NOAA FORM 76-35 (6-80)

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

# DESCRIPTIVE REPORT

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Map No. TP-00441A, TP-00441B, and TP-00441C	Edition No.
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Job No.	
CM-7705	·
Map Classification	
Class III Final	
Type of Survey	
Shoreline	
LOCALIT	Y
State	
Michigan	
General Locality	
Lake Superior	
Locality	
Keweenaw Bay, Baraga, and L'ANS	Ε
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DATE	
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(3+72) NATIONAL OC	. S. DEPARTMENT OF COMMERCE	TYPE OF SURVEY	SURVEY TP. 00441	.A
	EANIC AND ATMOSPHERIC ADMIN.	M ORIGINAL		
		E ORIGINAL	MAP EDITION NO.	1
DESCRIPTIVE REPOR	RT - DATA RECORD	RESURVEY	MAP CLASS III FIN	IAL
,		REVISED	јов <b>ж</b> у СМ−77	<u>'05</u>
PHOTOGRAMMETRIC OFFICE		LAST PRECEED!	ING MAP EDITION	
Coastal Mapping Unit,	Norfolk VA	TYPE OF SURVEY	јов РН	
OFFICER-IN-CHARGE	NOTIOIR, VA	ORIGINAL	MAP CLASS	
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A. Y. Bryson, CDR		REVISED	19TO 19	
I. INSTRUCTIONS DATED		<u></u>		
1. OFF	FICE	2.	FIELD	·
Aerotriangulation	August 28, 1978	Photography	March 30, 1	977
Compilation	January 18, 1979	Control	April 11, 1	
Change No. 2	November 1, 1979	Change No. 1	June 16, 1	
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II. DATUMS		OTHER (Specific)		
1. HORIZONTAL:	1927 NORTH AMERICAN	OTHER (Specify)		
<u> </u>		OTHER (Specify)		
L	_] MEAN HIGH-WATER  T] MEAN LOW-WATER	International Grea	•	
2. VERTICAL:	MEAN LOWER LOW-WATER	(1955). Lake Super	rior Low Water	
1	MEAN SEA LEVEL	Datum.		
3. MAP PROJECTION		4. 0	GRID(S)	
Lambert Conformal Coni	· C	STATE	ZONE	
5. SCALE		Michigan STATE	North	
1::30,000		STATE	ZONE	
III. HISTORY OF OFFICE OPERATION	ONS .	<u> </u>	<del></del>	
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OPERA*		NAME	DATE	
OPERATION OPERATION		NAME B. Thornton	Oct. 19	79
	TIONS	B. Thornton D. Norman	Oct. 19 Oct. 19	79 179
I. AEROTRIANGULATION METHOD: Analytic 2. Control and bridge points	TIONS  BY  LANDMARKS AND AIDS BY  PLOTTED BY	B. Thornton D. Norman B. Thornton	Oct. 19 Oct. 19 Oct. 19	79 79 79
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		СОМ	TP-0044 PILATION S	OURCES		.,,,,	
. COMPILATION PH	OTOGRAPHY						
CAMERA(S) Wild RC-10 "	7 <sup>11</sup> (88, 72m	m)		PHOTOGRAPHY EGEND	<u> </u>	TIME REI	FERENCE
TIDE STAGE REFERE					ZONE		<del></del>
PREDICTED TIDE		ł	(C) COLOR		Cei	ntral	X STAND
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TIDE CONTROLLE	10 PHOTOGRAP	N.A.			90	<u>th</u>	
NUMBER AND		DATE	TIME	SCALE			OF TIDE
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Not appl		R MEAN LOWER LO		. <del></del>			
Not appl:	icable.		W-WATER LINE	ī:		<del></del>	
Not appl: . CONTEMPORARY SURVEY NUMBER	icable. HYDROGRAPHI	C SURVEYS (List on	W-WATER LINE	s that are sources	for photogra	<del></del>	
S. SOURCE OF MEAN  Not appl:  CONTEMPORARY  SURVEY NUMBER  FINAL JUNCTION:	icable.  HYDROGRAPHI  DATE(S)	C SURVEYS (List on	W-WATER LINE	s that are sources	for photogra	<del></del>	y information.)

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10AA FORM 76-36 3-72)			NIC AND ATMOSPHERI	
		0441A	NATION	IAL OCEAN SURVE
	HISTORY OF FIEL	LD OPERATIONS		
I. 🔀 FIELD INSP	ECTION OPERATION F	IELD EDIT OPERATION		
<del>-</del>	OPERATION		IAME	DATE
1. CHIEF OF FIEL	D PARTY	R. Tibbetts		Aug. 1979
	RECOVERED	L. Davis and	R. Tibbetts	Aug. 1979
2. HORIZONTAL (		\ <del>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</del>		Aug. 1979
	PRE-MARKED OR IDENTIFIED E	<del></del>	R. Tibbetts	Aug. 1979
·	RECOVERED E		100 ATOCCOCO	Aug. 1//
3. VERTICAL CON		f		
	PRE-MARKED OR IDENTIFIED E			+
<del>-</del>	RECOVERED (Triengulation Stations)	D 721.1 - 64-		<del> </del>
4. LANDMARKS A	, –	[		+
AIDS TO NAVIG		D mill	<del></del>	+
	TYPE OF INVESTIGATION	BY IN. ILUDGEES		+
5. GEOGRAPHIC N	NAMES COMPLETE			
INVESTIGATION		BY		
	NO INVESTIGATION	1		
6. PHOTO INSPEC		BY None	<del></del>	+
7. BOUNDARIES A	<del></del>			<del> </del>
II. SOURCE DATA	<del></del>	I III.a.Fi.		<del></del>
	CONTROL IDENTIFIED	2. VERTICAL CON	TROL IDENTIFIED	
PHOTO NUMBER	STATION, NAME	PHOTO NUMBER	STATION DE	SIGNATION
78Y(P) 4473	PEQUAMING 2, 1972			
78Y(P) 4472	BAY NO. 4, 1979			
8Y(P) 4474	BAY NO. 2, 1979			
/8Y(P) 4464	KEWEENAW POINT, NORTH BASE, 18	.71		
'8Y(P) 4485	KEWEENAW SOUTH BASE, 1871	' <sup>±</sup>		
8Y(P) 4475	L'ANSE MUNICIPAL WATER TANK, 1	954		
	RS (Clarification of details)			
# · · · · · · · · · · · · · · · · · · ·	no (Claimeanon or Garana)			
None				
<del></del>	ND AIDS TO NAVIGATION IDENTIFIED			<del></del>
₽НОТО NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
957 (D) 1/17E	TANCE SEPTEMBER TANCED CLASSES TO	]		
8Y(P) 4475	L'ANCE MUNICIPAL WATER TANK, 1	956		
		1		
!				
5. GEOGRAPHIC N	NAMES: REPORT X NONE		DLIMITS:   REPO	RT NONE
		6. BOUNDARY AND		

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

7 forms 76-53, 2 forms 76-86, 1 form 76-67, 5 forms 76-184, 7 forms 75-63, 2 forms 738, 1 form 76-102A, 2 forms 76-109.

FIELD INSPECTION OF	PERATION THE	D EDIT OPERATION		
	OPERATION	<del></del>		DATE
	OPERATION	<del> </del>	NAME .	PATE
. CHIEF OF FIELD PARTY	_	L. O. Netere	r. Jr.	May 1981
	RECOVERED BY	None		
. HORIZONTAL CONTROL	ESTABLISHED BY	None		
	PRE-MARKED OR IDENTIFIED BY	N.A	<del> </del>	
	RECOVERED BY	N.A	<del></del>	
VERTICAL CONTROL	ESTABLISHED BY	N.A		<del></del> _
	PRE-MARKED OR IDENTIFIED BY	L. O. Netere	r, Jr.	May 1981
	RECOVERED (Triangulation Stations) BY	L. O. Netere	r, Ir	May_1981
LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methods) BY			
	IDENTIFIED BY	ļ		<del></del> _
	TYPE OF INVESTIGATION			]
GEOGRAPHIC NAMES	COMPLETE BY SPECIFIC NAMES ONLY			<b>\</b> .
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	NO INVESTIGATION			{
			<del></del>	100
PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	L. O. Netere	r, Jr.	May 1981
BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	<u> </u>	<del></del>	
SOURCE DATA HORIZONTAL CONTROL I	DENTIFIED	12. VERTICAL CON	TROL IDENTIFIE	D
HOMEON AL CONTROL				_
HOTO NUMBER	ST A TION NAME	PHOTO NUMBER		DESIGNATION
PHOTO NUMBERS (Claritic	cation of details)	<u> </u>		<u> </u>
70 ~~/~> //~=				
78 Y(P) 4475	NAVIGATION IDENTIFIED			<del></del> -
	d and noted on Master Fiel	<del></del>	<del> </del>	
HOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJ	ECT.NAME
. GEOGRAPHIC NAMES:	REPORT X NONE	6. BOUNDARY AN	DI IMITS: DR	EPORT X NONE
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SUPPLEMENTAL MAPS A				
<del></del>	· · · · · · · · · · · · · · · · · · ·			
SUPPLEMENTAL MAPS AI	(Sketch books, etc. DO NOT list data submi			

