

TP-01444

TP-01444

NOAA FORM 76-35
(6-80)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Map No.
TP-01444*Edition No.*
1st*Job No.*
CM-8603*Map Classification*
III*Type of Survey*
SHORELINE

LOCALITY

State
MICHIGAN*General Locality*
LAKE HURON*Locality*
LES CHENEAX ISLANDS

LA SALLE ISLAND to BEAVER TAIL POINT

19 87. TO 19

REGISTERED IN ARCHIVES

DATE

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.											
DESCRIPTIVE REPORT - DATA RECORD		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">TYPE OF SURVEY</td> </tr> <tr> <td>☒ ORIGINAL</td> <td></td> </tr> <tr> <td>☐ RESURVEY</td> <td></td> </tr> <tr> <td>☐ REVISED</td> <td></td> </tr> </table>		TYPE OF SURVEY		☒ ORIGINAL		☐ RESURVEY		☐ REVISED			
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☐ REVISED													
PHOTOGRAMMETRIC OFFICE Photogrammetry Branch Rockville, MD. OFFICER-IN-CHARGE Capt. A.Y. Bryson		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">SURVEY TP-01444</td> </tr> <tr> <td colspan="2">MAP EDITION NO. (1)</td> </tr> <tr> <td colspan="2">MAP CLASS III</td> </tr> <tr> <td colspan="2">JOB PH-CM-8603</td> </tr> </table>		SURVEY TP-01444		MAP EDITION NO. (1)		MAP CLASS III		JOB PH -CM-8603			
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TYPE OF SURVEY													
☐ ORIGINAL													
☐ RESURVEY													
☐ REVISED													
I. INSTRUCTIONS DATED													
1. OFFICE		2. FIELD											
Aerotriangulation Office		No instructions furnished May 6, 1987											
July 26, 1988													
II. DATUMS													
1. HORIZONTAL: ☐ 1927 NORTH AMERICAN		OTHER (Specify) NAD 1983											
2. VERTICAL: ☐ MEAN HIGH-WATER ☐ MEAN LOW-WATER ☐ MEAN LOWER LOW-WATER ☐ MEAN SEA LEVEL		OTHER (Specify) International Great Lakes Datum (1955)											
3. MAP PROJECTION Lambert Conformal Conic Projection		4. GRID(S) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">STATE Michigan</td> <td style="width:50%;">ZONE Central</td> </tr> <tr> <td>STATE</td> <td>ZONE</td> </tr> </table>		STATE Michigan	ZONE Central	STATE	ZONE						
STATE Michigan	ZONE Central												
STATE	ZONE												
5. SCALE 1:20,000													
III. HISTORY OF OFFICE OPERATIONS													
OPERATIONS		NAME	DATE										
1. AEROTRIANGULATION METHOD: Analytical		BY L. Harrod, Jr.	June 1988										
LANDMARKS AND AIDS BY		L. Harrod, Jr.	June 1988										
2. CONTROL AND BRIDGE POINTS METHOD: Kongsberg Flatbed Plotter		PLOTTED BY L. Harrod, Jr.	June 1988										
CHECKED BY		N/A											
3. STEREOSCOPIC INSTRUMENT COMPILATION		PLANIMETRY BY T. Doyle	Sept. 1988										
INSTRUMENT: Wild B-8		CHECKED BY J. Schad	Sept. 1988										
SCALE: 1:20,000		CONTOURS BY N/A											
CHECKED BY N/A													
4. MANUSCRIPT DELINEATION		PLANIMETRY BY T. Doyle	Oct. 1988										
METHOD: Smooth Drafting		CHECKED BY J. Schad	Nov. 1988										
SCALE: 1:20,000		CONTOURS BY N/A											
CHECKED BY N/A													
HYDRO SUPPORT DATA BY N/A													
CHECKED BY N/A													
5. OFFICE INSPECTION PRIOR TO FIELD EDIT		BY N/A											
6. APPLICATION OF FIELD EDIT DATA		BY N/A											
CHECKED BY N/A													
7. COMPILATION SECTION REVIEW		BY J. Schad	Dec. 1988										
8. FINAL REVIEW		BY J. Schad	Dec. 1988										
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH		BY J. Schad	NOV. 89										
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH		BY P. Dampf	NOV. 89										
11. MAP REGISTERED - COASTAL SURVEY SECTION		BY J. PIRRO	NOV. 89										

