ZONE: East

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	April 1980
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	R. Cauthorne	April 1980
METHOD: Calcomp	CHECKED BY	R. Cauthorne	April 1980
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	F. Mauldin	Aug. 1980
	CHECKED BY	L. Neterer, Jr.	Jan. 1981
INSTRUMENT: Wild B-8	CONTOURS BY	NA	
SCALE: 1:10,000	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	F. Mauldin	Sept. 1980
	CHECKED BY	L. Neterer, Jr.	Jan. 1981
METHOD: Smooth drafted	CONTOURS BY	NA	
	CHECKED BY	NA	
SCALE: 1:10,000	HYDRO SUPPORT DATA BY	F. Mauldin	Sept. 1980
	CHECKED BY	L. Neterer, Jr.	Jan. 1981
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	L. O. Neterer, Jr.	Jan. 1981
6. APPLICATION OF FIELD EDIT DATA	BY	P. Evans, Jr.	Nov. 1981
	CHECKED BY	C. Blood	May 1982
7. COMPILATION SECTION REVIEW	BY	C. Blood	May 1982
8. FINAL REVIEW	BY	J. Hancock	Aug. 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	(Signed) Howard D. Wolf	OCT 4 1983

NOAA FORM 76-36A — SUPERSEDES FORM C&GS 181 SERIES

* U.S. G.P.O. 1972-769382/582 REG. #6

NOAA FORM 76-36B
(3-72)

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

TP-00869

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild R.C.-8 "S" (S = 152.29 mm)

TYPES OF PHOTOGRAPHY LEGEND
(C) COLOR
(P) PANCHROMATIC
(I) INFRARED

TIME REFERENCE
ZONE: Central
[XX] STANDARD
MERIDIAN: 90th
[ ] DAYLIGHT

TIDE STAGE REFERENCE
[ ] PREDICTED TIDES
[ ] REFERENCE STATION RECORDS
[ ] TIDE CONTROLLED PHOTOGRAPHY

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
78 S(P) 8226-8230	June 5, 1978	14:24	1:30,000	NA
78 S(P) 8217-8218	June 5, 1978	14:09	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
TP-00868*	No Survey	TP-00870	No Survey

REMARKS *Part of the North Shore Channel was compiled graphically beyond the manuscript limits of this sheet in order to complete the junction with TP-00868. See Compilation Report, Item #31.

NOAA FORM 76-36C
(3-72)

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

TP-00869

HISTORY OF FIELD OPERATIONS

I. [XX] 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	L. Davis	July 1979
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	L. Davis	July 1979
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: [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [X] 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

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
78Y(P)4303 (1:60,000)	Foster, 1977		

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 [X] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [XX] 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 76-53 (CSI)

NOAA FORM 76-36C
(3-72)

*U.S. GOVERNMENT PRINTING OFFICE: 1974 - 768-078

NOAA FORM 76-36C
(3-72)

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

TP-00869

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION.

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		R. Tibbetts	July 1981
2. HORIZONTAL CONTROL	RECOVERED BY	C. Middleton	July 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	C. Middleton	July 1981
	LOCATED *(Field Methods)* BY	C. Middleton	July 1981
	IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☒ SPECIFIC NAMES ONLY ☐ NO INVESTIGATION — BY	C. Middleton	July 1981
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	C. Middleton	July 1981
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED: NA

PHOTO NUMBER	STATION NAME

2. VERTICAL CONTROL IDENTIFIED: NA

PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS *(Clarification of details)*

78 S(P): 8226, 8227, 8228, 8229, and 8217.
(1:10,000 scale ratios)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME

PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE

6. 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)*

7 Forms 76-40
1 Field Edit Report
1 Film Master Field Edit Print, 2 Forms 76-109 (Hor. Obser. bks.),
1 Bound notebook containing traverse data for four navigational aids (Range Lights)

NOAA FORM 76-36C
(3-72)

*U.S. GOVERNMENT PRINTING OFFICE: 1974 - 768-078

NOAA FORM 76-36D
(3-72)

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

TP-00869

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 manuscripts (Superseded)	None	None
Field Edit Applied Compilation Complete	May 1982	Class I Manuscript	None	None
Final Review	Aug. 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	Aids to be charted
3		"	Landmarks to be charted
1		"	Landmarks to be deleted

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. [X] BRIDGING PHOTOGRAPHS; [X] DUPLICATE BRIDGING REPORT; [X] COMPUTER READOUTS.
2. [X] CONTROL STATION IDENTIFICATION CARDS; [XX] FORM NOS ~~867~~ SUBMITTED BY FIELD PARTIES. (76-40)
3. [X] 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

