#### NOAA FORM 76-35 (6-80)

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

# DESCRIPTIVE REPORT

2 <b>2 2 3 1 1 1 2 3 2 3 3 3</b>
THIS MAP WILL NOT BE FIELD EDITED
Map No. Edition No.
T-12097
Job No.
PH-7118
PH-7118 Map Classification
CLASS III FINAL
Type of Survey
SHORELINE
LOCALITY
State
MICHIGAN
General Locality
DETROIT RIVER
Locality
GROSSE ILE-NORTH
70 70 70
19 <sub>71</sub> TO 19 <sub>78</sub>
REGISTERED IN ARCHIVES
DATE

13-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	TYPE OF SURVEY	SURVEY	rp- <u>12097</u>
	Ø ORIGINAL	MAPEDITI	on no. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS	III Final
	REVISED	10B	чн. <u>7118</u>
PHOTOGRAMMETRIC OFFICE	LAST PRESERVE		<del> </del>
Coastal Mapping Unit, Atlantic Marine Center	LAST PRECEED		
Norfolk, VA	TYPE OF SURVEY	·	'H
OFFICER-IN-CHARGE	RESURVEY	SURVEY D	
	REVISED	19 TO 19	
A. Y. Bryson			
1. INSTRUCTIONS DATED			
1. OFFICE	<u>2.</u>	FIELD	
Compilation August 11, 1977	Memo:Director, Lak	ke Survey	Apr 16,1971
Supplement I September 30, 1977	Control	Octo	ber 4, 1971
Supplement II December 6, 1978			
Registration Class III May 14, 1984			
II. DATUMS			
1. HORIZONTAL: TY 1927 NORTH AMERICAN	OTHER (Specify)		
1 101(2011AC. 3,2) 127 NO. 171 AMERICA	OTHER (C(/-)	<del></del> -	
MEAN HIGH-WATER	OTHER (Specify)		
2. VERTICAL: MEAN LOW-WATER  MEAN LOWER LOW-WATER			
MEAN SEA LEVEL	International Grea	at Lakes I	Datum 1955
3. MAP PROJECTION	4.	GRID(\$)	
	STATE	ZONE	
Lambert Conformal	Michigan	Sot	ıth
5. SCALE	STATE	ZONE	
1:15,000	<u></u>		
III. HISTORY OF OFFICE OPERATIONS			<del>,</del>
OPERATIONS	NAME		DATE
1. AEROTRIANGULATION  BY  METHOD: A = 0.1-4.2. LANDMARKS AND AIDS BY	D. Brant		Jun 1972
Analytic	H. Eichert		Jun 1972
2. CONTROL AND BRIDGE POINTS PLOTTED BY  METHOD: Coradomat CHECKED BY	D. Brant		Aug. 1977
	H. Eichert J. Roderick		Aug 1977 Sep 1977
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY	L. Neterer, Jr. J.	Burd	Sep 1977
INSTRUMENT: Wild B-8 CONTOURS BY	N.A.		
SCALE: 1:15,000 CHECKED BY	N.A		
4. MANUSCRIPT DELINEATION PLANIMETRY BY	J. Roderick		Mar 1979
CHECKED BY	L. Neterer		Nov 1979
CONTOURS BY	N.A		
CHECKED BY	N.A.	<del></del>	
SCALE: . HYDRO SUPPORT DATA BY	N.A.	<del></del>	<del></del>
CHECKED BY  5. OFFICE INSPECTION PRIOR TO FIELD EDIT  BY	N.A.	<del>_</del>	No. 1070
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	L. <u>Neterer</u>		Nov 1979
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	N.A.		
7. COMPILATION SECTION REVIEW Class III BY	C. Blood		Jun 1983
8. FINAL REVIEW Class III BY	L. O. Neterer, Jr		Jul 1984
9, DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	I. O. Neterer, Ir		"
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	P. Hawkins		Dec. 1984
11. MAP REGISTERED - COASTAL SURVEY SECTION  NOAA FORM 76-38A  SUPERSEDES FORM C&GS 181 SERIES	R.S. KORNSPA	· AU	FEB 1985

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

		COA	APILATION S	OURCES			
I. COMPILATION PH	OTOGRAPHY						
CAMERA(S) Wild R. C8	<u>tocal lene</u>	gth L=152.21m gth E=152.71m	TYPES OF	PHOTOGRAPHY EGEND		TIME REFE	RENCE
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NUMBER AND	TYPE	DATE	TIME	SCALE		STAGE OF	TIDE
71L (c)4726-4	732	May 4,1971	not neede	d 1:30,000			
71L (c)4708-47	713	May 4,1971		1:30,000			
77E((c)1072-11	176	May 28,1977		1:20,000		N. A.	
77E (c)1094-11	102	May 28,1977		1:20,000			
78E (p)9628-96	532	Apr 26,1978		1:20,000			
graphy. On the or 4.61 feet at 2. SOURCE OF MEAN	nis date t	he river leve	el measure				
All river leven The river leven The river leven The river leven The shoreline above listed or river was upday was updated us	el on May el on May el on Apri on both s color 1971 ated using	4, 1971 was 2 28, 1977 was 1 26, 1978 wa ides of the a compilation the 1977 co. 978 panchroma	572.93 fee 572.84 fe as 573.59. river was /bridging lor photog atic photo	t. et. feet. compiled by photography raphy. The graphy.	. The A	merican si	ide of the
3. SOURCE OF MEAN	1 LOW-WATER	OR MEAN LOWER LO	OW-WATER LINE	ī			i
Not applicable							
4. CONTEMPORARY	HYDROGRAPH	IC SURVEYS (List o	only those survey	s that are sources	for photogram	nmetric survey i	niormation.)
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5. FINAL JUNCTION		AST	Tea	JTH TH		WEST	
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T-12096 REMARKS		No surve	<u> </u>	1-120		1 10 50	+-1

