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

DESCRIPTIVE REPORT

Map No.	Edition No.
TP-00877	1
Job No.	· · · · · · · · · · · · · · · · · · ·
CM-7811	
Map Classification	
FINAL, FIELD EDITED	MAP
Type of Survey	
SHORELINE	
LOCALIT	Y
State	
ILLINOIS - INDIANA	
General Locality	
CHICAGO LAKE FRONT	
Locality	
GARY.	
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DATE	

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

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NOAA FORM 76-36A	U. S. DEPARTMENT OF COMMERCE LOCEANIC AND ATMOSPHERIC ADMIN	TYPE OF SURVEY	survey TP00877
		D. ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE RE	PORT - DATA RECORD	RESURVEY	MAPCLASS Final
		REVISED	јов мж <u>СМ−7811</u>
PHOTOGRAMMETRIC OFFICE			
Coastal Mapping Divi	ision	TYPE OF SURVEY	JOB PH
AMC, Norfolk, VA		ORIGINAL	MAP CLASS
OFFICER-IN-CHARGE		RESURVEY	SURVEY DATES:
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I. INSTRUCTIONS DATED	OFFICE	1 2	FIELD
	OFFICE	- 	
Aerotriangulation Compilation	January 24, 1980 May 27, 1980	Horizontal Conti Field Edit	rol June 12, 1978 June 26, 1981
II. DATUMS			
I. HORIZONTAL:	1927 NORTH AMERICAN	OTHER (Specify)	
	MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL:	MEAN LOW-WATER	International Great	at Lakes Datum,
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3. MAP PROJECTION		4.	GR(D(S)
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5. SCALE	······································	STATE	ZONE
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III. HISTORY OF OFFICE OPE		T	
1. AEROTRIANGULATION	PERATIONS BY	R. Kelly	April 1980
METHOD: Analytic	LANDMARKS AND AIDS BY	R. Kelly	11 11
2. CONTROL AND BRIDGE POI	INTS PLOTTED BY	R. Cauthorne	11 11
метнор: Са1сотр	CHECKED BY	R. Cauthorne	ti ti
3. STEREOSCOPIC INSTRUMEN		I. Perkinson	Oct. 1980
COMPILATION INSTRUMENT: Wild B-	8 CONTOURS BY	L. Neterer	Oct. 1980
SCALE: 1:10,00		NA	
4. MANUSCRIPT DELINEATION		I. Perkinson	Oct. 1980
	CHECKED BY.	F, Mauldin	Jan. 1981
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	CHECKED BY	NA	N 1 1000
SCALE: 1:10,000	HYDRO SUPPORT DATA BY	I. Perkinson	Nov. 1980 Jan. 1981
5. OFFICE INSPECTION PRIOR	R TO FIELD EDIT BY	F. Mauldin F. Mauldin	Jan. 1981 Jan. 1981
	BY	P. L. Evans	Oct. 1981
6. APPLICATION OF FIELD E	DIT DATA CHECKED BY	F. Mauldin	March 1982
7. COMPILATION SECTION RE			March 1982
	VIEW BY	F. Mauldin	
8. FINAL REVIEW	вү	J. Hancock	Sept. 1982
9. DATA FORWARDED TO PHO	BY DTOGRAMMETRIC BRANCH BY	J. Hancock J. Hancock	Sept. 1982 Oct. 1982
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3. SOURCE OF MEAN LOW-WATER Not applicable.		DW-WATER	LINE:					
4. CONTEMPORARY HYDROGRAPH	IC SURVEYS (List o	only those s	urveys th	at are sources t	or photogram	metric i	survey inf	ormation.)
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. VERTICAL CON	TROL	ESTABLISH	EDBY	None			
		PRE-MARKED OR IDENTIFU	ED BY	None			
	RE	COVERED (Triangulation Station	na) BY	None			
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	PERATION		IAME	DATE
. CHIEF OF FIELD PARTY		R. Tibbett	s	May 1981
	RECOVERED BY	C. Middleton	; J. Koster	May 1981
. HORIZONTAL CONTROL	ESTABLISHED BY	None		
	PRE-MARKED OR IDENTIFIED BY	None		
	RECOVERED BY	None		
. VERTICAL CONTROL	ESTABLISHED BY	None		-
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None			•	
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NOAA FORM 76-36D (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

