

TP-00439

TP-00439

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
<h1>DESCRIPTIVE REPORT</h1>	
Map No. TP-00439	Edition No. 1
Job No. CM-7705	
Map Classification FINAL (Field Edited Map)	
Type of Survey SHORELINE	
<h2>LOCALITY</h2>	
State WISCONSIN	
General Locality CHEQUAMEGON BAY LAKE SUPERIOR	
Locality ASHLAND AND WASHBURN HARBORS	
<div style="border: 1px solid black; padding: 5px; text-align: center;"> 19⁷⁷ TO 19⁸⁰ </div>	
<h2>REGISTERED IN ARCHIVES</h2>	
DATE	

NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
DESCRIPTIVE REPORT - DATA RECORD		SURVEY TP. <u>00439</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>FINAL</u> JOB <u>CM-7705</u>	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit, Norfolk, VA OFFICER-IN-CHARGE A. Y. Bryson, CDR		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB <u>PH-</u> MAP CLASS <u></u> SURVEY DATES: 19 <u></u> TO 19 <u></u>	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Aerotriangulation August 28, 1978 Compilation January 18, 1979 Change No. 2 November 1, 1979		Photography March 20, 1977 Control April 11, 1978 Change No. 1 June 16, 1978	
II. DATUMS			
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify)	
2. VERTICAL: <input type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify) International Great Lakes Datum (1955). Lake Superior Low Water Datum.	
3. MAP PROJECTION Lambert Conformal Conic		4. GRID(S) STATE <u>Wisconsin</u> ZONE <u>North</u> STATE <u></u> ZONE <u></u>	
5. SCALE 1:15,000		STATE <u></u> ZONE <u></u>	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY		<u>S. Solbeck</u>	<u>Feb. 1979</u>
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Coradomat 21</u> CHECKED BY		<u>S. Solbeck</u> <u>D. Norman</u>	<u>Feb. 1979</u> <u>Feb. 1979</u>
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: <u>Wild B-8</u> CONTOURS BY SCALE: <u>1:15,000</u> CHECKED BY		<u>J. Moler</u> <u>J. Roderick</u> <u>N.A.</u> <u>N.A.</u>	<u>June 1979</u> <u>June 1979</u>
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: <u>Smooth drafted</u> CONTOURS BY CHECKED BY SCALE: <u>1:15,000</u> HYDRO SUPPORT DATA BY CHECKED BY		<u>J. Moler</u> <u>R. Kravitz</u> <u>N.A.</u> <u>N.A.</u> <u>J. Moler</u> <u>R. Kravitz</u>	<u>August 1979</u> <u>Sept. 1979</u> <u>August 1979</u> <u>Sept. 1979</u>
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		<u>R. Kravitz</u>	<u>Sept. 1979</u>
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		<u>D. Butler</u> <u>F. Margiotta</u>	<u>Oct. 1980</u> <u>Nov. 1980</u>
7. COMPILATION SECTION REVIEW BY		<u>F. Margiotta</u>	<u>Nov. 1980</u>
8. FINAL REVIEW BY		<u>L. Neterer, Jr.</u>	<u>Feb. 1984</u>
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		<u>L. Neterer, Jr.</u>	<u>Feb. 1984</u>
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		<u>P. Hawkins</u>	<u>Aug. 1984</u>
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		<u>E. DAUGHERTY</u>	<u>NOV, 1984</u>

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00439
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild R.C.-8 "E"		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES N.A. <input type="checkbox"/> REFERENCE STATION RECORDS N.A. <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY N.A.				ZONE Central	<input checked="" type="checkbox"/> STANDARD
				MERIDIAN 90th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
78E (P) 9984 - 9985	Apr. 30, 1978	12:50	1:30,000		
78E (P) 9997 - 9999A	Apr. 30, 1978	13:05	1:30,000		
78E (P) 0012 - 0016	Apr. 30, 1978	13:42	1:20,000		
78E (P) 0006 - 0009	Apr. 30, 1978	13:28	1:20,000		

REMARKS Lake level at time of photography was 600.19 ft., Lake Superior Low Water Datum, Ontonagon gage.