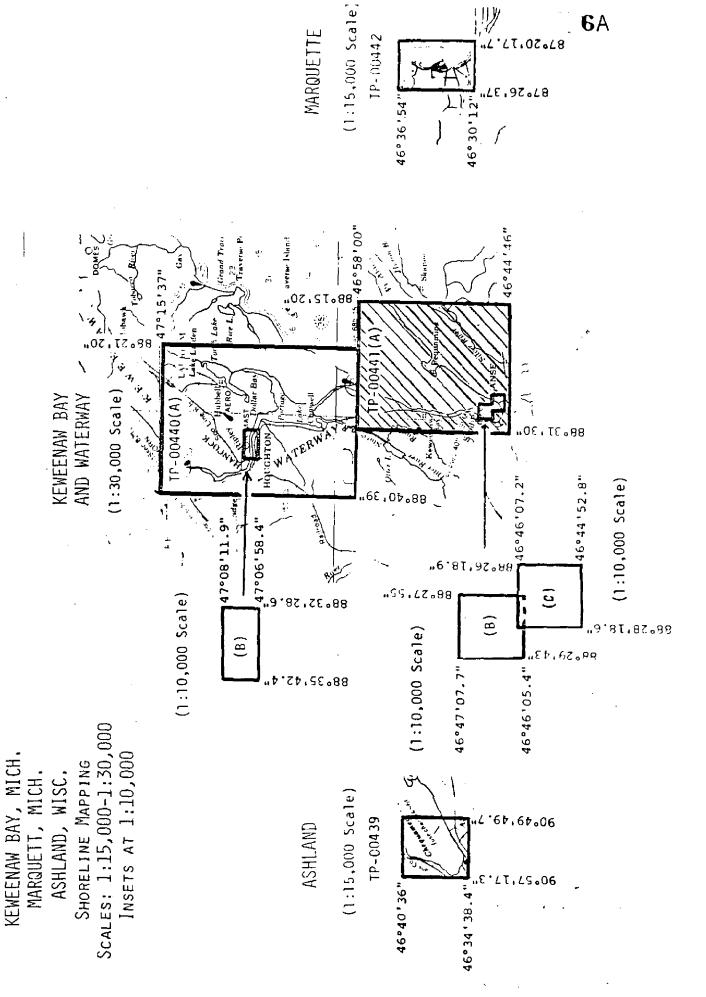
NOAA FORM 76-36D

U. S. DEPARTMENT OF COMMERCE

(3-72)		RECO	TP-00441A RD OF SURVE	A	EANIC AF		AUMINISTRATION
I. MANUSC	RIPT COPIES						
		OMPILATION STAGE	:5			DATE MANUSCRI	IPT FORWARDED
	DATA COMPILED	DATE	RE	MARKS		MARINE CHARTS	HYDRO SUPPORT
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	field edit L-Compilation	August 1982	Class III	manuscri RSEDED	ipt	······································	
Final F	Reviewed	Feb. 1984	Final Clas	ss III Ma	ар		
	ARKS AND AIDS TO NAVIGA						
	ORTS TO MARINE CHART D	IVISION, NAUTICAL	DATA BRANCH				
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1			Landmarks	s to be c	charted		
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2.	REPORT TO MARINE CHAR	T DIVISION COAST	OU OT BRANCH	DATE FORM	"ABNED	<del></del>	<del></del>
	REPORT TO MARINE CHAR REPORT TO AERONAUTICA	•			-		
1. 🔀 2. 🔜 3. 🗀	BRIDGING PHOTOGRAPHS; CONTROL STATION IDENTI SOURCE DATA (except for G ACCOUNT FOR EXCEPTION	X DUPLICATE IFICATION CARDS; Geographic Names Re NS: RDS CENTER. DAT	FORM NO	S 567 SUBMIT	TTED BY		
IV. SURVE	Y EDITIONS (This section s	shall be completed ex		p edition is re T		YPE OF SURVEY	
SECOND	TP .	_ (2) PH			REV		SURVEY
EDITION				□n.	□m.	□ıv. □v.	FINAL
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THIRD EDITION	DATE OF PHOTOGRAPI	_ (3) PH	ELD EDIT	<u> </u>	□ REVI	MAP CLASS	OFINAL .
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EDITION	DATE OF PHOTOGRAPI	HY DATE OF FI	IELD EDIT	1	σ	MAP CLASS	Π

KEWEENAW WATERWAY, MICH.

JOB CM-7705



# SUMMARY TO ACCOMPANY DESCRIPTIVE REPORTS

#### TP-00441A, TP-00441B, and TP-00441C

These three maps TP-00441A, 1:30,000 scale and its insets TP-00441B, 1:10,000 scale, and TP-00441C, 1:10,000 scale are part of project CM-7705, Keweenaw Waterway, Keweenaw Bay, Marquette Harbor, Michigan and Ashland, Wisconsin which consist of four maps and three insets.

This project is divided into three different geographic areas. Part I, Ashland Harbor, Chequamegon Bay, Lake Superior, Wisconsin, longitude 90°49'49.7" west to 90°57'17.3", latitude 46°34'38.4" north to 46°40'36". Part II, L'Anse, Michigan, latitude 46°44'46" to the north entrance of the Keweenaw Waterway, Michigan, latitude 47°15'37". Part III, Marquette Bay, Lake Superior, Michigan, latitude 46°30'12" north to latitude 46°36'54".

Field work prior to compilation which was accomplished in July 1978 involved the identification of horizontal control by Photoidentification methods to meet aerotriangulation requirements.

Photographs taken in May 1977 using the "E" camera with a focal length of 152.71 millimeters with panchromatic film at 1:20,000 scale and June 1978 with the "Y" camera with a focal length of 88.72 millimeters at 1:50,000 scale were provided to aerotriangulation for bridging.

Analytic aerotriangulation was performed at the Washington Science Center in October 1979.

Compilation was done at the Atlantic Marine Center with TP-00441A being compiled in July 1980 and TP-00441B and TP-00441C being compiled in April 1981.

Field edit accomplished during May 1981 consisted of a visual examination to check for completeness, to answer questions and to clarify details.

Field edit was applied as partial during September 1982 on TP-00441B, and TP-00441C and during November 1982 on TP-00441A at the Atlantic Marine Center. The map was kept as Class III since the edit was incomplete and no field checks for accuracy were made.

Final review was performed at the Atlantic Marine Center in February 1984. These three maps are to be registered together as one, as Final Class III Maps.

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

## FIELD INSPECTION

TP-00441A, TP-00441B, AND TP-00441C

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 Keweenaw, Michigan CM-7705 October 11, 1979

# 21. Area Covered

The area covered by this report extends from L'Anse Bay up to Lake Superior near Calumet. This area is covered by two 1:30,000 scale sheets; TP-00440 and TP-00441, including three insets which are at a scale of 1:10,000.

# 22. Method

Three strips of 1:50,000 scale black and white photography were bridged by analytic aerotriangulation methods. The strips of bridging photography were controlled by field identified control. Tie points were used in all strips to insure an adequate junction of all strips during the strip adjustments. Ratio photos of compilation photography was ordered.

# 23. Adequacy of Control

This office has often experienced problems in adjusting strips to ground control points in the Great Lakes area. Usually the problems are in the order of 10 to 15 feet and are well within the National Map Accuracy Standards but in this Great Lakes area our strip adjustments are not as good as in other areas.

In the Keweenaw part of this project, CM-7705, we were not able to resolve the control problem but fortunately we were able to omit the problem area.

Originally, strip 1 contained 14 photos with five control station. The north terminal for this strip was Calumet, 1939. In the strip adjustment, the two sub points for Calumet differed by 24 feet. When using sub point #1 of Calumet, the next control station in the strip, Torch Lake, 1935 was off by about 16 feet. If sub point #2 of Calumet was held, Torch Lake was off by 33 feet. Note that in mensuration, the image of Calumet sub point #1 could not be positively identified, but the image of sub point #2 could be positively identified.

This office requested additional control identification by a field party. Two sub points were identified for Section Corner (Glo Mich. GS) 1934. These sub points would not fit in the adjustment. They were both off by at least 1200 feet.

The control discrepancy could not be resolved. It was decided to delete the 3 photos at the north end of the strip that covered Calumet and Section Corner. This left sufficient photo coverage for shoreline compilation. The remainder of strip #1 and the other two strips in this Keweenaw area fit quite well with the ground control.

# 24. Supplemental Data

USGS quadrangles were used to provide vertical control for the adjustment.

# 25. Photography

The coverage, overlap, and quality of the photography was adequate for the job.

Submitted by,

Brian Thornton

Approved and Forwarded by:

Don O. Norman

Don O. Norman

Chief, Aerotriangulation Section

# KEWEENAW BAY, MICHIGAN CM-7705

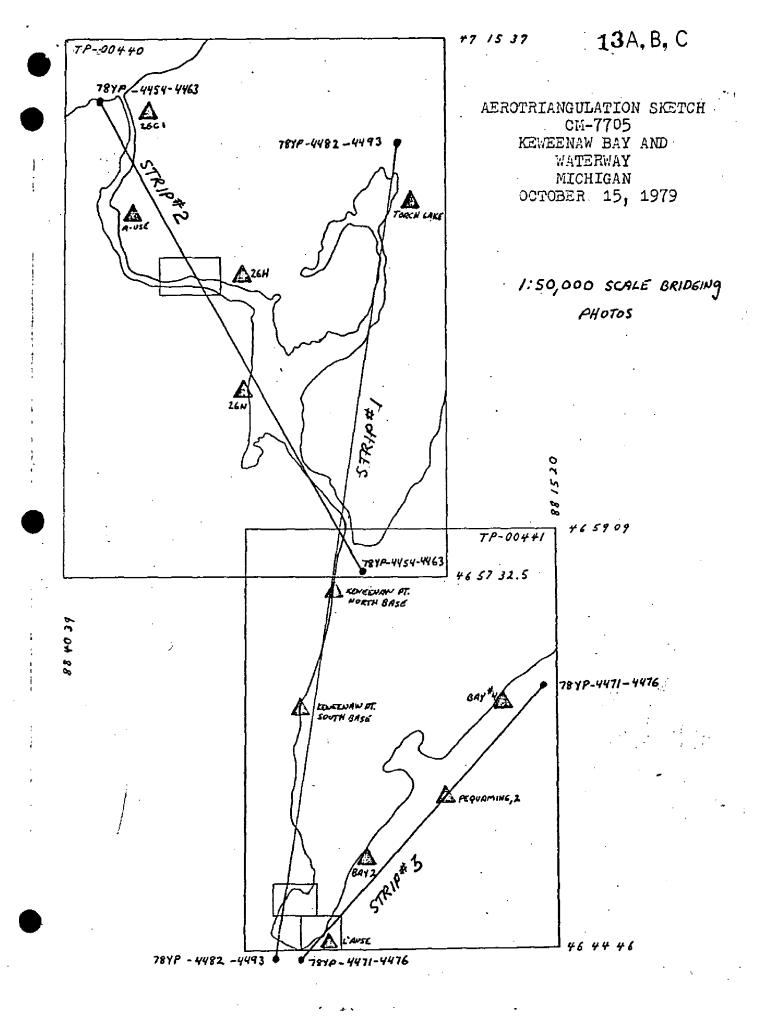
# FIT TO CONTROL X AND Y VALUES IN FEET

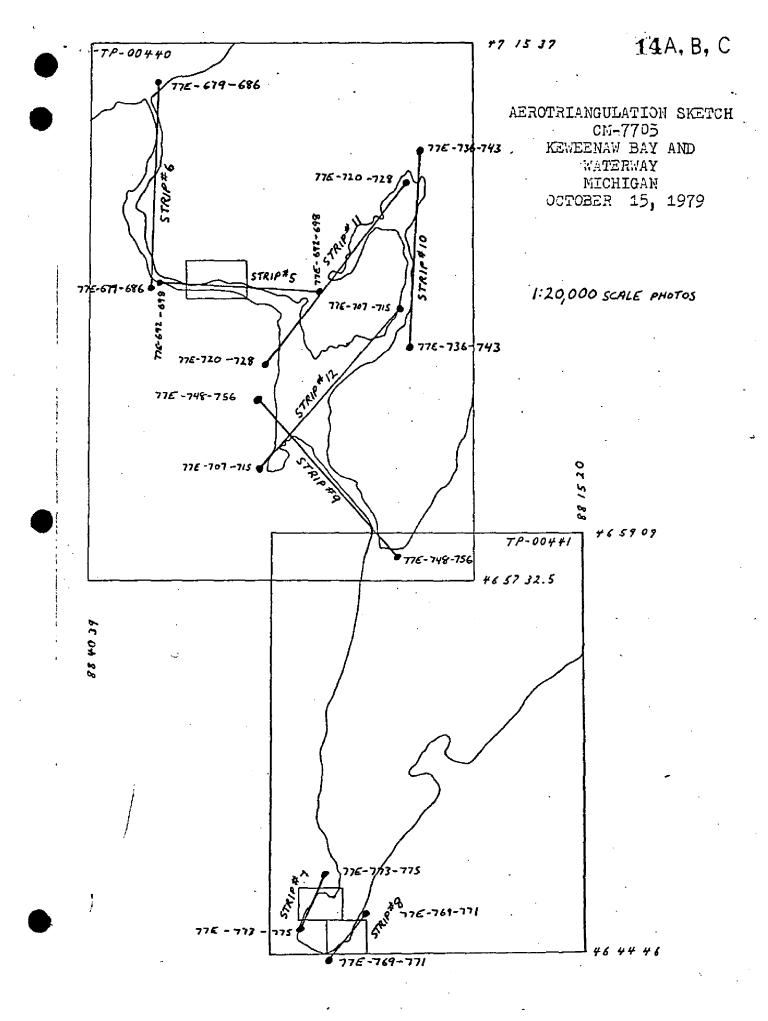
NAME		POINT NO.	X ERROR	Y ERROR
STRIP 1				
Lanse Muni. W.T., 1956	Sub Pt A Sub Pt B	482100 482101 482102	1.118 -2.695 0.000	-0.772 -4.495 0.000
Keweenaw Pt. South Base U	SLS Sub Pt A Sub Pt B	485101 485102	-2.198 -1.133	3.744 4.353
Keweenaw Pt. North Base U	SLS, 1871 Sub Pt	487101	0.000	0.000
Torch Lake, 1935	Sub Pt A Sub Pt B	493101 493102	0.001 0.579	0.004 -0.290
STRIP 2				
26 C1, 1934	Sub Pt A Sub Pt B	454101 454102	-2.347 3.273	2.532 1.302
A-USE, 1934	Sub Pt A Sub Pt B	456101 456102	-1.905 -3.055	3.048 -3.388
26 Н, 1934	Sub Pt A	458101	-1.369	1.904
26 N (MGS), 1934	Sub Pt A Sub Pt B	459101 459102	1.744 2.235	
Keweenaw Pt. North Base USLS, 1871	Sub Pt	487101	-0.592	-0.501
STRIP 3				
Bay No. 4, 1979	Sub Pt A Sub Pt B	472101 472102	-0.107 -0.079	-1.545 0.311

In . Regardance

NAME		POINT NO.	X ERROR	Y ERROR
Pequaming 2, 1972	Sub Pt A	473101	-0.079	-1.079
	Sub Pt B	473102	1.308	-4.944
Bay 2, 1979	Sub Pt A	474101	-0.004	1.301
	Sub Pt B	474102	-1.176	0.568
L'Anse Muni. W.T., 1956	Sub Pt A	482101	0.162	-0.534
	Sub Pt B	482102	-1.054	0.136

The control for this project is adequate for the job and is within the National Standards of Map Accuracy.





NOAA FORM 76-41 (6-75)		DESCRIPTIVE	VE REPORT CONTROL RECORD	)	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
MAP NO.	JOB NO.		GEODETIC DATUM		1
TP-00441A	CM-7705			Coastal Mapping	ing Div., AMC
	SOURCE OF	AEROTRI-	4	POSITION	
STATION NAME	INFORMATION (Index)	ANGULATION POINT NUMBER	state Mitchigan	φ LATITUDE λ LONGITUDE	REMARKS
100 100 100 100 100 100 100 100 100 100	460881		±χ.	\$ 46°55'19.808"	
26 UC(MGS), 1934	Page 1023	55	y=	λ 88 <sup>0</sup> 29'02,550"	
	460881		χ=	\$ 46°54'02.703"	
26 V (MGS), 1934	Page 1024	57	<i>y=</i>	λ 88 <sup>0</sup> 28'37.456"	
	460881		=χ	\$ 46°53'51.780"	
26 W (MGS), 1934	Page 1025	58	y=	λ 88°28'38.974"	
	460881	o u	-χ	\$ 46°53'17.729"	
26 X (MGS), 1934	rage 1020	60	j-	λ 88°28'48.800"	
BARAGA MICHIGAN CONSERVATION	NO NO		-χ	\$ 46 <sup>0</sup> 47'46.674"	
000000000000000000000000000000000000000	Page 1010	62	<i>η</i> =	λ 88 <sup>0</sup> 30'25.645"	
	460881	487100	=X	\$ 46°56'47.944"	
BASE (USLS), 10/1	Page 1007		ή=	λ 88 <sup>0</sup> 26'58,865"	
L'ANSE STATE HWY. PATROL	188095		χ=	\$ 46 <sup>0</sup> 44'54.98"	
KADIO IOWEK, 1930	Page 1019	64	<i>y</i> =	λ 88°26'17.14"	!
KEWEENAW POINT SOUTH	460881	7.851.00	χ=	\$ 46°52'17.693"	
BASE (USLS), 1871	Page 1008	462100	<i>y</i> =	λ 88 <sup>0</sup> 29'16.161"	
KEWEENAW POINT SOUTH BASE	460881		-χ	\$ 46 <sup>0</sup> 52'17.685"	
SIA.	Page 1008		<i>y</i> =	λ 88°29'15.797"	
	460881		χε	\$ 46°50'07.24720"	
PEQUAMING 2, 1972	Page 1010		y=	λ 88°21'12.79530	
Computer BY L. Williams		12/4/79	COMPUTATION CHECKED BY		DATE 12/4/79
Listen Biliams		12/4/79	LISTING CHECKED BY J. Moler		DATE 12/3/79
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE. Page 1 of 3

NOAA FORM 76-41 (6-75)		DESCRIPTIVE	E REPORT CONTROL RECORD	1.	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
MAP NO.	JOB NO.			ORIGINATING ACTIVITY	LIVITY
TP-00441A	CM-7705		N.A. 1927	Coastal Mapping	pping Div., AMC
STATION NAME	SOURCE OF	AEROTRI- ANGULATION	COORDINATES IN FEET STATE MICHICAN	GEOGRAPHIC POSITION	REMARKS
	(Index)	POINT	ZONE NORTH	A LONGITUDE	
L'ANSE, MUNICIPAL WATER	460881	482100	±χ	\$ 46°45'17,99"	
TANK, 1956	Page 1018	63	j,≃	λ 88 <sup>0</sup> 27'25.45"	
	460881		÷χ.	φ 46°53'08.579"	
TOM (MGS), 1934	Page 1014		<i>γ</i> ≈	λ 88 <sup>0</sup> 28'49.812"	
	460881		≈X	\$ 46°45'30.20"	
BENDERY (USLS), 1865	Page 1029		ye.	λ 88 <sup>0</sup> 27'20.03"	
PEQUAMING, FORD CO., LUMBER	460881		<i>≈</i> χ	φ 46°51'09.336"	
MILL, SHORT WATER TANK,	Page 1020		y:	λ 88°24'06.611"	
MING, FORD	460881		≄χ	\$ 46°51'08.408"	
MILL, TALL WATER TANK, 1939	Page 1021		<i>∦</i> =	λ 88 <sup>0</sup> 24'06.847"	
	460881		⇒χ	\$ 46 <sup>0</sup> 52'20.164"	
QUADUAMING (USLS), 1871	Page 1013		<i>y</i> ≈	λ 88 <sup>0</sup> 22'21.193"	
	460881		<i>≈</i> χ	φ 46 <sup>0</sup> 58'07.986"	
LIGHTHOUSE, 1939	Page 1017		<i>y</i> ≈	λ 88 <sup>0</sup> 25'51.561"	
,	460881		χ=	\$ 46 <sup>0</sup> 57'46.379"	
26T (MGS), 1934	Page 1022		<i>y</i> ≈	λ 88 <sup>0</sup> 29'50.548"	
NAW POIN	460881		<i>=</i> χ	\$ 46°54'31.59"	
BASE (USLS), 1871	Page 1031		j/≃	λ 88 <sup>0</sup> 28'10.73"	
	460881		-χ	\$ 46°51'05.30"	
AU VILLAGE (USLS), 1865	Page 10281		<i>y</i> ≈	λ 88°24'12.56"	!
COMPUTED BY		DATE 12/4/79	COMPUTATION CHECKED BY J. Moler		DATE 12/4/79
Listed BY L. Williams		DATE 12/3/79	LISTING CHECKED BY J. Moler		DATE 12/3/79
HAND PLOTTING BY L Williams			HAND PLOTTING CHECKED BY J. Moler		DATE 12/3/79
		SE	DES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE	ICH IS OBSOLETE.	4,

Page 2 of 3

NOAA FORM 76-41 (6-75)		DESCRIPTIV	PTIVE REPORT CONTROL RECORD		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
MAP NO.	T JOB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY	λII
TP-00441A	CM-7705		N.A. 1927	Coastal Mapping	ng Div., AMC
STATION NAME	SOURCE OF	AEROTRI- ANGULATION POINT	COORDINATES IN FEET STATE MICHICAN	GEOGRAPHIC POSITION	REMARKS
	(xepul)	NUMBER	ZONE NOKIH	A LONGITUDE	
	460881		-χ=	φ 46°52'19.796"	
QUAQUAMING 2, (MGS), 1934	Page 1013	: 	<i>y=</i>	λ 88 <sup>0</sup> 22'20.770"	
			x= 1,643,024.350	ф	
BAY 2, 1979			y= 739.112.390	γ	
			x= 1,672,606,140	ф	
BAY 4, 1979			y= 770.976.840	۲	
	460881		χ=	\$ 46°50'07.059"	
PEQUAMING, 1939	Page 1010		h=	λ 88°21'12.619"	
			-χ	ф	
			y=	γ	!
			χ=	ф	
			aĥ	۲	
			χ=	ф	· 4
			-ĥ	γ	
			-χ-	ф	
:		 	η	γ	
			=X	φ	
			<i>i</i> #≖	γ	
			<i>=</i> χ	ф	
			η=	~	
COMPUTED BY F. Margiotta		DATE 8/1/80	COMPUTATION CHECKED BY R. Kravitz		DATE 8/1/80
Listed BY F. Margiotta		871580	ı <b>–</b>		DATE 8/1/80
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE
		411PERSEDES N	THE PERSON OF TOWN 76.41 2-71 FOLTION WHICH IS OBSOLUTED	HIS OBSOLETE.	

Page 3 of 3

## COMPILATION REPORT

#### TP-00441A

## 31 - DELINEATION

Delineation was by the Wild B-8 stereoplotting instrument using June 1978, 1:50,000 scale photography. Photo coverage was adequate.

# 32 - CONTROL

Refer to the Photogrammetric Plot Report dated October 11, 1979.

# 33 - SUPPLEMENTAL DATA

None.

## 34 - CONTOURS AND DRAINAGE

Contours are not applicable. Drainage was delineated from office interpretation of the photographs.

# 35 - SHORELINE AND ALONGSHORE DETAILS

All details were delineated from office interpretation of the photographs.

## 36 - OFFSHORE DETAILS

No unusual problems.

## 37 - LANDMARKS AND AIDS

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

## 38 - CONTROL FOR FUTURE SURVEYS

None.

## 39 - JUNCTIONS

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

## 40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report dated October 11, 1979.

# 46 - COMPARISON WITH EXISTING MAPS

A comparison was made with U.S. Geological Survey Quadrangles: Keweenaw Bay, Michigan, 1954, scale 1:62,500; and Herman, Michigan, 1955, scale 1:62,500.