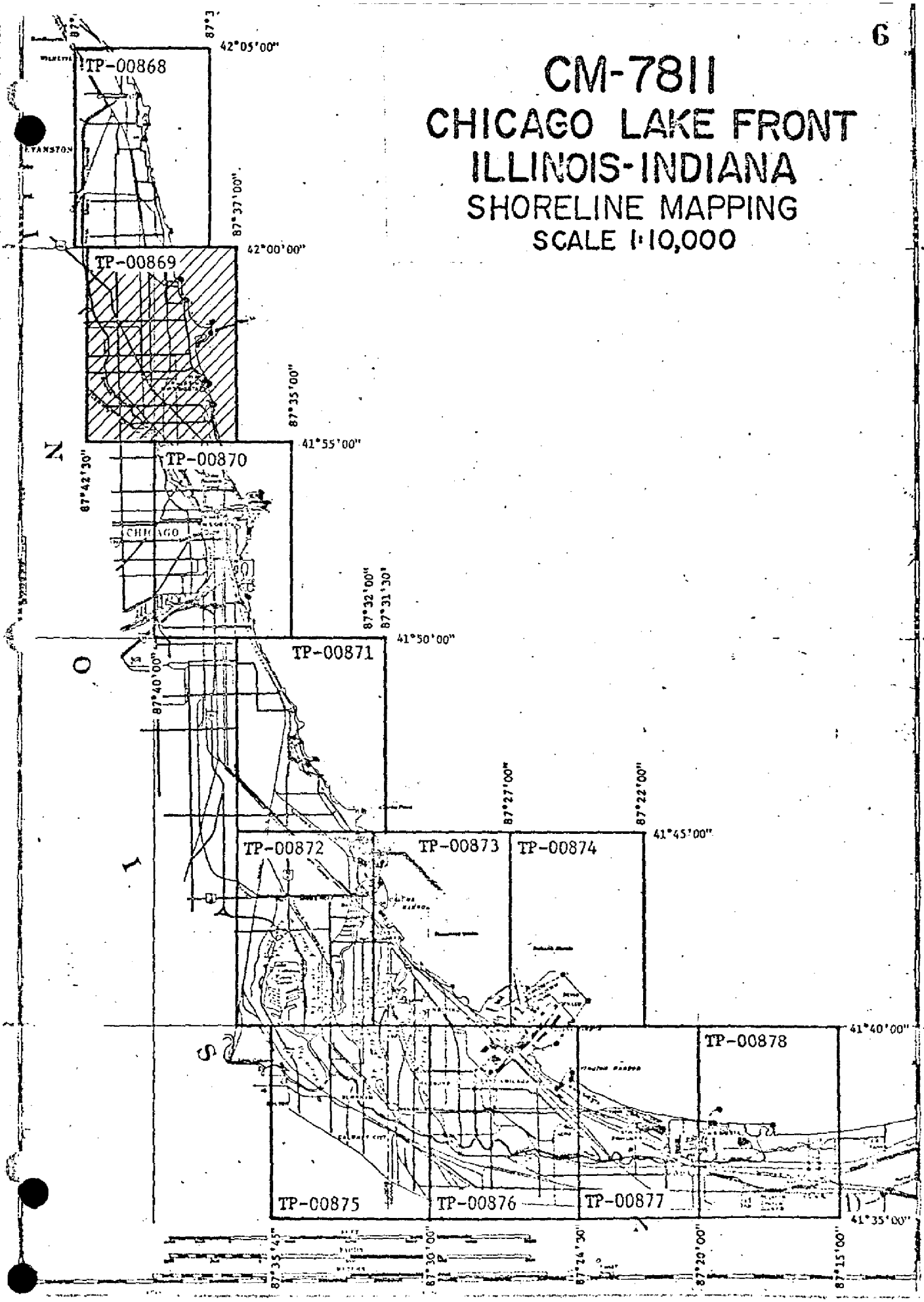
IV. SURVEY EDITIONS *(This section shall be completed each time a new map edition is registered)*

	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY / MAP CLASS
SECOND EDITION	TP - _____ (2)	PH - _____	☐ REVISED ☐ RESURVEY ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

NOAA FORM 76-36D

*U.S. GOVERNMENT PRINTING OFFICE:1977-765-092

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



SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT

TP-00869

This 1:10,000 scale final shoreline map is one of eleven maps, TP-00868 thru 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 Illinois shoreline along the west side of Lake Michigan from Lat. 41°55.0' to Lat. 42°00.0'. Three small-craft basins, Montrose, Belmont, and Diversey Harbors, are featured along the lakefront area. In addition to the lake shoreline, this map also includes the North Branch inner waterway as it extends from the Chicago River.

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 July 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 May 1982.

Final review was performed at the Atlantic Marine Center in August 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-00869

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 Chicago 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 walk-ways.

