NOAA FORM 76-35 (6-80)

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

DESCRIPTIVE REPORT

·	
Map No.	Edition No.
TP-01395	1st
Job No.	
CM-8511	
Map Classification	
. CLASS III	
Type of Survey	
COASTAL MAPPING	
LOCALIT	Υ
State	······································
. MICHIGAN	
General Locality	
LAKE SUPERIOR	
Locality	
VERMILLION POINT	
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DATE	
DATE	

NOAA FORM 76-36A U. S. DEPARTMENT OF NATIONAL OCEANIC AND ATMOSPHE	COMMERCE	TYPE OF SURVEY	SURVEY	тр. 01395
MATIONAL OCEANIC AND ATMOSPHE	RIC ADMIN.	☑ ORIGINAL	MAP EDITI	1
				•
DESCRIPTIVE REPORT - DATA RECOR	D	T RESURVEY	MAP CLASS	
		RÉVISED	108	<u>кж. СМ-8511</u>
PHOTOGRAMMETRIC OFFICE		LAST PRECEED	ING MAP EDIT	TION
Photogrammetry Branch		TYPE OF SURVEY	JOB I	PH
Rockville, MD		ORIGINAL	MAP CLASS	•
		RESURVEY REVISED	SURVEY D	
Cdr. A. Y. Bryson		G MCTIOES		'
I. INSTRUCTIONS DATED				
1. OFFICE		2.	FIELD	·
Aerotriangulation April 20,	1987	Field	January	27, 1986
Office July 27, 1	987			
		,		
II. DATUMS		OTHER (Specify)		
1. HORIZONTAL: X 1927 NORTH AMERIC	: AN	(0,000,000,000,000,000,000,000,000,000,		
MEAN HIGH-WATER		OTHER (Specify)		
2. VERTICAL:				
MEAN LOWER LOW-Y	/ATER	International Gre	at Lake D	atum (1955)
3. MAP PROJECTION			GRID(S)	
Transverse Mercator Projection		STATE Michigan	East	·
5. SCALE		STATE	ZONE	
1:20,000				
III. HISTORY OF OFFICE OPERATIONS				
OPERATIONS		NAME_		DATE
1. AEROTRIANGULATION METHOD: Analytical LANDMARKS AN	BY ID AIDS BY	J. Taylor	· · · · · · · · · · · · · · · · · · ·	May 1987
	OTTED BY	J. Taylor	····	May 1987
		N/A		1 1112 - 1277
1 .	METRY BY	R. Johanson		Sept. 1987
	ECKED BY	J. Schad		Sept. 1987
1 114 5 5		N/A	· —-	<u> </u>
		N/A R. Johanson	·	Sept. 1987
	ECKED BY	J. Schad		Sept. 1987
CON CON	TOURS BY	N/A		
метнор: Smooth Drafting <u>сн</u>	ECKED BY	N/A		ļ.———
scale: 1:20,000		N/A		
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	ECKED BY	N/A N/A	······································	
	вч	N/A		
6. APPLICATION OF FIELD EDIT DATA	ECKED BY	N/A		
7. COMPILATION SECTION REVIEW	BY	J. Schad		0ct. 1987
8. FINAL REVIEW 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	U. Schad U. Schad	<u>-</u>	NOV9, 1987
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY			NOV 10,1987 Dec. 1987
11. MAP REGISTERED - COASTAL SURVEY SECTION	ВУ	J. Zivanies		A00 26 1999

NOAA FORM 76-36B 3-72)						TIONAL OCE		NAT	TIONAL	OCEAN SURVI
			CO	MPILATIO	N SOUR	CES TP-	01395			
. COMPILATION PHO	TOGRAPHY					<u>U</u>	01933			
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NUMBER AND	TYPE		DATE	TIME		SCALE	// 26/		GE OF	
NOMBER AND	TIPE	-	DATE	1100		SCALE		317	<u> </u>	
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SHOPET III	e datum	KXXXXXXX	Shoreli	at time	e of ph	ike Super	ny.			
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NOAA FORM 78-368 (3-72)

