#### NOAA FORM 76-35 (6-80)

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

# DESCRIPTIVE REPORT

17 37	To the at
Map No.	Edition No.
TP-01445	1st
Job No.	
CM-8603	
Map Classification	
111	
Type of Survey	
SHORELINE	
LOCALITY	7
State	
MICHIGAN	
General Locality	WILL CONTROL OF THE PROPERTY O
LAKE MICHIGAN and LAKE HURO	N
Locality	
STRAITS OF MACKINAC	·
ST. IGNACE	
<b>19</b> :87 <b>TO</b> 19	
REGISTERED IN A	RCHIVES
DATE	

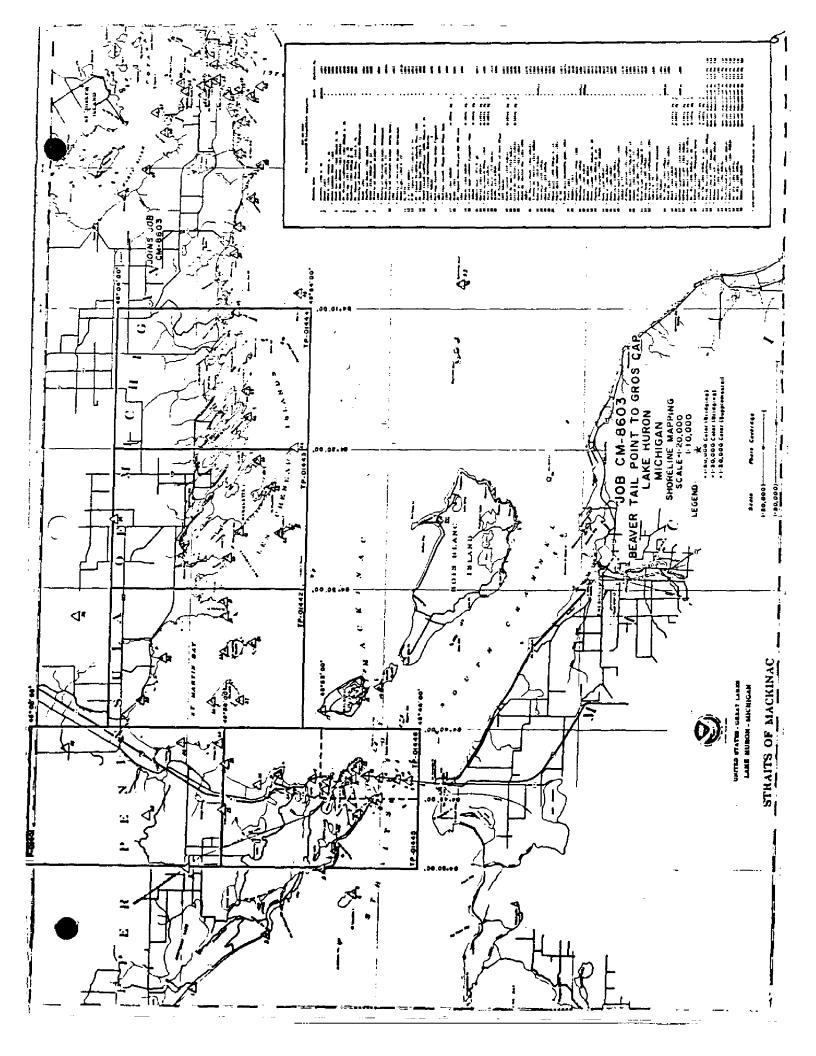
NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TP-01445
The state of the s	D ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS 111
DESCRIPTIVE REPORT - DATA RECORD	REVISED	лов <b>РК. СМ-8603</b>
PHOTOGRAMMETRIC OFFICE		
Photogrammetry Branch		ING MAP EDITION
Rockville, MD.	TYPE OF SURVEY	JOB PH
OFFICER-IN-CHARGE	ORIGINAL RESURVEY	MAP CLASS
Capt. AYY. Bryson	REVISED	19TO 19
I. INSTRUCTIONS DATED	<u> </u>	
1. OFFICE	2.	FIELD
Aerotrinagulation No instructions furnished Office July 26; 1989	Field	May66, 1989
		<u>.</u>
II. DATUMS	T	
1. HORIZONTAL: 1927 NORTH AMERICAN	OTHER (Specify)	
	NAD 1983 OTHER (Specify)	
MEAN HIGH-WATER  MEAN LOW-WATER  MEAN LOWER LOW-WATER  MEAN SEA LEVEL		t Lakes Datum (1955)
3. MAP PROJECTION	4.	GRID(S)
Lambert Conformal Conic Projection	Michigan	zone Central
5. SCALE 1:20,000	STATE	ZONE
III. HISTORY OF OFFICE OPERATIONS	<u> </u>	
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY	L. Harrod Jr.	6/88
METHOD: Analytical LANDMARKS AND AIDS BY	L. Harrod, Jr.	6/88
2. CONTROL AND BRIDGE POINTS PLOTTED BY	L. Harrod, Jr.	6/83
METHOD: Kongsberg Flatbed Plotter CHECKED BY	N/A	9/88
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	D. Graham J. Schad	9788
COMPILATION CHECKED BY INSTRUMENT: WILD B-8 CONTOURS BY	N/A	
SCALE: 1:20.000 CHECKED BY	N/A	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	D. Graham	10/88
CHECKED BY	J. Schad	10/88
CONTOURS BY	N/A	
метнор: Smooth Drafting снескер ву	N/A	
scale: 1:20,000	N/A?	
CHECKED BY	N/A N/A	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	N/A	
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	N/A	
7. COMPILATION SECTION REVIEW BY	J. Schad	12/88
8. FINAL REVIEW BY	J. Schad	12/88
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	1. Dongsing J. Sc	had 11-89
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	P. Dempsey	11-29
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	J. KikON	PR.Call