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

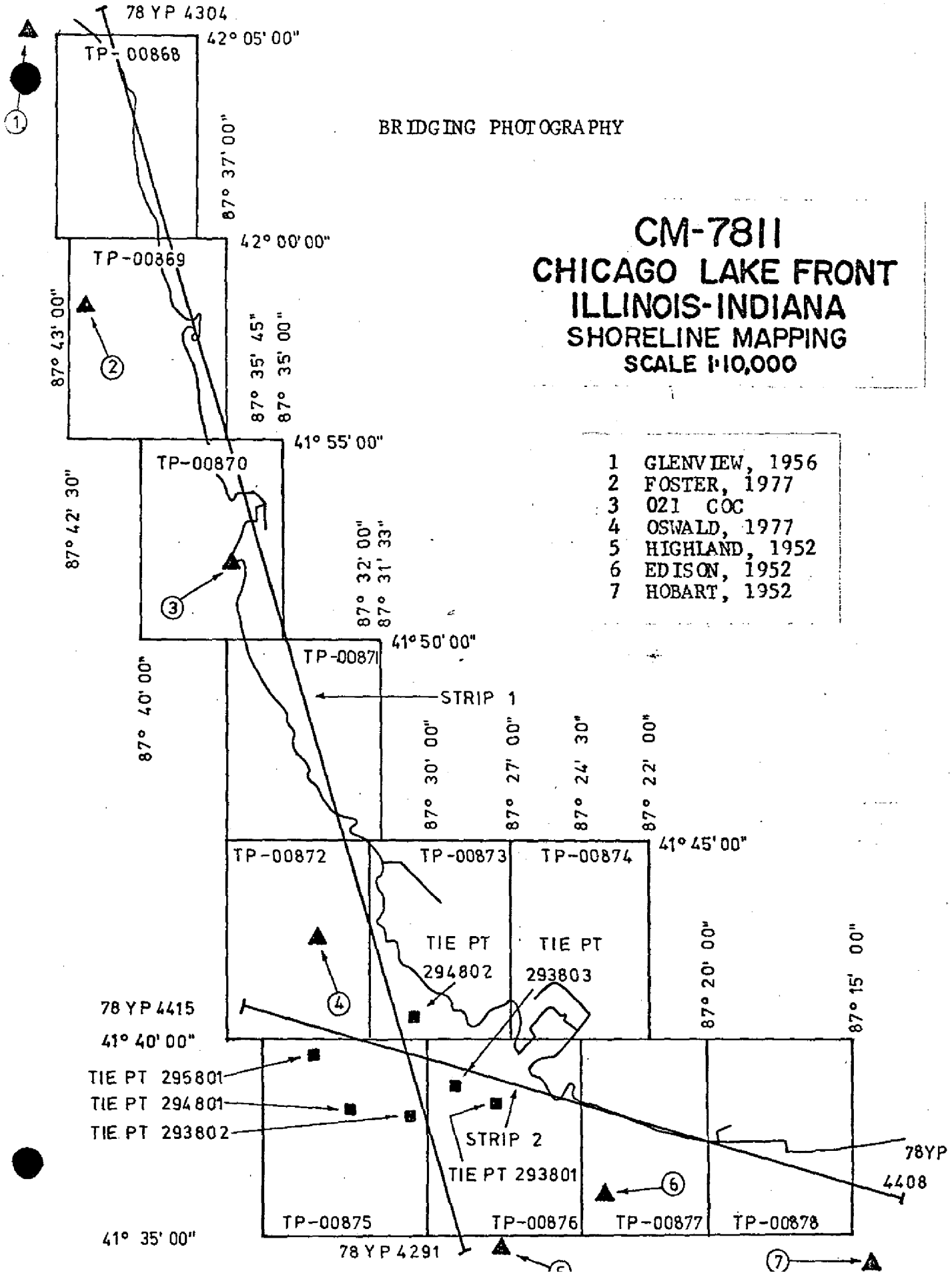
Local shoreline and U.S. Geological Survey quadrangles were used to provide vertical elevations for vertical adjustments of bridges.

