

TP-00440 A
TP-00440 B

NOAA FORM 76-35 (3-76)

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

DESCRIPTIVE REPORT

Map No.	Edition No.
TP-00440A & TP-00440B	1
Job No.	<u> </u>
CM-7705	
Map Classification	
CLASS_III(Final)	
Type of Survey	
SHORELINE	
LOCALIT	Y
State	
MICHIGAN	
General Locality	
LAKE SUPERIOR	
Locality	
KEWEENAW WATERWAY AND HO	UGHTON-HANCOCK
1977 TO 1	9 -
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REGISTRY IN AR	CHIVES
DATE	
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*U. S. GOVERNMENT PRINTING OFFICE:1976-669-248

INDEX DESCRIPTIVE REPORT TP-00440A & TP-00440B

TP-00440A

Forms 76-36 a, b, c (2), d

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Summary

Field Inspection

Photogrammetric Plot Report

Forms 76-41

Compilation Report

Geographic Names

Field Edit Report

Final Review Report

Forms 76-40s

TP-00440B

Forms 76-36 a, b, c (2), d

Page size sketch

Summary

-Field-Inspection-

-Photogrammetric Plot Report-

Ferms 765419

-Compilation Report

-Geographie Names

Field Edit Report

Final Review Report

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NOAA FORM 76-36A (3-72) NATIONAL	U. S. DEPARTMENT OF COMMERCE OCEANIC AND ATMOSPHERIC ADMIN	TYPE OF SURVEY	SURVEY TP. 00440A
	OCENTIC AND ATMOSPHERIC ADMIN	S ORIGINAL	MAP EDITION NO. $(^1)$
DESCRIPTIVE REP	ORT - DATA RECORD	RESURVEY	MAP CLASS III FINAL
		REVISED	лов Рн. <u>СМ-7705</u>
PHOTOGRAMMETRIC OFFICE		LAST PRECEED	ING MAP EDITION
Coastal Mapping Unit,	Norfolk, VA	TYPE OF SURVEY	JOB PH
		ORIGINAL	MAP CLASS
OFFICER-IN-CHARGE		RESURVEY	SURVEY DATES:
A.Y. Bryson		☐ REVISED	19TO 19
I. INSTRUCTIONS DATED			
1. 0	FFICE	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
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II. DATUMS		lature and a	
1. HORIZONTAL:	1927 NORTH AMERICAN	OTHER (Specify)	
		OTHER (Specify)	
	MEAN HIGH-WATER	International Gre	at Lakes Datum,(1955)
2. VERTICAL:	MEAN LOWER LOW-WATER	Lake Superior Low	
	MEAN SEA LEVEL		
3. MAP PROJECTION		4.	GR(D(S)
I a-bank Camformal C	lond o	STATE	ZONE
Lambert Conformal C	Conic		
5. SCALE	Conic	STATE	ZONE
5. SCALE 1:30,000		sıare Michigan	zone North
5. SCALE		sıare Michigan	North ZONE
5. SCALE 1:30,000 III. HISTORY OF OFFICE OPERA	TIONS RATIONS	STATE Michigan STATE NAME	North ZONE DATE
5. SCALE 1:30,000 III. HISTORY OF OFFICE OPERA OPE 1. AEROTRIANGULATION	TIONS RATIONS BY	Michigan STATE NAME B. Thornton	North ZONE DATE Oct.1979
5. SCALE 1:30,000 III. HISTORY OF OFFICE OPERA OPE 1. AEROTRIANGULATION METHOD: Analytic	TIONS RATIONS BY LANDMARKS AND AIDS BY	Michigan STATE NAME B. Thornton D. Norman	DATE Oct. 1979 Oct. 1979
5. SCALE 1:30,000 III. HISTORY OF OFFICE OPERA OPE 1. AEROTRIANGULATION METHOD: Analytic 2. CONTROL AND BRIDGE POIN	TIONS RATIONS BY LANDMARKS AND AIDS BY TS PLOTTED BY	NAME B. Thornton D. Norman B. Thornton	DATE Oct. 1979 Oct. 1979 Oct. 1979
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NOAA FORM 76-36B (3-72)		ም ብብ	AAOA NA	TIONAL OCS	U. EANIC AND	S. DEPA	RTMENT	OF COMMERCE
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1. COMPILATION PHOTOGRAPHY CAMERA(S)	<u></u>							
Wild RC-10 "Y" (88.72	mm)	TYPE	S OF PHO!	TOGRAPHY ND	1	TIME	E REFERI	ENCE
TIDE STAGE REFERENCE					ZONE		-	<u> </u>
\square predicted tides $\mathrm{N.A.}$		(C) CO	LOR NCHROMA	TIC	Cent	tral	_	STANDARD
REFERENCE STATION RECORD			RARED	,,,,	MERI			DAYLIGHT
TIDE CONTROLLED PHOTOGR				<u> </u>	70t			
NUMBER AND TYPE	DATE	TIMI		SCALE			AGE OF T	IDE
78Y (P) 4487 - 4493	June18,1978	14:	51	1:50,00	0 N.A	•		
70vv/n\ //s/ //60	Tum 010 1070	14:	12	1.50.00	O N.A			
78YY(P) 4454 ~ 4463	June18,1978	14:	12	1:50,00	U N.A	•		
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				3 E C E				
REMARKS Lake level at	time of photo	graphy '	was 600	J.56 fee	t, Lake	Super	rior Lo	ow Water
Datum, Marquette gage.								
2. SOURCE OF MEAN HIGH-WATE		·						
		Lia m	1 11 1				- 1 C	
Mean high water line i								
above listed photograp				Tine vi	sible of	n the	pnoto	grapns
which marks the contac	t between lan	d and w	ater.					
A COURCE OF MEAN A DW WATER	OR MEAN LOWER LA	N. W						
3. SOURCE OF MEAN LOW-WATER	OR MEAN LOWER LO	OW-WATER	LINE:					
Not applicable.								
								
4. CONTEMPORARY HYDROGRAP	HIC SURVEYS (7.1a) o	noly those si	uevava tha	AFA SOURCES	for photogra	mmetric :	suevas inf	ormution. }
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SURVEY NUMBER DATE(S)	SURVEY COF	Y USED	SURVEY	NUMBER	DATE(S)		SURVEY	COPY USED
			<u></u>				<u> </u>	
5. FINAL JUNCTIONS NORTH	EAST		SOUTH			WEST		
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No Survey	No Survey		TP-00	<u> 1441</u>		NO S	urvey	
	1 10 000 1.							
The map TP-00440B scal	e 1:10,000 11	es enti	rely w	ithin th	is map.			

NAME DATE etts July 1978 etts July 1978 etts July 1978
etts July 1978 etts July 1978
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AL CONTROL IDENTIFIED
MBER STATION DESIGNATION
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MBER OBJECT NAME
ARY AND LIMITS: TREPORT X NONE
odesy Division)

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-72) /		TP-00440 HISTORY OF FIELD	A	U.S.DEPARTME NIC AND ATMOSPHERIC NATION	C ADMINISTRAT AL OCEAN SUR
. [] FIELD INSP	ECTION OPER	ATION 3 FIELD	DEDIT OPERATION	(Partial)	
	OPE	ERATION		NAME	DATE
1. CHIEF OF FIEL	D DARTY				
T. CHIEF OF THE			L. Neterer,	Jr.	May 1981
	AUTO.	RECOVERED BY	None None		
2. HORIZONTAL C	CONTROL	ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None		
		RECOVERED BY	N.A.		
3. VERTICAL CON	ITROL	ESTABLISHED BY	N.A. /		
		PRE-MARKED OR IDENTIFIED BY	N.A.		
	RE	COVERED (Triengulation Stations) BY	L. Neterer,	Jr.	May 1981
4. LANDMARKS A	ND	LOCATED (Field Methods) BY	L. Neterer,	 _	May 1981
AIDS TO NAVIG	ATION	IDENTIFIED BY			
		TYPE OF INVESTIGATION]		
5. GEOGRAPHIC N		COMPLETE BY			
INVESTIGATION	N	SPECIFIC NAMES ONLY			}
		X NO INVESTIGATION			<u> </u>
6. PHOTO INSPEC		CLARIFICATION OF DETAILS BY	L. Neterer,	Jr.	May 1981
7. BOUNDARIES A		SURVEYED OR IDENTIFIED BY	N.A.		<u> </u>
II. SOURCE DATA 1. HORIZONTAL C		NTIFIED	2. VERTICAL CO	NTROL IDENTIFIED	
None			None		
PHOTO NUMBER		STATION NAME	PHOTO NUMBER	STATION DES	I GNATION
3. PHOTO NUMBE	RS <i>(Clarificati</i> e	on ol details)	<u> </u>	<u> </u>	
78 Y(P) 4454			,		
4. LANDMARKS AI	ND AIDS TO N	AVIGATION IDENTIFIED			
Visually ver	ified and	l noted on the Master Fie	ld Edit Prin	t.	
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
78Y(P) 4455	RAULEAU	POINT RANGE FRONT LIGHT			
5. GEOGRAPHIC	IAMES:	REPORT X NONE	6. BOUNDARY AN	D LIMITS: REPORT	
7. SUPPLEMENTA	L MAPS AND I		<u> </u>		
None				<u> </u>	
	d Edit Pr	tch books, etc. DO NOT list data submitting. int, Thirty-four picture			. Field

NOAA FORM 76-36D

U. S. DEPARTMENT OF COMMERCE

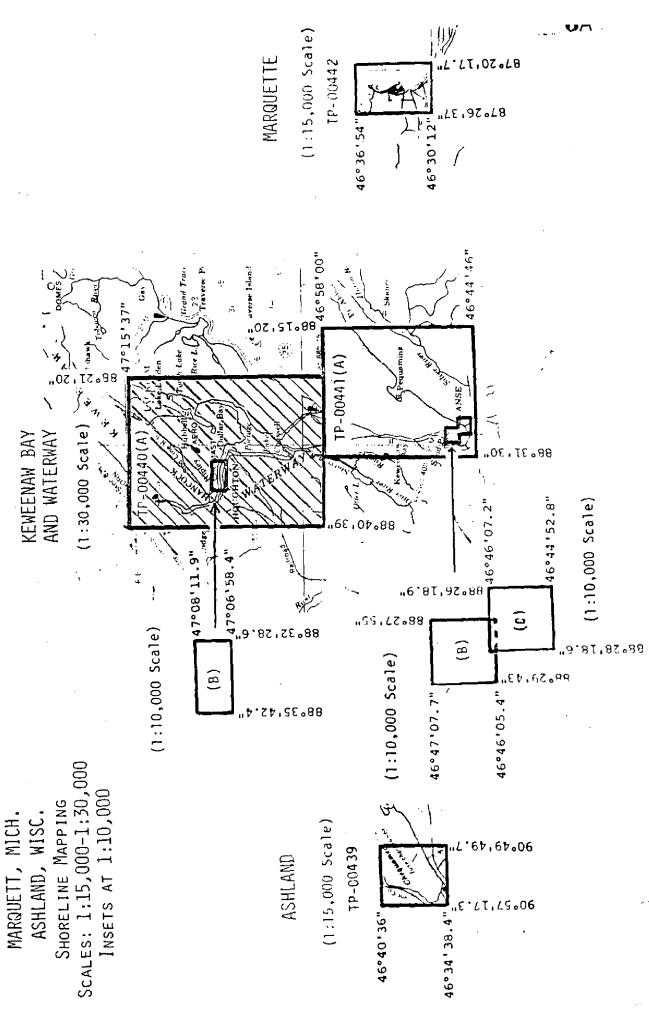
(3-72)		RECO	TP-00440A ORD OF SURVE		EANIC AN	D ATMOSPHERIC	ADMINISTRATION
I. MANUSC	RIPT COPIES		· · · · · · · · · · · · · · · · · · ·		•		
	Co	MPILATION STAG	ES			DATE MANUSCR	PT FORWARDED
	DATA COMPILED	DATE	RE	MARKS	N	ARINE CHARTS	HYDRO SUPPORT
pending	ation complete g field edit.	Oct. 1980	Class III Superseded		pt.		
i	Edit applied, ation complete	Sept. 1982	Class III Superseded				
Final 1	Reviewed	Jan. 1984	Final Clas	s III Ma	p		

