#### NOAA FORM 76-35

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

DESCRIPTIVE REPORT
This Map Edition will not be Field Edited
Type of Survey Shoreline
LOCALITY
State Minn - Wisc
General Locality Oliver
Locality St. Louis River
:
19 80 TO 1981
REGISTRY IN ARCHIVES
DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

# MAP NOT INSPECTED BY QUALITY CONTROL OF PHOTOGRAMMETRY DIVISION PRIOR TO REGISTRATION

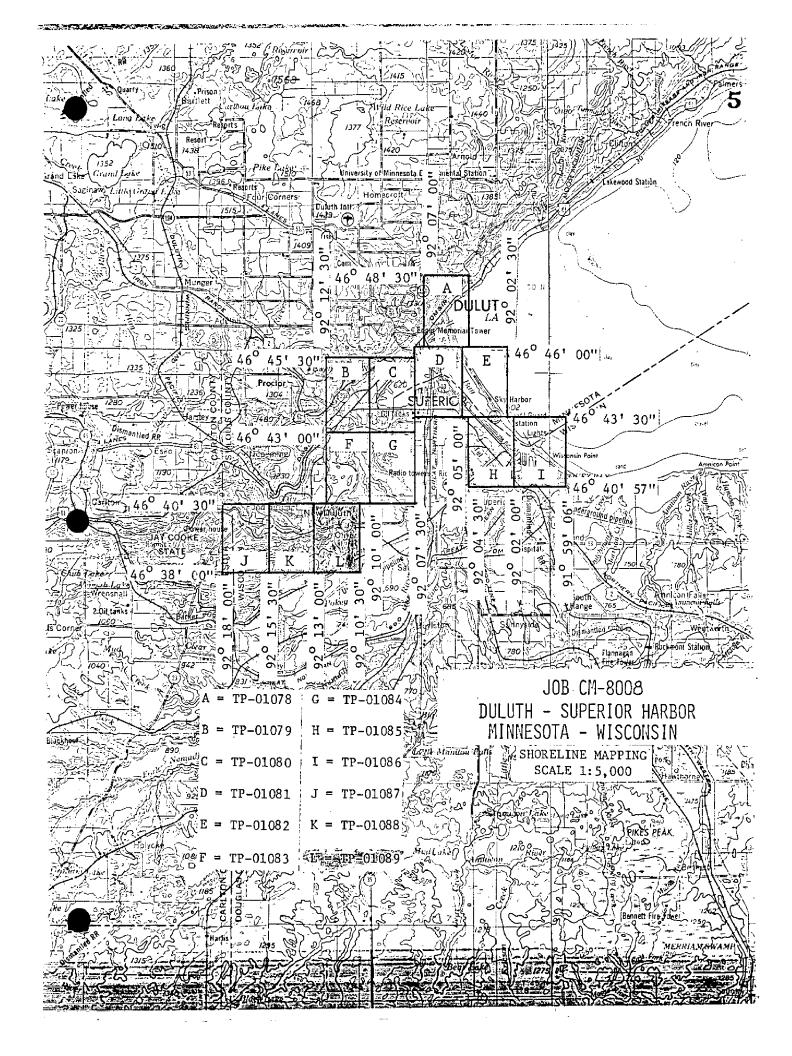
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NOAA FORM 76-36A U.	S. DEPARTMENT OF COMMERCE EANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TP-01080
HATTORAL OC	CANIC AND AIMOSPHERIC ADMIN.	☐ ORIGINAL	MAP EDITION NO. (1)
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DESCRIPTIVE REPOR	RT - DATA RECORD	RESURVEY	MAP CLASS III
		REVISED	<u> 8008-маж</u> вос
PHOTOGRAMMETRIC OFFICE		LAST PRECEED	ING MAP EDITION
Rockville, Md.		TYPE OF SURVEY	JOB PH
OFFICER-IN-CHARGE		ORIGINAL.	MAP CLASS —
Cdr. Simmons		RESURVEY	SURVEY DATES:
·		- RETISES	19_10 19_
I. INSTRUCTIONS DATED		T	
1. OFF	ICE	<u>2.</u>	FIELD
Aerotriangulation, Oct Refer to; "Vertical Da Features, Photogrammetri Lakes" dated July 13,197	tum Reference for Map	Field, April 17	,1981
II. DATUMS			
		OTHER (Specify)	
1. HORIZONTAL:	1927 NORTH AMERICAN		
2. VERTICAL:	] MEAN HIGH-WATER ] MEAN LOW-WATER ] MEAN LOWER LOW-WATER ] MEAN SEA LEVEL	OTHER (Specify) International Gro	eat Lake Datum
3. MAP PROJECTION		4.	GRID(S)
Conformal :	Lambert	STATE	ZONE
S. SCALE		Wisconsin STATE	North zone
1:5,000			
III. HISTORY OF OFFICE OPERATION	2 אכ		
OPERA	TIONS	NAME	DATE
1. AEROTRIANGULATION METHOD: Amplitude	BY LANDMARKS AND AIDS BY	S. Solbeck	12/81 12/81
METHOD: Analytic  2. CONTROL AND BRIDGE POINTS	PLOTTED BY	S. Solbeck A. Bethea	1/82
METHOD: Calcomp	CHECKED BY	J. Schad	2/82
3. STEREOSCOPIC INSTRUMENT	PLANIMETRY BY	J. Schad	2/82
COMPILATION	CHECKED BY	P. Dempsey	2/82
INSTRUMENT: B-8 scale: 1:5,000	CONTOURS BY CHECKED BY	N/A	
4. MANUSCRIPT DELINEATION	PL ANIMETRY BY	J. Schad	2/82
	CHECKED BY	P. Dempsey	2/82
метнор: Instrument work	ksheet contours by	N/A	
	CHECKED BY	N/A	
scale: 1:5,000	HYDRO SUPPORT DATA BY	N/A N/A	
5. OFFICE INSPECTION PRIOR TO	CHECKED BY	N/A	
	ВУ	N/A	
6. APPLICATION OF FIELD EDIT D	ATA CHECKED BY	N/A	
7. COMPILATION SECTION REVIEW	Ву	P. Dempsey	5/82
8. FINAL REVIEW	BY	J. Taylor/J. Sch	nad 10/83
9. DATA FORWARDED TO PHOTOGRAM  10. DATA EXAMINED IN PHOTOGRAM		N/A	
11. MAP REGISTERED - COASTAL SU		E DAUGHER	TY NOV 984
[ 1][ [[ ]] ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )			