## 47 - COMPARISON WITH NAUTICAL CHARTS

dated June 9, 1979, scale 1:30,000.

## ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

## ITEMS TO BE CARRIED FORWARD

None.

F. Margiotta Cartographic Technician

July 1980

Approved,

Chief, Coastal Mapping Unit

# CM-7705 KEWEENAW WATERWAY FIELD EDIT REPORT TP-00441 A

## 51. METHOD

A visual inspection was made of the shoreline where ever it was accessible by car or by foot. Some areas were private property and were so posted with locked gates, and no attempt was made to get to the shoreline.

Notes were made on the Master Field Edit Print, photograph 78 YP 4475 and thirteen horizontal photographs taken by the field editor for clarification of the compilation.

## 52. ADEQUACY OF COMPILATION

The compilation was very good.

## 53. MAP ACCURACY

The horizontal placement of the compiled detail was very good. No statement about the vertical accuracy

#### 54. RECOMMENDATIONS

Field experience by the office compiler would help with photo interpretation in the office.

Photographs taken in the field by the field editor give and added dimension to field edit application.

# 55. EXAMINATION OF PROOF COPY

No statement.

Field Editor

Lowell O. Neterer June 18, 1981

#### REVIEW REPORT

## TP-00441A, TP-00441B AND TP-00441C

## 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. Quadrangles: Keweenaw Bay, Michigan, dated 1954; and Herman, Michigan, dated 1955. Both are 1:62,5000 scale.

## 64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

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

## 65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with NOS Chart: 14971, 17th edition, dated June 9, 1979, scale 1:30,000.

## 66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Submitted by.

Lowell O. Neterer, Jr.

Final Reviewer

Lovell O. heter

Approved for forwarding,

Billy H Barne

Billy H. Barnes

Chief, Photogrammetric Section, AMC

Approved,

Chief Photogrammetric Section, Rockville

Chief, Photogrammetry Branch

Rockville

# GEOGRAPHIC NAMES FINAL NAMESSHEET PH-7707 (Keweenaw Waterway, Michigan) TP-00441

Abbaye Peninsula .

Arnheim

Assinins

Baraga

Echo Harbor

Falls River

Huron Bay

Kelsey Creek

Keweenaw Bay

Keweenaw Bay (locality)

Lake Superior

L'Anse

L'Anse Bay

Linden Creek

Little Carp Creek

Little Silver Creek

Pequaming

Pequaming Bay

Pequaming Point

Rock Beach Point

Sand Bay

Sand Point

Silver River

Soo Line (RR)

Zeba

Approved by:

Charles E. Harrington Chief Geographer

Nautical Charting Division

## DISSEMINATION OF PROJECT MATERIAL

CM-7705

## NATIONAL ARCHIVES/FEDERAL RECORDS CENTER

## JOB COMPLETION REPORT

Box:

NOAA Forms 76-40's 76-41's Computer Readouts 5 Field Editor Reports 1 Envelope 76-40's Field Copies Field Notebooks 76-52 76-109 2 Bound Notebooks containing Field Data 1 Bound Notebook containing Forms 76-109 Field Identified Contact Photos Field Data 1 U.P. Generating Co. Plan

1 Project Diagram (TP-00442) 1 Envelope with Control Photos

1 Project Diagram

## BUREAU ARCHIVES

Registered Copy of Each Map Descriptive Report of Each Map

## REPRODUCTION DIVISION.

8x Reduction Negative of Each Map

OFFICE OF STAFF GEOGRAPHER

Geographic Names Standard

HYDROGRAPHIC PARTY
GEODETIC PARTY
COMPLICATION ACTIVITY
FINAL REVIEWER
COAST PILOT BRANCH (See reverse for responsible personnel) AFFECTED 14971 CHARTS Ξ = = Ξ = = ORIGINATING ACTIVITY HYDROGRAPHIC PARTY METHOD AND DATE OF LOCATION (See Instructions on reverse side) V-Vis. 5-23-81 FIELD Ξ = = = Ξ : 1982 78 Y(P) 4483 4487 78 Y(P) 4473 78 Y(P) 4473 78 Y(P) 4476 78 Y(P) 4473 78 Y(P) 4473 U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION 6-18-78 6-18-78 6-18-78 6-18-78 6-18-78 6-18-78 6-1.8-78 Aug. OFFICE DATE 78 Y(P) The following objects. HAVE 🦳 HAVE NOT 💢 been inspected from seaward to determine their value as landmarks. D.P. Meters 11.535 11.916 06.847 06.611 11.3 27:7 21.7 145.1 140,1 459 588 LONGITUDE Lake Superior 28 30 24 24 24 24 27 MONETO ATTIMES AND OFFICE AND WARKS FOR CHARTS 88 88 88 88 88 88 88 N.A. 1927 0 POSITION D.M. Meters 05.300 08,408 09.336 05.244 44.3 10.2 1783 259.6 288.3 57.7 315 LATITUDE \ 94 56 77 51 51 51 51 DATUM 94 ۰ 94 94 46 94 94 94 -Michigan Show triangulation station names, where applicable, in parentheses) Short DESCRIPTION Record reason for deletion of landmark or aid to nevigation. SURVEY NUMBER TP-00441A (Pequaming Ford Co., Lumber Mill, Tank, 1939) (Pequaming Ford Co. Lumber Mill, Coastal Mapping Unit, Tall Water Tank, 1939) REPORTING UNIT AMC, Norfolk, Two Two CM-7705 JOB NUMBER Easterly of Westerly of Replaces C&GS Form 567 X TO BE CHARTED TO BE DELETED TO BE REVISED NOAA FORM 76-40 CHARTING TANK TANK STACKS STACKS STATUE TANK BARN

1

4 - Resection 8 - Sextant  A. Field positions* require entry of methodiocation 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 methodical	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	OFFICE 1. OFFICE IDENTIFIED 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  FIELD	INSTRUCTI	FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	F-0511 IONS DETERMINED AND/OR VERIFIED	OBJECTS INSPECTED FROM SEAWARD	TYPE OF ACTION
Enter 'V+Vis.' and EXAMPLE: V-Vis. 8-12-75  ***PHOTOGRAMMETRIC FIELD entirely, or in part, by photogrammetric mends.	s as follows: tric tric tric EXAMPLE: ified    III. TRIANGULAT   When a lan   Rec.¹ with   EXAMPLE:	FIELD (Cont'd) B. Photogram entry of date of f graph use EXAMPLE:	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,				RESPONSIBLE PERSONNEL
POSITIONS are dependent upon control established thods.	ION 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	<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>		☐ REVIEWER ☐ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE OFFICE ACTIVITY REPRESENTATIVE	☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER (Specify)	ORIGINATOR

NOAA FORM 78-40 (8-74)

1B of 10B

					<u> </u>	<u> </u>
NOAA FORM 76-36A (3-72) NATIONAL	U. S. DEPARTMENT OF COMMERCE OCEANIC AND ATMOSPHERIC ADMIN.	TYPE	OF SURVEY	SURVEY"	тр. <u>00441В</u>	
		<b>⊠</b> 0 F	RIGINAL	MAPEDITI	ои но.  — (Î	Ĺ
DESCRIPTIVE RE	PORT - DATA RECORD	] [] RE	ESURVEY	MAP CLASS	III FINA	Ł
		D RE	visEb	JOB 🖠	CM-7705	<u>;</u>
PHOTOGRAMMETRIC OFFICE		†	LAST PRECEEDI	NG MAP EDIT	ION	
C 1 Manustus Dései	rion Norfolk VA	TYPE	OF SURVEY		PH	_
Coastal Mapping Divi	SION, NOTIOIR, VA	<b>□</b> 0⊨	RIGINAL	MAP CLASS	;	
OFFICER-IN-CHARGE		D RE	SURVEY	SURVEY D	ATES:	
A. Y. Bryson, CDR	•	C) R€	VISED	19TO 19	·	
I. INSTRUCTIONS DATED		L	·	<del></del>		
1.	OFFICE		2, 1	TIELD		
Aerotriangulation	August 28, 1978	Photo	graphy	Marc	ch 30, 197	77
Compilation	January 18, 1979	Contr			11 11, 197	
Change No. 2	November 1, 1979		e No. 1		16, 197	
11. DATUMS						
I. HORIZONTAL:	X 1927 NORTH AMERICAN	OTHER (S	pecify)		<u></u> -	
	(A) 1927 NON THE MENTE AN	OTHER (S	nacify)	···-		
	MEAN HIGH-WATER	0. HEIN (3	pecity)	•		
2. VERTICAL:	MEAN LOW-WATER MEAN LOWER LOW-WATER		national Grea			
	MEAN SEA LEVEL	(1955	) Lake Super:	ior Low V	Mater Dati	ım
3. MAP PROJECTION			<b>4.</b> G	RID(S)		
		STATE		ZONE		
Lambert Conformal Co	nic	Michi	gan	North		
5. SCALE		STATE		ZONE		
1:10,000	ATIONS	<u></u>		L		
	ERATIONS		NAME		DATE	
1. AEROTRIANGULATION	BY	B. Tho	rnton _		Oct. 1979	9
METHOD: Analytic	LANDMARKS AND AIDS BY	D. Nor	man		Oct. 1979	
2. CONTROL AND BRIDGE POIL		B. Tho			Oct. 1979	
метнов: Coradomat	CHECKED BY	D. Nor			Oct. 1979	
3. STEREOSCOPIC INSTRUMENT		D. But			Feb. 1980	
COMPILATION INSTRUMENT: Wild B-8	CHECKED BY	J. Rod	erick		1460 TAO	
scale: 1:10,000		N.A.			<del> </del>	
4. MANUSCRIPT DELINEATION		D. But	ler		March 198	80
he .	CHECKED BY		Neterer, Jr.		April 198	
метноо: Smooth draf	CONTOURS BY	N.A.				
mainos Smooth diai	CHECKED BY	N.A.			1	<del></del> -
scale: 1:10,000	HYDRO SUPPORT DATA BY	D. But		<del></del>	March 198	
5. OFFICE INSPECTION PRIOR	TO FIELD EDIT BY		Neterer, Jr. Neterer, Jr.		April 198 April 198	
3. OF FICE INSPECTION PRIOR	IO LIEFD 6011 84	M. Moz			Aug. 1982	
6. APPLICATION OF FIELD ED		I. Per			Sept. 198	
7. COMPILATION SECTION REV			Neterer, Jr.		Feb. 1984	
8. FINAL REVIEW			\$7°		Ech 100	4
<b>.</b>	вү		Neterer, Jr.		Feb. 198	
9. DATA FORWARDED TO PHO	BY  TOGRAMMETRIC BRANCH BY	1.0.	Neterer, Jr.		Feb. 198	4
9. DATA FORWARDED TO PHOT  10. DATA EXAMINED IN PHOTOG  11. MAP REGISTERED - COASTA	FOGRAMMETRIC BRANCH BY		Neterer, Jr.			4

NOAA FORM 76-36B 3-72}	CON	TP-0044 IPILATION SO	1:B	U.S. DEPARTM IC AND ATMOSPHER NATION	
. COMPILATION PHOTOGRAPHY		<del></del>		<del></del>	
CAMERA(S)	,		PHOTOGRAPHY	TIME RE	FERENCE
Wild RC-8 "E" (152.71π	m.)	LE	GEND	ZONE	
PREDICTED TIDES N.A.		(C) COLÓR		Central	STANDARD
REFERENCE STATION RECORDS		(P) PANCHRO		MERIDIAN	
TIDE CONTROLLED PHOTOGRA	PHY N.A.	(I) INFRARE	. Б	90th	DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE	OF TIDE
77 E(P) 0773 - 0775	May25,1977	16:27	1:20,000	N.A.	
	}		1	,	
	j		· ·		
				,	
	1		Ì	1	
2. SOURCE OF MEAN HIGH-WATER  Mean high water 1  from the above listed  photographs which mark	ine is not a photographs,	and is def	ined as that	line visible	
	OR MEAN LOWER LO	W-WATER LINE:		<del></del>	
3. SOURCE OF MEAN LOW-WATER					
3. SOURCE OF MEAN LOW-WATER ( Not applicable.					
				·	·
					·

REMARKS This inset lies within the southwest corner of TP-00441A and joins it on all four sides.