2. SOURCE OF MEAN HIGH-WATER LINE:

Mean high water line is not applicable. The "shoreline" was delineated from the above listed photographs and is defined as that line visible on the photographs which marks the contact between land and water.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

Not applicable.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED
None.					

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
No survey	No survey	No survey	No survey

REMARKS

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

TP-00439

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Tibbétts	June 1977-1978
2. HORIZONTAL CONTROL	RECOVERED BY R. Tibbétts	June 1977-78
	ESTABLISHED BY R. Tibbétts	June 1977
	PRE-MARKED OR IDENTIFIED BY R. Ledbetter	June 1978
3. VERTICAL CONTROL	RECOVERED BY None	
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None	
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
Photo identified2. VERTICAL CONTROL IDENTIFIED
None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
78E (P)9984	ELLIS, 1939		
9998	MARS, 1977		
9985	PLAN, 1977		
9999	TT-100L, 1941		

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

76-52 (1), 75-63 (5), 76-53 (5), 76-65 (1), 76-86 (1), 76-184 (1) and
76-109 (1).
1 Film Ozalid

TP-00439

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Tibbetts	July 1980
2. HORIZONTAL CONTROL	RECOVERED BY R. Tibbetts	July 1980
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
3. VERTICAL CONTROL	RECOVERED BY None	
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None	
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY C. Middleton	July 1980
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY C. Middleton	July 1980
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

78E (P) 0012, 0013, 0014, 0015 and 78E (P) 0007, 0009, and contact 78E (P) 9999

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
78E(P)0007	SPIRE		

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

- 1 Field edit report
- 1 Master field edit ozalid
- 2 Forms 76-40, 1 Form 76-96

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

RECORD OF SURVEY USE

TP-00439

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Final Reviewed Map	Feb. 1984	Final Map (Field Edited)	3/22/84	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
3		3/22/84	NOAA Form 76-40

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS. 76-40 SUBMITTED BY FIELD PARTIES.
 3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
 ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

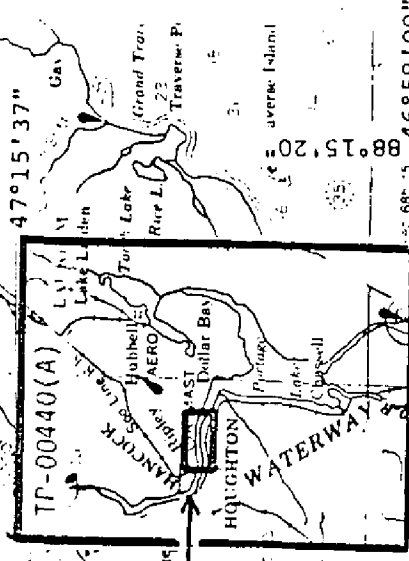
SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

JOB CM-7705
 KEWEENAW WATERWAY, MICH.
 KEWEENAW BAY, MICH.
 MARQUETTE, MICH.
 ASHLAND, WISC.
 SHORELINE MAPPING
 SCALES: 1:15,000-1:30,000
 INSETS AT 1:10,000

REVISED 2/7/82

KEWEENAW BAY
 AND WATERWAY

(1:30,000 Scale)



(1:10,000 Scale)

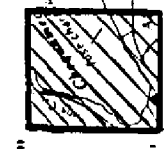
(B)

88°35'42.4"
 47°08'11.9"
 47°06'58.4"
 88°32'28.6"

ASHLAND

(1:15,000 Scale)

TP-C0439



46°40'36"
 16°34'38.4"
 90°57'17.3"
 90°49'49.7"

(1:10,000 Scale)

46°47'07.7"

(B)

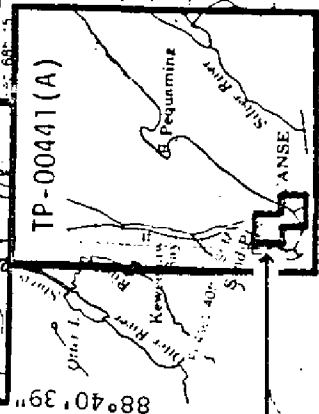
46°46'05.4"

(C)

46°44'52.8"

(1:10,000 Scale)

TP-00441(A)



88°40'39"
 88°31'30"
 88°26'18.9"
 88°27'55"

MARQUETTE

(1:15,000 Scale)

TP-00442



46°36'54"
 46°30'12"
 87°26'37"
 87°20'17.7"

7

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00439

This 1:15,000 scale map is one of four maps and three insets of Project CM-7705, Keweenaw Waterway, Keweenaw Bay, Marquette Harbor, Michigan and Ashland, Wisconsin.