	ARKS AND AIDS TO NAVIGA						
PAGES	ORTS TO MARINE CHART DI		L DATA BRANCH				
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED			REMAR	RK5	
1			Landmarks	to be c	harted	•	
1			Aids to b	e charte	:d		
							
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<u> </u>	REPORT TO MARINE CHART	DIVISION, COAS	<u> </u>	DATE FORW	VARDED: _	None	
	REPORT TO AERONAUTICA	· ·			_		
1. X 2. X	RAL RECORDS CENTER DAT BRIDGING PHOTOGRAPHS; CONTROL STATION IDENTI SOURCE DATA (except for G ACCOUNT FOR EXCEPTION	DUPLICAT FICATION CARDS	; FORM NO	S 76-40	TTED BY	FIELD PARTIES.	,
4 🗆	DATA TO FEDERAL RECOR	RDS CENTER. DA	TE FORWARDED:		 ,		
IV. SURVE	Y EDITIONS (This section s			p edition is re			
\$ECOND	TP -	JÖB NÜMB (2) PH	ER		TY	YPE OF SURVEY	URVEY .
EDITION	DATE OF PHOTOGRAPH	TY DATE OF	FIELD-EDIT	□n.	□ 111.	MAP CLASS	FINAL
	SURVEY NUMBER	ЈОВ ИЦМВ	ER	-		PE OF SURVEY	
THIRD	TP	(3) PH-			REVIS	ED RES	BURVEY
EDITION	DATE OF PHOTOGRAPH	DATEOF	FIELD EDIT		□ ≀n.	MAP CLASS	□ FINAL
	SURVEY NUMBER	JOB NUMB	ER		ΤY	PE OF SURVEY	
FOURTH	<u></u>	_ (4) PH			REVIS	SED RES	ORVĖY
EDITION	DATE OF PHOTOGRAPH	TATE OF F	FIELD EDIT	Π.,		MAP CLASS	_ [

M WATERWAY, MICH.

JOB CM-7705

KEWEENAW BAY, MICH



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORTS TP-00440A and TP-00440B

These two maps TP-00440A, 1:30,000 scale and its inset TP-00440B, 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 photo identification methods, to meet aerotriangulation requirements.

Photographic coverage was provided 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. Photographs were provided to aerotriangulation for bridging.

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

Compilation was performed at the Atlantic Marine Center in January 1980 from office interpretation of the May 1977 1:20,000 scale photography and the June 1978 1:50,000 scale photography.

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

Field edit was applied as partial during August 1982 at the Atlantic Marine Center. The map was kept as Class III since the edit was not complete and no field checks for accuracy were made.

Final review was performed at the Atlantic Marine Center in January 1984.

These two maps are to be registered together as one, as Final Class III maps.

This descriptive report is segmented in prescribed arrangement and contains all the pertinent information without duplication in the construction of these two maps.

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

FIELD INSPECTION

TP-00440A & TP-00440B

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 I 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.

TO THE SHAPE WITH STREET

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,

yaeus engan

Brian Thornton

Approved and Forwarded by:

Dor O. Norman

Don O. Norman

Chief, Aerotriangulation Section

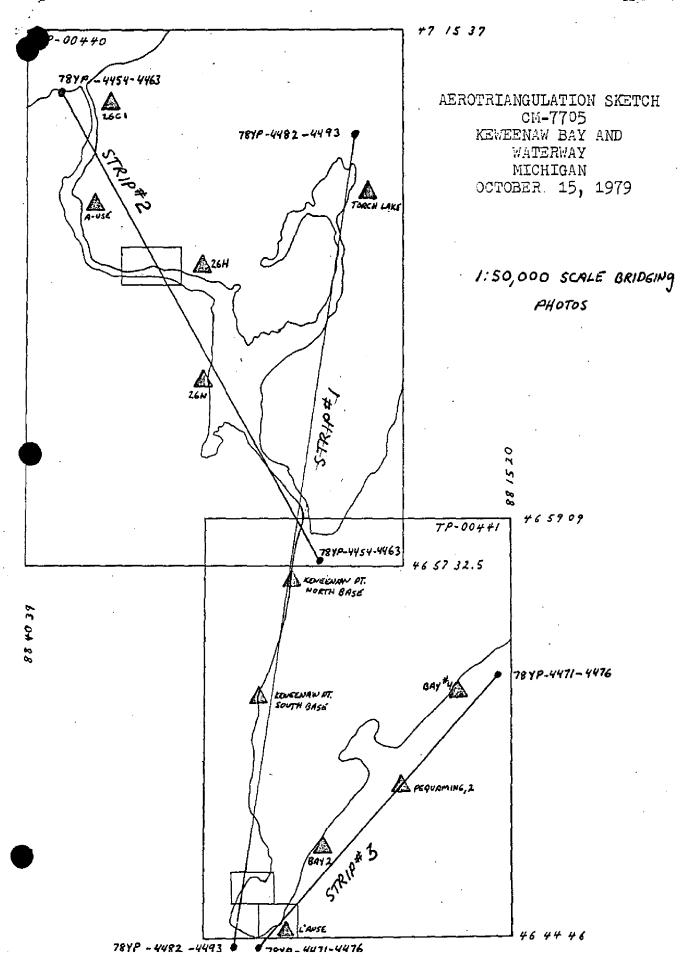
KEWEENAW BAY, MICHIGAN CM-7705

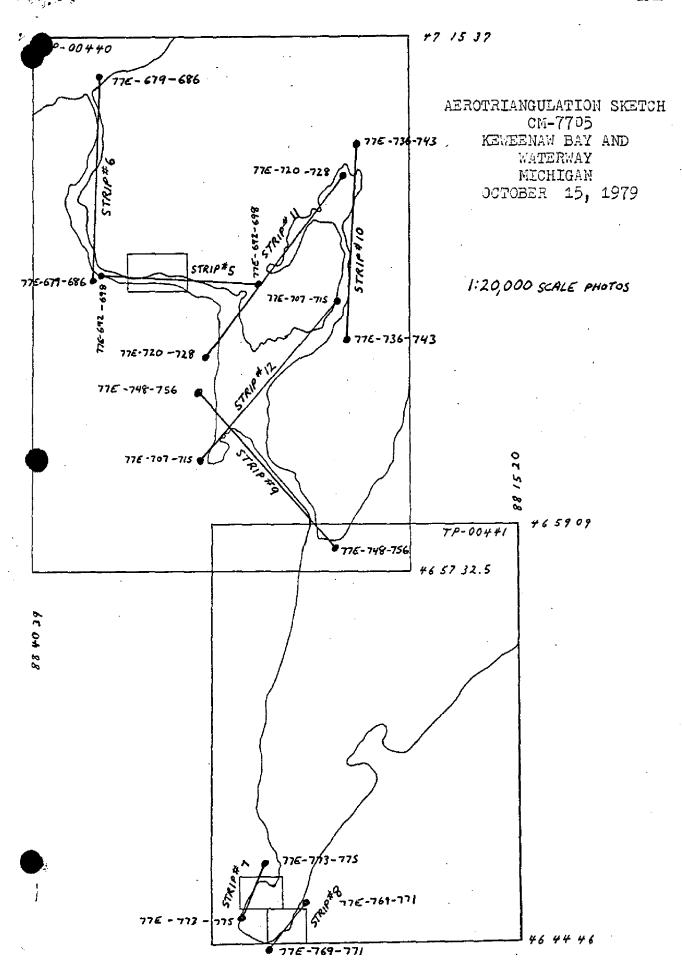
FIT TO CONTROL X AND Y VALUES IN FEET

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	JSLS Sub Pt A Sub Pt B	485101 485102	-2.198 -1.133	3.744 4.353
Keweenaw Pt. North Base U	JSLS, 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
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 H, 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	0.682 -1.665
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

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.





11 25 1 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -				5 17	POSSESSED TO THE POSSESSED OF THE POSSES
(6-75)		DESCRIPTIV	PTIVE REPORT CONTROL RECORD		NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY	ΙΤΥ
TP-00440A	CM-7705		N.A. 1927	Coastal Mapping	ng Unit, AMC
	ao a	AEROTRI-	15	GEOGRAPHIC POSITION	
STATION NAME	INFORMATION (Index)	ANGULATION POINT	state Michigan	\$ LATITUDE	REMARKS
				, ,	
(000) 204	470883	23	-2	47 00 07	
MCMT IU/ (MGS), 1934	rage 1041		<i>g</i> =	A 88~38'12.995"	
	470883		χ=	φ 47°09"51.265"	
B (USE - MGS), 1934	Page 1036		<i>й=</i>	λ 88 ⁰ 38'30.902"	
	470883		χ=	\$ 47°10'02.179"	
HIGH POINT (USE MGS), 1934			ĥ=	λ 88 ⁰ 38'05.463"	
	470883		=×	\$ 47°09'59.670"	
A (USE MGS), 1934	Page 1035	456100	h=	λ 88 ⁰ 38 ¹ 38,352"	
	470883		χ=	\$ 47°12'14.234"	
CANAL 26 B1 (MGS), 1934	Page 1038	20	j=	λ 88 ⁰ 38'03.287"	
	470833		=χ		
26 Cl, (MGS), 1934	Page 1018	454100	y=	λ 88 ⁰ 37'41.283"	
	7.70882		zχ	\$ 47°10'52.208"	
TORCH LAKE; (MGS), 1935	Page 1024	493100	μ	λ 88 ⁰ 22'45.895"	
CALUMET FIRE LOOKOUT	470882		=χ	φ 47 ⁰ 15'03,258"	
TOWER (MGS), 1934	Page 1001	494100	<i>ή=</i>	λ 88 ⁰ 24'36.130"	
	470832 4		=X	\$ 47°15'03.041"	
CALUMET, 1939	Page 1001	14	<i>η</i> =	λ 88°24'36.423"	
CREBASSA LATITIDE	460881		=χ	\$ 46°58'40.82"	
POST (USLS)	Page 1030		[<i>h</i> =	\ \ 88 ⁰ 24'53.01"	
COMPUTED BY J. Moler		DATE 12/30/79	COMPUTATION CHECKED BY L. Williams		DATE12/4/79
Listed BY J. Moler		11/30/79	LISTING CHECKED BY L. WILLIAMS		DATE12/3/79
HAND PLOTTING BY J. Moler		DATE 12/17/79	HAND PLOTTING CHECKED BY C. Blood		DATE 12/17/79
		SUPERSEDES N	SUPERSEDES NOAA FORM 78-41, 2-71 EDITION WHICH IS OBSOLETE.	Dags 3 of	'

Page 3 of 4

NOAA FORM 76-41 (6-75)		DESCRIPTIV	PTIVE REPORT CONTROL RECORD]	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY	TIVITY
TP-00440A	CM-7705		N.A. 1927	Coastal Mapping	ping Unit, AMC
STATION NAME	SOURCE OF	AEROTRI-	COORDINATES IN FEET STATE Michigan	GEOGRAPHIC POSITION	00 30 40 40 50 50 50 50 50 50 50 50 50 50 50 50 50
	(Index)	POINT		A LONGITUDE	
	470882		χ=	\$ 47°06'41.351"	
26 I, (MGS), 1934	Page 1011	39	y=	λ 88 ⁰ 29'55,943"	
	470883		-χ	φ 47°07'09.746"	
26 H (MGS), 1934	Page 1023	458100	<i>y=</i>	λ 88°31'24.680"	
	470883		zχ	\$ 47°06'44.252"	
MCM No. 91, 1939	Page 1003	37	y=	λ 88°33'05.530"	
	470883		=χ	\$ 47°06'22.650"	
26 D (MGS), 1934	Page 1019		-ĥ	λ 88 ⁰ 35'29,403"	
	470883		=χ	\$ 47°06'30.09"	
MCM No. 83, 1939	Page 1012	31	<i>y=</i>	λ 88 ⁰ 35'43.49"	
	470883		-χ	\$ 47°06'51.466"	
26 E (MGS), 1934	Page 1020		<i>y=</i>	λ 88°35'18.817"	
HANCOCK OUINCY MINING TOWN	470883	067657	<i>=</i> χ	\$ 47°08'25.704"	
TANKO 1939 DOG STATING LIKE	Page 1010	074/04	<i>y</i> =	λ 88°34'27,868".	
	470883	1 1	χ=	φ 47°08'23.185"	
TALLER STACK, 1939	Page 1009	45/403	<i>y</i> =	λ 88 ⁰ 34'12.784"	
	470883		=χ	\$ 47°08'22.178"	
26 Z (MGS), 1934	Page 1034	27	<i>β</i> =	λ 88 ⁰ 33'56.049"	
	470883		<i>-</i> χ	\$ 47°08'23.467"	
26 A 1 (MGS), 1934	Page 1015	76	<i>y</i> =	λ 88 ⁰ 32'21.408"	
computeb 8Y J. Mojer		92/63/79	Computation CHECKED BY		DATE: 12/4/79
LISTED BY J. Moler		11/30/79	Listing checked by L. Williams		DATE 12/3/79
HAND PLOTTING BY			HAND PLOTTING CHECKED BY C. Blood		DATE 12/17/79
1		SUPERSEDES N		CH IS OBSOLETE.	