SOUTH

5. FINAL JUNCTIONS

WEST

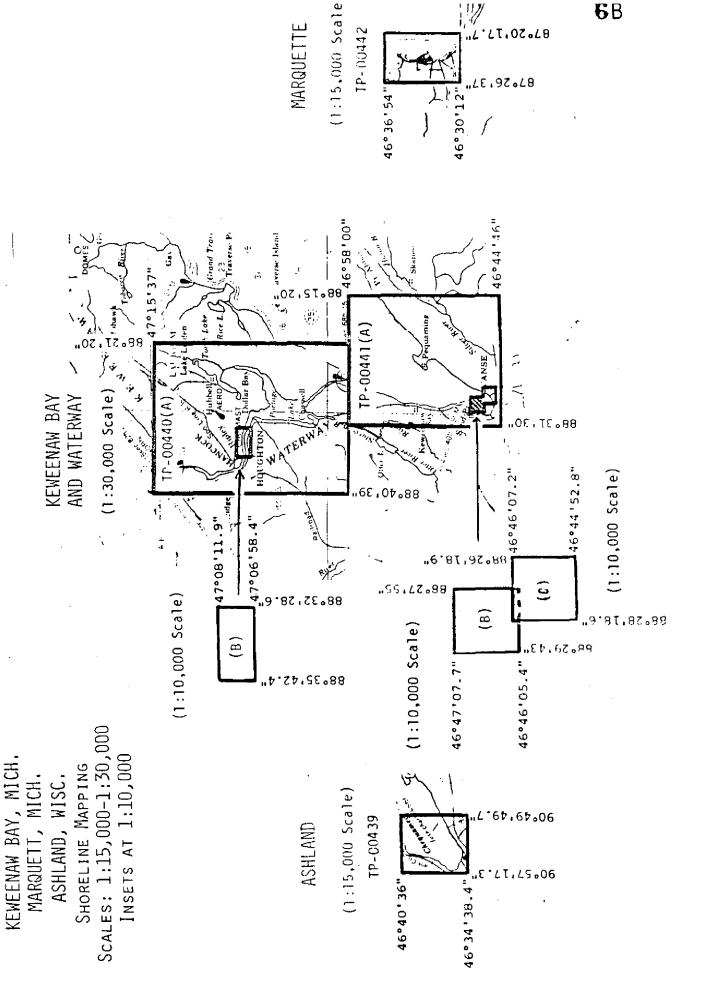
<b>-72</b> )	TP-00441 HISTORY OF FIELD	В	G AND ATMOSPHERIC NATIONA	NT OF COMMER ADMINISTRAT L OCEAN SURV
X FIELD INSPECTION OF	ERATION FIELD	EDIT OPERATION		
(	PERATION	NA	ME	DATE
CHIEF OF FIELD PARTY		R. Tibbetts		Aug. 1979
	RECOVERED BY	None	<del></del>	
HORIZONTAL CONTROL	ESTABLISHED BY	None		
	PRE-MARKED OR IDENTIFIED BY	None		
	RECOVERED BY	None		
VERTICAL CONTROL	ESTABLISHED BY	None		
	PRE-MARKED OR IDENTIFIED BY	None		
	RECOVERED (Triangulation Stations) BY	None		
LANDMARKS AND	LOCATED (Field Methods) BY	None		
AIDS TO NAVIGATION	IDENTIFIED BY	None		
	TYPE OF INVESTIGATION			
GEOGRAPHIC NAMES	COMPLETE BY			
INVESTIGATION	SPECIFIC NAMES ONLY			
_ <del>.</del>	X NO INVESTIGATION			<u> </u>
PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None		
BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.		
SOURCE DATA				
N.A.	DENTIFIED	2. VERTICAL CONT	ROL IDENTIFIED	
HOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESI	GNA TION
PHOTO NUMBERS (Clarific				
None  LANDMARKS AND AIDS TO				
None				
HOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT	IAME
GEOGRAPHIC NAMES:	REPORT NONE	6. BOUNDARY AND	LIMITS: REPOR	T X NONE
SUPPLEMENTAL MAPS AN	D PLANS		-	
None				
OTHER FIELD RECORDS	Sketch books, etc. DO NOT list data submit	ed to the Geodesy Divi	lsion)	
None				

NOAA FORM 76-36C (3-72)	TP-0044 History of Field	1B	NIC AND ATMOSPHERI	ENT OF COMMERC C ADMINISTRATIO AL OCEAN SURVE
1. TIELD INSPECTION OP	ERATION X FIEL	D EDIT OPERATION		
C	PERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		L. O. Neter	er. Jr.	May 1981
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None		
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	N.A. N.A.		
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY  LOCATED (Field Methods) BY  IDENTIFIED BY  TYPE OF INVESTIGATION	None		
5. GEOGRAPHIC NAMES INVESTIGATION	COMPLETE SPECIFIC NAMES ONLY NO INVESTIGATION			
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	L. O. Neter	er, Jr.	May 1981
7. BOUNDARIES AND LIMITS II. SOURCE DATA	SURVEYED OR IDENTIFIED BY	<u> </u>	<del></del> _	<del></del>
None	DENTIFIED	2. VERTICAL CON	ITROL IDENTIFIED	
3. PHOTO NUMBERS (Clarification) None				
4. LANDMARKS AND AIDS TO None	NAVIGATION IDENTIFIED			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
5. GEOGRAPHIC NAMES: 7. SUPPLEMENTAL MAPS AN	REPORT NONE	6. BOUNDARY AN	D LIMITS: REPO	RT [X] NONE
None  8. OTHER FIELD RECORDS (S  1 each Master Fie  1 each field sket	Sketch books, etc. DO NOT fist date submit ld Edit Ozalid		Ivision) Ld Edit Report	

NOAA FOR (3-72)	RM 76-36D			ATIONAL OCE	U, S ANIC AND A	TMOSPHERIC	ADMINISTRATION
,- ,-,		PECOI	TP-00441B RD OF SURVE	Y IISE			
		KECOI	ND OF SURVE	1 035			
1. MANUSC	RIPT COPIES				<del></del>		
	co	MPILATION STAGES	S T		DA	TE MANUSCRI	PT FORWARDED
	DATA COMPILED	DATE	RE	MARKS	MAR	INE CHARTS	HYDRO SUPPORT
	ation complete, g field edit	March 1980	Class III	Manuscri	pt		
Partia applie	l field edit d	August 1982	Class III	Manuscri	pt		
Final	Reviewed	Feb. 1984	Final Clas	ss III Ma	р		
	ARKS AND AIDS TO NAVIGA					<del></del>	
	ORTS TO MARINE CHART DI	IVISION, NAUTICAL	DATA BRANCH			_ <del></del> _	
PAGES NUORBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED		·····•	REMARKS		
1.			Aids to be	charted			_ <del></del>
1			Landmarks	to be ch	arted	·	
			<u> </u>				
			-	<del></del>			
2.	REPORT TO MARINE CHART	T DIVISION, COAST	PILOT BRANCH.	DATE FORW	ARDED:		
	REPORT TO AERONAUTICA					FORWARDED:	
III. FEDE	RAL RECORDS CENTER DAT	ΓA					<u>-</u>
	BRIDGING PHOTOGRAPHS;						
	CONTROL STATION IDENTI						
3. <u>[ X</u>	SOURCE DATA (except for G ACCOUNT FOR EXCEPTION		port) AS LISTED I	IN SECTION II	I, NOAA PURN	1 /6-36C.	
4 🗀	DATA TO FEDERAL RECO	RDS CENTER. DAT	E FORWARDED:				_
IV. SURV	EY EDITIONS (This section s	shall be completed ea	sch time a new mei	p edition is re	gistered)		
	SURVEY NUMBER	JOB NUMBE	i		_	OF SURVEY	
5ECOND	-475 00 BUOTOCDAD	(2) PH		1	REVISED		SURVEY
EDITION	DATE OF PHOTOGRAPI	HY DATE OF FI	KUD EDIT	□n.		AP CLASS	FINAL
	SURVEY NUMBER	JOB NUMBE	R		_	OF SURVEY	
THIRD	TP	_ (3) PH		]	REVISED	_	IURVEY
EDITION	DATE OF PHOTOGRAPI	HY DATE OF FI	ELD EDIT	<b>□</b>		AP CLASS	FINAL
	SURVEY NUMBER	JOB NUMBE	R		Pr	OF SURVEY	<del></del> -
FOURTH	TP					RES	ŮRVĖY
EDITION	DATE OF PHOTOGRAPI	HY DATE OF FI	ELD EDIT			AP CLASS	п.

KEWEENAW WATERWAY, MICH.