NOAA FORM 76-36B (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY			
COMPILATION SOURCES			TP-01444		
1. COMPILATION PHOTOGRAPHY					
CAMERA(S) Wild RC-8(E) F/L 152.71		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE ☐ PREDICTED TIDES ☒ REFERENCE STATION RECORDS ☐ TIDE CONTROLLED PHOTOGRAPHY				ZONE Eastern MERIDIAN 75th ☒ STANDARD ☐ DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
87 EC 1091-1093	5/24/87	14:35	1:50,000	580.1 ft.	
87 EC 1552	6/4/87	14:40	1:50,000	580.2 ft.	
(Water levels at times of photography based on gage at Mackinaw City, Michigan. Station 5080).					
REMARKS Plane of reference (Low Water Datum) for Lake Huron is 576.8 ft. The shoreline datum is the lake level at the times of photography.					
2. SOURCE OF MEAN HIGH-WATER LINE: The photograph listed above.					
3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE: N/A					
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
5. FINAL JUNCTIONS					
NORTH	EAST	SOUTH	WEST		
N/A	TP-01443	N/A	TP-00360 CM-8412		
REMARKS					

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

HISTORY OF FIELD OPERATIONS

TP-01444

I. ☒ FIELD ~~INSPECTION~~ OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J.E. Dunford	May/June 87
2. HORIZONTAL CONTROL	RECOVERED BY J.E. Dunford ESTABLISHED BY J.D.S. PRE-MARKED OR IDENTIFIED BY C. Brown	May 1987 1984 May 1987
3. VERTICAL CONTROL	RECOVERED BY N/A ESTABLISHED BY N/A PRE-MARKED OR IDENTIFIED BY N/A	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY N/A LOCATED (Field Methods) BY N/A IDENTIFIED BY N/A	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ 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

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
87 EC 1092	McKay		

3. PHOTO NUMBERS (Clarification of details)

Station McKay was established by satellite positioning in 1984 for project CM-8412.

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

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

One Field Work Brown Binder

RECORD OF SURVEY USE

TP-01444

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Final Reviewed Class III Map	Dec. 1988	Chart Maintenance Print		
Final Reviewed Class III Map	Dec. 1988	Notes to Hydrographer Print	Dec. 1989	Dec. 1989

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1 pg		Dec. 1988	Cartographic Features of Charting Interest

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 567 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 ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

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SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT
TP-01444

Project CM-8603 consisted of the production of Class III shoreline maps. Five 1:20,000-scale and one 1:10,000-scale maps were compiled. The area compiled extends from Beaver Tail Point to Gros Cap, Lake Huron, Michigan.

The purpose of this map, TP-01444, 1:20,000 scale, is to provide contemporary shoreline data for maintenance of the nautical charting program.

Field operations consisted of aerial photography and the recovery, establishment, and identification (premarking) of horizontal control necessary for aerotriangulation. Eight horizontal control stations were paneled for use in aerotriangulation. Field operations for project CM-8603 commenced in May 1987 and concluded in June 1987.

Natural color photographs 1:50,000 scale and 1:30,000 scale were taken in May and June 1987 with the Wild RC-8(E) camera.

Four strips of 1:50,000-scale color photographs and one strip of 1:30,000-scale color photographs were bridged and adjusted to the ground using the General Integrated Analytical Triangulation Program (GIANT).

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

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

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

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

FIELD INSPECTION
TP-01444

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

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AEROTRIANGULATION REPORT
CM-8603
BEAVER TAIL POINT TO GROS CAP
LAKE HURON
MICHIGAN
JUNE, 1988

AREA COVERED

This report covers the shoreline and adjacent waterways from Beaver Tail Point to Gros Cap. The project consists of five 1:20,000 scale sheets; TP-01441 through TP-01445 and one 1:10,000 scale sheet; TP-01446, in the vicinity of St. Ignace.