Page 2 of 4

NOAA FORM 76-41 (6-75)		DESCRIPTIV	PTIVE REPORT CONTROL RECORD		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY	TIVITY
TP-00440A	CM-7705		N.A. 1927	Coastal Ma	Mapping Unit, AMC
STATION NAME	SOURCE OF INFORMATION	AEROTRI-	COORDINATES IN FEET STATE Michigan	GEOGRAPHIC POSITION	REMARKS
	(Judex)	NUMBER	zone North	λ LONGITUDE	
	470883		±%	\$ 47°00'48.883"	
26 S (MGS), 1934	Page 1033	47	ÿ=	λ 88°30'28.744"	
	470883		-χ	\$ 42°01'01,602"	
26 R (MGS), 1934	Page 1032		y=	λ 88°30'35.801"	
	££8U29		χε	\$ 47°01'07.150"	
26 Q (MGS), 1934	Page 1031	95	y=	λ 88 ⁰ 31'02.271"	
	470833		<i>=</i> χ	\$ 47 ⁹ 02'14.162"	
26 P (MGS), 1934	Page 1030	45	<i>ή</i> =	λ 88°31'14.464"	
	288027		=χ	\$ 47°02'50.153"	
26 0 (MGS), 1934	Page 1029	44	y=	λ 88 ⁰ 31'05,282"	
	7,70883		χs	\$ 47°03'20.523"	
26 N (MGS), 1934	Page 1028	459100	η=	λ 88 ⁰ 31'03,892"	
	470883		-χ	\$ 47°03'39.498"	
26 M (MGS), 1934	Page 1027		y=	λ 88 ⁰ 31'06,292"	
	470883		×εχ	φ 47 ⁰ 04'06.584"	
26 L (MGS), 1934	Page 1026	42	η= 1	λ 88 ⁰ 31'07.325"	
	470883	17	-X	\$ 47°04'33.767"	
26 K (MGS), 1934	Page 1025		y=	λ 88°31'03,209"	
	470883	i	=χ	\$ 47°05'42.147"	
26 J (MGS), 1934	Page 1024	70	<i>y</i> =	λ 88°3'0'51,543"	
COMPUTED BY J. Moler	1	DATE 12/03/79	COMPUTATION CHECKED BY L. Williams		DATE 12/4/79
LISTED BY		PA/30/79	LISTING CHECKED BY		· ·
HAND PLOTTING BY J. Moler		12/17/79	HAND PLOTTING CHECKED BY C. Blood		6
		SUPERSEDES N	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	CH IS OBSOLETE. DAGE	1; of 4

10AA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE. Page 1 of 4

NOAA FORM 76-41 (6-75)					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-00440A	CM-7705		N.A. 1927	Coastal Mapping	ing Unit, AMC
	$\overline{}$	AEROTRI-	COORDINATES IN FEET	GEOGRAPHIC POSITION	
STATION NAME	SOURCE OF INFORMATION (Index)	ANGULATION POINT NUMBER	srare Michigan	φ LATITUDE λ LONGITUDE	REMARKS
	7,60097			\$ 46°58'42,741"	
100 (USE MGS), 1934	Page 1027		ή=	λ 88 ⁰ 25'51.451"	,
FRANKLIN MINING TOWN WATER	470883		x= 1,612,820.95	φ 47 ⁰ 09.09.599"	
TANK, 1939	Page 1008		y= 867'835.50	λ 88 ⁰ 33'21.796"	
KEWEENAW WATERWAY LIGHT-	460881	 	=X	\$ 46 ⁰ 58'07.986"	
HOUSE, 1939	Page IUI/		=ĥ	λ 88 ⁰ 25'51,561"	
			<i>=</i> χ	Φ	
		_	y#	Y	
			××	ф	
			=ĥ	γ	
			=X	φ.	
	!		-ĥ	γ	
			χ=	ф	
			y=	γ	
			χ	ф	
			<i>h</i> =	γ	
		•	-χ	0	
			y=	γ	
			=X	ф	
			η= h	Υ.	
COMPUTED BY J. Moler		DATE 12/30/79	COMPUTATION CHECKED BY L. Williams		DATE 12/4/79
LISTED BY Moler		11/30/79	LISTING CHECKED BY		DATE 12/3/79
HAND PLOTTING BY		DATE 12/17/79	HAND PLOTTING CHECKED BY		DATE 12/17/79
		SUPERSEDES N	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	CH IS OBSOLETE.	

Page 4 of 4

10A

COMPILATION REPORT

TP-00440A

31 - DELINEATION

Delineation was done on the Wild B-8 stereoplotter using 1:20,000 scale and 1:50,000 scale panchromatic photography. The quality was good and coverage adequate except for an area to the north east which prevented completion of compilation to the limit of the manuscript.

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 by the Wild B-8 stereoplotter and by office stereoscopic interpretation of the ratioed photographs.

5 - SHORELINE AND ALONGSHORE DETAILS

Delineation was done on the Wild B-8 stereoplotter and office inspection of the ratioed photographs.

36 - OFFSHORE DETAILS

Delineation was done on the Wild B-8 stereoplotter.

37 - LANDMARKS AND AIDS

Appropriate copies of $76\text{--}40^{\circ}s$ are submitted with this descriptive report.

38 - CONTROL FOR FUTURÉ SURVEYS

None.

39 - JUNCTIONS

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

40 - HORIZONTAL AND VERTICAL ACCURACY

See Item #32.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S.G.S. Michigan quadrangles: 1:24,000 scale, 1975 revised edition - Oskar, Chassell, Laurium, Hancock, Point Mills, Traverse Island, Muggun Creek; and Keweenaw Bay, 1:62,5000 scale.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS Charts: Chart 14972, 20th edition, April 1976 and 21st edition, July 1979.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by,

I had for

J. Jeffery C. Moler Cartographer August 19, 1980

Approved:

James L. Byrd, Jr.

Chief, Coastal Mapping Unit

CM-7705 KEWEENAW WATERWAY FIELD EDIT REPORT TP-00440 A

51. METHOD

A visual inspection was made of the shoreline by automobile and on foot. Some areas marked private property were not accessible.

Notes were made on the Master Field Edit Ozalid, photographs 78 YP 4454 and 4455, 78 YP 4458, 78 YP 4468, and thirty-four horizon of pictures 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 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 the compiler for field edit application.

55. EXAMINATION

No statement.

Field Editor

Lowell O. Neterer, Jr.

May 26, 1981

REVIEW REPORT SHORELINE TP-00440A & TP-00440B

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. Geological Survey Quadrangles: Muggun Creek, Hancock and Chassell, Michigan, dated 1946, Oskar, Point Mills and Traverse Island, Michigan, dated 1954 (all six photorevised 1975, all 1:24,000 scale), Keweenaw Bay and Pelkie, Michigan, dated 1954, scale 1:62,500.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

No contemporary hydrographic survey was conducted within the limits of this map.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with NOS Charts: 14972, 22nd edition, dated April 2, 1983, scale 1:30,000 with an inset of same area covered by this map, Hancock and Houghton, scale 1:10,000; and 14964, 16th edition, dated July 31, 1982, scale 1:120,000.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with the project instructions and meets the requirements for National Standards of Map Accuracy.

Submitted by.

Lowell O. Neterer, Jr.

Final Reviewer

January 24, 1984

Approved,

Billy H. Barnes :

Billy H. Barrer

Chief, Photogrammetric Section, AMC

Approved,

Chief, Photogrammetric Section, Rockville

Chief, Photogrammetry Branch

Ronald K. Brewen

GEOGRAPHIC NAMES FINAL NAME SHEET PH-7705 (Keweenaw Waterway, Michigan) TP-00440

Atlantic Point Bear Lake Big Creek Boston Creek Chassell Cole Creek Dollar Bay Dollar Bay (locality) Dover Creek Dreamland Dubuque Creek Franklin Mine (locality) Gooseneck Creek Gregoryville Grosse Point Hammell Creek Hancock Harrington Island High Point Houghton Hubbell Huron Creek Hurontown Jacobsville Keweenaw Bay Keweenaw Peninsula Keweenaw Waterway (title) Lake Linden (locality) Lake Superior Lily Creek Lovell Creek McCallum Creek Mason

Mill Point Old Channel? 0skar Pewabic Pike Bay Pike River Pilgrim Pilgrim Point Pilgrim River Point Mills (locality) Portage Entry Portage Lake Portage Lake Ship Canal Portage River Quincy Creek Quincy Mill Ripley Sawmill Creek Schlot Creek Schmidt Corner Senter Silver Creek Snake River Soo Line (RR) Spring Creek Stone Quarry Lake Sturgeon River Swedetown Creek Torch Bay Torch Lake Torch Lake Canal Trap Rock River Ureux Point

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

	NOAA FORM 76-40 (8-74)	40			A N	TIONAL OC	EANIC AND	S. DEPARTM	U.S. DEPARTMENT OF COMMERCE AND ATMOSPHERIC ADMINISTRATION	ORIGINATING ACTIVITY	CTIVITY
FEROPATING OF THE FEROPATING STATE RESPONDENCE TO THE PROPERTY OF THE PROPERY	Replaces C&GS I		MONETOATINGXAN	EXOR LAN	OMARKS	FOR CH	ARTS			SECOETIC PARTY	}
The Very	TO BE CHAR TO BE REVIS		REPORTING UNIT Field Part Sup of Micelait, Coastal Mapping Unit, AMC. Norfolk, VA	STATE Michigan		Keween	ץ וaw Wate	way			IVITY BREVIEW GRP
CAC-7705 TP-00440A POSTION CACATON C	The following c	I	AVE HAVE NOT X been insp	pected from sea	ward to de	termine the	sir value as	landmarks.		(See reverse for respons	ible personnell
CR-7705 TP-00440	OPR PROJECT N	 -	JOB NUMBER SURVEY N	LUMBER	DATUM	-	7,00				
Contract				₩07	<u> </u> .		1927		METHOD AND DAN (See instructions	on reverse side)	CHARTS
Store transplation and to marigation 0 0 0 0 0 0 0 0 0			NOTAL		LATI		}	TUDE			AFFECTED
East One of Two 47 11.4 88 24.6 5-18-78 GONE Reat One of Two 47 11.1 88 24.8 5-18-78 GONE Houghton County Memorial Airport 47 10.2 88 29.8 No Photo Mark Value *Landmarks only visually inspected from the banks of the Keweenaw Waterway. *Field editor traveled by car: boat was not available.	CHARTING	Record res	ison for deletion of landmark or aid to n guletion station names, where applicable	navigation. 9. in parentheses)	•	D.M. Meters	,	// D.P. Meters	OFFICE	FIELD	
East One of Two	CUPOLA				# #		24		(P)	GONE	14972
Houghton County Memorial Airport 47 10.2 88 29.8 No Photo Not of Land-Coverage Mark Value *Landmarks only visually inspected from the banks of the Keweenaw Waterway. Field editor traveled by car; boat was not available.	STACK	East C	of.				ſ		(F)	GONE	14972
only visually inspected from of the Keweenaw Waterway. or traveled by car: boat vailable.	AERO	Hought	County Memorial	ort	10.		59		No Photo Coverage	Not of Land~ Mark Value	14972
only visually inspected of the Keweenaw Waterway or traveled by car; boat ailable,											
only visually inspected of the Keweenaw Waterway or traveled by car; boat railable,				`			-		, ! !		
only visually inspected of the Keweenaw Waterway or traveled by car; boat railable,							· -				
only visually inspected of the Keweenaw Waterway or traveled by car; boat railable,					_						
only visually inspected of the Keweenaw Waterway or traveled by car; boat ailable,											
only visually inspected of the Keweenaw Waterway or traveled by car; boat ailable,											
		*Landma the ba Field		ected from erway.							!
		was no			 						