NOAA FORM 76–360 (3–72)	:		NATIONAL OCEA	NIC AND ATMOSPHE	MENT OF COMMERCE RIC ADMINISTRATIONAL OCEAN SURVE
<u></u>		HISTORY OF FIELD	OPERATIONS	TP-01395	THE SOLAN GONTE
I. X FIELDXINSP	EXTXON OPE	RATION FIEL	D EDIT OPERATION		•
	OP	ERATION		NAME	DATE
1. CHIEF OF FIEL	D PARTY		J. E. Dunfo	nd ·	June 1986
		RECOVERED BY	J. E. Dunfor		May: 1986
. HORIZONTAL C	ONTROL	ESTABLISHED BY	J E Dunfor		May, 1986
		PRE-MARKED OR IDENTIFIED BY	1 F Dunfor		May 1986
		RECOVERED BY	N/A		, , , , , , , , , , , , , , , , , , , ,
, VERTICAL CON	ITROL	ESTABLISHED BY	N/A		
		PRE-MARKED OR IDENTIFIED BY	N/A		
	R	ECOVERED (Triangulation Stations) BY	N/A		
LANDMARKS AN		LOCATED (Field Methods) BY	N/A		
AIDS TO NAVIG	ATION	IDENTIFIED BY	N/A		
		TYPE OF INVESTIGATION			
5. GEOGRAPHIC N		COMPLETE BY			
INVESTIGATION	4	SPECIFIC NAMES ONLY			
		A NO INVESTIGATION	NONE		<u> </u>
6. PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY	NONE		
7. BOUNDARIES A	ND LIMITS	SURVEYED OR IDENTIFIED BY	N/A		
II. SOURCE DATA		VIII	10 1/5071041 501	ITOOL IDENTIFIED	-
I. HORIZONTAL C	ON I ROL IDE	NITED	2. VERTICAL CON	TROL IDENTIFIED	
PHOTO NUMBER		STATION NAME	PHOTO NUMBER	STATION D	ESIGNATION
36 E(6)6230	VEDMILI	ON, 1965			
3. PHOTO NUMBE		ION of details)			
None	.		T		
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJEC	TNAME
5. GEOGRAPHIC N	AMES:	REPORT X NONE	6. BOUNDARY AN	D LIMITS: REP	ORT X NONE
7. SUPPLEMENTA	L MAPS AND			<u>_</u>	
3. OTHER FIELD One Field Wo		etch books, etc. DO NOT tist data submi	tled to the Geodesy D	ivision)	
IOAA FORM 75-360	:	<u> </u>	\$110 C	roment Printing Office: 1975	_ pps_cc1//110_B

 ${}^{\mbox{\tiny $\mbox{$^{\circ}$}}}\mbox{U.S.}$ Government Printing Office: 1975 $\sim 668\text{-}661/11.10$, Region No. 6

(3-72)	IM 76-36D		N.	ATIONAL OCI	EANIC A		NT OF COMMERCE ADMINISTRATION
		RECO	RD OF SURVE	Y USE	TP-013	395	
1. MANUSC	RIPT COPIES						
	cc	MPILATION STAGE	is .			DATE MANUSCR	PT FORWARDED
	DATA COMPILED	DATE	RE	MARKS		MARINE CHARTS	HYDRO SUPPORT
Final R Class I		Dec., 1987	Chart Mai Print	ntenance 	}		
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	ADVE AND AIDS TO NAVIG	ATION					
	ARKS AND AIDS TO NAVIGA		DATA BRANCH			<u> </u>	
	CHART LETTER	DATE		· ·	_		
NUMBER	NUMBER ASSIGNED	FORWARDED			REMA	ARKS	
			Listing of (None)	Landmark	ks and	Aids to Na	vigation —————
							·
				-			
	REPORT TO MARINE CHAR REPORT TO AERONAUTICA	·					
III. FEDEI	RAL RECORDS CENTER DA	TA					
2. 💢	BRIDGING PHOTOGRAPHS; CONTROL STATION IDENT SOURCE DATA (except for a ACCOUNT FOR EXCEPTIO	IFICATION CARDS; Geographic Names Ro NS:	FORM NO:	S 567 SUBMIT	TTED BY	FIELD PARTIES.	
IV. SURVE	Y EDITIONS (This section	shall be completed e	ach time a new mai	o edition is re	gistered)		
	SURVEY NUMBER	JOB NUMBE	i.R			TYPE OF SURVEY	
SECOND EDITION	TP -	(2) PH			LIREV	/ISED RE:	SURVEY
				□ıı.	<u> </u>		FINAL
	SURVEY NUMBER	JOB NUMBE				YPE OF SURVEY	BURVEY
EDITION	DATE OF PHOTOGRAP	(3) PH-		□ 11.	Dir.	MAP CLASS	FINAL
	SURVEY NUMBER	JOB NUMBE	IR .	3		YPE OF SURVEY	
FOURTH	TP -	(4) PH				ISED RES	ŰRVĖγ
EDITION	DATE OF PHOTOGRAP	HY DATE OF F	IELD EDIT	Q11.	□ tiii.	MAP CLASS □IV. □V.	FINAL

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SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT TP-01395

Project CM-8511 consisted of the production of Class III shoreline maps. Five 1:20,000-scale and one 1:5,000-scale maps were compiled. The area compiled extends from Crisp Point to Nadoway Point, Michigan.