TP-00877

RECORD OF SURVEY USE

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I. MANUSCRI	IPT COPIES					
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	tion complete field edit	Jan. 1981	Class III Superseded		pt None	None
	dit applied tion complete	March 1982	Class I Ma	nuscript	None	None
Final Re		Sept. 1982	Final Map		Jan 7, 198 3	None
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EDITION	DATE OF PHOTOGRAP			□n.	MAP CLASS	FINAL
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SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-00877

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°20.0' to Long. 87°24.5'. Also featured is an easterly segment of the Grand Calumet River as it extends through Gary, Indiana.

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 May 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-00877

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 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.

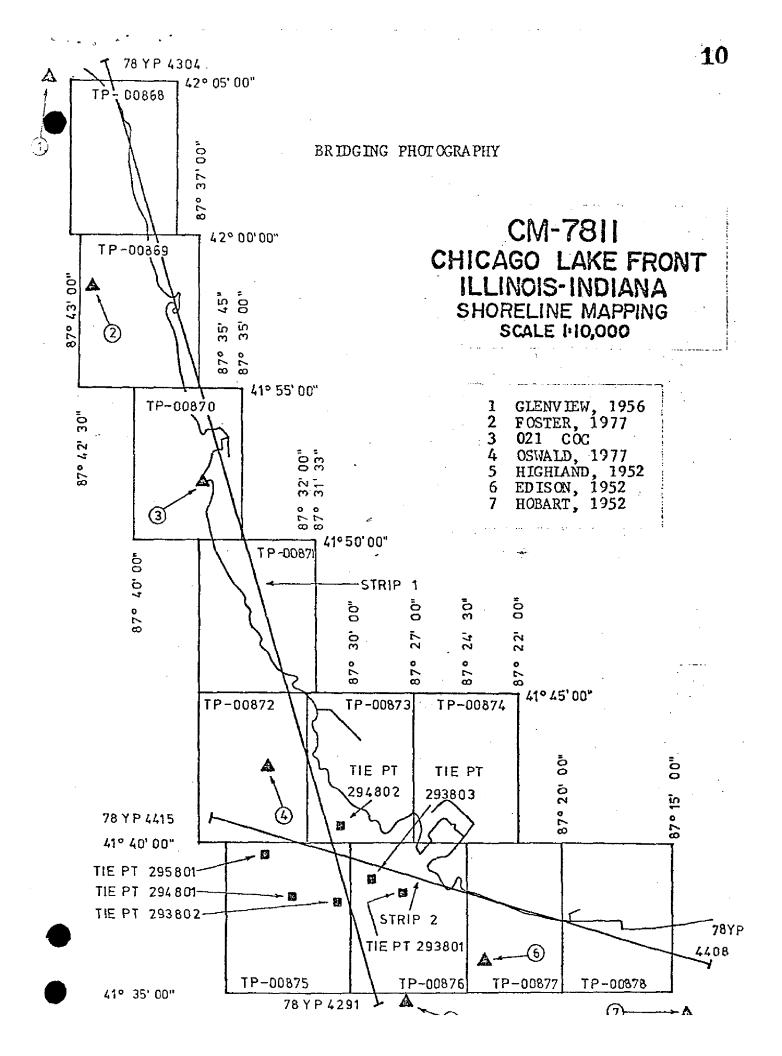
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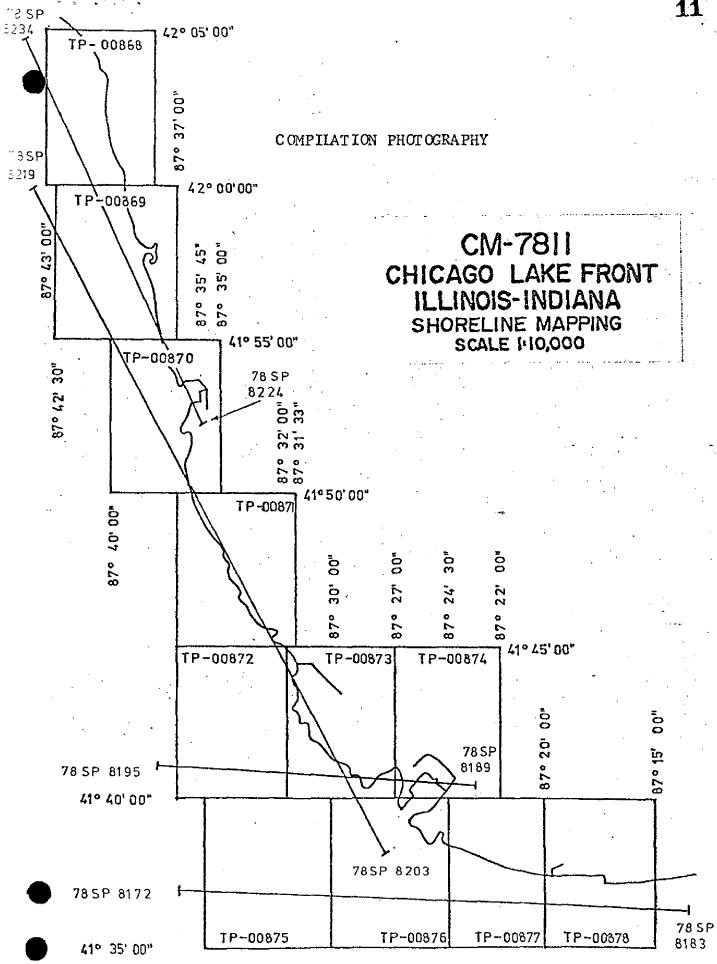
Robert B. Kelly