JOB CM-7705



NONE   Committee   None   No	JOB NO.   ACCRIPTIVE REPORT CONTROL RECORD     ACCORDING   ACCROTCH   ACCORDINATES IN FEET   GEOGRA     ACCORDINATES IN FORTION WHICH IN FORTION CHECKED BY     ACCORDINATES IN FOR	100 t = 0 000 00 40				3 ==	A PROPERTY OF CAMPACAGE
100 46   15   15   15   15   15   15   15   1	STATE   STAT	(6-75)		DESCRIPTIV	E REPORT CONTROL RECC		. VETAKIMENI UP COMMEKCE TMOSPHERIC ADMINISTRATION
N NAME	N NAME NAME NAME NUMBER   N.A. 1927   COSSEGLED Nappling Div.   COSSEGLED Nappling Div.	MAP NO.	JOB NO.		GEODETIC DATUM		/11.4
N NAME NAME NUMBER OF AREACRES OF A CONDOINATES IN FEET A LONGITUDE A LONGITUD	NAME   SOURCE OF   ACCORDINATES IN FEET   GEOGRAPHIC POSITION     NAMER   SONE	TP-00441B	CM-7705		N.A. 1927		
χ <sup>ε</sup> φ         χ           χ <sup>ε</sup> φ         γ           σ         γ         γ           σ         γ         γ           σ         γ         γ           σ         γ         γ           σ         γ         γ           σ         γ         γ           σ         γ         γ           σ         γ         γ           σ         γ         γ	$ \frac{\chi^{2}}{y^{2}} \qquad \qquad \frac{\varphi}{\lambda} $ $ \frac{y^{2}}{y^{2}} \qquad \qquad \frac{\varphi}{\lambda} $ $ \frac{y^{2}}{\lambda^{2}} \qquad \qquad \frac{\varphi}{\lambda} $ $ \frac{\varphi}{\lambda^{2}} \qquad \qquad \frac{\varphi}{\lambda^{2}} $ $ \frac{\varphi}{\lambda^{2}}$	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT	COORDINATES IN FEET STATE	GEOGRAPHIC POSITION  \$\phi LATITUDE \$\frac{1}{2} \text{TONOTHINDE}\$	REMARKS
χ=         λ           χ=         φ           λ=         γ           λ=         γ           λ=         γ           λ=         γ	χ²         λ           y²         y²           y²         y²      <	LANCA	15		χ=		
χ=         φ         φ           X=         φ         (4)           Y=         (4)	$\frac{\chi_{\pi}}{g^{\pi}} \qquad \qquad \frac{\varphi}{\lambda}$ $\frac{g^{\pi}}{g^{\pi}} \qquad \qquad \frac{\lambda}{\lambda}$ $g^$	NONE			y=	γ	
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	χ=         φ           χ=         φ           y=         λ				ĥ:	γ	
χ=         λ           y=         λ	$\frac{y=}{y=} \qquad \qquad \lambda$ $\frac{y=}{x=} \qquad \qquad \phi$ $\frac{y=}{y=} \qquad \qquad \lambda$				-χ	φ	
	$\frac{\lambda z}{y =} \qquad $			_	-ĥ	۲	
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	$ \frac{y=}{y=} \qquad \qquad$		···-		ń.	7	
	$ \frac{y=}{x=} \qquad \qquad \downarrow \lambda $ $ \frac{y=}{x=} \qquad \qquad \downarrow \phi $ $ \frac{y=}{y=} \qquad \qquad \lambda $ $ \frac{y=}{x=} \qquad \qquad \phi $ $ \frac{y=}{y=} \qquad \qquad \lambda $ $\frac{y=}{y=} \qquad \qquad \lambda $ $\frac{y=}{y=} \qquad \qquad \lambda$				χε	ф	
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DATE HAND PLOTTING CHECKED BY	DATE HAND PLOTTING CHECKED BY	LISTED BY		DATE	LISTING CHECKED BY		DATE
	SUPERSEDES NOAA FORM 76_41, 2_24 EDITION WHICH IS OBSOLETE.	HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE

#### COMPILATION REPORT

#### TP-00441B

#### 31 - DELINEATION

Delineation was by the Wild B-8 stereoplotfing instrument using 1:20,000 scale, May 1977, panchromatic photography. Quality and coverage was adequate.

## 32 - CONTROL

Refer to the Photogrammetric Plot Report dated October 11, 1979.

## 33 - SUPPLEMENTAL DATA

None.

# 34 - CONTOURS AND DRAINAGE

Contours are not applicable to the project. Drainage was delineated using the Wild B-8 stereoplotter and by office stereoscopic interpretation of the ratioed photographs.

# 35 - SHORELINE AND ALONGSHORE DETAILS

Alongshore details were delineated using the Wild B-8 stereoplotter and by office inspection of the ratioed photographs.

## 36 - OFFSHORE DETAILS

There were no offshore details.

## 37 - LANDMARKS AND AIDS

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

## 38 - CONTROL FOR FUTURE SURVEYS

None.

## 39 - JUNCTIONS

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

# 40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report dated October 11, 1979.

# 46 - COMPARISON WITH EXISTING MAPS

A comparison was made with U.S. Geological Survey Quadrangle: Keweenaw Bay, Michigan, 1954, scale 1:62,500.

## 47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with NOS Chart: 14971, 17th edition, dated June 9, 1979, Baraga Inset, scale 1:10,000.

## ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

# ITEMS TO BE CARRIED FORWARD

None.

Submitted by,

David Butler

Cartographic Technician

March 25, 1980

Approved,

James L. Byrd, Jr.

Chief, Coastal Mapping Unit

CM-7705 KEWEENAW WATERWAY FIELD EDIT REPORT TP-00441 B

- - - T<sub>u</sub> -

### 51. METHOD

A visual inspection of the shoreline was made by automobile and or by foot. Sand Point was inaccessible because of signs stating Private Property, No Trespassing.

Notes were made on the Master Field Edit Ozalid, a field sketch and four horizontal photographs taken by the field editor for clarification of the compilation.

# 52. ADEQUACY OF COMPILATION

The compilation was very good.

# 53. MAP ACCURACY

The horizontal placement of the compiled detail was very good. No statement about the vertical accuracy.

### 54. RECOMMENDATIONS

Field experience by the office compiler would help with photo interpretation in the office.

Photographs taken by the field editor gives the office compiler an added dimension to field edit application.

### 55. EXAMINATION OF PROOF COPY

No statement.

Field Editor

Lowell O. Neterer, Jr.

June 18, 1981

NOAA FORM 76-40	-40	and the state of t	MOKK ED	Sign-se to	D State of State	S. DEPART	U.S. DEPARTMENT OF COMMERCE	VECTOR SCHOOL	CTIVITY
Replaces C&GS Form 567.	Form 567.	-1.50	DHAMERS	MEGR CH	ARTS	ATMOSPHE	RIC ADMINISTRATION	HYDROGRAPHIC PARTY GEODETIC PARTY	ARTY
XTO BE CHARTED TO BE REVISED TO BE DELETED	RTED ISED ETED	ti cak	ď	LOCALITY	CALITY Lake Superior	r		E COMPILATION ACTIVITY FINAL REVIEWER GUALITY CONTROL& REVIEW GRP	RIVITY L & REVIEW GRP
The following	objects	The following objects HAVE X HAVE NOT been inspected from seaward to determine their value as landmarks	award to de	etermine the	ir value as	landmarks.		(See reverse for responsible personnel)	sible personnel)
			DATOM	N.A. 1927	.927	8-8	METHOD AND DATE OF LOCATION	ETHOD AND DATE OF LOCATION	
			LATI	LATITUDE	HONOITION	THOE	emonantem and	(apis esises in	CHARTS
CHARTING	Record r	Record reason for deletion of landmark or aid to navigation. Show triangulation stationnames, where applicable, in parentheses	•	// D.M. Meters		// // // D.P. Meters	OFFICE	FIELD	AFFECTED
LIGHT	Sand	Sand Point Light	25 95	0.5	88 27	<b>3</b> 8.8 1247	77 E(C) 773 5-25-77	V-Vis. 8+81	14971
TO THE REAL PROPERTY.	13 787	and otherwines or Athletes	: lowe:		Medical	MALLO CA	STATEDA RECON		."
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	LABE OF	VCJ104	Cale of the last	TE SESSI	MAG			ONION SOR	

	DSITIONS are determined by field obser- by based entirely upon ground survey methods.	*FIELD POSITIONS are determin vations based entirely upon
**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established	**PH	8-12-75
8-12-75	require entry of method of of field work.	sitions*
ے خے	Planetable III. Sextant	1 1
	Field identified Theodolite	ation 5 -
When a landmark or aid which is also a tri- angulation station is recovered, enter 'Triang. Rec.' with date of recovery.	data by symbols as follows: P - Photogrammetric Vis - Visually	Enter the applicable data by symbols  F - Field P - Photogrammet  L - Located Vis - Visually  V - Verified
TRIANGULATION STATION RECOVERED	R VERIFIED II.	TI. NEW POSITION DETERMINED OR VERIFIED
EXAMPLE: P-8-V 8-12-75 74L(C)2982	ن د د	EXAMPLE: 75E(C)6042 8-12-75
entry of date of	_	Enter the number and date (including month, day, and year) of the photograph used to
D (Cont'd)  B. Photogrammetric field positions** require	ATED OBJECTS   FIELD	OFFICE IDENTIFIED AND LOCATED OBJECTS
DD AND DATE OF LOCATION' ructions No. 64,	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE O (Consult Photogrammetric Instructions No. 64,	
REPRESENTATIVE		ACTIVITIES
QUALITY CONTROL AND REVIEW GROUP		FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW
OFFICE ACTIVITY REPRESENTATIVE	M. Mozgala	
FIELD ACTIVITY REPRESENTATIVE	B. Link	FOSTI IONS DETERMINED AND/OR VERIFIED
GEODETIC PARTY  OTHER (Specify)	B. Link	
X HYDROGRAPHIC PARTY		OBJECTS INSPECTED FROM SEAWARD
ORIGINATOR	NAME	TYPE OF ACTION
	RESPONSIBLE PERSONNEL	

NOAA FORM 70-40 (8-74)

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.	NONFLOATING AI	ING AIDS OR LANDMARKS FOR CHARTS	DMARKS	FOR CH	EANIC AND	S. DEPART ATMOSPHE	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION KS FOR CHARTS	ORIGINATING ACTIVITY  HYDROGRAPHIC PARTY	ACTIVITY
XTO BE CHARTED TO BE REVISED TO BE DELETED	REPORTING UNIT (Field Perty, Ship or Office) Coastal Mapping Unit, AMC. Norfolk, VA	Juit, Michigan	1 2000	LOCALITY	A byord	SLBMLIGG.	DATE		RIVITY BEVIEW COD
The following objects	HAVE X HAVE NOT	_ 21:	award to de	Lake	Lake Superior	T. landmarks.	May 1981		NCH
	05	TP-00441B	DATUM	N.A. 1927	127 ION	8-1	METHOD AND DATE OF LOCATION (See instructions on reverse side)	FE OF LOCATION	
CHARTING (Reco	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	or aid to navigation. applicable, in perentheses)	0	LATITUDE / // D.M.Meters	LONGITUDE	TUDE // // D.P. Meters	OFFICE	FIELD	CHARTS
SPIRE So	Southwest Corner Hwy. 3	38	97 97	44.0	88 29	30.4	77 E(P) 774 5-25-77	V-Vis. 5-23-81	14971
SPIRE SO	Southeast Corner on Hwy.	. 38	95 95	45.3	88 29	36.2	STATION BY	=	J.
CHIMNEY	8-12-32		97 97	39.99	88 29	38.60	Carried State of the State of t	=	Ξ
2	nd year) of the phate	act.			di si	01 619 PO			
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OGST OWN TO PLEE	at divinity control		NE OFFICE				HEAL		
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ANE	OF WCARRA		Secondin.	THE REAL PROPERTY.	TO SERVICE SER			GARCHY OF	

	EW POSITION DETERMINED nter the applicable dat P - Field Vis - Located Vis - Verified - Triangulation 5 - Traverse 6 - Intersection 7 -	OFFICE L. OFFICE IDENTIFIED 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  FIELD FIELD		FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	SUSH IONS DETERMINED AND/OR VERIFIED	OBJECTS INSPECTED FROM SEAWARD	TYPE OF ACTION
	s as follows: tric ified		INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE O (Consult Photogrammetric Instructions No. 64,		L. O. Neterer M. Mozgala	L. O. Neterer,	RESPONSIBLE PE
Enter 'V+Vis.' and date. EXAMPLE: V-Vis. 8-12-75  **PHOTOGRAMMETRIC FIELD POSIT entirely, or in part, upon by photogrammetric methods.	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a t angulation station is recovered, enter ' 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	THOD AND DATE OF LOCATION' Instructions No. 64,		Jr.	Jr.	PERSONNEL
' and date. 15. 2-75 FIELD POSITIONS are dependent part, upon control established ic 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>		REVIEWER     QUALITY CONTROL AND REVIEW GROUP     REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE	X PHOTO FIELD PARTY  HYDROGRAPHIC PARTY  GEODETIC PARTY  OTHER (Specify)	ORIGINATOR