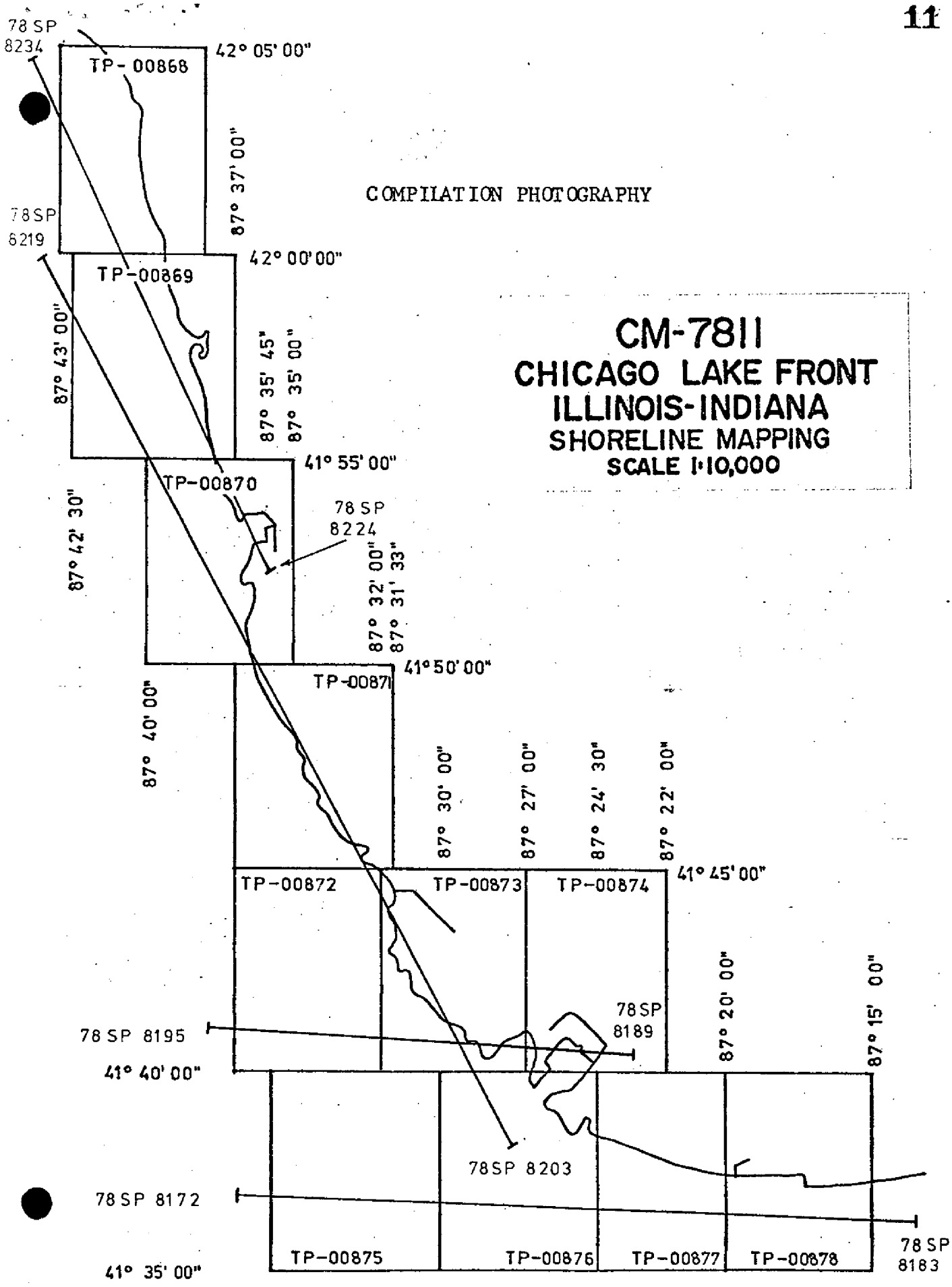
25. Photography

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
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
78 YP 4304
42° 05' 00"
TP-00868
87° 37' 00"
42° 00' 00"
TP-00869
87° 43' 00"
87° 35' 45"
87° 35' 00"
41° 55' 00"
TP-00870
87° 42' 30"
87° 32' 00"
87° 31' 33"
41° 50' 00"
TP-00871
STRIP 1
87° 40' 00"
87° 30' 00"
87° 27' 00"
87° 24' 30"
87° 22' 00"
41° 45' 00"
TP-00872
TP-00873
TP-00874
TIE PT 294802
TIE PT 293803
87° 20' 00"
87° 15' 00"
78 YP 4415
41° 40' 00"
TIE PT 295801
TIE PT 294801
TIE PT 293802
STRIP 2
TIE PT 293801
78YP 4408
TP-00875
TP-00876
TP-00877
TP-00878
41° 35' 00"
78 YP 4291



COMPILATION PHOTOGRAPHY

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

CLOUSURES 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

NOAA FORM 76-41
(6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-00869	CM-7811	NA 1927	Coastal Mapping Division AMC, Norfolk, VA

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE Illinois ZONE East	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
024, COC, 1977	G-16005 -346		x=	φ 41°57'48.473"	
			y=	λ 87°37'53.245"	
019 COC, 1977	G-16005 -343		x=	φ 41°56'33.231"	
			y=	λ 87°37'59.658"	
CHICAGO, NORTH SHORE CHURCH SPIRE, 1977	G-16005 -28		x=	φ 41°58'39.503"	
			y=	λ 87°39'45.233"	
CHICAGO, FANNING TANK, 1977	G-16005 -27		x=	φ 41°58'35.857"	
			y=	λ 87°39'33.172"	
CHICAGO, ST. MARY CHURCH SPIRE, 1977	G-16005 -37		x=	φ 41°57'30.969"	
			y=	λ 87°39'18.075"	
CHICAGO, ST. PAUL'S CHURCH SPIRE, 1977	G-16005 -70		x=	φ 41°55'29.434"	
			y=	λ 87°38'45.958"	
CHICAGO, DEL VALLE CHURCH SPIRE, 1977	G-16005 -57		x=	φ 41°56'17.320"	
			y=	λ 87°39'22.556"	
CHICAGO, ST. ALPHONSUS CHURCH SPIRE, 1977	G-16005 -56		x=	φ 41°56'08.964"	
			y=	λ 87°39'50.238"	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	

COMPUTED BY	A. Rauck, Jr.	DATE	5/12/80	COMPUTATION CHECKED BY F. Margiotta	DATE 5/13/80
LISTED BY	A. Rauck, Jr.	DATE	5/2/80	LISTING CHECKED BY F. Margiotta	DATE 5/12/80
HAND PLOTTING BY	L. Williams	DATE	5/20/80	HAND PLOTTING CHECKED BY J. Roderick	DATE 5/20/80

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

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NOAA FORM 76-41
(6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-00869	CM-7811	NA 1927	Coastal Mapping Division AMC, Norfolk, VA

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE Illinois ZONE East	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
CHICAGO, LADY OF MERCY, CHURCH SPIRE, 1977	G-16005 TSN-39		x=	φ 41°57'43.778"	
			y=	λ 87°42'26.104"	
CHICAGO, 19TH DISTRICT POLICE RADIO TOWER, 1977	G-16005 -48		x=	φ 41°56'25.445"	
			y=	λ 87°41'23.224"	
CHICAGO, CONCORDIA CHURCH SPIRE, 1977	G-16005 -55		x=	φ 41°56'21.273"	
			y=	λ 87°41'42.249"	
CHICAGO, COTTER COMPANY TANK, 1977	G-16005 -68	55	x=	φ 41°55'38.885"	
			y=	λ 87°41'03.864"	
CHICAGO, ST. SYLVESTER CHURCH SPIRE, 1977	G-16005 -67		x=	φ 41°55'17.283"	
			y=	λ 87°42'04.949"	
FOSTER, 1977	G-16005 -310	301100	x=	φ 41°58'31.316"	
			y=	λ 87°42'05.476"	
CHICAGO, A. G. CATHOLIC CHURCH, SPIRE, 1977	G-16005 -08		x=	φ 41°59'51.324"	
			y=	λ 87°40'36.606"	
019 COC TPT, 1977	G-16005 TSN-344		x=	φ 41°56'32.909"	
			y=	λ 87°37'59.707"	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	