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	RATION		NAME	DATE
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. HORIZONTAL CONTROL	ESTABLISHED BY			
	PRE-MARKED OR IDENTIFIED BY			
	RECOVERED BY			
, VERTICAL CONTROL	ESTABLISHED BY			
<del></del>	PRE-MARKED OR IDENTIFIED BY			
	COVERED (Triangulation Stations) BY			
. LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methods) BY			
AIDO TO MATION TON	IDENTIFIED BY			
_	TYPE OF INVESTIGATION			
. GEOGRAPHIC NAMES INVESTIGATION	COMPLETE  BY  SPECIFIC NAMES ONLY			
	NO INVESTIGATION			
. PHOTO INSPECTION		<del>                                     </del>		
. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY		<del></del>	
. SOURCE DATA	JON VETED ON IDENTIFIED BY	<u>.                                    </u>		
. HORIZONTAL CONTROL IDEN	ITIFIED	2. VERTICAL CON	NTROL IDENTIFIED	
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. PHOTO NUMBERS (Clarification	on of details)	<u> </u>		
LANDMARKS AND AIDS TO NA	AVIGATION IDENTIFIED			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT N	AME

8. OTHER FIELD RECORDS (Sketch books, etc., DO NOT list data submitted to the Geodesy Division)

NOAA FORM 76-36D (3-72)

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

T-12097

			RECOI	RĎ OF ŠÚRVE	Y USE					
I. MANUSC	RIPT COPIES									
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	REPORT TO MARINE CHART REPORT TO AERONAUTICA							ARDED:		
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2. 🔯	CONTROL STATION IDENTI	FICA1	TION CARDS;	FORM NOS	5 567 SUBMIT	TED BY	Y FIELD P	ARTIES.		
3. 🔯	SOURCE DATA (except for G	eograp	hic Names Re	port) AS LISTED I	N SECTION I	I, NOAA	FORM 76-3	6C.		
·	ACCOUNT FOR EXCEPTION	15:								
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4	DATA TO FEDERAL RECOR	RDS CI	ENTER. DATE	FORWARDED:					-	
IV. SURVE	Y EDITIONS (This section s	hall b			edition is re					
	SURVEY NUMBER	(2)	JOB NUMBER			RE	TYPE OF	SURVEY	HOVEY	
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# SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-12097

This 1:15,000 scale shoreline map is one of four maps that makeup project PH-7118, Detroit River, Michigan.

This project encompasses the Detroit River from the south entrance at Lake Erie, latitude  $42^{\circ}00'30''$  to the north entrance at Lake St. Clair, latitude  $42^{\circ}22'$ 00".

Correspondence from the Chief, Photogrammetric Division dated May 14, 1984, called for the four maps to be registered as Class III maps.

Information concerning field work prior to compilation was not available.

Photographic coverage was provided in May 1971 for aerotriangulation using color film with the "L" camera (focal length 152.21 mm) at 1:30,000 scale. The same photography was used for compilation. Additional photography was taken in May 1977 and April 1978 to update compilation using the original control. The 1977 photography was used to update the American side of the river and the 1978 photography was used to update the Canadian side of the river. The 1977 photography was taken with color film using the "E" camera (focal length 152.71 mm) at 1:20,000 scale. The 1978 photography was taken with panchromatic film using the "E" camera at 1:20,000 scale.

Analytic aerotriangulation was performed at the Washington Science Center in April 1971.

Compilation was performed at the Atlantic Marine Center from office interpretation of the 1971, 1977 and 1978 photography in November 1979.

Final review was performed at the Atlantic Marine Center in July 1984. This map is to be registered as a Final Class III map.

The original base manuscript and all relevant data were forwarded to the Washington Science Center for final registration.

# FIELD INSPECTION T-12097

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 Detroit River

# June 1972

# 21. Area Covered

This report covers an area of the Detroit River south from latitude 42° .22° to latitude 42° 00°. This job was bridged for the Lake Survey Center and will be compiled direct on the Kelsh Plotter at a scale of 1:6,000.

# 22. Method

Four (4) strips of photographs (strips 1 thru 4) were bridged using analytical aerotriangulation methods. All Strips except strip 4 were adjusted to either premarked control stations or to control stations identified direct. A tie point (common image point) from strip 5 was used as a terminal control station in strip 4. This was necessary because the target for GRASSY was not visible on the photography. Ties were made between all strips. The accompanying sketch shows the location of the strips of photographs and the horizontal control stations used in the bridging. Data for the 1:6,000 scale compilation of work sheets were plotted by the Coradomat on the Michgan (south zone) Coordinate System.

# 23. Adequacy of Control

All horizontal control stations were premarked except for the following:

TRENTON RADIO STATION WGAR (center mast)
WYANDOTTE MUNICIPAL WATER TANK
WINDSOR AMBASSADOR BRIDGE North Tower
WINDSOR AMBASSADOR BRIDGE South Tower
WINDMILL PT' L.H.

Station GRASSY (USLS) was marked with a four (4) foot square. This target could not be seen on the 1:50,000 scale bridging photography and was not used in the adjustment. Horizontal control was adequate.

# 24. Supplemental Data

USGS quadrangles and maps (Mines and Technical Surveys of Canada) were used to provide vertical control for the strip adjustment.