NOAA FORM 76-36B 3-72)				NATIONAL OCE			MENT OF COMME! RIC ADMINISTRAT DNAL OCEAN SUR'
		COM	PILATION SO	URCES		,	P-01089
. COMPILATION PHO	TOGRAPHY	<del></del>		<del></del>			-01009
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<u></u>	ERATION	<u> </u>	NAME		DATE				
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· <del>-</del> ·	RECOVERED BY	N/A		<u></u>	- 170 103				
HORIZONTAL CONTROL	ESTABLISHED BY	J. Dunfries	<u> </u>	5	719/81				
	PRE-MARKED OR IDENTIFIED BY	N/A							
	RECOVERED BY	<u> N/A</u>							
VERTICAL CONTROL	ESTABLISHED BY	N/A							
	PRE-MARKED OR IDENTIFIED BY	N/A							
	ECOVERED (Triengulation Stations) BY	N/A							
LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methods) BY	<u> N/A</u>							
	IDENTIFIED BY	N/A			<u></u>				
	TYPE OF INVESTIGATION								
GEOGRAPHIC NAMES INVESTIGATION	COMPLETE	N/A							
INVESTIGATION	SPECIFIC NAMES ONLY	11/15		Ì					
	NO INVESTIGATION								
PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	N/A	<u> </u>						
BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N/A							
SOURCE DATA									
HORIZONTAL CONTROL IDE	NTIFIED	2. VERTICAL CON	ITROL IDENT	TIFIED					
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•	None								
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SUPPLEMENTAL MAPS AND			•						
SEE CM-	7313-TP-00680								
OTHER FIELD RECORDS (SA NOAA Form 76-53( 76-86 76-137	etch books, etc. DO NOT list data submit CSL) -1 75-82 -1 -1	ted to the Geodesy D	ivision)						