metric me	*FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods.	*FIELD P
**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established	8-12-75	
8-12-75	e -	
EXAMPLE: V-Vis.	Resection 6 - Sextant	-
111. POSITION VERIFIED VISUALLY ON PHOTOGRAPH	ion 7 -	-w
	ı	2 -
EXAMPLE: Triang. Rec.		- <
th date o	Located Vis - Visually	<u> </u>
	applicable da	Ente
II. TRIANGULATION STATION RECOVERED	NEW POSITION DETERMINED OR VERIFIED	I. NEW
74L(c)2982		7
EXAMPLE: P-8-V 8-12-75	EXAMPLE: 75E(C)6042	EXAM
7 <u>~</u>	day, and year) of the photograph used to	day,
entry of	Enter the number and date (including month,	Ente
<pre>B. Photogrammetric field positions** require</pre>	OFFICE 1. OFFICE IDENTIFIED AND LOCATED OBJECTS	1 4 4 0 . 1 30 1 4 4 0
OR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE (Consult Photogrammetric Instructions No. 6-	
REPRESENTATIVE		ACTIVITIES
QUALITY CONTROL AND REVIEW GROUP	FORMS ORIGINATED BY QUALITY CONTROL. AND REVIEW GROUP AND FINAL REVIEW	AND REVIEW GRO
OFFICE ACTIVITY REPRESENTATIVE	Irene Perkinson	,
FIELD ACTIVITY REPRESENTATIVE	Fusilions Determined and/or verified Lowell O. Neterer, Jr.	Fosi IONS DETE
OTHER (Specify)	Lowell O, Neterer, Jr.	
GEODETIC PARTY	OBJECTS INSPECTED FROM SEAWARD	OBJECTS INSPEC
MYDROGRAPHIC PARTY		
	1 TO 61 ACTION	
DRIGNATOR		\.
PERSONNEL	RESPONSIBLE PERSONNEL	

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.

女 U.S.GPO:1975~0~665~080/1155

Pg. 1 of 3

)					
NOAA FORM 76-40	9-40			SOUL SPREEDING	Now track	Paler 10 - 10 -	D	S. DEPARTA	U.S. DEPARTMENT OF COMMERCE	ORIGINATING ACTIVITY	CTIVITY
(8-74) Replaces C&GS Form 567.	S Form 567.		*	NATIONAL OCEANIC.	MARKS	FOR CHA	RTS RNIC AND	ATMOSPHER	RIC ADMINISTRATION	HYDROGRAPHIC PARTY GEODETIC PARTY PHOTO FIELD PARTY	ARTY TY
X TO BE CHARTED	ARTED	=		STATE		LOCALITY	phonor	Shinwork	DATE	COMPLATION ACTIVITY	IVITY
TO BE REVISED	VISED	Coastal Mapping I AMC, Norfolk, VA	Unit	Michigan		Keween	Keweenaw Waterway	rway	July 1982	of the second second second	L & REVIEW GRP.
The following objects	ects	HAVE HAVE NOT X been ins	been inspe	spected from seaward to determine their value as landmarks	ward to dei	termine thei	r value as	· landmarks.	*	(See reverse for responsible personnel)	ible personnel)
OPR PROJECT NO.	T NO.	JOB NUMBER	SURVEY NU	MBER	DATUM	7001 A W	7.	-6	MOLETON I SO SERVE ON A CONTENT	TE OF 1 OCATION	
		CM-7705	TP-00440A	OA AO		POSITION	NO	The state of	(See instructions on reverse side)	on reverse side)	CHARTS
		DESCRIPTION	NO		LATITUDE	15.00		LONGITUDE	areas had		AFFECTED
CHARTING		(Record resson for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in perenti	rk or aid to na	navigation. le, in parentheses)	/ 0	// D.M. Meters	/ .	// D.P. Meters	OFFICE	FIELD	
ABAND *		no las hon	Shir Single	74174	9	41.09	111111111	49.95	78 Y(P) 4488	V-Vis.	14971
LT HO	At Ja	At Jacobsville	Trianali.		4,8 58	1269	88 24	1056	6-18-78	5-25-81	14972
* MOVIE SCREEN	108	o dankagilage e	days Aq-	50 50 E0	00 44	59.23	88 31	01.53	78 Y(P) 4461 6-18-78	=	14972
*					0.1	26.23	31	38.03	HT (C) 57463	=	n
CUPOLA		8-15-32			47 OI	.810	88 31	803	27 12		
**************************************					90 47	19.17	88 25	58.19	78 Y(P) 4491 6-18-78	=	
NOUTO		orion of the Cases		10000		592		1227	0.7.07.0	The second second	
* STACK	101			ELLS South	47 11	39.18	88 24	24.88	78 Y(P) 4493 6-18-78	=	=
				(Conse	(Chousease)	32.15	24	31.40			
SPIRE				NO POR EN	47 11	993		199	CV1 10H .	n .	н
* + T	E- 1	(T) (Okety 1+)			47 11	31.09	88 24	52.48	NarCI .	MATCH TO SE	=
					Salo Se	096		1105			
* STACK	West	one of two			47 11	5.89	24	50.11	1	H chart	
* STACK	North	Northeast one of two			47 10	38.52	88 25	20.42		E. V. G. H. L. C.	=
	*Land	*Landmarks were Visual	Visually verified	ied					ON THE PERSON	DELETO STALL	
	Fiel	from the banks of Keweenaw Fieldman traveled by car, a	reenaw Wa	w Waterway. as no boat	Reholder	TE SEBE	MART		The second secon	TO DE LA COLOR DE	
	Was	was available.									

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	ation 5 - 6 -	EW POSITION DETERMI nter the applicable - Field - Located - Verified	FIELD	identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	, t K	INST	ACTIVITIES	FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW		CONTINUED AND/OR VERIFIED		OBJECTS INSPECTED FROM SEAWARD	-		TYPE OF ACTION	
by photogramm	**PHOTOGRAMMETRIC	require entry of method of 8. example: V. 8.	÷ <	Field identified 8-	s as follows: When a tric Rec.' v		graph us EXAMPLE:	FIELD (Cont'd) B. Photogram entry of	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF (Consult Photogrammetric Instructions No. 64,			Irene Perkinson	Lowell O. Neterer, Jr.	Lowell O. Neterer, Jr.				NAME	RESPONSIBLE PERSONNEL
etric methods.	<pre>IC FIELD POSITIONS are dependent in part, upon control established</pre>	V-V+S. 8-12-75	ERIFIED VISUALLY ON PHOTOGRAPH	8-12-75	<pre>LATION STATION RECOVERED landmark or aid which is also a tri- ion station is recovered, enter 'Triang. vith date of recovery. : Triang. Rec.</pre>	/4L(C)2982	to locate or identify the object. P-8-V 8-12-75	Cont'd) Photogrammetric field positions** require entry of method of location or verification, data of field work and number of the photo-	LOCATION'	REPRESENTATIVE	QUALITY CONTROL AND REVIEW GROUP	OFFICE ACTIVITY REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE	OTHER (Specify)	GEODETIC PARTY	HYDROGRAPHIC PARTY	X 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.

Page 2 of 3

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NOAA FORM 76-40 (8-74)			NAT	TIONAL OCE	ANIC AND	S. DEPARTI ATMOSPHET	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	ORIGINATING ACTIVITY	ACTIVITY ABTV
Replaces C&GS Form 567.		SHAGE SAN	MARKS	FOR CH/	RTS			GEODETIC PARTY	ı . w
TO BE CHARTED		ice) STATE		LOCALITY			DATE	COMPILATION AC	ACTIVITY
TO BE REVISED	***	ng Unit Michigan		Keweenaw Waterway	w Water	Wav Va	Aug. 1982	FINAL REVIEWER OUALITY CONTROL & REVIEW GRD	LAREVIEW GRP
The following objects	ects HAVE HAVE NO	been inspe	ward to de	termine the	ir value as	landmarks		ું	sible personnel)
OPR PROJECT NO.	NO. JOB NUMBER	SURVEY NUMBER	митуа	i		İ			
	CM-7705	TP-00440A	į	N.A. 19	1927		Kee instructions of LOCATION	TE OF LOCATION	
				POSITION	- 1	10114		(anie anie anie	CHARTS
CHARTING	DESCRIPTION	LION	LATITUDE		LONGITUDE	TUDE	i i	<u>.</u>	AFFECTED
NAME	(Record reason for defetion of landmark or aid to navi Show triangulation station names, where applicable, th	nark or aid to navigation. There applicable, in perentheses)	, ,	D.M. Meters	, ,	D.P. Meters	- C-F-C-F-C-F-C-F-C-F-C-F-C-F-C-F-C-F-C-	FIELD	,
-3			10	36.43	25	23.00		V-Vis.	
STACK	Southwest one of two		47	1125	88	787	6-18-78	5-25-81	14972
* 6			, 10	26.52	25	46.34	ε	- =	=
CKUSS			/+/	819	00	926		:	
*			7 10	04.50	88 26	08.49	78 Y(P) 4492	=	=
STACK			<u>,</u>	139	00	179	6-18-78		
+	**************************************		. 08	47.67	27	30.70	£	=	=
ŜTACK			47	1472	88	647			
*							Not Visible on		: :
STACK							compilation photographs	:	-
R RELAY	 		80 47	27.64	6E .	27.59	78 Y(P) 4457		
MAST	2 Vertical Lts. Occ	R FR (Ubstr. Lts.)	<i>;</i> + .	854	88	571	6-18-78	11	:
4			. 13	38.47	37	29,09	78 Y(P) 4454	=	
R. MAST	R BN 312 KHz also li	listed as aid	4/	1188	00	512	6-18-78		
			, 13	31.90	37	24,62	7577 (d) A 82		
*. 'R, MAST	At Coast Guard Base		4 /-	985	88	518	6-18-	=	=
*			i 80	21.80	:	15.02	78 Y(P) 4457		;
STACK	Southwest one of two		47 00	673	88 34	316	6-18-78	=	=
* (_~	No. 6, Taller	80	23.185		12.784	=	=	E
STACK	Stack, 1939)		/ 5	716.0	88 34	269.4			

	010000000000	17700000	
1077			OPIGINATOR
	175/10		☑ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY
OBJECTS INSPECTED FROM SEAWARD	Lowell 0.). Neterer, Jr.	GEODETIC PARTY OTHER (Specify)
	Lowell 0.		FIELD ACTIVITY REPRESENTATIVE
COST TONS DETERMINED AND/OR ACTUAL TO	Irene Pe	Perkinson	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	1		REPRESENTATIVE
	INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE O	OR ENTRIES UNDER METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	
OREICE		FIELD (Contid)	
OFFICE DENTIFIED AND LOCATED OBJECTS 1. OFFICE DENTIFIED AND LOCATED OBJECTS Enter the number and date (Including month, day, and year) of the photograph used to identify and locate the ≎bject. EXAMPLE: 75E(C)6042 8-12-75	TED OBJECTS (Including month, ograph used to ject.	FIELD (Cont'd) B. Photogrammetric field entry of method of locate of field work are graph used to locate EXAMPLE: P-8-V 8-12-75 741(C)2982	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 8-12-75 741(C)2982
DETERMINED plicable dat p - Vis	OR VERIFIED ta by symbols as follows: Photogrammetric - Visually	ATION STATI andmark or on station th date of	ON RECOVERED aid which is also a tri- is recovered, enter 'Triang. recovery.
d lation 5 - e 6 -	Field identified Theodolite	EXAMPLE: Triang. Rec. 8-12-75	
tion 7 -	Planetable Sextant	III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V*Vis.' and date.	UALLY ON PHOTOGRAPH
tions*	require entry of method of of field work.	EXAMPLE: V-Vis. 8-12-75	
		**PHOTOGRAMMETRIC FIELD PO	(IC FIELD POSITIONS are dependent
*FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods.	d by field obser- round survey methods.		ds.