The purpose of this map, TP-01395, 1:20,000 scale, is to provide contemporary shoreline data for maintenance of the nautical charting program.

Field operations consisted of aerial photography and the recovery, establishment, and identification (premarking) of horizontal control necessary for aerotriangulation. Twelve horizontal control stations were paneled for use in aerotriangulation. Field operations for project CM-8511 commenced in May 1986 and concluded in June 1986.

Natural color photographs 1:50,000 scale and 1:15,000 scale were taken in June 1986 with the Wild RC-8C(E) camera. Supplemental natural color photographs at 1:30,000 scale were not used for compilation.

Three strips of 1:50,000-scale color photographs were bridged using analytical aerotriangulation methods. One 1:50,000-scale model and one 1:15,000-scale model were bridged using the NOSAP (IDPF system).

Horizontal control stations used in the adjustment were premarked panels. Elevations from U.S.G.S quadrangles were used as vertical control. The amount of aerotriangulated control proved adequate and meets National Standards of Map Accuracy.

Compilation was performed by the Special Project Unit, Rockville Office. This map delineation was based on office interpretation of the natural color photographs using the Wild B-8 stereoplotter and the ratio color photographs. All line work was smooth drafted.

Final review was performed by the Special Project Unit, Rockville office. This map compiles with the project instructions and meets the requirement for the National Standard of Map Accuracy.

The Descriptive Report contains all the information pertinent to the completion of this map.

FIELD INSPECTION TP-.01395

There was no field inspection prior to compilation. Field work accomplished consisted of aerial photography and the recovery, establishment and identification (premarking) of horizontal control necessary for aerotriangulation.

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AEROTRIANGULATION REPORT CM-8511 CRISP POINT TO NADOWAY POINT, MICHIGAN

MAY 1987

21. AREA COVERED

The area covered by this report is from Crisp Point to Nadoway Point in Lake Superior, Michigan. This area is covered by five 1:20,000-scale manuscripts and one 1:5,000-scale inset that is part of TP-01396. The manuscripts are TP-01395, TP-01396, TP-01397, TP-01398, and TP-01399.

22. METHOD

Three strips of 1:50,000-scale color photographs were bridged and adjusted to the ground using analytic aerotriangulation methods. The measurements were made with the Wild STK comparator. One 1:50,000-scale model and one 1:15,000-scale model of color photographs were bridged and adjusted to the ground with the IDPF system. Tie points were used to supplement control.

Ratio values were determined for the color bridging photographs. No black-and-white infrared photography was secured for this project.

No aids to navigation or landmarks were located during aerotriangulation.

The manuscripts were plotted on the Kongsburg flatbed plotter in the Michigan State Plane Coordinate System, East Zone. This is a Transverse Mercator projection. The data is NAD 27.

23. ADEQUACY OF CONTROL

The horizontal control provided for this project was adequate. Twelve control stations were provided and used in the adjustment. This project meets NOS requirements for map manuscripts.

24. SUPPLEMENTAL DATA

Nautical charts were used to try to locate objects on the color bridging photography. USGS quads were used to obtain elevations to level the strips.

25. PHOTOGRAPHY

The coverage, overlap, and quality of the photographs proved adequate for this project. Some control station panels were difficult to measure due to poor image quality of the photographs.