METHOD

Four strips of 1:50,000 scale and one strip of 1:30,000 scale color photographs were bridged by analytical aerotriangulation methods and adjusted to ground using the General Integrated Analytical Triangulation Program (GIANT). The strips were measured using the WILD STK comparator. Horizontal control consists of pre-marked stations and office identified stations. Common points were transferred between strips to ensure adequate junctioning.

Ratio values were determined for the bridging photographs. A copy of these values and a sketch of the photo coverage are attached to this report.

Worksheets and final manuscripts were plotted on the Kongsberg Plotter. The sheets were plotted in the Michigan State Plane Coordinate System, Central Zone. This is a Lambert conformal conic projection. All positions are based on NAD 1983. In addition, 10 mm ticks depicting NAD 1927 projection intersections were plotted at twice the interval of the NAD 1983 projection intersections.

ADEQUACY OF CONTROL

The control meets the National Ocean Service requirements for manuscripts. A listing of closures to control is attached.

The control station, MORAN MICROWAVE TOWER, 1965, and its sub-point would not fit with the other control in the project. The aerotriangulation position is 83 feet west and 78 feet north of the published position. The 1964 USGS quad of the area shows the tower south of a building. The 1987 photos show the tower west of a building. The published position plots on the tower symbol on the quad. The tower has probably been moved.

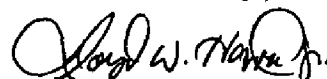
SUPPLEMENTAL DATA

USGS topographic quadrangles were used to obtain vertical control for bridging. NOS Nautical Charts were used to locate aids and landmarks.

PHOTOGRAPHY

The coverage, overlap, and quality of the color photographs were adequate of the job.

Submitted by,



Lloyd W. Harrod Jr.

Approved and Forwarded



Don O. Norman
Chief, Aerotriangulation Unit

RATIO VALUES -
CM-8603

<u>1:50,000 Bridging Photographs</u>	<u>Ratio Value</u>
87 E (C) 1089 - 1101	2.53
87 E (C) 1546 - 1552	2.56
87 E (C) 1559 - 1564	2.56
87 E (C) 1571 - 1576	2.56
 <u>1:30,000 Bridging Photographs</u>	
87 E (C) 1218 - 1220	3.03