COMPUTED BY A. Rauck, Jr./F. Mauldin	DATE 5-12 & 8-6-80	COMPUTATION CHECKED BY F. Margiotta/ I. Perkinson	DATE 5-12 & 8-6-80
LISTED BY A. Rauck, Jr./F. Mauldin	DATE 5-2 & 8-5-80	LISTING CHECKED BY F. Margiotta/ I. Perkinson	DATE 5-12 & 8-6-80
HAND PLOTTING BY L. Williams/ F. Mauldin	DATE 5-20 & 8-7-80	HAND PLOTTING CHECKED BY I. Roderick/ I. Perkinson	DATE 5-20 & 8-6-80

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

NOAA FORM 76-41
(6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-00869	CM-7811	NA 1927	Coastal Mapping Division AMC, Norfolk, VA

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE Illinois ZONE East	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
CHICAGO, ST. GREGORY CHURCH SPIRE, 1977	G-16005 TSN-26		x=	φ 41°58'57.430"	
			y=	λ 87°40'19.055"	
CHICAGO, EBENEZER CHURCH SPIRE, 1977	G-16005 TSN-29		x=	φ 41°58'34.520"	
			y=	λ 87°40'18.727"	
CHICAGO, ST. JOSAPHATS CHURCH SPIRE, 1977	G-16005 TSN-69		x=	φ 41°55'24.641"	
			y=	λ 87°39'46.904"	
CHICAGO, ST. ANDREW CHURCH TOWER, 1977	G-16005 TSN-47		x=	φ 41°56'48.460"	
			y=	λ 87°40'17.185"	
CHICAGO, ST. HILARY CHURCH SPIRE, 1977	G-16005 TSN-24		x=	φ 41°59'00.543"	
			y=	λ 87°41'55.951"	
CHICAGO, ST. MATTHIAS CHURCH SPIRE, 1977	G-16005 TSN-30		x=	φ 41°58'14.181"	
			y=	λ 87°41'15.029"	
CHICAGO, QUEEN ANGELS CHURCH SPIRE, 1977	G-16005 TSN-36		x=	φ 41°57'47.826"	
			y=	λ 87°41'16.407"	
CHICAGO, ST. BENEDICT CHURCH SPIRE, 1977	G-16005 TSN-46		x=	φ 41°57'13.872"	
			y=	λ 87°41'01.423"	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	

COMPUTED BY	A. Rauck, Jr.	DATE 5/12/80	COMPUTATION CHECKED BY	F. Margiotta	DATE 5/13/80
LISTED BY	A. Rauck, Jr.	DATE 5/2/80	LISTING CHECKED BY	F. Margiotta	DATE 5/12/80
HAND PLOTTING BY	L. Williams	DATE 5/20/80	HAND PLOTTING CHECKED BY	J. Roderick/ I. Perkinson	DATE 5/20/80

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

COMPILATION REPORT

TP-00869

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.

A "dog ear" projection extension of 30 seconds in longitude was added to the northwest corner of the manuscript in order to provide complete delineation of the North Shore Channel.

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 3 pages of Landmarks for Charts were prepared for field edit.

38. CONTROL FOR FUTURE SURVEYS

None

TP-00869

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. quadrangle: Chicago Loop, Illinois, scale 1:24,000, dated 1963, photorevised 1972.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with N.O.S. charts No. 14926, scale 1:10,000, dated July 24, 1976, 3rd edition, and 14928, scale 1:15,000, dated September 9, 1978, 16th edition, and 14927, dated May 5, 1979, 17th edition, scale 1:60,000.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

Fay T. Mauldin

Fay T. Mauldin
Cartographer

Date: September 29, 1980

Approved:

Jim Byrd for

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

ADDENDUM TO THE COMPILATION REPORT

TP-00869

FIELD EDIT

The numerous mooring piles field identified along the end of the finger piers in Belmont Harbor were not compiled due to congestion.

FIELD EDIT REPORT
TP-00869
CM-7811

51. Methods

The Field Edit was performed as prescribed by Project Instructions dated June 26, 1981, and by the Photogrammetry Instructions of the National Ocean Survey Operations Manual. The Field Edit was conducted from a skiff, by truck, and on foot.

Field Edit annotations will be found on both the photographs and on the Master Field Edit Print. Annotations are cross-referenced where necessary.

52. Adequacy of Compilation

Adequate pending application of Field Edit.

54. Recommendations

Several Submerged Cable Crossings along the North Shore Channel could be neither verified nor disproved during the Field Edit, therefore it is recommended they be retained as presently charted.

57. Landmarks and Aids

Ten Landmarks previously charted have been recommended for deletion. No new Landmarks were identified. The remaining charted Landmarks were verified.

Six previously charted Aids were visually verified and four other lights (Diversey and Belmont Harbors Range Lights) were located by the Traverse Method.

The appropriate forms 76-40 and Traverse data are herein submitted.

58. Horizontal Control

Twenty-nine Horizontal Control Stations were recovered during the Field Edit of this sheet. Appropriate forms 75-82A are attached.

59. Geographic Names

Two geographic names were questioned on this sheet. The park superintendent at Lincoln Park and never heard of the name "Simmons Island" but verified the name "South Lagoon". A City of Chicago police officer who has been patrolling the area for ten years also verified the name and location of "South Lagoon" and stated that the name "Simmons Island" is correct but is not used. Neither source wished to have his name included in this report.