Approved and Forwarded:

Don O. Norman

Chief, Aerotriangulation Section





CLOUSURES TO CONTROL

STRIP 1

304101 304102	GLENVIEW, 1956	SUB PT A	4.4 3.5	-6.6 -0.7
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292101 292102	HIGHLAND, 1952	SUB PT A	-0.0 -1.2	-0.2 -4.9

STRIP 2

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COMPILATION REPORT TP-00877

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

A preliminary 76-40 form for Landmarks was prepared for field edit.

38. CONTROL FOR FUTURE SURVEYS

None

TP-00877

39. JUNCTIONS

Refer to the Data Record Form 76-36B, Item 5 of this Descriptive Report.

40. HORIZONTAL AND VERTICAL ACCURACY

See Item #32.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with the following 1:24,000 scale U.S.G.S. quadrangles: Highland, Indiana, dated 1968; Gary, Indiana, dated 1968; and Whiting, Indiana, dated 1968.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with N.O.S. Charts No. 14926, scale 1:60,000, dated January 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.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by,

Irene Perkinson Cartographer

Date: November 7, 1980

Approved,

James L. Byrd, Jr.

Chief, Coastal Mapping Section

ADDENDUM TO THE COMPILATION REPORT

TP-00877

FIELD EDIT

An adequate field edit was performed for this shoreline map.

A submerged pipeline at Lat. 41°39.7', Long. $87^{\circ}24.5$ ' was added to the manuscript from field edit data submitted with adjoining map TP-00876.

TP-00877 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.

52. Adequacy of Compilation

Adequate pending application of Field Edit.

54. Recommendations

None.

57. Landmarks and Aids

One Landmark previously charted has been recommended for deletion.

No new Landmarks were identified. There are no Aids to navigation included within the limits of this sheet. The appropriate forms 76-40 are herein submitted.