NOAA FORI	4 76-36D		<u>-</u>	N.	ATIONAL OCE	EANIC A	U. S. DEPARTME	NT OF COMMERCE
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4 🔲	DATA TO FEDERAL RECO	RDS CI	ENTER. DAT	E FORWARDED:				_
IV. SURVE	FEDITIONS (This section s	hall b			edition is re			
	SURVEY NUMBER	(2)	JOB NUMBE	R		RE	TYPE OF SURVEY	
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EDITION	DATE OF PROTOGRAPI	11	DATE OF FI		<b>⊡</b> π.	Пш	DIV. DV.	FINAL
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#### SUMMARY TP-01089

This map is one of five 1:5,000-scale shoreline maps that comprise Part II of Project CM-8008. There are twelve shoreline maps in this project. The purpose of this job is to provide contemporary shoreline data and alongshore detail for nautical chart revision.

This map portrays the shoreline and alongshore detail of the St. Louis River, Minnesota-Wisconsin from Bear Island to Little Pokegama Bay.

In May 1981, field operations provided horizontal control for the Aerotriangulation Unit for TP-01083, TP-01084, TP-01087, TP-01088, and TP-01089. The field information consisted of the provision of aerial photographs annotated with location of horizontal control station and supplemented with field data records.

Natural color photographs were taken August 31, 1980, with the Wild RC-8(E) camera at 1:15,000 scale which were provided to aerotriangulation and compilation.

Aerotriangulation was performed at the Washington Science Center, Rock-ville, Maryland. The 1:15,000 natural color photographs were bridged using analytic aerotriangulation methods.

Compilation was performed at the Washington Science Center, Rockville, maryland, by the Coastal Mapping Section. The interior compilation was limited to detail to the first road adjacent to the shoreline. Detail within this area was dept to a minimum. (See Compilation Report.)

Final Review for this map was performed at the Washington Science Center, Rockville, Maryland, in November 1983. This map complies with the National Standards of Map Accuracy.

A Chart Maintenance Print was prepared during the final review and forwarded to the Marine Chart Branch. Accompanying the above forwarded print are 76-40 forms, listing of landmarks and nonfloating aids to navigation.

The context of this Descriptive Report contains all pertinent reports and listings of data used to compile this final map.

A stable base positive copy of this final map and the Descriptive Report will be registered in the NOS Archives.

#### PHOTOGRAMMETRIC PLOT REPORT Duluth-Superior Harbor Minnesota-Wisconsin CM-8008 December 1981

#### 21. Area Covered

The area covered by this report is the shoreline of the St. Louis River from Fond Du Lac, Minnesota, northeast to where the river enters St. Louis Bay at Duluth, Minnesota. The river provides the boundary between Minnesota and Wisconsin. The project is covered by five (5) 1:5,000 scale manuscripts: TP's 01083, 01084, 01087, 01088, and 01089. TP-01081 will also be included in this project.

#### 22. Method

Three strips of 1:15,000 scale color photography were bridged by standard analytic aerotriangulation methods. Strips 1A and 2A were each extended to include that portion of their respective strips which were bridged in December 1980. Strip 1 consisted of photographs 80E(C) 5795 through 5799, and Strip 1A was 80E(C) 5787 through 5796. Strip 2 was 80E(C) 5729 through 5731.

Field identified control was provided and supplemented by office identified control. Tie points were used to ensure an adequate junction between the strips and to control Strip 2. The State Plane Coordinates for this project were based on the Wisconsin North Zone.

Ratio values were determined from the bridging photography, which is also to be used for compilation purposes.

#### 23. Adequacy of Control

In May 1981, a field party established five 3rd order control stations to be used to control Strips 1A, 2A, and 5. This photography covers TP-01083, TP-01084, TP-01087, TP-01088, and TP-01089. This control meets the National Standards of Map Accuracy.

Oliver 1981, sub point two, is the centerline end of a pier. It would not fit the other control by 1 foot in X and 10 feet in Y. Jim Shea, Coastal Survey Section, AMC, believes that the pier was rebuilt after the photography was taken. This point was not used in the adjustment.

Photos 7595 and 7596 were used in the adjustment of Strip 2, as well as in the adjustment of Strip 2A. Points on these photos differed by up to 10 feet in the two adjustments. The discrepency was probably due to the quality of the control (which had an accuracy of 1.0 to 2.0 meters) and the inability to determine the exact image of the photo control point during mensuration of Strip 2.