COMPILATION POTOGRAPHY  TAMERA SISTEM  TOP-054 15 15 2.71  TYPES OF PHOTOGRAPHY  LEGEND  TIME REFERENCE  THE LEGEND TOTAL STATE REFERENCE  THE LEGEND TOTAL STATE REFERENCE  THE CONTROLLED PHOTOGRAPHY  NUMBER AND TYPE  TO ATE  TO A	NOAA FORM 76-36B (3-72)				NATIONAL OC	FANIC AND ATA	EPARTMENT ( OSPHERIC AD NATIONAL O	MINISTRATI
TYPES OF PHOTOGRAPHY LEGEND  TIME REFERENCE  PREDICTED TIDES  REFERENCE STATION RECORDS  REPLACE STATION RECOR			CO	APILATION	SOURCES	TP	-01445	CEAN SURV
WILD RC#8(E) F/L 152.71  TIDE STAGE REFERENCE  PREDICTED TIDES  REFERENCE STATION RECORDS  REFERENCE STAGE OF TIDE  NUMBER AND TYPE  DATE  TIME  SCALE  STAGE OF TIDE  The water level at the time of photography we 580.2 ft. @Seed on gag at Mackinaw City, Michigan. (Sta. 5080)  REMARKS Plane of reference (Low Water Datum) for Lake Hurron is 576.8 ft. The shoreline datum is lake level at the time of photography.  SOURCE OF MEAN HIGH-WATER LINE:  The photograph listed above  A. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)  SURVEY NUMBER  DATE:  SURVEY NUMBER  DATE:  SURVEY COPY USED  SURVEY NUMBER  DATE:  SURVEY SOUTH  TP-01441  TP-01441  TP-01441  TP-01442  N/A  TP-01447  TP-01447  TP-01447  TP-01447  TP-01447  TP-01447	. COMPILATION PH	OTOGRAPHY						
PREDICTED TIDES PREDICTED TO THE PARCHROMATIC PARCHROMATIC PROPRED  NUMBER AND TYPE  87 EC 1559-1562 6/4/87 15:12 1:50,000 7 The water level at the time of photography we 580.2 ft. @Seed on gag at Mackinaw City, Michigan. (Sta. 5080)  NEMARKS Plane of reference (Low Water Datum) for Lake Huron is 576.8 ft. The shoreline datum is lake level at the time of photography.  2 SOURCE OF MEAN HIGH-WATER LINE: The photograph listed above  3. SOURCE OF MEAN LOW-WATER CAPELINE: N/A  A. 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 SURVEY NUMBER POTICES SURVEY SURVEY SURVEY COPY USED SURVEY NUMBER PATE(S) SURVEY SURVEY NUMBER PATE(S) SURVEY SURVEY SURVEY SURVEY SURVEY NUMBER TP-01441 TP-01442 N/A TP-01447 TP-01447 TP-01447		F) F/I	152 71	TYPES			TIME REFERE	NCE
REFERENCE STATION RECORDS  TIME SCALE  REFERENCE STATION RECORDS  NUMBER AND TYPE  DATE  TIME  SCALE  STAGE OF TIDE  The water level at the time of photography water line:  The photograph water of photography.  REMARKS Plane of reference (Low Water Datum) for Lake Huron is \$76.8 ft. The shoreline datum is lake level at the time of photography.  SOURCE OF MEAN LOW-WATER CINE:  The photograph listed above  The photograph listed above  REMARKS Plane of reference (Low Water Datum) for Lake Huron is \$76.8 ft. The shoreline datum is lake level at the time of photography.  SOURCE OF MEAN LOW-WATER CINE:  The photograph listed above  REMARKS Plane of reference (Low Water Datum) for Lake Huron is \$76.8 ft. The shoreline datum is lake level at the time of photography.  SOURCE OF MEAN LOW-WATER CINE:  The photograph listed above  REMARKS Plane of reference (Low Water Datum) for Lake Huron is \$76.8 ft. The shoreline datum is lake level at the time of photography.  SOURCE OF MEAN LOW-WATER CINE:  The photograph listed above  REMARKS Plane of reference (Low Water Datum) for Lake Huron is \$76.8 ft. The shoreline datum is lake level at the time of photography.  SOURCE OF MEAN LOW-WATER CINE:  The photograph listed above  SOURCE OF MEAN LOW-WATER CINE:  N/A  SOURCE OF MEAN LOW-WATER CONTROL WATER LINE:  N/A  SOURCE OF MEAN LOW-WATER OF MEAN LOW-WATER LINE:  N/A  SOURCE OF MEAN LOW-WATER OF MEAN LOW-WATER LINE:  N/A  SOURCE OF MEAN LOW-WATER CONTROL WATER LINE:  N/A  SOURCE OF M	IDE STAGE REFERE	ENCE	1,72.71	(h) 00) 0		ZONE		