Submitted by,

James H. Taylor

Approved and Forwarded:

Don O. Norma

Don O. Norman

Chief, Aerotriangulation Unit

FIT TO CONTROL
CM-8511
CONTROL HELD
TIE POINT HELD

STATION NAMES	POINT NUMBER	VALUES X	IN FEET
STRIP 15-1			
Whitefish Point Hbr N. Brkwtr Lt., 1981 Whitefish Point Hbr In	▲ 861110	0.2	0.0
Brkwtr Lt., 1981 White, 1965 Sub Station #5	▲220110 ▲220101	-2.0 0.2	-0.8 -0.3
Whitefish Point Hbr. S. Brkwtr. Lt., 1981 Whitefish Point Lighthouse,	▲861100	1.7	0.2
Whitefish Point Red	220120	0.6	1.6
Receiving Twr., 1965	220130	0.5	-1.9
STRIP 50-1			
Pris Vermillion, 1965 Betsy, 1965 Sub Station #3 Tie From Strip 50-4 Tie From Strip 50-4 Tie From Strip 50-4 Andrus, 1965 Sub Station #4	▲227100 ▲230100 ▲230111 219801 219802 219803 ▲218101	0.3 1.6 -1.8 3.1 1.9 -1.3	1.4 -1.5 1.9 2.6 2.7
STRIP 50-2			
Menekaunce Pt., 1965 Sub Station #9 Tie From Strip 50-3 Tie From Strip 50-3 Tie From Strip 50-3 Tie From Strip 50-3	▲ 204101 ■ 193801 ■ 193802 ■ 193803 ■ 193804	0.8 -1.0 0.4 -0.7 0.7	-1.8 0.8 0.2
STRIP 50-3			
Pt. Iroquis L.H. Sub Point # Sub Station #11 TP Pen, 1986 Tie From Strip 50-2	12 \$\(\begin{align*} 198101 \\ 200101 \\ 202100 \\ 193801 \\ 193802 \\ 193803 \\ 193804	1.1 -3.8 0.6 1.0 -0.3 0.7 -0.7	1.6 -1.6 -0.1 1.7 -0.7 -0.1 0.5

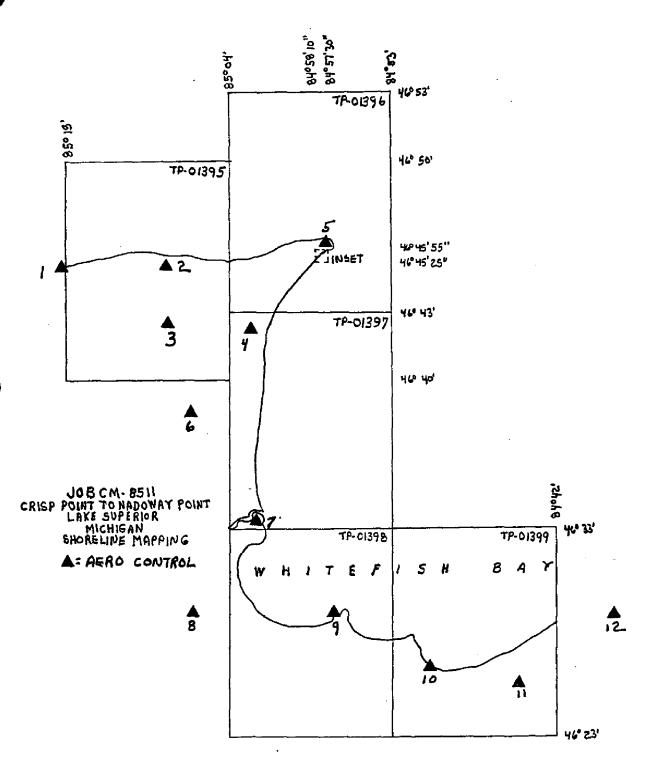
	2		
Tie From Strip 50-4	206801	-2.0	3.8
Tie From Strip 50-4	206802	-2.2	5.1
Tie From Strip 50-4	206803	-3.6	5.3
Sub Station #8 TP	▲ 213101	-1.5	-0.5
STRIP 50-4			
Tie From Strip 50-3	206801	2.0	-3.8
Tie From Strip 50-3	206802	2.2	
Tie From Strip 50-3	206803	3.6	
Sub Station #8 TP	▲ 213101	-0.2	
Tahqumenon, 1965, Az. Mk.	 - · ·		
Sub Station #7	▲ 215101	1.9	-1.4
Prison, 1965 Sub Station #6	▲ 217101	-1.7	1.1
Andrus, 1965 Sub Station #4	▲ 218101	0.9	2.3
Tie From Strip 50-1	219801	-3.1	-1.9
Tie From Strip 50-2	219802	-1.9	-2.6
Tie From Strip 50-3	219803	1.3	-2.7
White, 1965 Sub Station #5	▲ 220101	1.5	
Whitefish Point Hrb In			
Brkwtr Lt., 1981	▲ 220110	-0.5	1.1