Approved and forwarded

Robert S. Tibbetts
Chief, Photo Party 62

Submitted by,

Clifton S. Middleton Jr.
Surveying Technician

REVIEW REPORT TP-00869

SHORELINE

61. GENERAL STATEMENT:

Refer to the Summary included in this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable

63. COMAPRISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. quadrangle Chicago Loop, Illinois, 1:24,000 scale, dated 1963, photorevised 1972. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

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

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following N.O.S. charts:
14926, 3rd edition, 1:10,000 scale, dated July 24, 1976
14928, 16th edition, 1:15,000 scale, dated September 9, 1978
14927, 17th edition, 1:60,000 scale, dated May 5, 1979

The field editor was specifically instructed to determine the nautical value of the numerous charted landmarks concurrent with this map. The basic seaward inspection along with a logical evaluation was conducted in order to minimize the number of ineffective "landmarks" and to portray only those that serve as prominent features beneficial to mariners. Consequently, ten charted landmarks were recommended for deletion.

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

REVIEW REPORT TP-00869

SHORELINE

Approved for forwarding:

Billy H. Barnes
Chief, Photogrammetric Branch

Approved:

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-00869

Belmont Harbor

Chicago

Chicago and North Western (RR)

Diversey Harbor

Lake Michigan

Lincoln Park

Montrose Harbor

North Branch Chicago River

North Pond

North Shore Channel

Simmons Island

South Lagoon

South Pond

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

NOAA FORM 76-40 (8-74)
Replaces C&GS Form 567.

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

NONFLOATING AIDS TO NAVIGATION FOR CHARTS

ORIGINATING ACTIVITY
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [X] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

- [X] TO BE CHARTED
- [ ] TO BE REVISED
- [ ] TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office): Coastal Mapping Division AMC, Norfolk, VA
STATE: Illinois
LOCALITY: Chicago Lake Front
DATE: July 1981

The following objects HAVE [X] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.:
JOB NUMBER: CM-7811
SURVEY NUMBER: TP-00869
DATUM: NA 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
LIGHT	Hollywood Avenue Breakwater Light	41 59	10.06 311	87 38	57.94 1334	78 S(P) 8229 6/5/78	V-Vis 7/2/81	14926, 14927 14928, 14905
LIGHT	Foster Avenue Pierhead Light	41 58	39.95 1233	87 38	46.02 1060	78 S(P) 8228 6/5/78	V-Vis 7/2/81	"
LIGHT	Wilson Avenue Breakwater Light	41 58	06.93 214	87 37	51.47 1185	78 S(P) 8228 6/5/78	V-Vis 7/2/81	"
LIGHT	Montrose Breakwater Light	41 57	47.77 1474	87 37	52.95 1219	78 S(P) 8228 6/5/78	V-Vis 7/2/81	"
LIGHT	Montrose Harbor West Breakwater Light	41 57	33.39 1030	87 38	27.59 635	78 S(P) 8228 6/5/78	V-Vis 7/2/81	"
LIGHT	Montrose Harbor East Breakwater Light	41 57	32.96 1017	87 38	24.81 571	78 S(P) 8228 6/5/78	V-Vis 7/2/81	"
LIGHT	Belmont Harbor Inner Light	41 56	34.86 1076	87 38	08.58 198	Unverified	F-2-6-L 7/9/81	"
LIGHT	Belmont Harbor Light	41 56	31.79 981	87 38	00.02 0	Unverified	F-2-6-L 7/9/81	"
LIGHT	Diversey Yacht Harbor Range Front Light	41 55	58.96 1819	87 37	51.07 1177	Unverified	F-2-6-L 7/9/81	"
LIGHT	Diversey Yacht Harbor Range Rear Light	41 55	58.92 1817	87 37	52.64 1212	Unverified	F-2-6-L 7/9/81	"

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	**NAME**	**ORIGINATOR**
OBJECTS INSPECTED FROM SEAWARD	R. Tibbetts	[XX] PHOTO FIELD PARTY [ ] HYDROGRAPHIC PARTY [ ] GEODETIC PARTY [ ] OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED	C. Middleton	FIELD ACTIVITY REPRESENTATIVE
	P. Evans	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		[ ] REVIEWER [ ] QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'

(Consult Photogrammetric Instructions No. 64,

OFFICE

I. OFFICE IDENTIFIED AND LOCATED OBJECTS
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

FIELD

I. NEW POSITION DETERMINED OR VERIFIED
Enter the applicable data by symbols as follows:

F - Field	P - Photogrammetric
L - Located	Vis - Visually
V - Verified	
1 - Triangulation	5 - Field identified
2 - Traverse	6 - Theodolite
3 - Intersection	7 - Planetable
4 - Resection	8 - Sextant

A. Field positions* require entry of method of location and date of field work.
EXAMPLE: F-2-6-L
8-12-75

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

FIELD (Cont'd)

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.
EXAMPLE: P-8-V
8-12-75
74L(C)2982

II. TRIANGULATION STATION RECOVERED
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

III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH
Enter 'V-Vis.' and date.
EXAMPLE: V-Vis.
8-12-75

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

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
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [X] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

- [X] TO BE CHARTED
- [ ] TO BE REVISED
- [ ] TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office): Coastal Mapping Division AMC, Norfolk, VA