TITLE CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)  SOURCE OF MEAN LOW-WATER CINE:  The photograph Contemporary Hydrographic Survey copy used Survey number Date(s)  SURVEY OPP USED Survey Copy used Survey number Date(s)  SURVEY OPP USED Survey Number Date(s)  SURVEY Copy used Survey Number Date(s)  SURVEY OPP USED SURVEY NUMBER DATE(s)  SURVEY JOINS CM 86.  TP-01447  TP-01447  TP-01447  TP-01447  TP-01447						Eas	tern _	X)STANDA
87 EC 1559-1562 6/4/87 15:12 1:50,000 The water level at the time of photography we 587 EC 1570-1572 6/4/87 15:44 1:50,000 87 EC 1574 6/4/87 15:45 1:50,000 15:40 1:50,000 at Mackinaw City, Michigan. (Sta. 5080)    EMARKS Plane of reference (Low Water Datum) for Lake Huron is 576.8 ft. The shoreline datum is lake level at the time of photography.    SOURCE OF MEAN HIGH-WATER LINE: The photograph listed above								DAYLIG
87 EC 1570-1572 6/4/87 15:44 1:50,000 time of photography we 580.2 ft. Seed on gage at Mackinaw City, Michigan. (Sta. 5080)  EMARKS Plane of reference (Low Water Datum) for Lake Huron is 576.8 ft. The shoreline datum is lake level at the time of photography.  Demonstrate of MEAN HIGH-WATER LINE:  The photograph listed above  1. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:  N/A  CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammatric survey information.)  ULIVINEY NUMBER DATE(S) SURVEY COPY USED SURVEY NUMBER DATE(S) SURVEY COPY USED SURVEY NUMBER DATE(S) SURVEY COPY USED TP-01441 TP-01442 N/A West Joins CM 86 TP-01447	NUMBER AND	TYPE	DATE	TIME	SCALE		STAGE OF TI	DE
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87 EC 1574  6/4/87  15:45  1:50,000  At Mackinaw City, Michigan. (Sta. 5080)  EMARKS Plane of reference (Low Water Datum) for Lake Huron is 576.8 ft. The shoreline datum is lake level at the time of photography.  SOURCE OF MEAN HIGH-WATER LINE:  The photograph listed above  N/A  CONTEMPORARY HYDROGRAPHIC SURVEYS (Liet only those surveys that are sources for photogrammetric survey information.)  SURVEY NUMBER DATE(S)  SURVEY COPY USED  SURVEY NUMBER DATE(S)  SURVEY COPY USED  SURVEY NUMBER DATE(S)  SURVEY COPY USED  TP-01441  TP-01441  TP-01442  N/A  TP-01447	87 EC 1570	-1572	6/4/87	   15:44	1:50.00	n I		
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The photograph listed above  SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:  N/A  CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)  URVEY NUMBER DATE(S) SURVEY COPY USED SURVEY NUMBER DATE(S) SURVEY COPY USED  FINAL JUNCTIONS  FINAL JUNCTIONS  ORTH EAST SOUTH WEST JOINS CM 86  TP-01441 TP-01442 N/A TP-01447	shoreline	dátûm is	lake level at	the tim	e of photogra	aphy.		
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. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:  N/A  . CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)  URVEY NUMBER DATE(S) SURVEY COPY USED SURVEY NUMBER DATE(S) SURVEY COPY USED  . FINAL JUNCTIONS  DORTH EAST SOUTH WEST JOINS CM 86  TP-01441 TP-01442 N/A TP-01447	The photog	raph list	ted above					
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i. FINAL JUNCTIONS NORTH EAST SOUTH WEST JOINS CM 86 TP-01441 TP-01442 N/A TP-01447						<del></del>		
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TP-01441         TP-01442         N/A         TP-01447	FINAL HUNCTION			L	·		<u> </u>	
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	TP-01441		TP-01442		N/A	······	-01447	
	REMARKS							
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NOAA FORM 76-36B (3-72)