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# 25. Photography

The following RC-8 photography was used in bridging:

# 1:30,000 scale

Strip 1 - 71-L(C)-5611 thru 5618 Strip 2 - 71-L(C)-4722 thru 4735 Strip 3 - 71-L(C)-4707 thru 4715 Strip 4 - 71-L(C)-5097 thru 5109

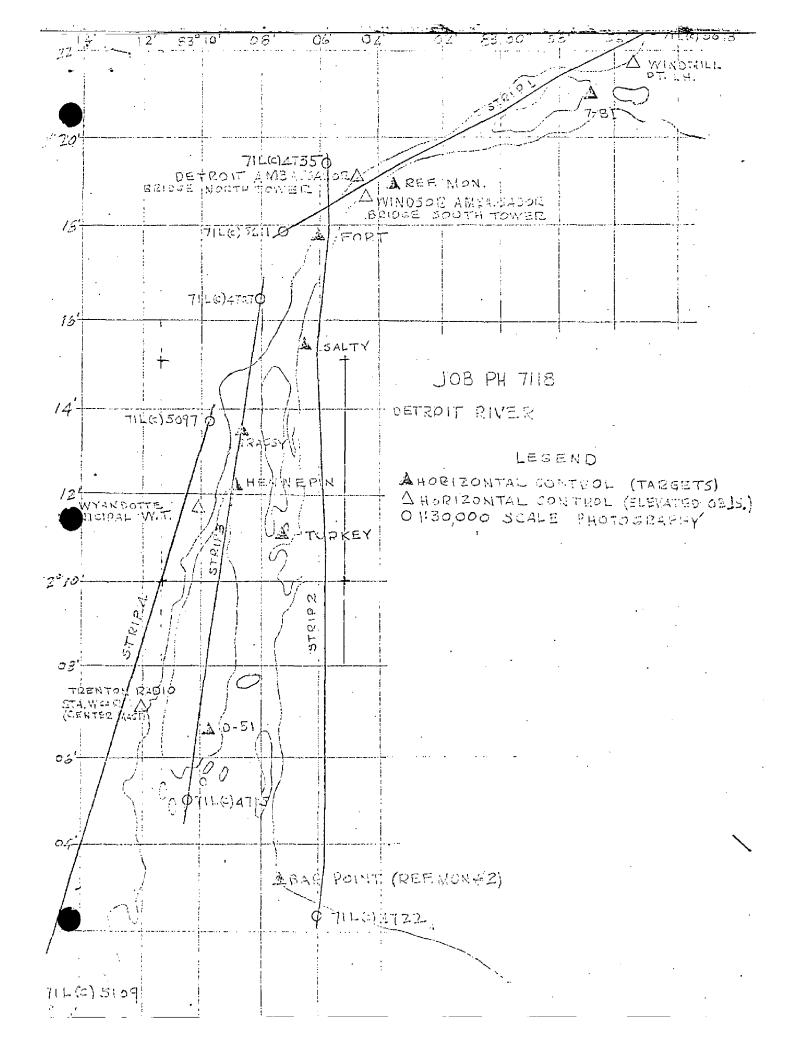
The photography was dark in the corners. This was not only troublesome during the bridging operation but may cause difficulty during compilation.

Respectfully submitted:

Donald M. Brant Cartographer

Approved and forwarded:

Henry P. Eichert, Chief Aerotriangulation Section



U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION REMARKS AMC DATE 9/15/77 DATE 8/23/77 DATE Coastal Mapping Unit, ORIGINATING ACTIVITY λ LONGITUDE \$\phi\$ LATITUDE GEOGRAPHIC POSITION SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE. DESCRIPTIVE REPORT CONTROL RECORD ~ 0 ~ ≺ Φ. ~ • φ. ~ Φ. ⊕ • ~ φ. Φ. Ф. COMPUTATION CHECKED BY
A, C, RAUCK, Jr.
LISTING CHECKED BY HAND PLOTTING CHECKED BY 251,897.918 2,330,641.510 x = 2,323,271.355257,415.444 266,419.137 2,322,997.684 2,316,420.89 256,078.23 STATE\_Michigan COORDINATES IN FEET ZONE South GEODETIC DATUM N.A. 1927 **₩** £ ķ 7 **"** 7 ız B ä 7 **"** 7 ž 3 ä ď ۳ ¥ 5 ۲ AEROTRI-ANGULATION POINT NUMBER DATE 8/22/77 DATE 8/23/77 28100 09100 10100 99100 DATE PH-7118 SOURCE OF INFORMATION (Index) Bridge Form 164 Form 164 Form 164 Bridge 1094 Bridge 420832 JOB NO HENNEPIN (ULSL), 1924 also HARBOR LINE MON.33, 1930 TURKEY (I.B.C.), 1942 WYANDOTTE MUNICIPAL WATER TANK, 1957 GRASSY (USLS), 1924 STATION NAME A. C. Rauck, Jr. F. Margiotta NOAA FORM 76-41 (6-75) T-12097 COMPUTED BY LISTED BY MAP NO.

# COMPILATION REPORT TP-12097

### 31 - DELINEATION

Delineation was accomplished using the B-8 stereoplotting instrument and graphic compilation methods. The map is based on office interpretation of the May 1971, 1:30,000 scale bridging/compilation color photographs. Supplemental photographs, flown in May 1977 and April 1978, were used to graphically update the American and Canadian sides, respectively, based on the original 1971 control.

All photographs used to compile the map are listed on form 76-36B. The photography was adequate. The times of photographs were not needed because the river levels are recorded as a daily mean, since there is no actual tide.

# 32 - CONTROL

The horizontal control was adequate. Refer to the Photogrammetric Plot Report dated June 1972.