58. Horizontal Control

One Triangulation Station could not be recovered, the remaining three were recovered. The appropriate forms 75-82A are attached.

Approved and forwarded,

Robert S. Tibbetts Chief, Photo Party 62 Submitted.

Surveying Technician Photo Party 66

REVIEW REPORT TP-00877 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 scale U.S.G.S. quadrangles:

Gary, Indiana, 1968 Whiting, Indiana, 1968 Highland, Indiana, 1968, photorevised 1980

No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

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

COMPARISON WITH NAUTICAL CHARTS: 65.

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

14926, 3rd edition, 1:15,000/1:60,000 scale, dated July 24, 1976 14927, 17th edition, 1:60,000 scale, dated May 5, 1979

ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Approved for forwarding,

But N. Barn Bill⊮ H. Barnes

Chief, Photogrammetric Branch, AMC

Photogrammetric Branch, Rockville Chief, Photogrammetry Division

Lawrence W. Fra

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7811 (Chicago Lakefront, Illinois-Indiana)

TP-00877

Conrail (RR)

Gary

Grand Calumet River

Lake Michigan

Norfolk and Western (RR)

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

***						1000	PART OF COUNTRY	* 47***********************************	VIII.
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Replaces C&GS Form 567.			DMARKS	FOR CHA	RTS	٠	LANDMARKS FOR CHARTS	GEODETIC PARTY PHOTO FIELD PARTY	
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Pg. 1 of 3

	RESPONSIBLE PERSONNEL	PERSONNEL	
TYPE OF ACTION	NAME	E	ORIGINATOR
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OBJECTS INSPECTED FROM SEAWARD	C. Middleton		GEODETIC PARTY OTHER (Specify)
	C. Middleton		FIELD ACTIVITY REPRESENTATIVE
CECS11 IONS DETERMINED AND/OR VERIFIED	I. Perkinson		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,	OR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64)	
OFFICE DENTIFIED AND LOCATED OBJECTS	ATED OBJECTS	` . .	field positions** require
Enter the number and date (including month, day, and year) of the photograph used to identify and locate the bject. EXAMPLE: 75E(C)6042 8-12-75	(including month, otograph used to bject.	entry of date of f graph use EXAMPLE:	ocation or ver nd number of t or identify t
DETERMINED plicable dat P vis	NED OR VERIFIED data by symbols as follows: P - Photogrammetric Vis - Visually 5 - Field identified	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is angulation station is recovered Rec. with date of recovery. EXAMPLE: Triang. Rec. 8-12-75	ON STATION RECOVERED lmark or aid which is also a tristation is recovered, enter 'Triang. station is recovery. date of recovery. rlang. Rec. 3-12-75
876V	Theodolite Planetable Sextant	O-12-/> III. POSITION VERIFIED VISUAL Enter 'V+Vis.' and date.	/ERIFIED VISUALLY ON PHOTOGRAPH
sitions*	require entry of method of sof field work.	in '	
EXAMPLE: F-2-6-L 8-12-75		**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control establishe	<pre>## IC FIELD POS!TIONS are dependent in part, upon control established</pre>
*FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods.	ground survey methods.		ds.

NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

☆ U.S.GPO:1975-0-665-080/1155

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Replaces C&GS Form 567	m 567.		OMARKS	LANDMARKS FOR CHARTS	RTS			CEODETIC PARTY	
TO BE CHARTED	STED REPORTING UNIT Office)	STATE		LOCALITY			DATE	COMPILATION ACTIVITY	YT1V1
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Pg, 2 of 3