10AA FORM 76-36C 3-72)		NATIONAL OCEANIC	AND ATMOSPHER	
	HISTORY OF FIELD	OPERATIONS	TP-014	NAL OCEAN SURVI
I. X FIELD WARESTINN O	PERATION FIEL	D EDIT OPERATION		
	OPERATION	NAM	IE	DATE
1. CHIEF OF FIELD PARTY		J.E. Dunford		May-   June 1987
	RECOVERED BY	J.E. Dunford		5/87
2. HORIZONTAL CONTROL	ESTABLISHED BY	J.E Dunford	<del></del>	5/87
	PRE-MARKED OR IDENTIFIED BY	J.E. Dunford		5/87
	RECOVERED BY	N/A		37-07
. VERTICAL CONTROL	ESTABLISHED BY	N/A		
	PRE-MARKED OR IDENTIFIED BY	N/A		
	RECOVERED (Triangulation Stations) BY	N/A		<u> </u>
I, LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methods) BY	N/A N/A		
Alba (G MATTON)	TYPE OF INVESTIGATION	IN/ A		<u> </u>
	COMPLETE			
GEOGRAPHIC NAMES INVESTIGATION	SPECIFIC NAMES ONLY			
	X NO INVESTIGATION	)		)
. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None		
. BOUNDARIES AND LIMITS		N/A		<del></del>
SOURCE DATA		<u> </u>		
. HORIZONTAL CONTROL	IDENTIFIED	2. VERTICAL CONTR	OL IDENTIFIED	-:
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DE	ESIGNA TION
87 EC 15725/LHISER	R 1965			
87 EC 1559 GREEN	I (U.S.L.S.) 1954			
3. PHOTO NUMBERS (Clarifi	cation of details)			<u>-</u>
N/A				
LANDMARKS AND AIDS T	O NAVIGATION IDENTIFIED			
N/A				
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJEC.	TNAME
GEOGRAPHIC NAMES:	REPORT X NONE	6. BOUNDARY AND L	IMITS: REP	ORT X NONE
SUPPLEMENTAL MAPS A		•		
N/A				
OTHER FIELD RECORDS	(Sketch books, etc. DO NOT list data submit	ted to the Geodesy Divis	ion)	
has Etala bross a	Dimdam			
One Field Work Bro	own binder			