# 33 - SUPPLEMENTAL DATA

None.

#### 34 - CONTOURS AND DRAINAGE

Contours are not applicable to this project. Drainage was compiled by office interpretation of the photographs.

#### 35 - SHORELINE AND ALONGSHORE DETAILS

The shoreline and alongshore details were compiled from office interpretation of the compilation photographs with the supplemental photographs used to update the map as described in Item #31. The shoreline compiled was the visible line of contact between land features and the water surface at the time of photography.

# 36 - OFFSHORE DETAILS

No unusual problems. See Item #31.

#### 37 - LANDMARKS AND AIDS

Appropriate copies of 76-40 forms are submitted with this report.

# 38 - CONTROL FOR FUTURE SURVEYS

None.

#### 39 - JUNCTIONS

See the attached form 76 --36B, Item #5 of the Descriptive Report concerning junctions.

# 40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Report dated June 1972.

# 46 - COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S. Geological Survey Quadrangle: Wyandotte, Michigan-Ontario, scale 1:24,000, dated 1967, photorevised 1973.

# 47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following National Ocean Survey Chart: 14853, scale 1:15,000, 7th edition, dated April 17, 1976.

# ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

#### ITEMS TO BE CARRIED FORWARD

None.

Submitted by,

Joanne D. Roderick

Cartographer March 7, 1979

Approved,

fares 1. Byd for

James L. Byrd, Jr.

Chief, Coastal Mapping Unit

# REVIEW REPORT SHORELINE T-12097

### 61. GENERAL STATEMENT

See Summary included with this report.

#### 62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

# 63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with U.S.G.S. Quadrangle: Wyandotte, Michigan-Ontarió, dated 1967, photorevised 1973, scale 1:24,000.

# 64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

There is no contemporary hydrographic survey within the limits of this map.

# 65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with NOS Charts: 14848, 45th edition, scale 1:30,000, dated August 21, 1982; 14853, 8th edition, scale 1:15,000, dated April 14, 1979; and 14854, 9th edition, scale 1:15,000, dated October 15, 1983.

# 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,

Lowell O. Neterer, Jr.

Final Reviewer

Approved for forwarding,

Bill∀ H. Barnes

Chief, Photogrammetric Section, AMC

Approved

Chief, Photogrammetric Section, Rockville

Chief, Photogrammetry Branch,

Rockville

# GEOGRAPHIC NAMES

# FINAL NAME SHEET

# PH-7118 (Detroit River, Michigan)

# TP-12097

Ballards Reef Channel

Canard River

Detroit River

Ecorse

Ecorse Channel

Ecorse River

Fighting Island

Fighting Island Channel

Grassy Island (Canada)

Grassy Island (U.S.)

Grosse Ile

Huntington Creek

La Salle

Mud Island

Palm Beach (locality)

Point Hennepin

Riverview

South Branch

Thorofare Canal

Trenton

Trenton Channel

Turkey Creek

Turkey Island

Wyandotte

Approved by:

Charles E. Harrington Chief Geographer

Nautical Charting Division

Replaces C&GS Form 567. CXTO BE CHARTED TO BE REVISED TO BE DELETED					1		NATIONAL OCEANIC AND ATMOSPHENIC ADMINISTRATION	TILL SOLD TILL	PARTY
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TO BE REVISED TO BE DELETED	REPORTING UNIT	STATE		LOCALITY			DATE	KX COMPILATION ACTIVITY	TIVITY
	Coastal Mapping Unit	Jnit   Michigan		Detroit	ት ሚያ		711111b	FINAL MEVIEWER  OUALITY CONTROL & REVIEW GRP COAST PILOT BRANCH	L * REVIEW GRP
The following objects HAVE	11 I	HAVE NOT XX been inspected from sea	seaward to determine their value as landmarks	ermine thei	r value as	landmarks.		(See reverse for responsible personnel)	sible personnel)
OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM N A	1927			A GRA GONTAN	MONTH OF BOTH AND SEASON	
N.A.	PH-7118	T-12097	N. W.	POSITION	NO		(See instructions	(See instructions on reverse side)	CHARTS
	DESCRIPTION		LATITUDE	UDE	LONGITUDE	LUDE	The street of th		AFFECTED
CHARTING (Record NAME Show t	Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parenthe	k or aid to navigation. re applicable, in parentheses)	,	// D.M. Meters	, ,	// D.P. Meters	OFFICE	FIELD	
α.				50.98		35.58	78 E (P) 9631		
MAST *	upper left mast		42 08	1573	83 05	817	Apr. 26, 1978		14848
2			- 1	45.37		25.34	78 E (P) 9631		
MAST *	upper right mast		42 08	1400	83 05	582	Apr. 26, 1978		14848
			1	42.68		27.69	78 E (P) 9631		
MAST *	lower right mast		42 08	1317	83 05	636	Apr. 26, 1978		14848
<u> </u>				48.42	•	38.11	78 E (P) 9631	***	`
MAST *	lower left mast		42 08	1494	83 05	875	Apr. 26, 1978		14848
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				43,92		31.88	77 E (C) 1096	l	14848 14853
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				05.26		23.97	77 E (C) 1096		14848 14853
TOWER	Grosse Ile		42 10	162	83 08	550	May 28, 1977		14854
				24.31		36.61	78 E (P) 9629		14848
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Dropped points " New positions I	scaled by: JDR checked by: FPM plotted by;	Date: 9/28/77 Date: 9/28/77 Date:					i		