NOAA FORM 78-40 (8-74)

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

10 or 100

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE	TYPE OF CHEVEY	supusu <b>-5</b> 00441C
NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	[ <u> </u>	SURVEY TP- 00441C
	M ORIGINAL	MAPEDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS III FINAL
	- REVISED	лов <b>жм.</b> _СМ-7705
PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP EDITION
Coastal Mapping Division, Norfolk, VA	TYPE OF SURVEY	JOB <b>Р</b> Н
OFFICER-IN-CHARGE	ORIGINAL D	MAP CLASS
	RESURVEY REVISED	SURVEY DATES:
A. Y. Bryson, CDR	i kernes	131013
I. INSTRUCTIONS DATED		
1. OFFICE	2.	FIELD
Aerotriangulation August 28, 1978	Photography	March 30, 1977
Compilation January 18, 1979	Control	April 11, 1978
Change No. 2 November 1, 1979	Change No. 1	June 16, 1978
II. DATUMS		
1. HORIZONTAL: X 1927 NORTH AMERICAN	OTHER (Specify)	
	OTHER (Specify)	
MEAN HIGH-WATER	1	t Lakes Datum, (1955)
2. VERTICAL: MEAN LOW-WATER  MEAN LOWER LOW-WATER	Lake Superior Low	•
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3. MAP PROJECTION	4.	GRID(S)
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5. SCALE 1:10,000	<del></del>	ZONE
5. SCALE 1:10,000  III. HISTORY OF OFFICE OPERATIONS  OPERATIONS  1. AEROTRIANGULATION  BY	NAME B. Thornton	DATE Oct. 1979
5. SCALE 1:10,000 III. HISTORY OF OFFICE OPERATIONS  OPERATIONS  1. AEROTRIANGULATION METHOD: Analytic Landmarks and aids by	NAME B. Thornton D. Norman	DATE Oct. 1979 Oct. 1979
5. SCALE 1:10,000  III. HISTORY OF OFFICE OPERATIONS  OPERATIONS  1. AEROTRIANGULATION METHOD: Analytic Landmarks and aids by 2. CONTROL AND BRIDGE POINTS PLOTTED by	NAME B. Thornton D. Norman B. Thorton	DATE Oct. 1979 Oct. 1979 Oct. 1979
5. SCALE 1:10,000  III. HISTORY OF OFFICE OPERATIONS  OPERATIONS  1. AEROTRIANGULATION METHOD: Analytic LANDMARKS AND AIDS BY METHOD: Coradomat CHECKED BY	NAME B. Thornton D. Norman B. Thorton D. Norman	DATE Oct. 1979 Oct. 1979 Oct. 1979 Oct. 1979
5. SCALE 1:10,000  III. HISTORY OF OFFICE OPERATIONS  OPERATIONS  1. AEROTRIANGULATION METHOD: Analytic LANDMARKS AND AIDS BY METHOD: Coradomat CHECKED BY  3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	NAME B. Thornton D. Norman B. Thorton	DATE Oct. 1979 Oct. 1979 Oct. 1979
5. SCALE 1:10,000  III. HISTORY OF OFFICE OPERATIONS  OPERATIONS  1. AEROTRIANGULATION METHOD: Analytic LANDMARKS AND AIDS BY  2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY  3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY	NAME B. Thornton D. Norman B. Thorton D. Norman D. Norman	DATE Oct. 1979 Oct. 1979 Oct. 1979 Oct. 1979 Feb. 1980
5. SCALE 1:10,000  III. HISTORY OF OFFICE OPERATIONS  OPERATIONS  1. AEROTRIANGULATION METHOD: Analytic LANDMARKS AND AIDS BY  2. CONTROL AND BRIDGE POINTS METHOD: Coradomat CHECKED BY  3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:10,000 CHECKED BY	NAME B. Thornton D. Norman B. Thorton D. Norman D. Roderick N.A. N.A.	DATE Oct. 1979 Oct. 1979 Oct. 1979 Oct. 1979 Feb. 1980 Feb. 1980
5. SCALE 1:10,000  III. HISTORY OF OFFICE OPERATIONS  OPERATIONS  1. AEROTRIANGULATION METHOD: Analytic Landmarks and aids by  2. Control and bridge points METHOD: Coradomat CHECKED by  METHOD: Coradomat PLANIMETRY BY COMPILATION CHECKED BY  INSTRUMENT: Wild B-8 CONTOURS BY  SCALE: 1:10,000 CHECKED BY  4. MANUSCRIPT DELINEATION PLANIMETRY BY	NAME B. Thornton D. Norman B. Thorton D. Norman D. Butler J. Roderick N.A. N.A. D. Butler	DATE Oct. 1979 Oct. 1979 Oct. 1979 Oct. 1979 Feb. 1980 Feb. 1980 March 1980
5. SCALE 1:10,000  III. HISTORY OF OFFICE OPERATIONS  OPERATIONS  1. AEROTRIANGULATION METHOD: Analytic Landmarks and AIDS BY  2. CONTROL AND BRIDGE POINTS METHOD: Coradomat CHECKED BY  3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:10,000 CHECKED BY  4. MANUSCRIPT DELINEATION CHECKED BY CHECKED BY CHECKED BY CONTOURS BY	NAME B. Thornton D. Norman B. Thorton D. Norman D. Butler J. Roderick N.A. N.A. D. Butler L. O. Neterer, Jr.	DATE Oct. 1979 Oct. 1979 Oct. 1979 Oct. 1979 Feb. 1980 Feb. 1980
5. SCALE 1:10,000  III. HISTORY OF OFFICE OPERATIONS  OPERATIONS  1. AEROTRIANGULATION METHOD: Analytic LANDMARKS AND AIDS BY METHOD: Coradomat CHECKED BY  3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:10,000 CHECKED BY  4. MANUSCRIPT DELINEATION CHECKED BY CHECKED BY CHECKED BY	NAME B. Thornton D. Norman B. Thorton D. Norman D. Butler J. Roderick N.A. N.A. D. Butler L. O. Neterer, Jr. N.A.	DATE Oct. 1979 Oct. 1979 Oct. 1979 Oct. 1979 Feb. 1980 Feb. 1980 March 1980
5. SCALE 1:10,000  III. HISTORY OF OFFICE OPERATIONS  OPERATIONS  1. AEROTRIANGULATION METHOD: Analytic LANDMARKS AND AIDS BY  2. CONTROL AND BRIDGE POINTS METHOD: Coradomat CHECKED BY  GOMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:10,000 CHECKED BY  4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY CONTOURS BY CHECKED BY	NAME B. Thornton D. Norman B. Thorton D. Norman D. Butler J. Roderick N.A. N.A. D. Butler L. O. Neterer, Jr. N.A.	DATE Oct. 1979 Oct. 1979 Oct. 1979 Oct. 1979 Feb. 1980 Feb. 1980 March 1980
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4. CONTEMPORARY H	YDROGRAP	HIC SUF	IVEYS (List o	nly those s	urveys that	are sources	or photogram	nmetric :	survey info	ormation.)
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5. FINAL JUNCTIONS							<del></del>		·	
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NOAA FORM 76-360 (3-72)		TP-00441	LC	AND ATMOSPHERIC	NT OF COMMERCE ADMINISTRATION L OCEAN SURVEY
I. X-FIELD INSP	ECTION OPER	ATION FIELD	DEDIT OPERATION	<u> </u>	
	OPE	RATION	NAI	ME	DATE
1 61115			,		
1. CHIEF OF FIEL	D PARIY		R. Tibbetts		July 1978
2. HORIZONTAL C	ONTRO	RECOVERED BY	R. Tibbetts None		July 1978
AL HORIZONTAL C	JATINUL	PRE-MARKED OR IDENTIFIED BY	R. Tibbetts		July 1978
		RECOVERED BY	None		5017 1770
3. VERTICAL CON	ITROL	ESTABLISHED BY	None	<del></del>	
		PRE-MARKED OR IDENTIFIED BY	None		<del>                                     </del>
· · · · · · · · · · · · · · · · · · ·	RF	COVERED (Triangulation Stations) BY	R. Tibbetts	······································	July 1978
4. LANDMARKS AN	ND	LOCATED (Field Methods) BY	None		
AIDS TO NAVIG	ATION	IDENTIFIED BY	R. Tibbetts		July 1978
		TYPE OF INVESTIGATION			
5. GEOGRAPHIC N		COMPLETE BY			
INVESTIGATION	1	SPECIFIC NAMES ONLY			ļ
<u> </u>		NO INVESTIGATION			
6. PHOTO INSPEC		CLARIFICATION OF DETAILS BY	None		ļ <u>.</u>
7. BOUNDARIES A	ND LIMITS	SURVEYED OR IDENTIFIED BY	N.A		<u> </u>
II. SOURCE DATA  1. HORIZONTAL C	ONTRO! IDE!	JT IE IE D	2. VERTICAL CONTE	OI IDENTIFIED	<u></u>
I HORIZONIAL C	OH TOUR			OL IDENTIFICED	
<del>                                     </del>			None		
78Y(P) 4475	L'ANSE N 1952	MUNICIPAL WATER TANK,	PHOTO NUMBER	STATION DESI	SMA HON
3. PHOTO NUMBE	RS (Clarificatio	on of details)	•		
None					
4. LANDMARKS A	ND AIDS TO NA	AVIGATION IDENTIFIED			
16 A					
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78Y(P) 4475	TANK				
5. GEOGRAPHIC N	IAMES:	REPORT NONE	6. BOUNDARY AND	IMITS: DOC	T Diese
7. SUPPLEMENTA			6. BOUNDARY AND I	IMITS: REPOR	T NONE
None					
8. OTHER FIELD	RECORDS (Ske	tch books, etc. DO NOT list data submit	ted to the Geodesy Divid	sion)	
1 Form 76-	53, 1 For	m 76-67.			