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°41'36". 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 June 1978 involved the identification of horizontal control by photo identification methods to meet aerotriangulation requirements.

Photography was provided in April 1978 using the "E" camera with a focal length of 152.71 millimeters with panchromatic film at both 1:20,000 and 1:30,000 scale for aerotriangulation.

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

Compilation was performed at the Atlantic Marine Center during September 1979 from office interpretation of the April 1978 1:20,000 and 1:30,000 scale photography.

Field edit for this map was accomplished during July 1980.

The application of field edit was completed in November 1980 at the Atlantic Marine Center.

The final review was performed at the Atlantic Marine Center in February 1984.

This Descriptive Report contains all pertinent information used to compile this final map.

FIELD INSPECTION

TP-00439

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
ASHLAND, WISCONSIN

CM-7705

February 1, 1979

AREA COVERED

The area covered by this report is the shoreline bounding Chequamegon Bay from Ashland, north to Washburn, Wisconsin.

The area is covered by one 1:15,000 scale manuscript (TP-00439).

METHOD

Two strips of 1:30,000 scale black-and-white panchromatic photography were bridged by analytic aerotriangulation methods. Field identified control was provided. Office identified control and tie points between the strips were used as checks.

Common points were dropped from the bridging photography to the 1:20,000 scale panchromatic photography for ratio purposes, as well as, for B-8 stereo compilation.

The bridging photography was also ratioed for compilation purposes.

Ratio prints have been ordered. The manuscript has been ruled on the Coradomat 21.

ADEQUACY OF CONTROL

With the exception of station WASH (1953), all control proved adequate according to NOS standards.

Both subpoints to station WASH showed an error of approximately 10 feet in the y direction. No reasonable explanation could be found for this. By holding either of the two subpoints, this error was reduced to 5 feet for both, but it also reduced the accuracy of most other stations within the strip. By doing this, however, the entire strip was brought within the limits of the National Map Accuracy Standards.

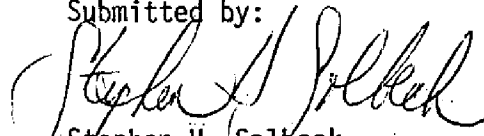
SUPPLEMENTAL DATA

USGS quads were used to provide vertical control for the strip adjustments. Nautical charts 14973 and 14974 were used to locate aids and landmarks.

PHOTOGRAPHY

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

Submitted by:



Stephen H. Solbeck

Approved and Forwarded:



Don O. Norman
Chief, Aerotriangulation Section

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. TP-00439	STATION NAME	JOB NO. CM-7705	GEODETTIC DATUM N.A. 1927		ORIGINATING ACTIVITY Coastal Mapping Unit, AMC			
			SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET STATE Wisconsin ZONE North	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS	
NASH 2, (No. 91, USE), 1939		460904 Page 1008	9	x=	φ 46° 37' 08.738"			
				y=	λ 90° 55' 42.771"			
NO. 80 (U.S.E.), 1939		460904 Page 1009	10	x=	φ 46° 36' 11.214"			
				y=	λ 90° 52' 56.170"			
BARKSDALE, DU PONT TANK POWDER COMPANY, TANK, 1939		460904 Page 1028	199141	x=	φ 46° 37' 32.400"			
				y=	λ 90° 57' 14.987"			
BARKSDALE, DU PONT POWDER COMPANY, STACK, 1939		460904 Page 1029	7	x=	φ 46° 37' 20.762"			
				y=	λ 90° 57' 10.133"			
ASHLAND, ST. AGNES CATHOLIC CHURCH, SPIRE, 1939		460904 Page 1025	984144	x=	φ 46° 35' 36.048"			
				y=	λ 90° 52' 56.000"			
TT-100L, 1941		U.S.G.S. Ashland Quad. 302	199100	x=	φ 46° 37' 23.91"			
				y=	λ 90° 55' 50.06"			
TT-1676, 1941		U.S.G.S. Ashland Quad. 302	201100	x=	φ 46° 39' 07.82"			
				y=	λ 90° 54' 59.69"			
MARS, 1977		Field Pos. Bridge form 76-41	198100	x=	1,762.082.56'			
				y=	520.265.52'			
PLAN, 1977		Field Pos. Bridge form 76-41	985100	x=	1,773.514.58'			
				y=	520.095.80'			
				x=				
				y=				
COMPUTED BY A. C. Rauck, Jr.			DATE 2/14/79	COMPUTATION CHECKED BY D. Brockhouse			DATE 2/15/77	
LISTED BY A. C. Rauck, Jr.			DATE 2/14/79	LISTING CHECKED BY D. Brockhouse			DATE 2/14/79	
HAND PLOTTING BY Coradomat			DATE	HAND PLOTTING CHECKED BY J. Molet			DATE 5/7/79	