tion n itions* itions* and date F-2-6-1 8-12-7 are det ntirely	I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols F - Field P - Photogrammet L - Located Vis - Visually V - Verified 1 - Triangulation 5 - Field identi 2 - Traverse 6 - Theodolite	rfice identified the number and year) of dentify and locations (C) (XAMPLE: 75E(C))	NS.	FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	FUSE IONS DETERMINED AND/OR VERIFIED	OBJECTS INSPECTED FROM SEAWARD	TYPE OF ACTION
7 - Planetable 8 - Sextant require entry of method of of field work. cermined by field obserupon ground survey methods.	NED OR VERIFIED data by symbols as follows: P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite	OBJECTS Eluding month, aph used to	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE O (Consult Photogrammetric Instructions No. 64,			·	RESPONSIBLE PERSONNEL
Enter 'V+Vis.' and date. Enter 'V+Vis.' and date. EXAMPLE: V-Vis. 8-12-75 **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control establishe by photogrammetric methods.	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	FIELD (Cont'd)  B. Photogrammetric field entry of method of locate of field work ar graph used to locate EXAMPLE: P-8-V  8-12-75 74L(C)2982	ETHOD AND DATE OF LOCATION' C Instructions No. 64,				ERSONNEL
ERIFIED VISUALLY ON PHOTOGRAPH is.' and date. V-Vis. 8-12-75 (C FIELD POSITIONS are dependent in part, upon control established etric methods.	ON RECOVERED aid which is also a tri- is recovered, enter 'Triang. recovery. ec.	<pre>mmetric field positions** require method of location or verification, field work and number of the photo- ed to locate or identify the object. P-8-V 8-12-75 74L(C)2982</pre>		QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE	□ PHOTO FIELD PARTY □ HYDROGRAPHIC PARTY □ GEODETIC PARTY □ OTHER (Specify)	ORIGINATOR

NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 74-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

☆ U.S.GPO:1975-0-665-080/1155

2 of 3

CES CRGS Form 567.  BE CHARTED (Field Party, Coastal)  BE DELETED AMC, NOT Colour of delet should be not delet should be not delet should be not delet show triangulation stati Show triangulation s	MONETIX CALITY  UNIT  Ship or Office)  Mapping Unit  Mapping Unit	NATI	FOR CHA	ANIC AND A	ATMOSPHER	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION KS FOR CHARTS	HYDROGRAPHIC PARTY GEODETIC PARTY	IRTY
STACKS								
The following objects HAVE NOT Deen if OPE PROJECT NO.  The following objects HAVE HAVE NOT DESCRIPTION  N.A. PH-7118 T  CHARTING Record reason for defetton of landmark or aid show triangulation station names, where applicantly and the state of Two  STACKS South East of Two  STACKS North West of Three  STACKS South West of Three			LOCALITY			DATE	XXCOMPILATION ACTIVITY	T
The following objects HAVE   HAVE NOT   been if OPR PROJECT NO.   JOB NUMBER   SURVE   N.A.   PH-7118   T-3    CHARTING   Record reason for deletion of landmark or sid of Show triangulation station names, where applicant in the state of Two    STACKS   North East of Two    STACKS   South East of Three    STACKS   South West   SOUTH West    STACKS   SOUTH West   SOUTH	mcnigan_		Detroit	River		77/77	COAST PILOT BRANCH	- # 78× 18× 6 78 9 4 9 18 18 18 18 18 18 18 18 18 18 18 18 18
STACKS South East of Three  STACKS South West of Three	been inspected from seaw	ard to det	eaward to determine their	value as	landmarks.		(See reverse for responsible personnel)	ible personnel)
٠ <u>٠</u> ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠		DATUM					•	
9 Z	T-12097	Z	N.A. 1927	_ NO		METHOD AND DAT	METHOD AND DATE OF LOCATION (See instructions on reverse side)	CHABTS
92		LATITUDE	1	LONGITUDE	LUDE			AFFECTED
	d to navigation.	,	*		"	OFFICE	FIELD	
North West South East Center of J South West	cable, in parentheses,		D.M. Meters		D.P. Meters			
North West South East North East Center of 1 South West			55.91	•	52,00	77 E (C) 1074		14848
North West South East Center of T	7	42 08	1725	83 10	1194	May 28, 1977		14854
North West South East Center of J South West			20.52		16.12	77 E (C) 1076		14848
South East Center of 1 South West	7	42 11	633	83.09	37.0	May 28, 1977		14854
South East Center of J South West		<b></b>	20.29		15.82	77 E (C) 1076		14848
S Center of 1 South West	7	42 11	626	83 09	363	May 28, 1977		14854
S Center of 1 S South West			32.47		3.88	77 E (C) 1098		14848
y y	7	42 11	1002	83 09	89	May 28, 1977		14854
y y		<del></del>	32.09		4.05	77 E (C) 1098		14848
<b>S</b>	7	42 11	066	83 09	93	May 28, 1977		14854
KG			31.79		4.40	77 E (C) 1098		14848
RLARE SPTRF	7	42 11	981	83 09	101	May 28, 1977		14854
FLARE SPTRE			38.18	<del></del>	6.67	77 E (C) 1098		14848
SPIRE	7	42 11	1178	83 09	153	May 28, 1977		14854
SPIRE			15,78		57,28	77 E (C) 1098		14848
[il	7	42 12	487	83 08	1314	May 28, 1977		14854
	_		29.88		42.50	77 E (C) 1098		14848
CHY	7	42 12	922	83.08	975	May 28, 1977		14854
Dropped points scaled by: JDR Date:	e: 9/28/77 e: 9/28/77	<u> </u>						
checked by:		Triangualtion		positions	plotted	by: JDK	Date: 9/28/// ch	checked by:

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by photogrammetric methods.	*FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods.	*FIELD POSITIONS are development vations based entirely
**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established	75	EXAMPLE: F-2-6-L 8-12-75
EXAMPLE: V-VIS. 8-12-75	<pre>t require entry of method of te of field work.</pre>	<b>.</b> S
,	7 - Planetable 8 - Sextant	<ul><li>3 - intersection</li><li>4 - Resection</li></ul>
8-12-75	5 - Field identified 6 - Theodolite	l - Triangulation 2 - Traverse
angulation station is recovered, enter irlang. Rec.' with date of recovery. EXAMPLE: Triang. Rec.	Vis - Visually	V - Verified
dmark or aid which is also a	le data by symbols as follows:	문
/4L(c)2902		FIELD
graph used to locate or identify the object.  EXAMPLE: P-8-V 8-12-75 74 (C)2082	and locate the ≎bject. 75E(t)6042 8-12-75	EXAMPLE: 75E(t)604
method of location or ver field work and number of t	Enter the number and date (including month, day, and year) of the photograph used to	Enter the number an day, and year) of t
FIELD (Cont'd)  B. Photogrammetric field positions** require	AND LOCATED OBJECTS	OFFICE IDENTIFIED AND LOCATED OBJECTS
OR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'  (Consult Photogrammetric Instructions No. 64,	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE O (Consult Photogrammetric Instructions No. 64,	
REPRESENTATIVE		ACTIVITIES
DUALITY CONTROL AND REVIEW GROUP	* n	AND REVIEW GROUP AND FINAL REVIEW
OFFICE ACTIVITY REPRESENTATIVE		
FIELD ACTIVITY REPRESENTATIVE		E-CS11 IONS DETERMINED AND/OR VERIFIED
OTHER (Specify)		
GEODETIC PARTY		OBJECTS INSPECTED FROM SEAWARD
HYDROGRAPHIC PARTY		
	NAME	TYPE OF ACTION
	RESPONSIBLE PERSONNEL	

NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 79-40 (2-71) WHICH IS OBSOLETE, AND Existing stock should be destroyed upon receipt of revision.

☆ U.S.GPO:1975-0-665-080/1155

3 of 3

	3 of 3								
NOAA FORM 76-40	40		¥	NATIONAL OCE	ANIC AND	. DEPARTI	U.S. DEPARTMENT OF COMMERCE OCEANIC AND ATMOSPHERIC ADMINISTRATION	ORIGINATING ACTIVITY	CTIVITY
Replaces C&GS Form 567.	m 567.	XXX	MARKS	FOR CHA	RTS			HYDROGRAPHIC PARTY GEODETIC PARTY PHOTO FIELD SARTY	4RJY 
XX TO BE CHARTED	TED REPORTING UNIT	STATE		LOCALITY			DATE	XXCOMPILATION ACTIVITY	V  T
TO BE REVISED		Init Michigan		Detroit River	River		77/77	FINAL REVIEWER  OUALITY CONTROL & REVIEW GRP	LEREVIEW GRP.
The following objects	HAVE HAVE NOT	been inspected from seaward to determine their value as landmarks	ward to det	ermine the	r value as	landmarks.		(See reverse for responsible personnel)	ible personnel)
OPR PROJECT	JOB NUMBER	SURVEY NUMBER	DATUM						
			Z	A. 1927		Ī	METHOD AND DATE OF LOCATION	TE OF LOCATION	
N.A.	PH-7118	T-12097		POSITION	NO		(See instructions	(See instructions on reverse side)	CHARTS
	DESCRIPTION	z	LATITUDE	UDE	CONGITUDE	LUDE			AFFECTED
NAME	(Record reason for deletion of landmark or eid to navigation. Show triangulation station names, where applicable, in perentheses)	t or eid to navigation. e applicable, in parenthoses)	, ,	// D.M. Meters	,	D.P. Meters	OFFICE	FIELD	
			i	58,27		31.47	77 E (C) 1100		14848 14853
STACK			42 12	1798	83 08	722	May 28, 1977		14854
									14848
STACK			-L <u>-</u>		•		identifiable		14853 14854
1							Not		14848
STACK		_	1				identifiable		14853 14854
TO CO									14848
							Not		14853
STACK							identifiable		14854
									14848
	_				•		Not	_	14853
STACK							identifiable		14854
			,	29.30		22,50	77 E (C) 1100		14848 14853
TOWER			42 13	904	83 08	516_	May 28, 1977		14854
_			<b></b>	47.22	<b></b>	10.16			18484
TOWER			42 13	1457	83 08	233	May 28, 1977		14854
									14848
T D			1		•		Not identifiable		14853 14854
				10 7/		8 80	77 F (C) 1102		14848
			,	17:14		70° X	1011 (0) 1101		14853
		-{-	42 14	609	83 09	156	May 28, 1977		14854
Dropped points	rn	Date: 9/28/77 Date: 9/28/77 Date:	—·						
	"checked by.	Date: Tr	Triangulation positions	tion pos	sitions	plotted	by: JDK	Date: 9/28/// ched	checked by: FP

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.	I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as 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	OFFICE 1. OFFICE [DENTIFIED AND LOCATED OBJECTS 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	AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES INSTRUCT	FORMS ORIGINATED BY QUALITY CONTROL	OBJECTS INSPECTED FROM SEAWARD	TYPE OF ACTION
**PHOTOGRAMMETR entirely, or by photogramm	IÌ. TRIANGULAT s as follows: tric angulation Rec.' with EXAMPLE: Ified III. POSITION V Enter 'V-V	FIELD (Cont'd)  B. Photogram entry of date of f graph use EXAMPLE:	INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE OF LOCATION			RESPONSIBLE PERSONNEL
V-Vis. 8-12-75 IC FIELD POSITIONS are dependent in part, upon control established etric methods.	TON STATION RECOVERED  dmark or aid which is also a tri- station is recovered, enter 'Triang. date of recovery.  Triang. Rec. 8-12-75  ERIFIED VISUALLY ON PHOTOGRAPH is.' and date.	mmetric field positions** require method of location or verification, field work and number of the photoed to locate or identify the object.  P-8-V 8-12-75 74L(C)2982	REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE  OFFICE ACTIVITY REPRESENTATIVE  I REVIEWER	☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER (Specify)	ORIGINATOR

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.