	RESPONSIBLE PERSONNEL	PERSONNEL	
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			N PHOTO FIELD PARTY
OBJECTS INSPECTED FROM SEAWARD			GEODETIC PARTY
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COLL CAS DE LEARNING TO STATE OF THE STATE O	I. Perkinson		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 O (Consult Photogrammetric Instructions No. 64,	OR ENTRIES UNDER METHOD AND DATE OF LOCATION (Consult Photogrammetric Instructions No. 64,	
OFFICE IDENTIFIED AND LOCATED OBJECTS	ATED OBJECTS	FIELD (Cont'd) B. Photogrammetric field positions**	ld positions** require
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FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols F - Field P - Photogrammet L - Located Vis - Visually	NED OR VERIFIED data by symbols as follows: P - Photogrammetric Vis - Visually	th on A	ION STATION RECOVERED mark or aid which is also a tri-station is recovered, enter 'Triang. date of recovery.
V - Verified 1 - Triangulation 5 - F 2 - Traverse 6 - 1	Field identified Theodolite	EXAMPLE: Triang. Rec. 8-12-75	·
tion 7 - n 8 -	Planetable Sextant	<u> </u>	UALLY ON PHOTOGRAPH
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*FIELD POSITIONS are determined by field obser vations based entirely upon ground survey methods.	ed by field obser- ground survey methods.	e t	ă.

NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH 15 OBSOLETE, AND Existing Stock should be destroyed upon receipt of revision.

☆ U.S.GPO:1975-0-665-080/1155

ORIGINATING ACTIVITY	ARTY PARTY	A ACTIVITY WER	OUALITY CONTROL & REVIEW GRP.	(See reverse for responsible personnel)			CHARTS	AFFECTED							!	<u></u>							
	<u>][</u>	,		(See reverse for re		METHOD AND DATE OF LOCATION	(See instructions on reverse side)		FIELD						,								_
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION		DATE	Oct. 1981			METHOD AND DA	(See Instruction		OFFICE					•									
U.S. DEPARTM			Chicago Lake Front	as landmarks.				LONGITUDE	"	D.P. Meters													
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	NONFLOAT	REPORTING UNIT (Field Party, Ship or Office)	Coastal Mapping AMC, Norfolk, VA	t l		CM_7811	TIC LIN	DESCRIPTION	Record reason for deletion of landmark or aid to navigation.	Show triangulation stationnames, where applicable, in perentheses,	charted												
-40	m 567.								(Record res	Show trian	None	_							 				
NOAA FORM 76-40	Replaces C&GS Form 567.	X TO BE CHARTED	TO BE DELETED	The following objects	OPR PROJECT			 	CHARTING	NAME													

Pg. 3 Of 3

TOTAL OF FOLIAN	RESPONSIBLE PERSONNEL	PERSONNEL	CONTOR
			XX PHOTO FIELD PARTY
OBJECTS (NSPECTED FROM SEAWARD			GEODETIC PARTY
	C. Middleton		OTHER (Specify)
CONSIDETERMINED AND/OR VERVEIED	C. Middleton		FIELD ACTIVITY REPRESENTATIVE
	I. Perkinson	,	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW			QUALITY CONTROL AND REVIEW GROUP
ACTIVITIES			REPRESENTATIVE
	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE O (Consult Photogrammetric Instructions No. 64,	OR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	, 1
OFFICE	ATED OBJECTS	(Cont 'd)	
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identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	bject.		ed to locate or identify the object. P-8-V 8-12-75 741 (2) 2082
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols F - Field P - Photogrammet	NED OR VERIFIED data by symbols as follows: P - Photogrammetric	<u> </u>	ON STATION RECOVERED mark or aid which is also a tri-station is recovered, enter 'Triang.
L - Located Vis . V - Verified	- Visually	39 "	overy.
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3 - Intersection 7 - F 4 - Resection 8 - 9	Planetable	III. POSITION VERIFIED VIS Enter 'V∓Vis.' and da	ERIFIED VISUALLY ON PHOTOGRAPH
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*FIELD POSITIONS are determined by field obser-	ed by field obser-	by photogrammetric methods	ds.
vations based entirely upon ground survey methods.	ground survey methods.		

NOAA FORM 75-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

☆ U.S.GPO:1975-0-665-080/1155

FORM C&G\$-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 Women and Column Column.

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