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.		JOB NO.		GEODETIC DATUM		ORIGINATING ACTIVITY		REMARKS	
TP-00439		CM-7705		N.A. 1927		Coastal Mapping Unit, AMC			
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE Wisconsin ZONE North	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE					
ASHLAND BREAKWATER LIGHTHOUSE, 1939	460904 Page 1020	983140	x=	φ 46° 37' 41.478"					
			y=	λ 90° 52' 12.914"					
ASHLAND, HOLY FAMILY CATHOLIC CHURCH, SPIRE, 1939	460904 Page 1022	983140	x=	φ 46° 35' 42.054"					
			y=	λ 90° 52' 38.246"					
ASHLAND, ST. JOSEPH HOSPITAL CUPOLA, 1939	460904 Page 1026	3	x=	φ 46° 35' 36.837"					
			y=	λ 90° 52' 49.777"					
ASHLAND, BEASER GRAMMER SCHOOL, CUPOLA, 1939	460904 Page 1019	984140	x=	φ 46° 34' 53.186"					
			y=	λ 90° 53' 37.961"					
ASHLAND HIGH SCHOOL, CUPOLA, 1939	460904 Page 1021	5	x=	φ 46° 35' 04.548"					
			y=	λ 90° 52' 32.906"					
ASHLAND, ZION EVANGELICAL LUTHERAN CHURCH, SPIRE, 1939	460904 Page 1027	984143	x=	φ 46° 35' 13.422"					
			y=	λ 90° 52' 45.244"					
ASHLAND ABANDONED DISTILLERY, STACK, 1939	460904 Page 1017	984141	x=	φ 46° 34' 53.712"					
			y=	λ 90° 54' 11.912"					
ELLIS, 1939	460904 Page 1005	984100	x=	φ 46° 35' 02.109"					
			y=	λ 90° 52' 33.601"					
ASHLAND, LAKE SUPERIOR DISTRICT POWER COMPANY, STACK, 1939	460904 Page 1023	985140	x=	φ 46° 35' 14.176"					
			y=	λ 90° 54' 04.329"					
ASHLAND, SWEDISH EVANGELICAL LUTHERAN CHURCH, SPIRE, 1939	460904 Page 1024	2	x=	φ 46° 35' 02.880"					
			y=	λ 90° 53' 24.981"					
COMPUTED BY A. C. Rauck, Jr.		DATE 2/14/79	COMPUTATION CHECKED BY D. Brockhouse				DATE 2/15/79		
LISTED BY A. C. Rauck, Jr.		DATE 2/14/79	LISTING CHECKED BY D. Brockhouse				DATE 2/14/79		
HAND PLOTTING BY Coradomat		DATE	HAND PLOTTING CHECKED BY J. Moler				DATE 5/6/79		

COMPILATION REPORT

TP-00439

31 - DELINEATION

Delineation was by the Wild B-8 stereoplotting instrument using the April 1978 1:20,000, and 1:30,000 scale panchromatic photography. The coverage was adequate.