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NOAA FORM 76-40	.40					u.s	. DEPART	U.S. DEPARTMENT OF COMMERCE	ORIGINATING ACTIVITY	CTIVITY
				7		411	L COCCEP	The first the contract of the		
Replaces C&GS Form 567	Form 567.	NONFLOAT	NONFLOATING AIDS ORXXX	MXXINDHIXXEX FOR CHARTS	S FOR CHA	CHARTS	A I MOSPAET	IIC ADMINISTRATION	HYDROGRAPHIC PARTY GEODETIC PARTY	IRTY .
		TOWN CRITERO			VE. 15.00 1				PHOTO FIELD PARTY	<b>↓</b>
XXTO BE CHARTED		(Field Party, Ship or Office)			רכינון			<u>.</u>	TX COMPLICATION ACTIVITY	۱ <u>۲۱</u> ۲
TO BE DELETED		astal Mapping u 3. Norfolk, VA	nıt Michigan		Detroit	t River		71/17	COAST PICOT BRANCH	FREVIEW GR
The following objects	1 1	HAVE NOT	ξ	seaward to determine their value as landmarks	termine thei	ir value as	landmarks.		(See reverse for responsible personnel)	ible personnel)
OPR PROJECT !			SURVEY NUMBER	DATOM			-,	-		
2		PH_7118	T-12097	N	4			METHOD AND DATE OF LOCATION	E OF LOCATION	
N.A.	"   - 	11-11-1	1,555, 1	_	POSITION	NO		and continue and	minetale alue)	CHARTS
10 4 A C		DESCRIPTION		LAT	LATITUDE	LONGITUDE	TUDE		- !	AFFECTED
NAME	(Record reason Show triangulat	for deletion of landmark tion station names, where	Record teason for deletion of landmark or aid to navigation. Show triangulation etation names, where applicable, in perentheses	, ,	D.M. Meters	/ •	D.P. Merers	OFFICE .	FIELD	
	Livingstone	ne Channel Unner	er Entrance		8.49	,	21.07	78 E (P) 9632	i	14848
LIGHT *	Light			42 08	262	83 07	484	Apr. 26, 1978		14853
					28.00	<b></b> _	29.48	78 E (P) 9632		87871
LIGHT *	Ballards Reef	Channe1	Light 81D	42 08	864	83 07	677	Apr. 26, 1978		14853
				<u>.</u>	22,78		3.96	(P)		14848
LIGHT	Fighting	Island Channel	South Light	$\int 42 \ 10$	703	83 08	16	Apr. 26, 1978		14854
										14848
						- <b>-</b>		Not		14853
LIGHT	Mamajuda	Light						identifiable		14854
		•								14848
1,1GHT	Front 140bt	e South Channel ht	ı Kange			<u> </u>		Not		14853
	3777 7777	445		-				חבמרדדומהדר		14848
	Grosse Ile	e South Channel	1 Range			<b>1</b>		Not		14853
LIGHT	Rear Light	it.						identifiable		14854
	,   	,								14848
LIGHT	Wyandotte	Chemical	Corporation	<u>_</u>		<u>.                                    </u>		Not		14853
					;					14848
	Great Lakes	Steel	Corporation		7		₹ ₹ ₹	Not		14853
LIGHT	Light			42 14	349	83 08	1104	identifiable		14854
										14848
E F	;	•				<b>1</b>		Not		14853
- 1	Grassy Is	and Light						identifiable		14854
Dropped po	Ø	by: JDR by: FPM	Date: 9/28/77 Date:9/28/77			_, <b>k</b> _				
New Poest+1	to the orthor	20.0	Date:							

	RESPONSIBLE PERSONNEL	PERSONNEL	
TYPE OF ACTION	NAME		ORIGINATOR
			PHOTO FIELD PARTY
)   .   )     .   .   .   .   .   .   .			HYDROGRAPHIC PARTY
OBJECTS INSPECTED FROM SEAWARD			GEODETIC PARTY
			OTHER (Specify)
			FIELD ACTIVITY REPRESENTATIVE
COST TONS DETERMINED AND/OR VENITIED	,		OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL			REVIEWER
AND REVIEW GROUP AND FINAL REVIEW			QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
Z	INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE OF LOCATION	METHOD AND DATE OF LOCATION'	
	(Consult Photogrammetric Instructions No. 64,	ic Instructions No. 64,	
OFFICE IDENTIFIED AND LOCATED OBJECTS	TED OBJECTS	FIELD (Cont'd)  B. Photogrammetric fie	(Cont'd)
Enter the number and date (including month,	(including month,	entry of	method of location or verification,
day, and year) of the photograph used to	ograph used to	date of field work	field work and number of the photo-
identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	ject.	ed	to locate or identify the object. 3-8-V 8-12-75
FIELD		/#L(L)290	
EW POSITION DETERMINI	VERIFIED by symbols as follows:	<ol> <li>TRIANGULATION STATION RECOVERED When a landmark or aid which is</li> </ol>	also a
F - Field P - Ph	ric	angulation station is recovery.	, enter
α.		_	•
l - Triangulation 5 - Fi 2 - Traverse 6 - Th	Field identified Theodolite	8-12-75	
tion 7 -	Planetable	III. POSITION VERIFIED VIS	VERIFIED VISUALLY ON PHOTOGRAPH
œ 1	Sextant	1	te.
	### ###	EXAMPLE: V-Vis.	
A. Field positions require entry or location and date of field work.	of field work.	8-12-75	
EXAMPLE: F-2-6-L		**PHOTOGRAMMETRIC FIELD POSITIONS are dependent	SITIONS are dependent
8-12-75		entirely, or in part, up	in part, upon control established
*FIELD POSITIONS are determined by field obser-	d by field obser-		ds.
vations based entirely upon ground survey methods.	round survey methods.		