It was decided to readjust Strips 1 and 1A as one continuous strip, as followed by readjusting Strips 2 and 2A as one continuous strip using tie points from 1 and 1A.

#### 24. Supplemental Data

USGS quads were used to provide vertical control for the adjustments. Nautical Charts were used to locate aids and landmarks.

#### 25. Photography

The coverage, overlap, and quality of the photographs proved adequate for the job.

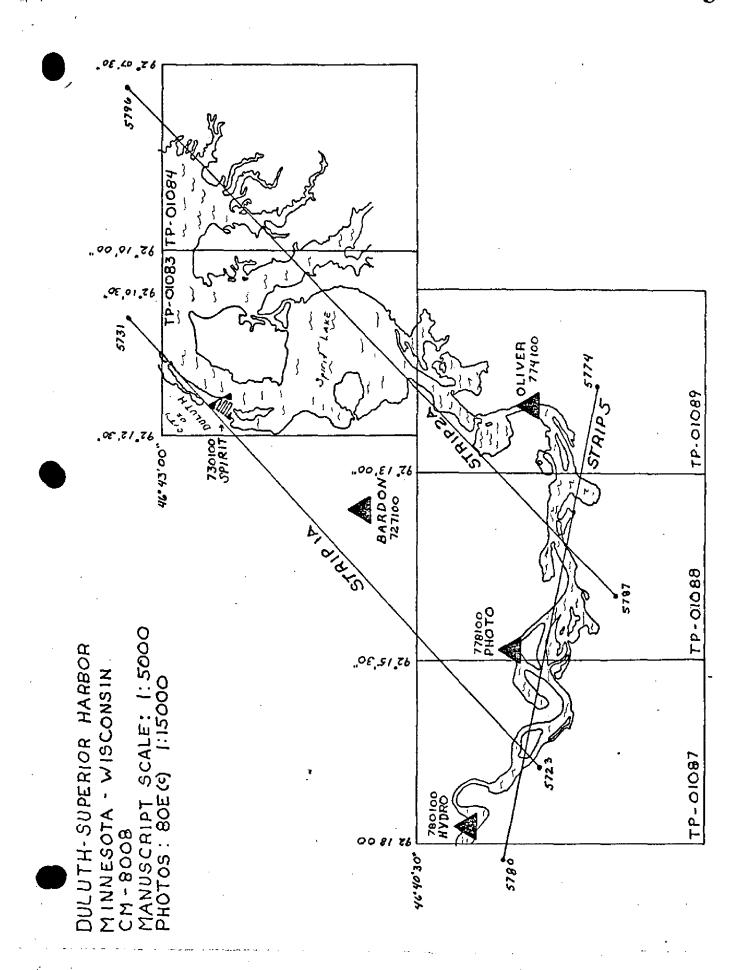
/Støphen H./Sol/beck

Approved and Forwarded:

Don O. Norma

Don O. Norman

Chief, Aerotriangulation Unit



#### CM-8008 FIT TO CONTROL (in feet)

STRIP 1 and 1A (combined)	<u>_x</u>	. <u>Y</u>
▲ 780101 780102 723801 723802 723803 724801 724802 724803 ▲ 778101 ▲ 778102 727101 ▲ 727102 729869 729870 730101 ▲ 730102 731867 (plotted 731467) 731868 (plotted 731468) ▲ 733124 ▲ 733862 735855 735856 736110 736805 738103 738801 (plotted 738501) ▲ 738802 (plotted 738502)	-1.077095 1.249 1.013 .990 .873 .457 .822 1.593 .519 -1.751 -1.681 -3.832444 -1.598623 2.103091 1.513 .447 4.411 1.109 .482310 -1.406 -9.282690	779 -1.680 -1.233 -1.799 -1.527963560283 .835 .195 .538108 3.134 2.141 .426 1.506 6.988 2.565 -1.115 -1.298 5.460 1.518 2.310 2.992 .891 -7.111 .764
STRIP 2 and 2A (combined) 724804	1 276	1 000
▲ 724805 ▲ 725802 726801 726802 774101 774102 727801 727802 ▲ 728801 728802	1.276 .728 682 .026 .263 .578 1.068 .840 .053 398 .610	-1.292 749 .636 .416 041 .936 -9.104 .606 1.233 .862 .162