5. GEOGRAPHIC NAMES:

1 Field Report

7. SUPPLEMENTAL MAPS AND PLANS

1 each Master Field Edit Print 1 each photograph (by field editor)

REPORT

NONE

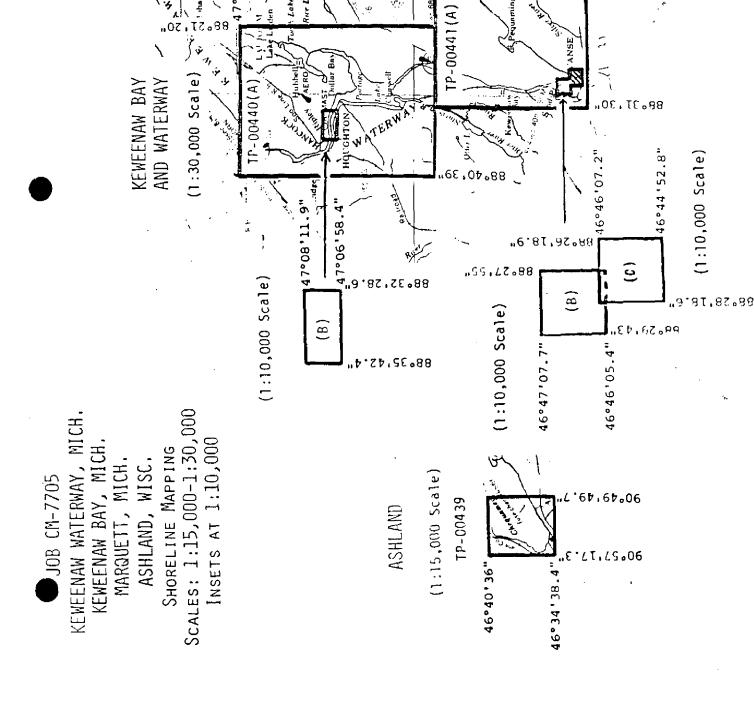
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

REPORT

X NONE

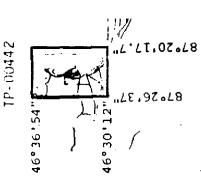
6. BOUNDARY AND LIMITS:

NOAA FOR (3-72)	₹M 76-36D				U. S. DEPARTMENT OF COMMERCE NIC AND ATMOSPHERIC ADMINISTRATION
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I. MANUSC	RIPT COPIES	· · · · · · · · · · · · · · · · · · ·			
		MPILATION STAGE	<del> </del>		DATE MANUSCRIPT FORWARDED
	DATA COMPILED	DATE		MARKS	MARINE CHARTS HYDRO SUPPORT
	ation complete, g field edit	March 1980	Class III   SUPERSE	manuscript EDED	
Partia applie	l field edit d	August 1982		manuscript EDED	
Final	Reviewed	Feb. 1984	Final Clas	s III map	
	ARKS AND AIDS TO NAVIGA				
	ORTS TO MARINE CHART D	IVISION, NAUTICAL	DATA BRANCH		
PAGES	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED		<del></del>	REMARKS
17.			Landmarks	to be char	ted.
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	REPORT TO MARINE CHAR	,			
	REPORT TO AERONAUTICA RAL RECORDS CENTER DAT		, AERONAUTICAL	. DATA SECTION	I. DATE FORWARDED:
1. <b>E</b> 2	BRIDGING PHOTOGRAPHS; CONTROL STATION IDENT SOURCE DATA (except for G ACCOUNT FOR EXCEPTION	X DUPLICATE IFICATION CARDS; Beographic Names Reposit	FORM NOS	S 567 SUBMITTE	
4. []	DATA TO FEDERAL RECO				
IV. SURVE	Y EDITIONS (This section s	shall be completed ea		a edition is regist	TYPE OF SURVEY
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	SURVEY NUMBER	JOB NUMBER			TYPE OF SURVEY
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NOAA FORM 76-41 (6-75)		DESCRIPTIV	F REPORT CONTROL REC	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ORD	U.S. DEPART	TMENT OF	COMMERCE JISTRATION
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ye s		DATE	HAND PLOTTING CHECKED BY		DATE		
		SUPERSEDES N	SUPERSEDES NOAA FORM 78-41, 2-71 EDITION WHICH IS OBSOLETE.	CH IS OBSOLETE.			

#### TP-00441C

### 31 - DELINEATION

Delineation was by the Wild B-8 stereoplotting instrument using 1:20,000 scale, May 1977 panchromatic photography. Coverage and quality was adequate.

## 32 - CONTROL

Refer to the Photogrammetric Plot Report dated October 11, 1979.

### 33 - SUPPLEMENTAL DATA

None.

#### 34 - CONTOURS AND DRAINAGE

Contours are not applicable to the project. Drainage was delineated using the Wild B-8 stereoplotter and by office stereoscopic interpretation of the ratioed photographs.

### 35 - SHORELINE AND ALONGSHORE DETAILS

Alongshore details were delineated using the Wild B-8 stereoplotter and by office inspection of the ratioed photographs.

### 36 - OFFSHORE DETAILS

There were no offshore details.

## 37 - LANDMARKS AND AIDS

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

# 38 - CONTROL FOR FUTURE SURVEYS

None.

#### 39 - JUNCTIONS

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

# 40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report dated October 11, 1979.

# 46 - COMPARISON WITH EXISTING MAPS

A comparison was made with U.S. Geological Survey Quadrangle: Keweenaw Bay, Michigan, 1954, scale 1:62,500.

# 47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with NOS Chart: 14971, 17th edition, dated June 9, 1979, L'Anse Inset, 1:10,000.

# ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

# ITEMS TO BE CARRIED FORWARD

None.

Submitted by,

David Butler

Cartographic Technician

March 18, 1980

Approved,

James L. Byrd, Jr.

Chief, Coastal Mapping Unit

CM-7705 KEWEENAW WATERWAY FIELD EDIT REPORT

مهوان جير

# 51. METHOD

A visual inspection of the shoreline was made by foot and automobile. Notes were made on the Master Field Edit Print, photograph 77EP 770 and 771 and one horizontal picture taken by the field editor for clarification of the compilation.

# 52. ADEQUACY OF COMPILATION

The compilation was very good.

# 53. MAP ACCURACY

The horizontal placement of the compiled detail was very good. No statement about the vertical accuracy.

## 54. RECOMMENDATIONS

Field experience by the office compiler would be a good aid in photo interpretation.

Photographs taken by the field editor are a good aid for field edit application.

### 55. EXAMINATION OF PROOF COPY

No statement.

Field Editor

Lowell O. Neterer, Jr.

May 26, 1981

NOAA FORM 76-40				7	000	n ch	S. DEPARTME	NT OF COMMERCE	ORIGINATING ACTIVITY	CTIVITY
Replaces C&GS Form 567	rm 567.	OATING AID	S OR LAND	MARKS	FOR CHA	RTS		NONFLOATING AIDS OR LANDMARKS FOR CHARTS	HYDROGRAPHIC PARTY GEODETIC PARTY PHOTO FIELD PARTY	ARTY STY
XTO BE CHARTED TO BE REVISED	REPORTING	office) .ng Unit	STATE	-	LOCALITY			DATE	COMPILATION ACTIVITY FINAL REVIEWER OUTLITY CONTROL & REVIEW GRP	TIVITY TREVIEW GR
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ope Project No.	JOB NUMBER	┰	SURVEY NUMBER DATUM	DATUM	ermine mer	20 anina a	Janamarks.			
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9	DESCRIPTION Record resean for dejetton of landmark or aid to navidation.	PTION Idmark or aid to na	vigetion.	LATITUDE	UDE //	입	T UDE	OFFICE	FIELD	AFFECTED
	Show triangulation station names, where applicable, in parentheses)	, where applicable,	in parentheses)	,	D.M. Meters	, /	D.P. Meters			
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OBJECTS INSPECTED FROM SEAWARD  FORMS ORIGINATED BY QUALITY CONTROL  AND REVIEW GROUP AND FINAL REVIEW  INSTRUCT	NAME  NAME  NAME  NAME	ORIGINATOR  ORIGINATOR  PHOTO FIELD PARTY  HYDROGRAPHIC PARTY  GEODETIC PARTY  OTHER (Specify)  FIELD ACTIVITY REPRESENTATIVE  OFFICE ACTIVITY REPRESENTATIVE  OFFICE ACTIVITY REPRESENTATIVE  REPRESENTATIVE  COCATION'
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		REPRES
INSTRUCT	71	TION'
OFFICE	FIELD (	
I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the bject.  EXAMPLE: 75E(C)6042 8-12-75	B. Photogram entry of date of f graph use EXAMPLE:	<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>
FIELD  I. NEW POSITION DETERMINED OR VERIFIED  Enter the applicable data by symbols as  F - Field  P - Photogrammetric	s as follows:   II. TRIANGULAT	ION STATION RECOVERED dmark or aid which is station is recovered.
ed Visied Visgulation 5 -	Rec.' with Rec. with EXAMPLE:	of recovery.  Rec. 75
tion 7 - n 8 -	III. POSITION V	ERIFIED VISUALLY ON PHOTOGRAPH
A. Field positions* require entry of location and date of field work. EXAMPLE: F-2-6-L	f method of EXAMPLE: V-V	75
8-12-75	entirely, or	IC FIELD POSITIONS are dependent in part, upon control established
*FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods.	- by photogramm	etric methods.

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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es C&G	Replaces C&GS Form 567.									PHOTO FIELD PARTY	7.7.
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CHARTING		Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses	rk or aid to m re applicable,	evigation. , in parentheses	•	// D.M. Meters	/ 0	// D.P. Meters	OFFICE	FIELD	
TANK	(L'Anse	nse Municipal Water	er Tank,	1956)	46 45	17,99	88 27	25.45	77 E(P) 770 5-25-77	V-Vis. 5-23-81	14971
CHIMNEY	Upper	r Peninsula Power	Сопрапу		46 45	20.05	88 27	19.60	77 E(P) 770 5-25-77	V-Vis. 5-23-81	14971
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	RESPONSIBLE PERSONNEL	DERSONNEL	
TYPE OF ACTION	NAME		ORIGINATOR
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OBJECTS INSPECTED FROM SEAWARD	L. O. Neterer,	Jr.	GEODETIC PARTY OTHER (Specify)
	L. O. Neterer,	Jr.	FIELD ACTIVITY REPRESENTATIVE
COST TONS DE LE RIMINED AND/OR VERTIFIED	M. Mozgala		OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES			THE REVIEWER  OUALITY CONTROL AND REVIEW GROUP  REPRESENTATIVE
4	INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE O (Consult Photogrammetric Instructions No. 64,	WETHOD AND DATE OF LOCATION' ic Instructions No. 64,	
OFFICE IDENTIFIED AND LOCATED OBJECTS	TED OBJECTS	-	mmetric 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, ograph used to ject.	entry of method of lo date of field work an graph used to locate EXAMPLE: P-8-V 8-12-75 74L(C)2982	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
I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols F - Field P - Photogrammet L - Located Vis - Visually V - Verified	OR VERIFIED ta by symbols as follows: Photogrammetric - Visually	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is angulation station is recovered Rec.' with date of recovery. EXAMPLE: Triang. Rec.	ON RECOVERED ald which is also a tri- is recovered, enter 'Triang. recovery. ec.
ation 5 -	Field identified Theodolite	8-12-75	
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sitions*	require entry of method of of field work.	EXAMPLE: V-VIS. 8-12-75	3
EXAMPLE: F-2-6-L 8-12-75		**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control establishe	<pre>IC FIELD POSITIONS are dependent in part, upon control established</pre>
*FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods.	d by field obser- round survey methods.	by photogrammetric 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.

# **RECORD OF APPLICATION TO CHARTS**

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

### **INSTRUCTIONS**

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Revi

CHART	DATE	CARTOGRAPHER	REMARKS
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