COLOR BRIDGING RATIO VALUE CM-8511

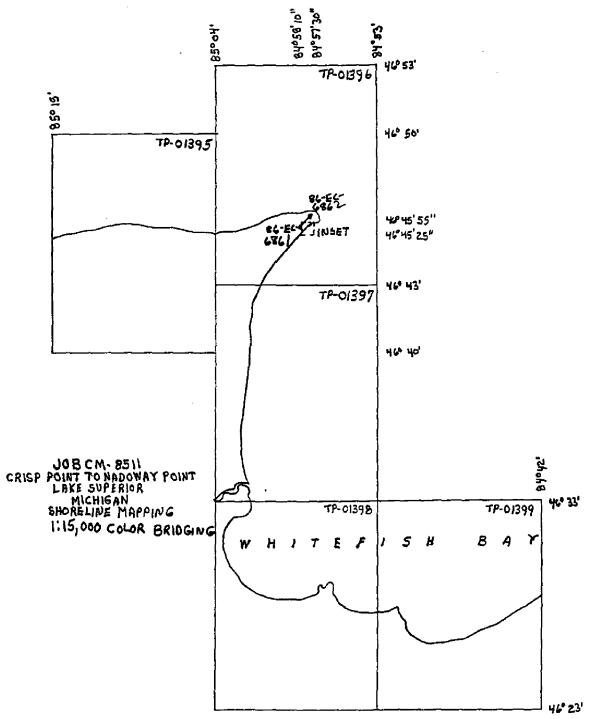
86-EC-6191	and 6193	Ratio	2.580
86-EC-6200	thru 6205	Ratio	2.568
86-EC-6213	thru 6221	Ratio	<u>2.581</u>
86-EC-6228	thru 6231	Ratio	2.583
86-EC-6861	and 6862	Ratio	2.980

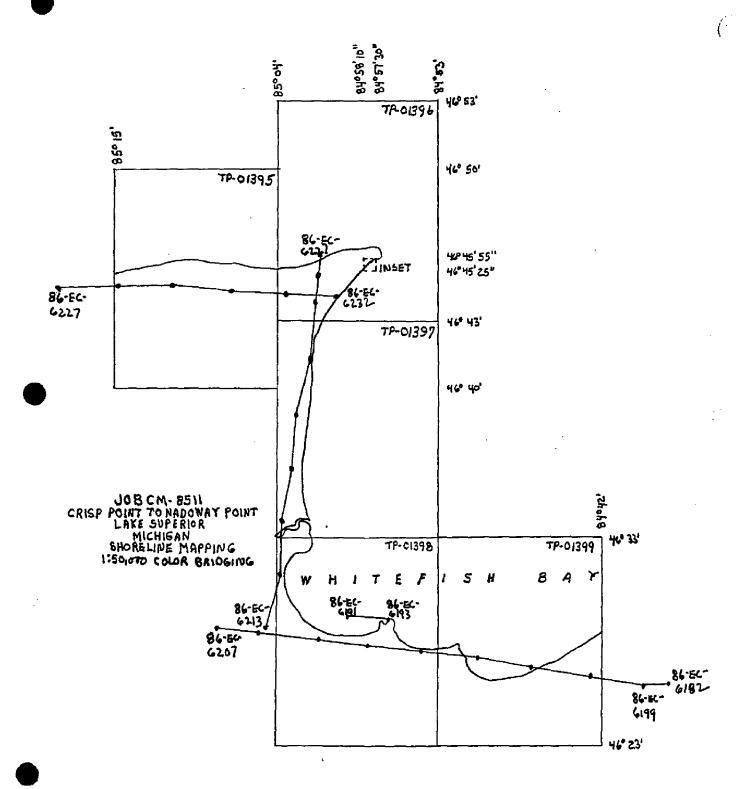
KEY TO NUMBERED STATIONS CM-8511

STATION NAME	PANEL NO.	AERO NO.
	_	007100
Pris	1	227100
Vermillion, 1965	2	230100
Betsy, 1965 Sub Station #3	3	230111
Andrus, 1965 Sub Station #4	3 4	218101
White, 1965 Sub Station #5		220101
Prison, 1965 Sub Station #6	6	217101
Tahqumenon, 1965 Az. Mk.		
Sub Station #7	7	215101
Sub Station #8 TP	8	213101
Menekaunce Pt. 1965		
Sub Station #9	9	204101
Pen, 1986	10	202100
Sub Station #11 TP	11	200101
Pt. Iroquis Lt. Ho.		
Sub Point #12	12	198101