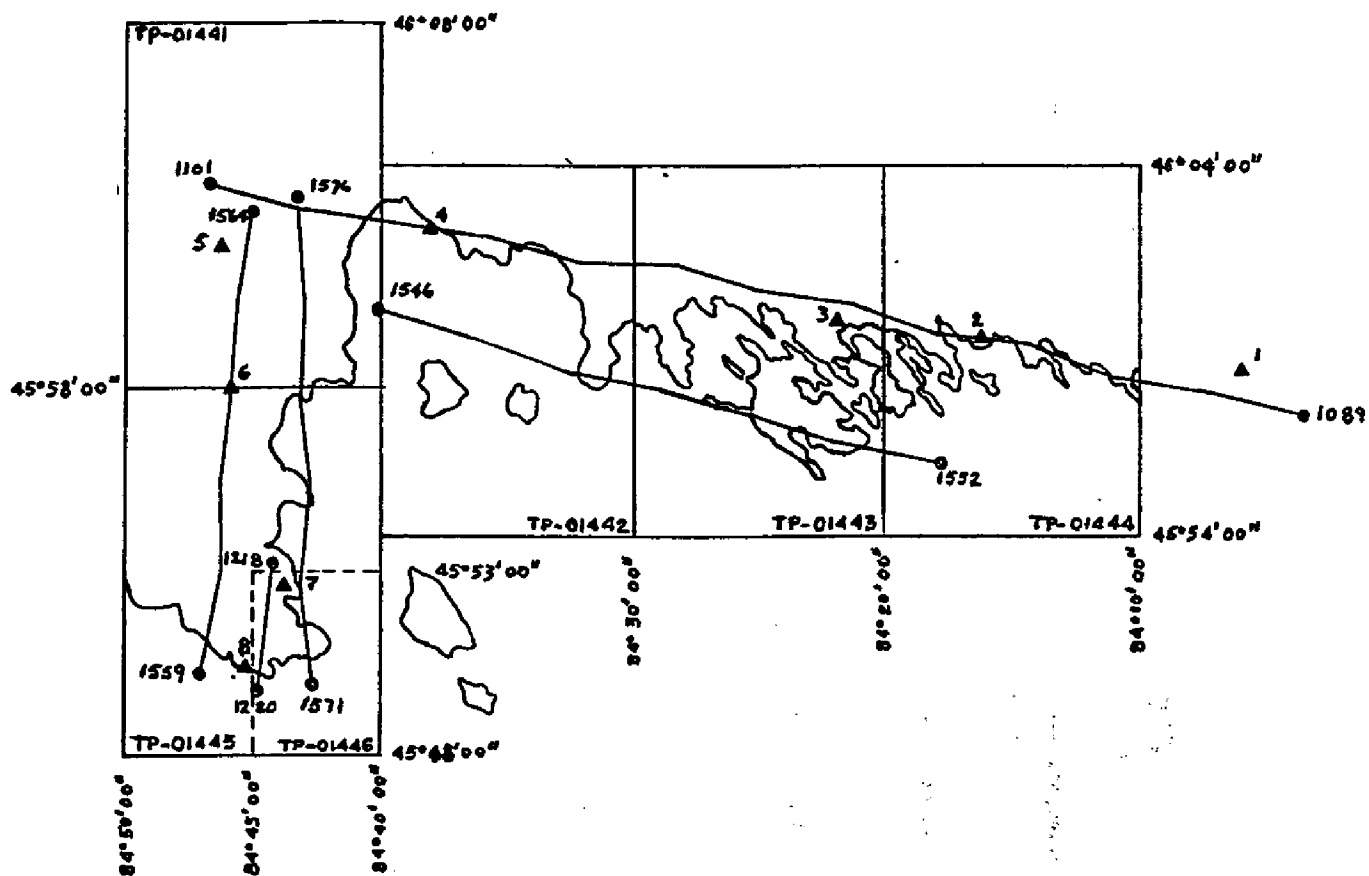
FIT TO CONTROL

<u>STATION NAMES</u>	<u>POINT NO.</u>	<u>VALUES IN FEET</u>	
		<u>X</u>	<u>Y</u>
▲ 1. ALBANY BAY Panel #1 Direct	(089100)	1.1	-0.9
▲ 2. MCKAY Panel #2 Direct	(093100)	-1.3	1.5
▲ 3. CEDAR Panel #3 Direct	(094100)	-0.2	-0.2
▲ 4. JAMIESON Sub pt. Panel #4	(099101)	0.2	-0.6
▲ 5. FLAT Sub pt. Panel #5	(101101)	0.4	-0.0
6. MORAN MICROWAVE TOWER Sub pt. Panel #6	(562101)	-86.6	77.0
▲ 7. HISER Sub Pt. Panel #7	(572101)	-0.4	1.2
▲ 8. GREEN Sub Pt. Panel #8	(571101)	0.3	-1.0
9. MORAN MICROWAVE TOWER	(562100)	-83.0	78.5