NOAA FOR (3-72)	м 76-36D		N/	ATIONAL OCEANIC	U. S. DEPARTME	NT OF COMMERCE
(3=/2)		RECOI	RD OF SURVE		TP-01445	
I. MANUSC	RIPT COPIES					
	со	MPILATION STAGE	S		DATE MANUSCE	IPT FORWARDED
	DATA COMPILED	DATE		MARKS	MARINE CHARTS	HYDRO SUPPORT
Final R Class I		Dec. 1988	Chart Main Print	tenance		
Final R Class I	eviewed II Map	Dec. 1988	Notes to H Print	ydrographer	Dec. 1588	Dec. 1545
	ARKS AND AIDS TO NAVIGA					
1. REPO	ORTS TO MARINE CHART DI	VISION, NAUTICAL	DATA BRANCH	<del></del>		
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED		RE	MARKS	
1: pg		Dec. 1889	Cartograph	nic Feature c	of Charting	nterest
						<u> </u>
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	AL RECORDS CENTER DAT					
2. □ 3. □	BRIDGING PHOTOGRAPHS; CONTROL STATION IDENTI SOURCE DATA (except for G ACCOUNT FOR EXCEPTION	FICATION CARDS;	FORM NOS	S 567 SUBMITTED E	BY FIELD PARTIES.	
4. 🗆	DATA TO FEDERAL RECOR	RDS CENTER. DAT	E FORWARDED:			_
IV. SURVE	Y EDITIONS (This section s	hall be completed ea	sch time a new maj	p edition is registers	ed)	
	SURVEY NUMBER	JOB NUMBE	R		TYPE OF SURVEY	
SECOND EDITION	TP -	(2) PH	ELD EDIT	₩	EVISED ENE	SURVEY
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	SURVEY NUMBER	JOB NUMBER	R	L	TYPE OF SURVEY	
THIRD EDITION	DATE OF PHOTOGRAPH	(3) PH-	ELD EDIT		MAP CLASS	SURVEY
						FINAL
FOURTH	SURVEY NUMBER	JOB NUMBE! _ (4)   PH -	R		TYPE OF SURVEY	SŪRVĖY
EDITION	DATE OF PHOTOGRAPH		ELD EDIT		MAP CLASS	
-511104				□u. □ui	. □≀v. □v.	FINAL



#### SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT TP-01445

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-01445, 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 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-01445

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.

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 subpoint 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

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

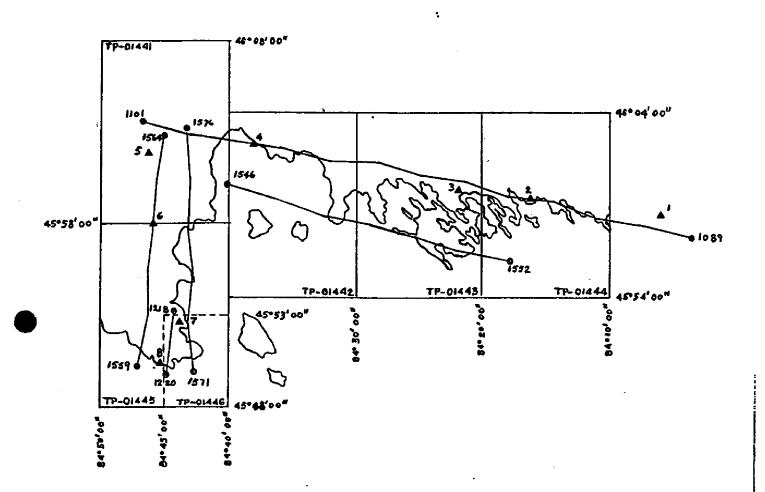
# FIT TO CONTROL

	STATION NAMES	POINT NO.	<u>VALUES</u> <u>X</u>	IN FEET Y
		•		
•	1. ALBANY BAY Panel #1 Direct	(089100)	1.1	-0.9
•	2. MCKAY Panel #2 Direct	(093100)	-1.3	1.5
$\blacktriangle$	3. CEDAR Panel #3 Direct	(094100)	-0.2	-0.2
<b>A</b>	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

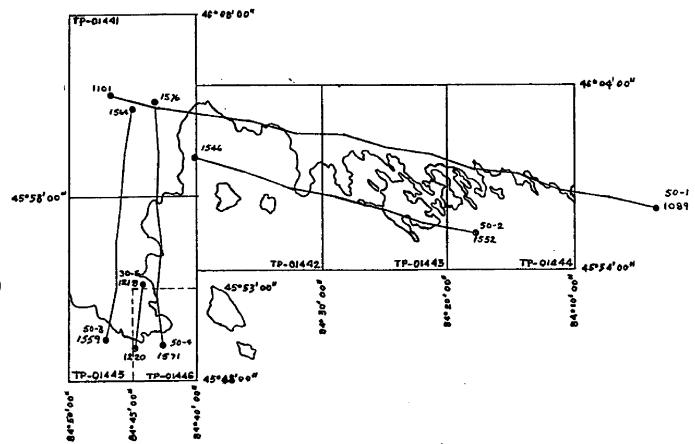
Station numbers keyed to horizontal control sketch

# HORIZONTAL CONTROL



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

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NOAA FORM 76-41					U.S. DEPARTMENT OF COMMERCE
		DESCRIPTIV	ESCRIPTIVE REPORT CONTROL RECORD		Wilder Strand Control
MAP NO. TP-01445	Job No. CM-8603	3	GEODETIC DATUM NAD 1983	Special Projects	cts Unit Rockyillies
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET STATE N/A ZONE	GEOGRAPHIC POSITION  \$\phi LATITUDE \$\lambda LONGITUDE	REMARKS
HISER 1965	Quad 450844 Sta. 1081	13 18	X= y=	10.1	
GREEN (USLS) 1954	Quad 450844 sta. 1020	<b>&amp;</b>	=/1 =/1	φ45-50-07,382 <sub>λ</sub> 84-44-47.709	
STRAITS OF MACKINAC BRIDGE NORTHETOWER \$956	Quad 450844 sta. 1063		= h	445-49-13.818 784-43-38.383	
STRAITS OF MACKINAC BRIDGE NW TOWER LIGHT 1965	Quad 450844 sta. 1063A		χ= 	φ45-49-13.853 λ84-43-38.829	
STRAITS OF MACKINAC BRIDGE SOUTH TOWER 1956	Quad 450844 sta. 1064		-λ -λ	φμ5-48-36 513 λ8Δ-43-43 873	
STRAITS OF MACKINAC BRIDGE SW TOWER LIGHT 1965	Quad 450844 Sta. 1064A		=ħ	φ 45-48-36 534 λ84-43-44 382	
STRAITS OF MACKINAC SCENIC OBS TOWER 1956	Quad 450844 sta. 1062		χ= Λ=	φ 45-51-09.971 λ 81115-50. 518	OBS TR
ST IGNACE RADIO STATION KQA 259 MAST 1965	Quad 450844 sta. 1082		χ= 1		R MAST
St. Ignace Telephone Co. Mast, 1965	Quad 450844 sta. 1083		χ= <i>y</i> ==	\$ 45-51-15.480 \$ 84-42-52.120	R MAST REMOVED
			χ= <i>Y</i> =	\$ 4	
COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATE
Listed BY D, Graham		PY/ <u>5</u> /88	LISTING CHECKED BY J. SChad	þei	DATE 11/18/88
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE
		SUPERSEDES NO	UPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE	H IS OBSOLETE.	