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.

Pg. 3 of 3

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NOAA FORM 76-40	-40			FAN	LIONAL OCE	טיאט אאט	S. DEPARTA	U.S. DEPARTMENT OF COMMERCE	ORIGINATING ACTIVITY	CTIVITY
Replaces C&GS Form 567.	ım 567.	HONEKDAKE	奎	DMARKS	FOR CH	\RTS			HYDROGRAPHIC PARTY GEODETIC PARTY	ARTY STV
X TO BE CHARTED	Γ	TINU :	STATE		LOCALITY			DATE	CACOMPILATION ACTIVITY	11 VITY
TO BE REVISED		Coastal Mapping Unit,	_		·-	;			_	L & REVIEW GRP
TO BE DELETED	AMC,	rfolk, VA	Michigan	ď	Keween	Keweenaw Water	¥	Aug. 1982		NCH
The following objects	ects HAVE	AVE NOT X L	HAVE NOT X been inspected from seaward to determine their value as landmarks	award to de	termine the	ir value as	landmarks.		(See reverse for responsible personnel)	sible personnel)
2				E .	N. A. 1927	27				
<u> </u>	CM-7705		TP-00440A		POSITION	NO.		METHOD AND DATE OF LOCATION (See Instructions on reverse side)	ETHOD AND DATE OF LOCATION (See thetructions on reverse side)	CHARTS
	ļ 	DESCRIPTION		LATITUDE	LUDE	LONGITUDE	TUDE			AFFECTED
CHARTING	(Record resson for defetion of landmark or aid to navigation. Show triangulation station names, where applicable, in parenti	tion of landmark o	Record resson for defetion of landmark or aid to navigation. Show triangulation station names, where applicable, in perentheses)		// D.M. Meters	,	// D.P. Meters	OFFICE	FIELD	
				0.7	32.19	%	05.43	78 Y(P) 4457	V-Vie	
*STACK				47 ~ /	994	88	114	6-18-78	5-25-81	14972
* CHY				47 07	34.29	88 36	11.21	Ξ	=	н
*					38.86	36	35.15			
ïĸ	North one of	two FR (Obs	(Obstr. Lt.)	47 0,	1200	88	741	s !	:	=
				0.7	21.27	36	35.43	•		
* TR	South one of	two FR (Obs	(Obstr. Lt.)	47 01	657	88	747	t	11	Ε.
*				-	41.61	76	25.80			
CUPOLA	South one of	two		47	1285	88 -	543	-	11	
*	,			11	42.63	2. 24	25.56	78 Y(P) 4493		
CUPOLA	North one of	two		47	1316	88	538	6-18-7	=	=
<u>:-</u>	*Landmarks wer	were visually verifie of Keweenaw Waterway	verified from							
	dman t	led by	car, as no boat						.	, !
-	was available.	•						i i		
	·									
					•					

*FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods.	A. Field positions require entry of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	- Resection	ERMINED able dat VIs	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	OFFICE IDENTIFIED AND IDEATED OBJECTS	INSTRUCTI	FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		E-VS11 IONS DETERMINED AND/OR VERSFIED		OBJECTS INSPECTED FROM SEAWARD	TYPE OF ACTION	
by photogrammetr	**PHOTOGRAMMETRIC	Enter 'V+V Enter 'V+V	s as follows: tric Rec. with Rec. with EXAMPLE:	month, entry of date of f	FIELD (Cont'd)	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	-	Irene Perkinson	Lowell O. Neterer, Jr	Lowell O. Neterer, Jr.		NASM	RESPONSIBLE PERSONNEL
part, upon control established ic methods.	2-75 FIELD POSITIONS are dependent	is.' and date. V-Vis.	ION STATION RECOVERED dmark or aid which is also a tri- station is recovered, enter 'Triang. date of recovery. Triang. Rec. 8-12-75	method of location or verification, field work and number of the photosed to locate or identify the object. P-8-V 8-12-75 74L(C)2982	- 1		REVIEWER QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	OFFICE ACTIVITY REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE	OTHER (Specify)	X PHOTO FIELD PARTY HYDROGRAPHIC PARTY	ORIGINATOR	

NOAA FORM 76-49 (8-74)

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

Page 1 of 4

• ·)				1	
NOAA FORM 76-40	-40		7		U. OCE AND AND	S. DEPARTA	U.S. DEPARTMENT OF COMMERCE	ORIGINATING ACTIVITY	CTIVITY
(8= /4) Replaces C&GS Form 567.	m 567.	NONFLOATING AIDS BORKENAND	MARKS	ORKEANDAMERKS FOR CHARTS	RTS			HYDROGRAPHIC PARTY GEODETIC PARTY	4A7Y
XITO BE CHARTED	_	STATE		LOCALITY			DATE	K COMPILATION ACTIVITY	. VITY
TO BE REVISED TO BE DELETED	SED Coastal Mapping Unit,	Unit, Michigan		Keweena	Keweenaw Waterway	way	July 1982		- & REVIEW GRP.
The following objects	ects HAVE	1	ward to de	termine the	ir value as	landmarks.	*	(See reverse for responsible personnel)	ible personnel)
OPR PROJECT NO.	NO. JOB NUMBER	SURVEY NUMBER	M⊃⊢∀Q				٠		
	CM-7705	TP-00440A		N.A. 192	1927		METHOD AND DATE OF LOCATION (See instructions on reverse side)	re of Location	CHARTS
			LATITUDE		1 ONGITUDE	71105			AFFECTED
CHARTING	DESCRIPTION [Record reason for deletion of landmark or sid to navigation. Show triangulation station names, where applicable, in perentheses)	ION ark or aid to navigation. sers applicable, in perentheses)		D.M. Meters		// D.P. Meters	OFFICE	FIELD	
	Keweenaw Waterway Lower Entranch	wer Entranch		07.985		51.561	78 Y(P) 4488		
LIGHT	Light, R.BN. 296, KHz Way Lighthouse, 1939)	z (Keweenaw Water-)	46 58	247	88 25	1090	6-18-7	V-Vis. 5-25-81	14971 14972
*			58	55.15	26	08.32	a .	**************************************	117
LICHT	Keweenaw Waterway Li	Light 5	46	1703	88	176			
DAY	Vorcent Methodomy	T woody	65 97	1.26	88 26	10.36		P-V4s	u
DEACON	Neweellaw waterway Da	- 1		39		219		78 Y(P) 4488	
* DAY			. 59	20.08	5. 26	11.36		P-VisV	
BEACON	Keweenaw Waterway Daybeacon	ybeacon 9	40	620	88	240		78 Y(P) 4489	14972
*			65 97	21.67	26	02.25	78 Y(P) 4488	V-Vis.	.
LIGHT	Keweenaw Waterway Lig	Light 10		699	88	47	6-18-7	-5-	
*			65 37	24.21	90	09.08	: 	=	14
LICHT	Keweenaw Waterway Li	Light 11	40	748	88	192		-	
-			29	31.92	. 26	09.45			:
LIGHT	Keweenaw Waterway Lig	Light 13	46	986	88	200			;
*	terway	South Range	59	36.75	2.6	03.00	78 Y(P) 4488		
LIGHT	Front Light		46	1135	88	63	6-18-78	44	E
. *	aterway	South Range	9.5	24.84	25	46.31		;	:
LIGHT	Rear Light		7 9 9	767	88	979	=	=	=
	Lights were visually verifit banks of Keweenaw Waterway.	verified from the						···	
	traveled by car, as m								
	מוניים				<u>.</u>	•			

TYPE OF ACTION	NAME.		ORIGINATOR
) - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			X PHOTO FIELD PARTY HYDROGRAPHIC PARTY
OBJECTS INSPECTED FROM SEAWARD	Lowell O.	Neterer, Jr.	GEODETIC PARTY OTHER (Specify)
	္	1	FIELD ACTIVITY REPRESENTATIVE
TOST TONS DETERMINED AND/OR VERIFIED	Perk		OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL			REVIEWER
AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES			QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
	INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE O (Consult Photogrammetric Instructions No. 64,	OR ENTRIES UNDER METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	
OFFICE 1. OFFICE IDENTIFIED AND LOCATED OBJECTS	VIED OBJECTS	FIELD (Cont'd) 8. Photogrammetric fie	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)	e fi	<pre>" method of location or verification, field work and number of the photo- sed to locate or identify the object. P-8-V 8-12-75 74L(C)2982</pre>
RMINED ble dat P = Vis	ED OR VERIFIED data by symbols as follows: - Photogrammetric is - Visually	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is angulation station is recovered Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75	ION RECOVERED aid which is also a tri- is recovered, enter 'Triang. recovery.
1 - Frangulation 5 - F 2 - Traverse 6 - T 3 - Intersection 7 - P 4 - Resection 8 - S	Theodolite Planetable Sextant	<u> </u>	VERIFIED VISUALLY ON PHOTOGRAPH Vis.' and date. V-Vis.
sitions*	require entry of method of of field work.	EXAMPLE: V-VIS. 8-12-75	,
EXAMPLE: F-2-6-L 8-12-75		**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control establishe	POSITIONS are dependent upon control established
*FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods.	are determined by field obser- ntirely upon ground survey methods.	netric me	ds.