▲ Points held in the adjustment

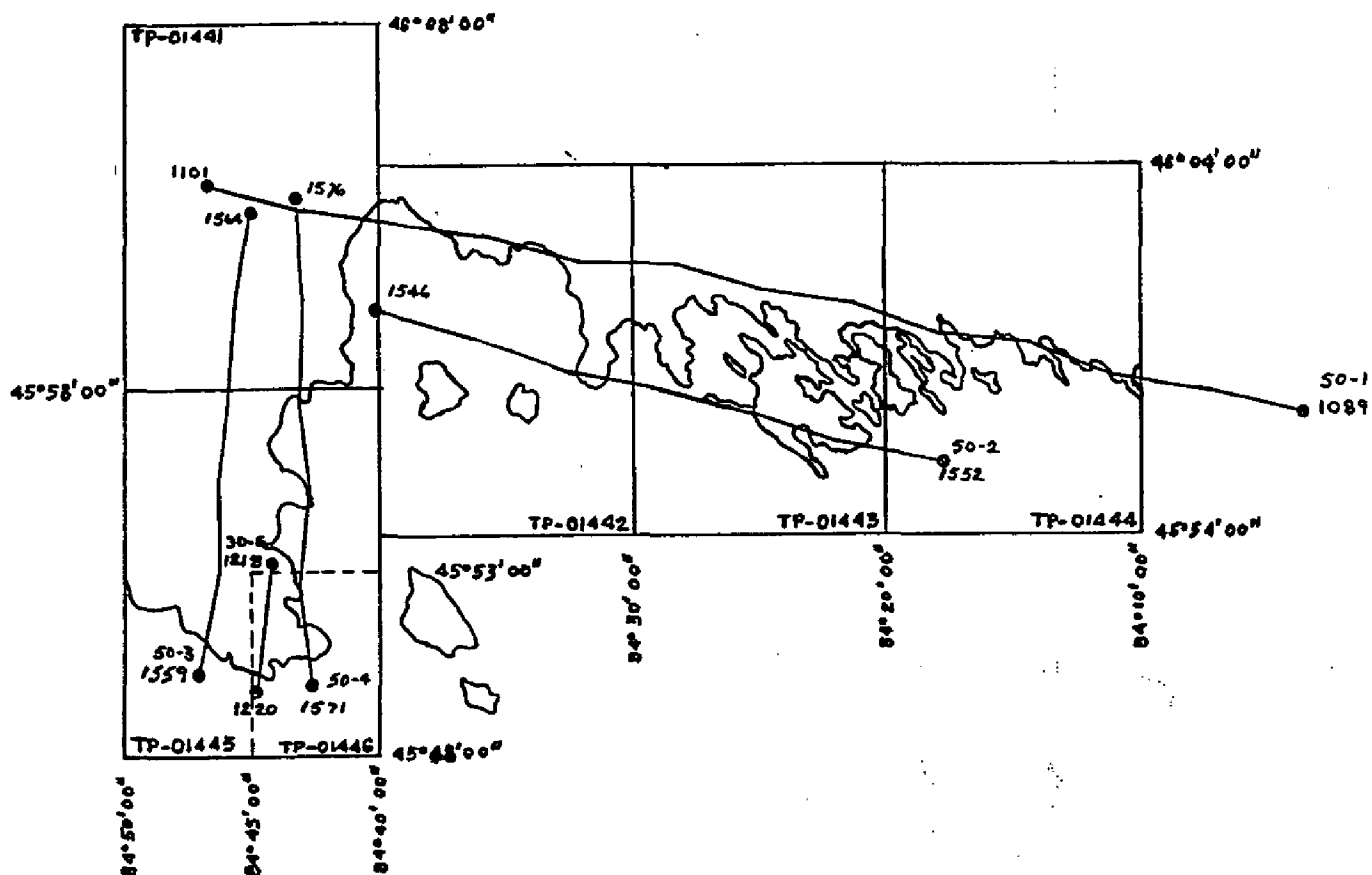
Station numbers keyed to horizontal control sketch

HORIZONTAL CONTROL



JOB CM-8603
 BEAVER TAIL POINT TO GROS CAP
 LAKE HURON
 MICHIGAN
 SHORELINE MAPPING
 SCALE 1:20,000
 11/9/00

BRIDGING PHOTOGRAPHS



JOB CM-8603
 BEAVER TAIL POINT TO GROS CAP
 LAKE HURON
 MICHIGAN
 SHORELINE MAPPING
 SCALE 1:20,000
 1:10,000

COMPILATION REPORT
TP-01444

31. DELINEATION

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

32. CONTROL

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

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

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

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

35. SHORELINE AND ALONGSHORE DETAILS

The visible line of contact between land features and the water was compiled as the shoreline. Alongshore, several ramps and numerous piers and boathouses were compiled.

Delineation of details was based on office interpretation of the compilation photographs and were compiled as described in item 31 of this report.

36. OFFSHORE DETAIL

Offshore detail consisted primarily of rocks and awash areas.