32 - CONTROL

Refer to the Photogrammetric Plot Report, dated February 1, 1979.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

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

35 - SHORELINE AND ALONGSHORE DETAILS

All details were delineated by the Wild B-8 stereoplotter. No unusual problems were encountered.

36 - OFFSHORE DETAILS

All offshore details were delineated from office interpretation of the photographs.

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.

TP-00439

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report, dated February 1, 1979.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with U.S.G.S. Quads: Ashland, West Wis., 1964, revised 1975, scale 1:24,000; Ashland, East Wis., 1964, revised 1975, scale 1:24,000; Washburn, Wis., 1964, revised 1975, 1:24,000 scale; and Long Island, Wis., 1964, revised 1975, scale 1:24,000.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with NOS Chart No. 14974, scale 1:15,000, 21st edition, dated June 2, 1979.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by,

J. Jeffery C. Moler
J. Jeffery C. Moler
Cartographic Technician
August 21, 1979

Approved,

J. L. Byrd, Jr.
James L. Byrd, Jr.
Chief, Coastal Mapping Unit

51. METHODS

Field Edit was performed according to the Photogrammetry Instructions of the National Ocean Survey Operations Manual.

The shoreline inspection was conducted from a skiff run close to shore, and by truck.

One landmark has been recommended for charting and is photo identified on Photograph 78 E(p) 0007. One landmark has been recommended for deletion on the same Photograph.

There are many offshore areas on this sheet that are indicated as foul with numerous piling. It was reported by long time local residents that many lumber mills used to be in existence along the shore of Chequameson Bay and that many were large in size. When logs were prepared for use as lumber, the edges were cut off and discarded. The cut-off edges were called slabs and reportedly the slabs were dumped into the bay and eventually became waterlogged and sank. Some of the piling areas in question were found to have these slabs littering the bottom but no standing piles were found other than those that are indicated as ruins on the Discrepancy Print and the Photographs. The limits of the slab areas could not be determined due to the depth of the water affording no visibility of the limits, and the lack of equipment to hydrographically locate the limits. It is recommended that the probable "slab" areas be left as they are presently charted until hydrography can be initiated in the area.

Field Edit notes will be found on the Photographs and the Discrepancy Print.

52. ADEQUACY OF COMPILATION.

Adequate pending compilation of Field Edit.

53. MAP ACCURACY


No test required.

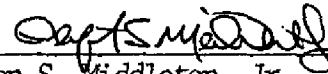
54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY.

Not required.

APPROVED AND FORWARDED: 
Robert S. Tibbetts
Chief, Photo Party 62

SUBMITTED 
Clifton S. Middleton, Jr.
Surveying Technician

REVIEW REPORT

TP-00439

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: Long Island, Wisconsin, dated 1964, Washburn, Wisconsin, Ashland East and Ashland West, Wisconsin, dated 1964, photorevised 1975. All four are 1:24,000 scale.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

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

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with N.O.S. Chart: 14974, 21st edition, dated June 2, 1979, scale 1:15,000.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Submitted by,

Lowell O. Neterer, Jr.
Lowell O. Neterer, Jr.

Approved for forwarding,

Billy H. Barnes

Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved,

Gregory J. Thomas
Chief, Photogrammetric Section, Rockville

Ronald K. Brewer
Chief, Photogrammetry Branch, Rockville

February 2, 1984

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-7705 (Keweenaw Waterway, Michigan)
TP-00439

Ashland

Barksdale

Bay City Line (RR)

Bono Creek

Boyd Creek

Burlington Northern (RR)

Chequamegon Bay

Chicago and North Western (RR)

Fish Creek

North Fish Creek

Soo Creek

Soo Line (RR)

Thompson Creek

Vandeventer Bay

Washburn

Whittlesey Creek

Wyman Point

Approved by:

Charles E. Harrington

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

[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	<input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED	FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	OFFICE ACTIVITY REPRESENTATIVE <input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64.)	
OFFICE 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 object. EXAMPLE: 75E(C)6042 8-12-75	FIELD (Cont'd.) B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field P - Photogrammetric L - Located Vis - Visually V - Verified 1 - Triangulation 5 - Field identified 2 - Traverse 6 - Theodolite 3 - Intersection 7 - Planetable 4 - Resection 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.