## FIT TO CONTROL (continued)

STRIP 2 and 2A (cont)	X	<u>Y</u>
72 9 8 0 1 72 9 8 0 2 ▲ 73 0 8 0 1 73 0 8 0 2 73 1 8 0 1 ▲ 73 2 8 0 2 73 3 8 0 1 73 3 8 0 2 79 7 8 4 9 75 6 8 0 1 ▲ 75 6 8 0 2 79 8 8 0 1 ▲ 79 8 8 0 2 ▲ 79 9 8 0 1	134 372 .405 206 883 123 359 .396 -1.322 -1.899 -1.359 -1.183 .128 .679 .579	.429505776811503435 .570 -1.004 -1.376 4.628 3.288 2.708784627 -1.616
STRIP 5		
▲ 774101 774102 778101 ▲ 778102 ▲ 780101 ▲ 780102	005 .085 .705 .024 454 .435	.001 -11.028 -2.271 011 .740 730

<sup>▲</sup> Stations held during bridging

					A.
NOAA FORM 76-41 (6-75)					U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
4		DESCRIPILY	DESCRIPTIVE REPORT CONTROL RECORD		
MAP NO. TP-01084	Job NO. CM-8008	80(	GEODETIC DATUM NA 1927	ORIGINATING ACTIVITY ROCKVITIE	итү Тё:
STATION NAME	SOURCE OF	AEROTRI- ANGULATION POINT	COORDINATES IN FEET STATE WISC.	GEOGRAPHIC POSITION	REMARKS
	(lndex)	NUMBER	zowe North	λ LONGITUDE	
			x= 1446864.086	φ 46 <sup>0</sup> 39'05.713"	
01iver 1981	AMC Cömp	744100	y= 549153.730	λ 92 <sup>0</sup> 12'09.784'	
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COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATE
LISTED BY J. Schad		DATE2/82	LISTING CHECKED BY P. Demi	Dempsey	DATE 5/82
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE
		SUPERSEDES NO	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	CH IS OBSOLETE.	

## COMPILATION REPORT TP-01089

#### 31. Delineation

The map manuscript was delineated using the Wild B-8 stereoplotter and holding to pass points established by the Aerotriangulation Unit.

#### 32. Control

See the Photogrammetric Plot Report for the adequacy of horizontal control. Vertical control was taken from USGS quads and used in the leveling of the stereomodels.

- 33. Supplemental Data None
- 34. Contours and Drainage

Contours are not applicable. Drainage was compiled from office interpretation of the photos.

#### 35. Shoreline and Alongshore Details

The shoreline and alongshore detail shown on this manuscript represent the lake level at the time of photography. All shoreline and alongshore details are from office interpretation of the photographs. There was no field inspection prior to compilation.

#### 36. Offshore Detail

All offshore detail was compiled from office interpretation of the photographs.

#### 37. Landmark and Aids

No aids appear on this map. One landmark appears on the map.

- 38. Control for Future Surveys None
- 39. Junctions

TP-01089 junctions with TP-01083 to the north, TP-01088 to the west, and none to the east and south.

### 40 thru 45. <u>Inapplicable</u>

#### 46. <u>Comparison with Existing Maps</u>

During compilation, a continuous comparison was made with TP-00680. This survey was compiled at a scale of 1:15,000 using the format for chart 14975 and is intended as a new base for this chart, but has yet to be applied. Although, some duplication of features exist, the interior detail shown on TP-01085 consists mainly of features that have been constructed or changed since TP-00680 was compiled. This survey is not intended to supercede the interior portion of TP-00680, but should be used only to add those new features compiled.

Comparison was made with USGS quadrangle map; West Duluth Wisc-Minn, 1954, photorevised 1969 and 1975, scale 1:24,000.

#### 47. Comparison with Nautical Chart

Comparison was made with Nautical Chart 14975, scale 1:30,000, 26th Edition, April 26, 1980.