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

会 U.S.GPO:1975-0-665-080/1155

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NOAA FORM 76-40	40		2	TIONAL OCE	DINA CINA	S. DEPARTM	U.S. DEPARTMENT OF COMMERCE	ORIGINATING ACTIVITY	CTIVITY
Replaces C&GS Form 567.	m 567.	NONFLOATING AIDS DEC	DAK ENKOLUNIE FOR CHARTS	FOR CHA	'RTS			HYDROGRAPHIC PARTY GEODETIC PARTY DHOTO FIFT D SASTY	ARTY TV
▼ TO BE CHARTED	TED REPORTING UNIT	STATE		LOCALITY			DATE	COMPILATION ACTIVITY	 V T
To BE DELETED	Coastal Mapping AMC, Norfolk, V.	Unit, Michigan	gan	 Keweenaw Waterway	w Water	way	July 1982	FINAL REVIEWER QUALITY CONTROL & R COAST PILOT BRANCH	L & REVIEW GRP.
The following objects	ects HAVE HAVE NOT	been inspect	n seaward to de	termine the	ir value as	landmarks.	-*	(See reverse for responsible personnel)	ible personnel)
OPR PROJECT NO.	O. JOB NUMBER	SURVEY NUMBER	DATUM	7 1027	7.6				
	CM-7705	TP-00440A		NOITION .	/ ₂ §		(See instructions on reverse side)	E OF LOCATION on reverse side)	CHARTS
	DESCRIPTION	2	LATI	LATITUDE	LONGITUDE	TUDE			AFFECTED
CHARTING NAME	(Record reason for deletion of landnark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	k or aid to navigation. • applicable, in parent!	0 (8080)	// D.M.Meters	/ .	// D.P.Meters	OFFICE	FIELD	
4			, 59	43.62	26	16.67	78 Y(P) 4488	V-Vis.	14972
LIGHT	Keweenaw Waterway Light	ıt 15	40	1347	88	352	6-18-78	5-25-81	
* LIGHT	 Keweenaw Waterway Light	ıţ 17	47 00	7.88	88 26	50.63		Inaccessible 5-25-81	=
*			7. 00	19.01	88 26	46.46	11	Inaccessible	=
LIGHT	Keweenaw Waterway Light	ıt 16		328	2.	981		TO 53 6	
* 1			47 00	41.06	88 27	37.17	=	Ξ	z
LIGHI	Neweenaw warerway Light	11 13		0071		60/			
* LIGHT	Keweenaw Waterway Light	ıt 18	47 00	43.80	88 27	33.01 697	t	I.	п
*			01	13.89	28	15.24	11		1
LIGHT	Keweenaw Waterway Light	ıt 20	47	429	88	322			
LIGHT	Princess Point Range F	Front Light	47 01	17.79	88 28	28.84	ε	*	\$
* * 1.1CHT	Princess Point Range	Rear Light	47.01	06.93	88.28	24.50	=	=	=
4			0.0	35.03		32.80] 	=
LICHT	Keweenaw Waterway Light	ıt 22	4.7	1082	88 28	693		:	
·k			, 01	50.43	28	45.48	÷	V [™] Vis.	
LIGHT	Keweenaw Waterway Light	ıt 25	7 4	1557	88	096		5-25-81	=

FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods	EXAMPLE; F-2-6-L 8-12-75	sitions	3 - Intersection 7 - Pl 4 - Resection 8 - Se	ation 5 - 6 -	t - rieid Vis - i	EW POSITION DETERMINED nter the applicable da	8-12-75	<pre>enter the number and date (including r day, and year) of the photograph used identify and locate the bject. example: 75E(C)6042</pre>	A.		AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		EGST IGNS DETERMINED AND/OR VERIFIED		OBJECTS INSPECTED FROM SEAWARD	TYPE OF ACTION	
hods.	**PH0	require entry of method of of field work.	Planetable III. Sextant	Field identified Theodolite	- Visually	NED OR VERIFIED data by symbols as follows:		photograph used to the bject.	FIEL	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE O (Consult Photogrammetric Instructions No. 64,		_Irene Perkinson	Lowell O. Neterer,	Lowell O. Neterer,		NAME	RESPONSIBLE PERSONNEL
	entirely, or im part, up##	EXAMPLE: V-VIs. 8-12-75	VERIFIED V	8-12-75	20	ION STATI		entry or method of date of field work graph used to locat EXAMPLE: P-8-V	(Cont'd) Photogram	D AND DATE OF LOCATION' uctions No. 64,			, Jr.	, Jr.		<u> </u>	NEL
Ġ.	IC FIELD POSITIONS are dependent in part, upon control established		date.		recovery.	also a	2	method of location or verification, field work and number of the photomed to locate or identify the object. P-8-V	field positions** require		QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	OFFICE ACTIVITY REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE	OTHER (Specify)	MYDROGRAPHIC PARTY	ORIGINATOR	

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

Page 3 of 4

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NOAA FORM 76-40	40		H	TOO I WOO	DIA OIN	S. DEPART	U.S. DEPARTMENT OF COMMERCE AND ATMOSPHERIC ADMINISTRATION	ORIGINATING ACTIVITY	CTIVITY
Replaces C&GS Form 567.	m 567.	NONFLOATING AIDS OR EXHABITACE FOR CHARTS	MANAGE S	FOR CH/	IRTS			HYDROGRAPHIC PARTY GEODETIC PARTY DUOTO FIELD BARETY	.RTY TV
XTO BE CHARTED		STATE (ce)		LOCALITY			DATE	K COMPILATION ACTIVITY	V(T.Y
TO BE REVISED	ED Coastal Mapping Unit,		,	Кемеел	Keweenaw Waterway	rway	July 1982	FINAL REVIEWER QUALITY CONTROL & REVIEW GRP COAST PILOT BRANCH	. BREVIEW GRP
The following objects	ects h	inspected from	ward to de	seaward to determine their value as landmarks	ir vafue as	landmarks.	*	(See reverse for responsible personnel)	ible personnel)
OPR PROJECT NO.	40. JOB NUMBER	SURVEY NUMBER	DATUM	N.A. 19	1927				
•	CM-7705	TP-00440A		POSITION	NO		(See instructions on reverse side)	(See instructions on reverse side)	CHARTS
	NOLLAIRDSEO	NO.	LATITUDE	UDE	LONGITUDE	TUDE	1		AFFECTED
CHARTING	(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	nark or aid to navigation. here applicable, in parentheses)	, ,	// D.M. Meters	/ 0	// D.P. Merers	OFFICE	FIELD	٠.
			90 47	24.00	30	26.32	78 Y(P) 4459		
LIGHT	Pilgrim Point Light		t,	740	88	555	6-18-78	5-25-81	14972
* LIGHT	Cole Creek Light		47 07	45.27	88 37	19.21 405	78 Y(P) 4456 6-18-78	No comment from field edit 5-25-81	÷
*			60 - 1	30.51	38	04.31	78 Y (P)	Δ.	
LIGHT	Harrignton Island Li	Light	4/	942	88	06	-18-7		=
				33.52	37	07.39	9577 (d) A 82		=
LIGHT	Rouleau Point Range	Front Light	47 11	1035	88	156	6-18-7		
				44.10	Ċ	57.10			
* LIGHT	Rouleau Point Range	Rear Light	47 11	1362	88 36	1202		78 Y(P) 4454 	1
4			12	0.87	37	04.99	78 Y(P) 4455	سدء	;
LIGHT	Lily Pond Leading Li	Light	47	27	20	105	6-18-7	Verified in place 5-25-81	=
*			1,	30,21	37	05.65	78 Y(P) 4455	V-Vis.	
LIGHT	Lily Pond South Light	t 68	47	933	88	119	6-18-78	5-25-81	=
*		0	13	00.96	37	8.73	78 Y(P) 4456	Coast Guard	
LIGHT	Lily Pond North Light	t 70	47 +3	30	88	184	6-18-78		=
*			, 14	04.32	37	49.21	78 Y(P) 4455	V-Vis.	=
LIGHT	Keweenaw Upper Entrance Light	nce Light	/†	133	00	1035	0-18-78	T9-C7-C	
			,						

FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods.	EXAMPLE: F-2-6-L 8-12-75	A. Field positions require entry of method location and date of field work.	3 - Intersection 7 - Planetable 4 - Resection 8 - Sextant	I - Triangulation 5 - Field identified2 - Traverse 6 - Theodolite	<pre>t = Field</pre>	applicable data by symbols as	FIELD	identify and locate the ≎bject. EXAMPLE: 75E(C)6042 8-12-75		OFFICE [DENTIFIED AND LOCATED OBJECTS	(Consult	ACTIVITIES	AND REVIEW GROUP AND FINAL REVIEW	FORMS ORIGINATED BY QUALITY CONTROL	•	ECKLIONS DETERMINED AND/OR VERIFIED	L	OBJECTS INSPECTED FROM SEAWARD		TYPE OF ACTION	
	PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control establishe	of EXAMPLE: V-Vis. 8-12-75	Enter 'V-Vis.' and date.	8-12-75	Rec.' with date of I	<u> </u>		graph used to locate EXAMPLE: P-8-V 8-12-75 74L(C)2982	entry of date of 1	FIELD (Cont'd) B. Photogrammetric field positions	(Consult Photogrammetric Instructions No. 64,				Irené Perkinson	Lowell O. Neterer, Jr.	Lowell O. Neterer, Jr.			NAME	RESPONSIBLE PERSONNEL
nods.	IC FIELD POSITIONS are dependent in part, upon control established	,	POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V+Vis.' and date.		station is recovered, enter 'Irlang. date of recovery. riang. Rec.	also a		or identify	L 13	eld positions** require		REPRESENTATIVE	QUALITY CONTROL AND REVIEW GROUP	REVIEWER	OFFICE ACTIVITY REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE	OTHER (Specify)	GEODETIC PARTY	Y PHOTO FIELD PARTY	ORIGINATOR	

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

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Replaces C&GS Form 567. Replaces C&GS Form 567. To be ReviseD To be ReviseD To be ReviseD The following objects HAVE HAVI OPR PROJECT NO. CM-7705 CM-7705 Show triangulation station: * Keweenaw Upper LIGHT Revetment Light * Keweenaw Upper LIGHT Revetment Light Revetment Light Revetment Light LIGHT Revetment Light Revetment Light LIGHT Revetment Light Revetment Light LIGHT Revetment Light Revetment Light Light Revetment Light Revetment Light Revetment Light Revetment Light Light Revetment Light Revetment Light Revetment Light Revetment Light Revetment Light Revetment Light									
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The following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the following of the fo	PORTING UNIT	STATE		LOCALITY			DATE	COMPILATION ACTIVITY	Y V TY
The following of PROJECT No CHARTING NAME * LIGHT * LIGHT * LIGHT * LIGHT * R. BN	Coastal Mapping Unit, AMC. Norfolk, VA	hit, Michigan	<u> </u>	Keween	Keweenaw Waterwav	rwav	July 1982		- SREVIEW GRP.
CHARTING CHARTING A LIGHT LIGHT LIGHT R BN	HAVE NOT	X been inspected from seaward to determine their value as landmarks.	ward to de	ermine the	ir value as	landmarks.		(See reverse for responsible personnel)	ible personnel)
CHARTING * LIGHT * LIGHT * LIGHT * LIGHT * R. BN	JOB NUMBER	SURVEY NUMBER	DATUM	7001 4 W	7.0				
CHARTING * LIGHT * LIGHT * LIGHT * LIGHT * R. BN	CM-7705	TP-00440A		POSITION	NO.		(See instructions on reverse side)	E OF LOCATION	CHARTS
CHARTING NAME LIGHT LIGHT LIGHT LIGHT R BN	DESCRIPTION		LATITUDE	UDE	LONGITUDE	rube	-		AFFECTED
* LIGHT * LIGHT * LIGHT * LIGHT * R BN	(Record reason for deletion of lendmark or aid to navigation. Show triangulation station names, where applicable, in perenti	Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in perentheses	, ,	// D.M.Meters	10	// D.P.Meters	OFFICE	FIELD	
LIGHT * LIGHT * LIGHT * LIGHT * R BN	Keweenaw Upper Entrance	West	,7 14	01.94	90 37	56.62	78 Y(P) 4455	V-Vis.	1,070
* LIGHT * LIGHT * LIGHT * R BN	Breakwater Light		4/	60	00	1191	0-18-/8	. T2-C7~C	149/2
* LIGHT * R BN	Keweenaw Upper Entrance East Revetment Light 72	. East	47 13	36.06 1114	88 37	32.38 681	ĸ	И	"
LIGHT * R BN	v Upper Entrance	West	13	34.33	37	37.78	:		
BN BN	nt Light		4 /	1050	88	795	=	=	<u>.</u>
BN	z also listed as	a R MAST	13	38.47	37	29.09			
			47 ±3	1188	88 ′′	612	=	-	= .
									,
			_			,			
*Lights we	*Lights were visually ve	verified from							,
the banks Fieldman	s of Keweenaw traveled by	waterway.	-						
boat was	available.	-							
							•		
					1				
			-						

	RESPONSIBLE PERSONNEL	RSONNEL	
TYPE OF ACTION	NAME		ORIGINATOR
			X PHOTO FIELD PARTY
OBJECTS INSPECTED FROM SEAWARD		7.	GEODETIC PARTY
	۰		FIELD ACTIVITY REPRESENTATIVE
COST CONS OFTERMINED AND/OR VERTIFIED	Irene Perkinson	nson	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES			REVIEWER QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
LISNI	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE O (Consult Photogrammetric Instructions No. 64,	THOD AND DATE OF LOCATION' Instructions No. 64,	
OFFICE IDENTIFIED AND LOCATED OBJECTS		FIELD (Cont'd) B. Photogrammetric fie	Cont'd) Photogrammetric field positions** require
Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 (Section 1975)	raph used to	(U - T)	method of location or verification, field work and number of the photo- sed to locate or identify the object. P-8-V 8-12-75 74L(C)2982
s is dart	OR VERIFIED ta by symbols as follows: Photogrammetric - Visually Field identified	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is angulation station is recovered Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75	ION RECOVERED aid which is also a tri- is recovered, enter 'Triang. recovery. lec.
× 7 6	Theodolite Planetable	II. POSITION VERIFIED VISUAL	VERIFIED VISUALLY ON PHOTOGRAPH
sitions* requand date of	field work.	Ë	,
F-2-6-L 8-12-75	·	entirely, or in part, upon control establishe#*	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 field obser- und survey methods.		ods.