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NOAA FORM 76-41					U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD		
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY	VITY
TP-01395	CM 8511		NA 1927	Special Project	ect. Rockville. MD
STATION NAME	SOURCE OF	AEROTRI- ANGULATION POINT	coordinates in Feet state_Michigan		Ì
	(Index)	NUMBER	zone East	λ LONGITUDE	
WOT ING	CSI		x = 131,091.7807	φ46 45 10.2807	
VERMILIUM, 1905	Binder	230100	y= 1,918,246.3713	A85 08 18.1419	Direct
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COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATE
LISTED BY D. Norman		PA-F2-86	١.	Harrod, Jr. / J. Schad	DATE 12-11-86
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE
		SUPERSEDES NO	ERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE	H IS OBSOLETE,	

COMPILATION REPORT TP-01395

31. DELINEATION

Delineation of detail was accomplished using a Wild B-8 stereoplotter.

32. CONTROL

Horizontal control furnished by the Aerotriangulation Unit was adequate for controlling the stereomodels. Refer to the Photogrammetric Plot Report bound with this Descriptive Report for additional information.

Vertical control was achieved by using a combination of elevations provided by the Aerotriangulation Unit, USGS quadrangles, and the land/water interface.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

The compilation of contours was not a requirement of this project. Drainage was compiled based on office interpretation of the bridging/compilation photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The visible line of contact between land features and the water was compiled as the shoreline. The water level at the time of photography was 601.7 feet. Shoreline delineation was compiled as described in item 31 of this report.

36. OFFSHORE DETAIL

No offshore detail was located on this map.

37. LANDMARKS AND AIDS

There are no landmarks and aids within the limits of this map.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Refer to item 5 of NOAA Form 76-36B, which is bound with this Descriptive Report, for information on map junctions.

40. HORIZONTAL AND VERTICAL ACCURACY

This map meets the National Standards of Map Accuracy. For additional information, refer to the Aerotriangulation Report bound with this Descriptive Report.

41.through 45. - Not Applicable

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with the following 1:24,000-scale, U.S. Geological Survey quadrangles:

Vermilion, Michigan 1951 Sheephead Lake, Michigan 1951 Vermilion SE, Michigan 1951 Shelldrake, Michigan 1951, Photorevised 1975

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean Service nautical chart:

14962, 17th Edition (October 12, 1985), scale 1:120,000.

A Chart Maintenance Print indicating the results of the comparison was forwarded to the Marine Chart Branch, Rockville, Maryland. Refer to the print for items to be immediately applied and carried forward.

Submitted by,

Rick O. Johanson Cartographer

Approved and Forwarded:

John A. Mooney

Chief, Special Projects Unit

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8511 (Crisp Point to Nadoway Point, Lake Superior, MI)

TP-01395

Browns Creek

Browns Lake

McMullan Lakes

Shelldrake Lake

Shelldrake River

Superior, Lake

Twomile Lake

Vermillion

Vermillion Point

Weatherhogs Creek

Weatherhogs Lake

Widewaters, The

Approved:

Charles E. Harrington

Chief Geographer

Nautical Charting Division

FINAL REVIEW REPORT TP-01395

61. GENERAL STATEMENT

Refer to the Summary bound with this Descriptive Report.

- 62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS-None
- 63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with the following 1:24,000 scale U.S. Geological Survey quadrangles:

Shelldrake, Michigan 1951, Photorevised 1975 Vermilion SE, Michigan 1951 Vermilion, Michigan 1951 Sheephead Lake, Michigan 1951

- 64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS-None
- 65. COMPARISON WITH NAUTICAL CHARTS

14962, Scale 1:120,000, 17th Edition, dated October 12, 1985.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map meets the National Standards of Map Accuracy and requirements specified in the Project Instructions.

Submitted by,

James E. Schad Unit Reviewer

James & Schad

Approved for forwarding:

John a Morney Chief, Special Projects Unit

Approved:

Chief, Photogrammetric Production Section

Chief, Photogrammetry Branch

HAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIV	E REPORT OF	SURVEY NO.		
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INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected charr,
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
		- <u>-</u>	Drawing No.
			Full Date D. C. A.C. Market D. C. A.C. A.C.
			Full Part Before After Verification Review Inspection Signed Via
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 			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
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	 		Drawing No.
			<u> </u>