NOAA FORM 78-40 (8-74)

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

2 of 2

A	9			5	S. DEPARTA	LENT OF CORMERCE	ORIGINATING ACTIVITY	TIVITY
NOAA FORM /6-40	24:		NATIONAL OC	SEANIC AND	ATMOSPHER	OCEANIC AND ATMOSPHERIC ADMINISTRATION	YTORO SINGROSCOUNT	>10
Replaces C&GS Form 567.	m 567.	FING AIDS XOR	CLAMBERERS FOR CHARTS	HARTS			GEODETIC PARTY PHOTO FIELD PARTY	- - -
XX TO BE CHARTED		STATE	LOCALITY	<u></u>		DATE	KX COMPILATION ACTIVITY	¥11¥
TO BE REVISED	sed Coastal Mapping Unit	Jnit   Michigan	Detro	Detroit River		9/27/77	COAST PILOT BRANCH	& REVIEW GI
The following objects	ects HAVE HAVE NO	been inspected	from seaward to determine their value as landmarks	eir value as	landmarks.		(See reverse for responsible personnel)	bie personnel
OPR PROJECT NO.		SURVET NUMBER		,				
N.	PH-7118	T-12097	N.A. I	POSITION		METHOD AND DATE OF LOCATION (See instructions on reverse side)	E OF LOCATION .	CHARTS
	DESCRIPTION	20	LATITUDE	LONGITUDE	TUDE			AFFECTED
CHARTING	Record reason for deletion of landmark or aid to navigation. Show triangulation station sames, where applicable, in perentheses	rk or eid to navigation. er applicable, in perentheses)	o / D.M.Meters	/ • s	// D.P.Meters	OFFICE	FIELD	
Т.Т.СНТ *	Fighting Island Channel Intake South Light	el Water	36 01 42 13 1111	83 07	42.30	77 E (C) 1100 May 28, 1977	,	
	Fighting Island Channel	el Water	37.21		42.25	77 E (C) 1100	-	
1 IGHT *	Intake North Light	- 1	42 13 1148	83 07	696	May 28, 1977		
** + + + + + + + + + + + + + + + + + +	Fighting Island Channel	el North	20.71	83 07	40.04	77 E (C) 1102 May 28, 1977		
			-		1			
				1		-		
	* These lights are in Canada	Canada.						
	** This light is on the internat boundary line between Canada the United States.	on the international between Canada and						
Dropped p	ints scaled " checked	Date: 9/28/77 Date: 9/28/77						
New positi	lons plotted by:	Date:						

	vations based entirely upon ground survey methods.	ج ن <u>ہ</u> - نہ
**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established	8-12-75	<del>+</del>
8-12-75	A. Field positions* require entry of method of location and date of field work.	
<u> </u>	3 - Intersection 7 - Planetable 4 - Resection 8 - Sextant	
	ation 5 -	
<pre>angulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec.</pre>		
II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a tri-	NEW POSITION DETERMINED OR VERIFIED  Enter the applicable data by symbols as follows:	· .
EXAMPLE: P-8-V 8-12-75 74L(C)2982	EXAMPLE: 75E(C)6042 8-12-75	1 1 2 m
entry of method of location or verification, date of field work and number of the photo-	<pre>Enter the number and date (including month, day, and year) of the photograph used to identify and locate the \biect.</pre>	
FIELD (Cont'd)   B. Photogrammetric field positions** require	1. OFFICE IDENTIFIED AND LOCATED OBJECTS	0F1
OR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF (Consult Photogrammetric Instructions No. 64,	
REPRESENTATIVE	ACTIVITIES	ACTIVITIES
∏ REVŒ₩E₽	FORMS ORIGINATED BY QUALITY CONTROL	FORMS O
OFFICE ACTIVITY REPRESENTATIVE	י מיין איין איין איין איין איין איין איי	
FIELD ACTIVITY REPRESENTATIVE		
OTHER (Specify)		
HYDROGRAPHIC PARTY	OBJECTS INSPECTED FROM SEAWARD	OBJECTS
NAME ORIGINATOR	TYPE OF ACTION NA	
RESPONSIBLE PERSONNEL	RESPONSIBL	

NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 78-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

☆ U.S.GPO:1975-0-685-080/1155

#### 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 char 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 Re

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Vi
			Drawing No.
		· · · · · · · · · · · · · · · · · · ·	
			Full Part Before After Verification Review Inspection Signed Vi
		'	Drawing No.
	<u> </u>		Full Part Before After Verification Review Inspection Signed Vi
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Vi
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			Full Part Before After Verification Review Inspection Signed Vi
			Drawing No.
	1		<u></u>



FORM CAGS-6382 SUPERSEDES ALL EDITIONS OF FORM CAGS-978.