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

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☆ U. S.GPO:1975-0-665-080/1155

1B of 10B

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMER((3-72) NATIONAL OCEANIC AND ATMOS PHERIC ADM	E TYPE OF SURVEY	SURVEY TP- 00440B
	D ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS III FINAL
	REVISED	лов ки: <u>СМ-770</u>5
PHOTOGRAMMETRIC OFFICE		ING MAP EDITION
	TYPE OF SURVEY	JOB PH
Coastal Mapping Unit, Norfolk, VA	D ORIGINAL	MAP CLASS
OFFICER-IN-CHARGE	RESURVEY	SURVEY DATES:
A. Y. Bryson	REVISED	19TO 19
I. INSTRUCTIONS DATED		
1. OFFICE	2.	FIELD
Aerotriangulation August 28, 197	B Photography	March 30, 1977
Compilation January 18, 1979		April 11, 1977
Change No. 2 November 1, 197	Change No. 1	June 16, 1978
II. DATUMS	OTHER (Specify)	,
I. HORIZONTAL: (X) 1927 NORTH AMERICAN		
MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL:	International Gr	eat Lakes Datum,
MEAN LOWER LOW-WATER	(1955). Lake Su	perior Low Water
MEAN SEA LEVEL	Datum.	
2 MAR OROUSCION		
3. MAP PROJECTION	4.	GRID(S)
3. MAP PROJECTION Lambert Conformal Conic		GRID(S) ZONE North
	4. STATE	ZONE
Lambert Conformal Conic 5. SCALE	state Michigan	zone North
Lambert Conformal Conic 5. SCALE 1:10,000	state Michigan	zone North
Lambert Conformal Conic 5. SCALE 1:10,000 III. HISTORY OF OFFICE OPERATIONS OPERATIONS 1. AEROTRIANGULATION	STATE Michigan STATE NAME P B. Thornton	North ZONE DATE Oct. 1979
Lambert Conformal Conic 5. scale 1:10,000 III. HISTORY OF OFFICE OPERATIONS OPERATIONS 1. AEROTRIANGULATION METHOD: Analytic LANDMARKS AND AIDS E	STATE Michigan STATE NAME B. Thornton D. Norman	DATE Oct. 1979 Oct. 1979
Lambert Conformal Conic 5. scale 1:10,000 III. HISTORY OF OFFICE OPERATIONS OPERATIONS 1. AEROTRIANGULATION METHOD: Analytic Landmarks and aids are 2. CONTROL AND BRIDGE POINTS PLOTTED B	STATE Michigan STATE NAME B. Thornton D. Norman B. Thornton	DATE Oct. 1979 Oct. 1979 Oct. 1979
Lambert Conformal Conic 5. SCALE 1:10,000 III. HISTORY OF OFFICE OPERATIONS OPERATIONS 1. AEROTRIANGULATION METHOD: Analytic LANDMARKS AND AIDS B 2. CONTROL AND BRIDGE POINTS METHOD: Coradomat CHECKED B	STATE Michigan STATE NAME P B. Thornton D. Norman B. Thornton D. Norman D. Norman	DATE Oct. 1979 Oct. 1979 Oct. 1979 Oct. 1979
Lambert Conformal Conic 5. SCALE 1:10,000 III. HISTORY OF OFFICE OPERATIONS OPERATIONS 1. AEROTRIANGULATION METHOD: Analytic LANDMARKS AND AIDS B 2. CONTROL AND BRIDGE POINTS METHOD: Coradomat CHECKED B 3. STEREOSCOPIC INSTRUMENT PLANIMETRY B	STATE Michigan STATE NAME P. B. Thornton D. Norman B. Thornton D. Norman D. Norman D. Norman D. Butler	DATE Oct. 1979 Oct. 1979 Oct. 1979 Oct. 1979 Jan. 1980
Lambert Conformal Conic 5. SCALE 1:10,000 III. HISTORY OF OFFICE OPERATIONS OPERATIONS 1. AEROTRIANGULATION METHOD: Analytic LANDMARKS AND AIDS B 2. CONTROL AND BRIDGE POINTS METHOD: Coradomat CHECKED B	NAME B. Thornton D. Norman B. Thornton D. Norman D. Norman D. Norman L. Neterer, Jr.	DATE Oct. 1979 Oct. 1979 Oct. 1979 Oct. 1979
Lambert Conformal Conic 5. SCALE 1:10,000 III. HISTORY OF OFFICE OPERATIONS OPERATIONS 1. AEROTRIANGULATION METHOD: Analytic CONTROL AND BRIDGE POINTS METHOD: Coradomat CHECKED E 3. STEREOSCOPIC INSTRUMENT COMPILATION CHECKED E	NAME B. Thornton D. Norman B. Thornton D. Norman D. Norman L. Neterer, Jr. N.A.	DATE Oct. 1979 Oct. 1979 Oct. 1979 Oct. 1979 Jan. 1980
Lambert Conformal Conic 5. SCALE 1:10,000 III. HISTORY OF OFFICE OPERATIONS OPERATIONS 1. AEROTRIANGULATION METHOD: Analytic Control and Bridge Points METHOD: Coradomat Compilation INSTRUMENT: Wild B-8 CONTOURS	STATE Michigan STATE Michigan STATE NAME B. Thornton D. Norman B. Thornton D. Norman D. Norman L. Neterer, Jr. N.A. N.A. D. Butler D. Butler D. D. Butler D. D. Butler D. D. Butler D. Butler D. Butler	DATE Oct. 1979 Oct. 1979 Oct. 1979 Oct. 1979 Jan. 1980 Jan. 1980 Jan. 1980
Lambert Conformal Conic 5. SCALE 1:10,000 III. HISTORY OF OFFICE OPERATIONS OPERATIONS 1. AEROTRIANGULATION METHOD: Analytic LANDMARKS AND AIDS B CONTROL AND BRIDGE POINTS METHOD: Coradomat CHECKED B 3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B—8 SCALE: 1:10,000 CHECKED B 4. MANUSCRIPT DELINEATION CHECKED B CHECKED B	STATE Michigan STATE Michigan STATE NAME P. B. Thornton D. Norman D. Norman D. Norman L. Neterer, Jr. N.A. N.A. D. Butler L. O. Neterer, Jr	DATE Oct. 1979 Oct. 1979 Oct. 1979 Oct. 1979 Jan. 1980 Jan. 1980 Jan. 1980
Lambert Conformal Conic 5. SCALE 1:10,000 III. HISTORY OF OFFICE OPERATIONS OPERATIONS 1. AEROTRIANGULATION METHOD: Analytic CONTROL AND BRIDGE POINTS METHOD: Coradomat 3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:10,000 4. MANUSCRIPT DELINEATION METHOD: Smooth drafted	NAME STATE Michigan STATE NAME B. Thornton D. Norman B. Thornton D. Norman L. Neterer, Jr. N.A. N.A. D. Butler L. O. Neterer, Jr. N.A.	DATE Oct. 1979 Oct. 1979 Oct. 1979 Oct. 1979 Jan. 1980 Jan. 1980 Jan. 1980
Lambert Conformal Conic 5. SCALE 1:10,000 III. HISTORY OF OFFICE OPERATIONS OPERATIONS 1. AEROTRIANGULATION METHOD: Analytic 2. CONTROL AND BRIDGE POINTS METHOD: Coradomat CHECKED B 3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:10,000 4. MANUSCRIPT DELINEATION METHOD: SMOOTH drafted CHECKED B CONTOURS B CHECKED B CONTOURS B CHECKED B CONTOURS B CHECKED B CONTOURS B CHECKED B CONTOURS B CHECKED B CONTOURS B CHECKED B	NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME	DATE Oct. 1979 Oct. 1979 Oct. 1979 Oct. 1979 Jan. 1980 Jan. 1980 Jan. 1980 March 1981
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		RECOVERED BY	None		
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·		PRE-MARKED OR IDENTIFIED BY	None		
		RECOVERED BY	None		
. VERTICAL CON	ITROL	ESTABLISHED BY	None		
		PRE-MARKED OR IDENTIFIED BY	None		
		RECOVERED (Triangulation Stations) BY	None		
LANDMARKS AN	ND	LOCATED (Field Methods) BY	None		
AIDS TO NAVIG	ATION	IDENTIFIED BY	None		
	 -	TYPE OF INVESTIGATION			
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INVESTIGATION	1	SPECIFIC NAMES ONLY			į
		X NO INVESTIGATION			
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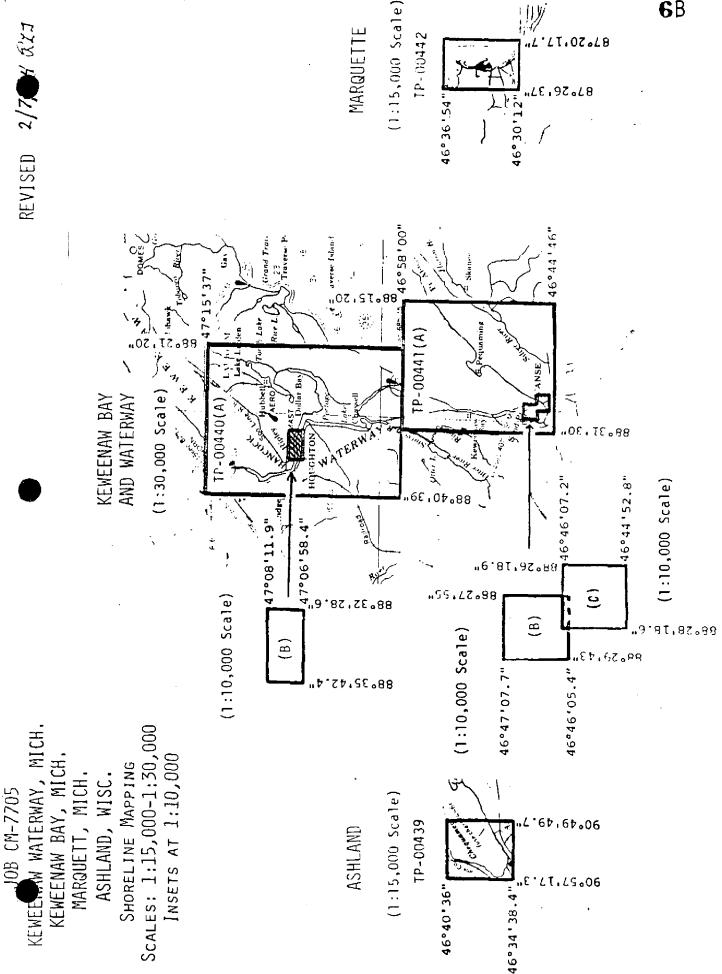
OAA FORM 76-36C 1-72)		NATIONAL OCEA	NIC AND ATMOSPH	TMENT OF COMMERCE
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. 🔲 FIELD INSPECTION OPE	RATION X FIELD	DEDIT OPERATION	(Partial)	
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. VERTICAL CONTROL	ESTABLISHED BY	<u></u>		
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	RECOVERED (Triangulation Stations) BY	None		
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PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	L. O. Neter	er, Jr.	<u>May 1981</u>
. BOUNDARIES AND LIMITS I. SOURCE DATA	SURVEYED OR IDENTIFIED BY	l N.A.		
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. GEOGRAPHIC NAMES:	REPORT NONE	6. BOUNDARY AN	DLIMITS: RE	