STATE: Illinois

LOCALITY: Chicago Lake Front

DATE: July 1981

The following objects HAVE [X] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.:

JOB NUMBER: CM-7811

SURVEY NUMBER: TP-00869

DATUM: NA 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
FLAG POLE		41 58	59.75 1843	87 39	16.39 377	78 S(P) 8229 6/5/78	V-Vis 7/2/81	14926, 14927 14928, 14905
TOWER		41 57	56.24 1735	87 37	54.87 1263	78 S(P) 8228 6/5/78	V-Vis 7/2/81	"
TOWER		41 57	55.22 1704	87 38	14.93 344	78 S(P) 8228 6/5/78	V-Vis 7/2/81	"
STACK		41 55	20.58 635	87 37	58.79 1355	78 S(P) 8226 6/5/78	V-Vis 7/2/81	"
TANK	Letter "g" on manuscript	41 55	2.09 64	87 39	53.09 1223	78 S(P) 8217 6/5/78	V-Vis 7/1/81	"
STACK	Letter "f" on manuscript	41 55	6.10 188	87 40	0.19 3	78 S(P) 8217 6/5/78	V-Vis 7/1/81	"
STACK	Letter "e" on manuscript	41 55	18.57 573	87 40	16.46 379	78 S(P) 8217 6/5/78	V-Vis 7/1/81	"
TANK		41 55	18.76 579	87 40	20.35 469	78 S(P) 8217 6/5/78	V-Vis 7/1/81	"
STACK	Easterly	41 55	24.05 742	87 40	11.30 260	78 S(P) 8217 6/5/78	V- Vis 7/1/81	"
STACK	Westerly	41 55	24.03 741	87 40	12.29 283	78 S(P) 8217 6/5/78	V-Vis 7/1/81	"

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	**NAME**	**ORIGINATOR**
OBJECTS INSPECTED FROM SEAWARD	R. Tibbetts	[X] PHOTO FIELD PARTY [ ] HYDROGRAPHIC PARTY [ ] GEODETIC PARTY [ ] OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED	C. Middleton	FIELD ACTIVITY REPRESENTATIVE
	P. Evans	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		[ ] REVIEWER [ ] QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'

(Consult Photogrammetric Instructions No. 64.

OFFICE

I. OFFICE IDENTIFIED AND LOCATED OBJECTS
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

FIELD

I. NEW POSITION DETERMINED OR VERIFIED
Enter the applicable data by symbols as follows:

F - Field	P - Photogrammetric
L - Located	Vis - Visually
V - Verified	
1 - Triangulation	5 - Field identified
2 - Traverse	6 - Theodolite
3 - Intersection	7 - Planetable
4 - Resection	8 - Sextant

A. Field positions* require entry of method of location and date of field work.
EXAMPLE: F-2-6-L
8-12-75

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

FIELD (Cont'd)

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.
EXAMPLE: P-8-V
8-12-75
74L(C)2982

II. TRIANGULATION STATION RECOVERED
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

III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH
Enter 'V-Vis.' and date.
EXAMPLE: V-Vis.
8-12-75

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

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
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [X] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

- [X] TO BE CHARTED
- [ ] TO BE REVISED
- [ ] TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
Coastal Mapping Division AMC, Norfolk, VA	Illinois	Chicago Lake Front	July 1981

The following objects HAVE [X] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
	CM-7811	TP-00869	NA 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
STACK	Letter "d" on manuscript	41 55	37.07 1144	87 40	28.45 656	78 S(P) 8217 6/5/78	V-Vis 6/30/81	14926, 14927 14928, 14905
TANK	Letter "c" on manuscript	41 55	37.37 1153	87 40	28.88 665	78 S(P) 8217 6/5/78	V-Vis 6/30/81	"
STACK	Letter "a" on manuscript	41 55	42.75 1319	87 40	42.11 970	78 S(P) 8217 6/5/78	V-Vis 6/30/81	"
TANK	Letter "b" on manuscript	41 55	43.15 1331	87 40	40.11 924	78 S(P) 8217 6/5/78	V-Vis 6/30/81	"
TANK	(Chicago, Cotter Company Tank, 1977)	41 55	38.885 1199.7	87 41	03.864 89.2	78 S(P) 8217 6/5/78	TRIANG REC 6/30/81	"
STACK		41 55	46.15 1424	87 41	5.76 133	78 S(P) 8217 6/5/78	V- Vis 6/30/81	"
STACK		41 55	50.46 1557	87 41	1.64 38	78 S(P) 8217 6/5/78	V-Vis 6/30/81	"
STACK		41 55	58.69 1811	87 41	5.77 133	78 S(P) 8217 6/5/78	V-Vis 6/30/81	"
SPIRE	(Chicago, Concordia Church Spire, 1977)	41 56	21.273 656.5	87 41	42.249 973.5	78 S(P) 8217 6/5/78	TRIANG REC 6/30/81	"
STACK		41 56	24.04 742	87 41	40.57 935	78 S(P) 8217 6/5/78	V-Vis 6/30/81	"

RESPONSIBLE PERSONNEL

TYPE OF ACTION	NAME	ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD	R. Tibbetts	[X] PHOTO FIELD PARTY [ ] HYDROGRAPHIC PARTY [ ] GEODETIC PARTY [ ] OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED	C. Middleton	FIELD ACTIVITY REPRESENTATIVE
	P. Evans	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		[ ] REVIEWER [ ] QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'