Submitted by,

James Scharl

James Schad

Approved and Forwarded:

后心, Frank Wright

Chief, Coastal Mapping Section

#### REVIEW REPORT SHORELINE SURVEY TP-01089

#### GENERAL STATEMENT

A final review was performed for this shoreline map and no major discrepancies were encountered. This map is registered as a Class III map. For a complete analysis of the compilation, refer to the Compilation Report bound with this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

None

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Refer to paragraph 46 of the Compilation Report, bound with this Descriptive Report.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

None

65. COMPARISON WITH NAUTICAL CHARTS

Refer to paragraph 47 of the Compilation Report, bound with this Descriptive Report.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with photogrammetric instructions for shoreline mapping and meets accuracy required by National Standards of Map Accuracy.

Submitted by:

James Taylor/James Schad

Approved:

George M. Ball Chief, Photogrammetric Section Lawrence W. Fritz Chief, Photogrammetry Branch

#### GEOGRAPHIC NAMES

#### FINAL NAME SHEET

CM-8008 (Duluth-Superior Harbor, Minn.-Wis.)

TP-01089

Bear Island

Burlington Northern (RR)

Duluth Messabe and Iron Range (RY)

Little Pokegama Bay

Mud Lake

01iver

St. Louis River

Approved by:

Charles E. Harrington

Chief Geographer, N/CG2x5

Parameter Code   From \$557   NONFLOATING AIDS OR LANDARKS FOR CHARTS   Parameter   Param	NOAA FORM 76	40					ا	DEPART	ENT OF COUNTROLE	VENTER SULFAUSION	VTIVITY
WONFLOATING AIDS OR LANDMARKS FOR CHARTS    Production	(8-74)	<b>;</b>	!		L V	IONAL OCE	ANIC AND A	TMOSPHER	IC ADMINISTRATION	HYDROGRAPHIC PA	LRTY.
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TOWN NUMBER ON TWINDER TOWN NA 1927  CM-8008 TP-01089  CM-8008  TP-01089  TP-01089  TATTUDE CM-8008  TOWN NA 1927	The following		lП	been inspected from sea	ward to det	ermine thei	r value as	landmarks.		(See reverse for respons	ible personnel)
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*FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods.	EXAMPLE: F-2-6-L 8-12-75	sitions*	1 1	<pre>1 - Triangulation 5 - Fiel 2 - Traverse 6 - Thec</pre>	Enter the applicable data by symbols F - Field P - Photogrammet L - Located Vis - Visually V - Verified	FIELD  NEW POSITION DETERMINED OR VERIFIED	tify CE:	Enter the number and date (including month, day, and year) of the photograph used to	OFFICE IDENTIFIED AND LOCATED OBJECTS		ACTIVITIES	ND REVIEW GROUP AND FINAL F	FORMS ORIGINATED BY QUALITY CONTROL	TOST TONG OF FRAMINED AND/OR VERTICED			CBJECTS INSPECTED FROM SEAMARD			TYPE OF ACTION	
by field obser-	**	require entry of method of e of field work.	Planetable   11	Field identified Theodolite	data by symbols as follows: P - Photogrammetric Vis - Visually	/FRIFIED	ict.	including month,		INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE O			1 1000	Vame School		- Indiana.	•			NAME	RESPONSIBLE PERSONNEL
	**PHOTOGRAMMETRIC FIELD PO:	EXAMPLE: V-Vis. 8-12-75	==	8-12-75	<b>⊣</b>	TRIANGH ATION STATION RECOVERED	** (7)	entry of method of date of field work;	FIELD (Cont'd)  B. Photogrammetric fie	netructions No. 64,	1			,				_			SONNEL
ds.	IC FIELD POSITIONS are dependent		TE.	( ; ),1	mark or aid which is also a tri- station is recovered, enter 'Triang. date of recovery.	RECOVERED	ed to locate or identify the object. P-8-V 8-12-75 74L(C)2982	method of location or verification, field work and number of the photo-	<pre>Cont'd) Photogrammetric field positions** require</pre>		REPRESENTATIVE	QUALITY CONTROL AND REVIEW GROUP	REVIEWER	OFFICE ACTIVITY REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE	OTHER (Specify)	GEODETIC PARTY	HYDROGRAPHIC PARTY	PHOTO FIELD PARTY	ORIGINATOR	

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.

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#### 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. I. Letter all information.

- In "Remarks" column cross out words that do not apply.
   Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
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