33 Photographs - small closeups of details

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

U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NOAA FORM 76-36D (3-72)TP-00440B RECORD OF SURVEY USE I. MANUSCRIPT COPIES COMPILATION STAGES DATE MANUSCRIPT FORWARDED DATA COMPILED DATE REMARKS MARINE CHARTS HYDRO SUPPORT Class III manuscript. Compilation complete March 1981 Superseded. pending field edit. Class III manuscript Partial field edit / Superseded Wares August 1982 applied Final Review Jan. 1984 Final Class III Map II. LANDMARKS AND AIDS TO NAVIGATION 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH CHART LETTER DATE REMARKS XXXXXXX NUMBER ASSIGNED FORWARDED 1 Non-floating aids to be charted. 2 Landmarks to be charted. 2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 3. PREPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: III. FEDERAL RECORDS CENTER DATA 1. X BRIDGING PHOTOGRAPHS; X DUPLICATE BRIDGING REPORT; X COMPUTER READOUTS. 2. X CONTROL STATION IDENTIFICATION CARDS; FORM NOS 1552XSUBMITTED BY FIELD PARTIES. 3. SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:

	SURVEY NUMBER	JOB NUMBER				SURVEY	
SECOND	TP(2)	PH	þ	REV	ISED	RES	URVEY
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NOAA FORM 76-41 (6-75)		VITOIOUS	Cad LOCATION TOO BE	ľ	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
		שבשכשם	CRIP IIVE REPURI CONTRUL RECURD		
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINAT	ORIGINATING ACTIVITY
TP-00440.A	CM-7705		N.A. 1927	Coastal	Mapping Unit, AMC
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MCM QUINCY NO. 2, 1939	Sta. 1004	28	=ħ	λ 88 ⁰ 34'29.403"	
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•	Sta. 1007	457405	=ĥ	λ 88°34'23.89"	
QUINCY, MINE NO. 2,	470083	70	-χ	\$ 47°08'11.72"	
	Sta. 1004	04	h=	λ 88 ⁰ 34'29.31"	
	00000		χ=	\$ 47°07.56.197"	
MCM NO. 68B, 1939	4/0083 Sta. 1011	29	y=	λ 88 ⁰ 33'43.875"	
	640047		<i>=</i> χ	\$ 47°07'57.900"	
26Y (MGS), 1939	Sta. 1001		±ĥ	λ 88 ⁰ 33'42.724"	
	470083		=χ	φ 47°07'22.887"	
CRAB. (MGS), 1934	Sta. 1039		y=	λ 88°35'27.651"	
	70083		-χ	\$ 47°07'09.302"	
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COMPUTED BY I. Moler		DATE 12/3/79	COMPUTATION CHECKED BY 1). Butler		DATE 12/4/79_
LISTED BY A. Rauck, Jr.		PA356/79	LISTING CHECKED BY D. Butler		DATE 12/26/79
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE
		SUPERSEDES N	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE	CH IS OBSOLETE.	

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COMPILATION REPORT

TP-00440B

31 - DELINEATION

Delineation was done on the Wild B-8 stereoplotter using 1:20,000 scale panchromatic photography. Quality of the photography and coverage was good.

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 photos.

35 - SHORELINE AND ALONGSHORE DETAILS

Alongshore details were delineated on the Wild B-8 stereoplotter and by office interpretation of the ratioed photos.

36 - OFFSHORE DETAILS

Offshore details were compiled by office interpretation from the photographs.

37 - LANDMARKS AND AIDS

Appropriate copies of Form 76-40s 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.

40 - HORIZONTAL AND VERTICAL ACCURACY

See Item #32.

TP-00440B

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with U.S. Geological Survey Quadrangles: Hancock, Michigan, 1946, photorevised 1975, scale 1:24,000; and Chassel, Michigan, 1946, photorevised 1975, scale 1:24,000.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with National Ocean Survey Chart: 14972, 21st edition, July 1979, scale 1:30,000; and inset, scale 1:10,000.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by,

J. Bre for

David Butler Cartographic Technician January 30, 1980

Approved for forwarding,

James I byd , Jr.

James L. Byrd, Jr. Chief, Coastal Mapping Unit CM-7705 KEWEENAW WATERWAY FIELD EDIT REPORT TP-00440 B -INSET-#1

51. METHOD

A visual inspection was made of the shoreline by automobile and on foot. Notes were made on the Master Field Edit Ozalid, photographs 77E(P) 694, 77E(P) 695, and 77E(P) 696. There were thirty-three horizontal pictures taken by the field editor for clarification of the compilation and one field sketch.

52. ADEQUACY OF COMPILATION

The compilation was very good.

53. MAP ACCURACY

The horizontal placement of the compiled detail was good. No statement about 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 the compiler for field edit application.

55. EXAMINATION OF PROOF COPY

No statement.

Field Editor

Lowell O. Neterer, Jr.

May 26, 1981

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

☆ U.S.GPO:1975-0-665-080/1155

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*Landmarks were visually verified from the banks of Reweenaw Waterway by man in field as no boat was available	CHIMNEY				,	38.60		11.29	(P)	V-Vis 5-23-81	14972
*Landmarks were visually verified from the banks of Keweenaw Waterway by man in field as no boat was available				٠.							
*Landmarks were visually verified the banks of Keweenaw Waterway by man in field as no boat was avail							44				
*Landmarks were visually verified the banks of Keweenaw Waterway by man in field as no hoat was avail											
		1 (1	ere visually verif E Keweenaw Waterwe 1 as no boat was	fied from							

e s	A. Field positions* requir location and date of fi	1 1	ation 5:	ION DETERMI	dentify XAMPLE:	_ ,,,	OFFICE IDENTIFIED AND LOCATED OBJECTS	IX	FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	TOUT TONS OF FRAMINGO AND/OR VERSITIED		OBJECTS INSPECTED FROM SEAWARD		TYPE OF ACTION	
d by field obser- round survey methods.	require entry of method of e of field work.	Planetable Sextant	Vis - Visually 5 - Field identified 6 - Theodolite	VERIFIED by symbols as follows:	ject.	(including month, ograph used to	TED OBJECTS	INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE O						NAME	RESPONSIBLE PERSONNEL
entirely, or in part, upon control establishe by photogrammetric methods.	EXAMPLE: V-Vis. 8-12-75	III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V~Vis.' and date.	Rec.' with date of rec EXAMPLE: Triang. Rec. 8-12-75	ION STATI	graph used to locate EXAMPLE: P-8-V 8-12-75 74L(C)2982	entry of date of f	FIELD (Cont'd) B. Photogrammetric file	OR ENTRIES UNDER METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,						Er.	PERSONNEL
in part, upon control established etric methods.		SUALLY ON PHOTOGRAPH	overy.	ON RECOVERED aid which is also a tri-	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-	field positions** require		REVIEWER REPRESENTATIVE	OFFICE ACTIVITY REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE	GEODETIC PARTY OTHER (Specify)	HYDROGRAPHIC PARTY	ORIGINATOR	

SUPERSEDES NOAA FORM 75-40 (2-73) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

分 U.S.GPO:1975-0-665-080/1155

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(8-74)	-40				NATIONAL OCE	U.S	S. DEPARTM	U.S. DEPARTMENT OF COMMERCE AND ATMOSPHERIC ADMINISTRATION	ORIGINATING ACTIVITY	ACTIVITY
Replaces C&GS Form 567.		MUMERCOAS	XXDIXX	DMARKS	職 LANDMARKS FOR CHARTS	RTS		,	CEODETIC PARTY PHOTO FIELD PARTY	7 X X
X TO BE CHARTED		REPORTING UNIT (Field Perry, Ship or Office) (Cosetal Manning Unit	STATE		LOCALITY Houghto	-ocality Houghton-Hancock	ş	DATE	COMPILATION ACTIVITY	IVITY
TO BE DELETED		AMC, Norfolk, VA	Michigan	an	(Keweer	(Keweenaw Waterway)	rway)	May 1981	TOUALITY CONTROL & REVIEW GRP	L & REVIEW GRP. NCH
The following objects	ects	HAVE X HAVE NOT	been inspected from SERRICAL to determine their value as landmorks.	ENCORA to de	termine the	r value as	landmarks.		(See reverse for responsible personnel)	sible personnel)
					N A	1927		MOTANG OF A STAN ON A GOLTON	06 1 0C4TION	
		CM-7705	TP-00440B		POSI	ION		(See instructions	(See instructions on reverse side)	CHARTS
1		DESCRIPTION	7	LATITUDE	UDE	LONGITUDE	rube			AFFECTED
CHARTING	(Record resson Show triangul	(Record reason for defetion of landmark or aid to navigation. Show triangulation station names, where applicable, in parenti	Record resson for dejetion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses	, ,	// D.M. Meters	, ,	// D.P. Meters	OFFICE	FIELD	
R MAST				47 08	09.49	88 34	41.66	77 E(P) 694 5-25-77	V-Vis. 5-23-81	62671
					223		0,0	7-7-7	10-07-0	7//47
R MAST	(WHDF) 1	1400 KHz 3 Vert.	(Obstr. Lts. FR (Lts.)	47 08	06.38	88 33	55.71 1174	77 E(P) 695 5-25-77	V-Vis. 5-23-81	14972
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				,	31.48	,	89 87			
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				70 -	31.51	33	52.71	=	=	=
STACK	Quincy Mining	fining Co., West	c of Two	47	973	88	1111			-
SPIRE				47 07	12.95	88 33	53.89	.	Ξ	Ε.
CUPOLA	Houghton	Courthouse	(Floodlighted)	47 07	12.82	88 34	07.59	= !	=	=
STACK	Hagh, School	1001		47 07	12.66 391	88 34	17.27	*	u	=
SPIRE	, 			47 07	36.33	88 35	11.53	77 E(P) 694 5-25-77	Ξ	t
	*Landmark of the K field as	*Landmarks were verified from the of the Keweenaw Waterway by man field as no boat was available.	led from the banks rway by man in the available.					-	·	

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FIELD POSITIONS are determined by field obser-	EXAMPLE: F-2-6-L 8-12-75	A. Field positions require entry of method of location and date of field work.	3 - Intersection 7 - Planetable 4 - Resection 8 - Sextant	1 1	plicable data by symbols as P - Photogrammetric Vis - Visually	FIELD	identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	_ <u>_</u>	OFFICE INCUTICIES AND LOCATED OF FECTS	INSTRUCTIONS FOR ENTI	AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	FORMS ORIGINATED BY QUALITY CONTROL	ж.	Eventions Determined and/or Verified	L	OBJECTS INSPECTED FROM SEASON		TYPE OF ACTION	2
by photogrammetric me	**PHOTOGRAMMETRIC FIELD F	of EXAMPLE: V-V:s. 8-12-75	Enter 'V+Vis.' and date	8-12-75	andmark or on station th date of		graph used to locate EXAMPLE: P-8-V 8-12-75 74L(C)2982	entry of date of f		INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,			. Mozgala	Lowell O. Neterer, Jr.	Lowell O. Neterer, Jr.			NAME	RESPONSIBLE PERSONNEL
ods.	FIELD POSITIONS are dependent part, upon control established	•	POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V+Vis.' and date.	nec.	dmark or aid which is also a tri- station is recovered, enter 'Triang. date of recovery.			mmetric field positions** require method of location or verification, field work and number of the photo-			QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	REVIEWER	OFFICE ACTIVITY REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE	OTHER (Specify)	GEODETIC PARTY	X PHOTO FIELD PARTY	ORIGINATOR	

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

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

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

1. Letter all information.

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

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

CHART	DATE	CARTOGRAPHER	REMARKS
_			Full Part Before After Verification Review Inspection Signed Via
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