Replaces C&GS Form 567.

MONITORING AIDS FOR LANDMARKS FOR CHARTS

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.										U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION										MONITORING AND/OR LANDMARKS FOR CHARTS										ORIGINATING ACTIVITY									
CHARTING NAME		REPORTING UNIT (If field party, ship or office) Coastal Mapping Unit Norfolk VA A.M.C.		STATE Wisconsin		LOCALITY Ashland and Wasburn Harbors		DATE Oct. 1980		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED		FIELD		OFFICE		DATE		ORIGINATING ACTIVITY																			
CHARTING NAME		REPORTING UNIT		STATE		LOCALITY		DATE		METHOD AND DATE OF LOCATION		CHARTS AFFECTED		FIELD		OFFICE		DATE		ORIGINATING ACTIVITY																			
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CHARTING NAME		REPORTING UNIT		STATE		LOCALITY																																	

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	C. Middleton
POSITIONS DETERMINED AND/OR VERIFIED	C. Middleton
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	D. Butler
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
OFFICE 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 object. EXAMPLE: 75E(C)6042 8-12-75	FIELD (Cont'd) B. Photogrammetric field positions* require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75
**FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	
**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.	

NONFLOATING AIDS ~~FOR CHARTS~~ FOR CHARTS

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

FOR CHARTS

[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	C. Middleton
POSITIONS DETERMINED AND/OR VERIFIED	C. Middleton
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	D. Butler
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NOAA FORM 76-40 (8-74)										U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION										LANDMARKS FOR CHARTS										ORIGINATING ACTIVITY																																																											
Replaces C&GS Form 567.										REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Unit, AMC, Norfolk, VA										STATE Wisconsin										LOCALITY Ashland and Washburn Harbors										DATE Oct. 1980										<input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> COMPILATION ACTIVITY <input type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH (See reverse for responsible personnel)																																							
The following objects HAVE <input checked="" type="checkbox"/> BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.										JOB NUMBER CM-7705										SURVEY NUMBER TP-00439										DATUM N.A. 1927										METHOD AND DATE OF LOCATION (See instructions on reverse side)										CHARTS AFFECTED																																							
CHARTING NAME										DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)										LATITUDE ° / ' " D.M. Meters										LONGITUDE ° / ' " D.P. Meters										OFFICE										FIELD																																							
STACK																				46 36										17.2 531										90 51										26.7 569										78 E(P) 0014 April 30, 1978										V-Vis. July 3, 1980										14974									
SPIRE										(Ashland, Holy Family Catholic Church, Spire, 1939)										46 35										42.054 298.5										90 52										38.246 814.1										78 E(P) 0013 April 30, 1978										Triang. Rec. July 3, 1980										"									
SPIRE										(Ashland, St. Agnes Catholic Church, Spire, 1939)										46 35										36.048 1113.1										90 52										56.000 1192.1										"										"										"									
NWS SIG STA.																				46 35										32.7 1010										90 53										06.8 144										"										V-Vis. July 8, 1980										"									
RELAY TR																				46 35										29.6 914										90 52										55.1 1173										"										V-Vis. July 3, 1980										"									
SPIRE																				46 35										11.5 356										90 53										31.6 674										78 E(P) 0012 April 30, 1978										V-Vis. July 8, 1980										"									
SPIRE										(Ashland, Beaser Grammar School, Cupola, 1939)										46 34										53.186 1642.3										90 53										37.461 808.3										"										"																			
STACK										(Ashland, Lake Superior District Power Company, Stack, 1939)										46 35										14.176 437.7										90 54										04.329 92.2										"										"																			
STACK										(Ashland Abandoned Distillery, Stack, 1939)										46 34										53.712 1658.5										90 54										11.912 253.6										78 E(P) 0012 April 30, 1978										V-Vis. July 15, 1980										"									
SPIRE																				46 40										28.4 877										90 53										46.8 995										78 E(P) 0007 April 30, 1978										V-Vis. July 11, 1980										"									

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	C. Middleton
POSITIONS DETERMINED AND/OR VERIFIED	C. Middleton
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	D. Butler
ACTIVITIES	
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
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