(Consult Photogrammetric Instructions No. 64,

OFFICE

I. OFFICE IDENTIFIED AND LOCATED OBJECTS
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

FIELD

I. NEW POSITION DETERMINED OR VERIFIED
Enter the applicable data by symbols as follows:

F - Field	P - Photogrammetric
L - Located	Vis - Visually
V - Verified	
1 - Triangulation	5 - Field identified
2 - Traverse	6 - Theodolite
3 - Intersection	7 - Planetable
4 - Resection	8 - Sextant

A. Field positions* require entry of method of location and date of field work.
EXAMPLE: F-2-6-L
8-12-75

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

FIELD (Cont'd)

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.
EXAMPLE: P-8-V
8-12-75
74L(C)2982

II. TRIANGULATION STATION RECOVERED
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

III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH
Enter 'V-Vis.' and date.
EXAMPLE: V-Vis.
8-12-75

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

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
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [X] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

- [X] TO BE CHARTED
- [ ] TO BE REVISED
- [ ] TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office): Coastal Mapping Div. AMC, Norfolk, VA

STATE: Illinois

LOCALITY: Chicago Lake Front

DATE: July 1981

The following objects HAVE [XX] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.:

JOB NUMBER: CM-7811

SURVEY NUMBER: TP-00869

DATUM: NA 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
STACK		41 56	40.70 1256	87 41	26.65 614	78 S(P) 8217 6/5/78	V-Vis 6/30/81	14926, 14927 14928, 14905
STACK		41 55	37.90 1169	87 40	54.29 1251	78 S(P) 8217 6/5/78	V-Vis 6/30/81	"

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	**NAME**	**ORIGINATOR**
OBJECTS INSPECTED FROM SEAWARD	R. Tibbetts	[X] PHOTO FIELD PARTY [ ] HYDROGRAPHIC PARTY [ ] GEODETIC PARTY [ ] OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED	C. Middleton	FIELD ACTIVITY REPRESENTATIVE
	P. Evans	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		[ ] REVIEWER [ ] QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'

(Consult Photogrammetric Instructions No. 64,

OFFICE

I. OFFICE IDENTIFIED AND LOCATED OBJECTS
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

FIELD

I. NEW POSITION DETERMINED OR VERIFIED
Enter the applicable data by symbols as follows:

F - Field	P - Photogrammetric
L - Located	Vis - Visually
V - Verified	
1 - Triangulation	5 - Field identified
2 - Traverse	6 - Theodolite
3 - Intersection	7 - Planetable
4 - Resection	8 - Sextant

A. Field positions* require entry of method of location and date of field work.
EXAMPLE: F-2-6-L
8-12-75

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

FIELD (Cont'd)

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.
EXAMPLE: P-8-V
8-12-75
74L(C)2982

II. TRIANGULATION STATION RECOVERED
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

III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH
Enter 'V-Vis.' and date.
EXAMPLE: V-Vis.
8-12-75

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

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
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [X] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

- [ ] TO BE CHARTED
- [ ] TO BE REVISED
- [X] TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
Coastal Mapping Division AMC, Norfolk, VA	Illinois	Chicago Lake Front	July 1981

The following objects HAVE [X] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
	CM-7811	TP-00869	NA 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
NWS SIG STA	Storm warnings are not posted here and flagpole is attached to a houseboat. Not of landmark value.	41 56.4		87 38.2		78 S(P) 8227 6-5-78	Delete 7/2/81	14926, 14927 14928, 14905
STACK	Area is congested with landmarks. Not of landmark value.	41 55.0		87 39.9		78 S(P) 8217 6/5/78	Delete 7/1/81	"
STACK	Not of landmark value.	41 55.1		87 39.9		78 S(P) 8217 6/5/78	Delete 7/1/81	"
TANK	Tank has been dismantled.	41 55.3		87 40.0		Unverified	Destroyed 7/1/81	"
STACK	Not of landmark value.	41 55.3		87 39.9		78 S(P) 8217 6/5/78	Delete 7/1/81	"
CHIMNEY	Not of landmark value.	41 56.6		87 41.8		Unverified	Delete 6/30/81	"
CHIMNEY	Not of landmark value.	41 55.9		87 41.1		78 S(P) 8217 6/5/78	Delete 6/30/81	"
TANK	Tank is being dismantled at time of field edit.	41 56.1		87 41.2		78 S(P) 8217 6/5/78	Destroyed 6/30/81	"
STACK	Not a landmark value.	41 56.2		87 41.6		78 S(P) 8217 6/5/78	Delete 6/30/81	"
STACK	Not of landmark value.	41 55.8		87 40.5		78 S(P) 8217 6/5/78	Delete 6/30/81	"

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	NAME	ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD	R. Tibbetts	[X] PHOTO FIELD PARTY [ ] HYDROGRAPHIC PARTY [ ] GEODETIC PARTY [ ] OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED	C. Middleton	FIELD ACTIVITY REPRESENTATIVE
	P. Evans	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		[ ] REVIEWER [ ] QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'

(Consult Photogrammetric Instructions No. 64,

OFFICE

I. OFFICE IDENTIFIED AND LOCATED OBJECTS
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

FIELD

I. NEW POSITION DETERMINED OR VERIFIED
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V - Verified	
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4 - Resection	8 - Sextant

A. Field positions* require entry of method of location and date of field work.
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FIELD (Cont'd)

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8-12-75
74L(C)2982

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FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

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.

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
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