37. LANDMARKS AND AIDS

One landmark and one aid were located on this map. Refer to the Cartographic Features of Charting Interest page bound with this report.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

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

40. HORIZONTAL AND VERTICAL ACCURACY

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

41. through 45. - Not applicable.

46. COMPARISON WITH EXISTING MAPS

Comparisons were made with the following 1:24,000 scale U.S. Geological Survey quadrangles:

Prentiss Bay, Michigan, 1964
Cedarville, Michigan, 1964
Pickford SE, Michigan, 1964

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following National Ocean Service nautical charts:

14885, 17th Edition (November 29, 1986), scale 1:20,000.
14881, 25th Edition (December 28, 1985), scale 1:80,000.

Submitted by,

Ted Doyle

Ted Doyle
Cartographer

John A. Mooney
Approved and Forwarded:

John A. Mooney
Chief, Special Projects Unit

GEOGRAPHIC NAMES

Final Name Sheet

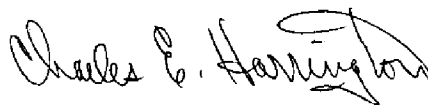
CM-8603 (Beaver Tail Point to Gros Cap, MI)

TP-01444

Bass Cove Lake
Bay Point
Bear Island
Beaver Tail Bay
Beaver Tail Creek
Boot Island
Bush Bay
Coryell Island
Cove Island
Crow Island
Crow Point.
East Entrance
Fishery Point
Flowers Bay
Flowers Creek
Government Bay
Government Island
Gravelly Island
Hill Channel
Hill Island
Huron, Lake

Industrial (RR)
No 8, Island
Jocker Point
La Salle Island
Les Cheneaux Islands
Little Island
Magulpin Channel
McKay Bay
McKay Creek
Moscoe Channel
Penny Island
Port Dolomite
Prentiss Bay
Prentiss Creek
Rover Island
Scammon Harbor
Scotty Bay
Strong's Island
Whitefish Point
White Loon Island

Approved:



Charles E. Harrington
Chief Geographer
Nautical Charting Division
Charting and Geodetic Services

FINAL REVIEW REPORT
TP-01444

61. GENERAL STATEMENT

Refer to the Summary bound with this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS - None

63. COMPARISON WITH MAPS OF OTHER AGENCIES

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

Prentiss Bay, Michigan, 1964
Cedarville, Michigan, 1964
Pickford SE, Michigan, 1964

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS - None

65. COMPARISON WITH NAUTICAL CHARTS

14885, Scale 1:20,000, 17th Edition, dated November 29, 1986.
14881, Scale 1:80,000, 25th Edition, dated December 28, 1985

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Submitted by,

James E. Schad
James E. Schad
Unit Reviewer

Approved for forwarding:

John A. Meany
Chief, Special Projects Unit

Approved:

N/A
Chief, Photogrammetric Production Section

MAC Gm. turt
Chief, Photogrammetry Branch

CARTOGRAPHIC FEATURES OF CHARTING INTEREST

1 PAGE of 1

PROJECT NUMBER: GM 8603

MAP NUMBER: TP-01444

LOCALITY, STATE: Les Cheneaux Islands, Michigan

SCALE: 1:20,000

DATUM: NAD 1983

The following charted landmarks, nonfloating aids to navigation and possible landmark value have been identified and measured during photogrammetric operations. Refer to Nautical Charting Division Standard Digital Data Exchange Format documentation for clarification of NCD Quality (Q.C.) and Cartographic (CARTO) Codes. Please note that cartographic code 993 is a photogrammetric source code for cartographic features of possible landmark value.

FEATURE DESCRIPTION	CARTO CODE	GEOGRAPHIC POSITION		NCD Q.C.	DATE OF LOCATION
		LAT.	LONG.		
CROW ISLAND LEADING LIGHT	200	45-58-07.8	84-14-26.4	6	05/24/87
R RELAY MAST	198	45-59-34.283	84-15-31.498	X ³ psd	05/24/87

_end-

Listing approved by: James Schad
FINAL REVIEWER

12/16/89
DATE

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 Review.

[illegible]