#### COMPILATION REPORT TP-01445

#### 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. Shoreline and alongshore delineation, with the exception of the southern two-thirds of the Mackinac Bridge, was compiled using the Wild-B8 stereoplotter. The southern two-thirds of the Mackinac Bridge was compiled graphically by plotting the north and south towers and aligning the bridge to fit the towers.

#### 36. OFFSHORE DETAIL

Offshore detail was compiled by instrument methods as described in item 31 of this report.

#### 37. LANDMARKS AND AIDS

Twelve landmarks and one aid to navigation were confirmed on this map. Refer to the Cartographic Features of Charting Interest page bound with this report.

The ST IGNACE TELEPHONE CO MAST, 1965, could not be verified through B-8 compilation. The analytical plotter was used to confirm that the mast was not verifiable with the NAD 1983 Coast and Geodetic Survey's position. For landmark purposes, a mast

was established on the analytical plotter. This newly established mast is approximately thirty-five feet from the listed position of the ST IGNACE TELEPHONE CO MAST, 1965.

#### 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:

Evergreen Shores, Michigan, 1964 St. Ignace, Michigan, 1964 McGulpin Point, Michigan, 1964 Moran, Michigan, 1964

#### 47. COMPARISON WITH NAUTICAL CHARTS

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

14881, 25th Edition (December 28, 1985), scale 1:80,000, inset scale 1:15,000

Submitted by,

Douglas Graham Cartographer

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-01445

Chain Lake Cranberry Lake East Moran Bay Evergreen Shores (locale) Foley Creek Freschette Lake Gamble Lake Graham Point Green Island Gros Cap (locale) Hay Lake Hoban Creek Horseshoe Bay Huron, Lake La Barbe, Point Lant Lake Mackinac, Straits of Mackinac Bridge Mackinac County Airport Martin Lake Massey Lake Michigan, Lake Moran River Rabbit Back Creek Rabbit Back Point Saint Ignace Saint Ignace, Point Silver Lake Summerby Creek West Moran Bay

Approved:

Charles E. Harrington

Chief Geographer

Nautical Charting Division Charting and Geodetic Services

#### FINAL REVIEW REPORT TP-01445

#### 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:

Evergreen Shores, Michigan, 1964 St. Ignace, Michigan, 1964 McGulpin, Michigan, 1964 Moran, Michigan, 1964

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

14881, Scale 1:80,000, 25th Edition, dated December 28, 1985, inset scale 1:15,000

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 & School

James E. Schad Unit Reviewer

Approved for forwarding:

Chief, Special Projects Unit

Approved:

/V/A

Chief, Photogrammetric Production Section

Chief, Photogrammmetry Branch

#### CARTOGRAPHIC FEATURES OF CHARTING INTEREST

1 PAGE 1

PROJECT NUMBER: CM-8603

MAP NUMBER: TP-01445

LOCALITY, STATE: St. Ignace, 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	CARTO	GEOGRAP POSITI		NCD DATE OF	হ
DESCRIPTION	CODE	LAT.	LONG.	Q.C. LOCATIO	
CASTLE ROCK	086	45-54-38.18	84-44-29.23	6 6/4/87 هم	
TANK FR	086	45-54-11.262	84-44-19.496	13 pg 6/4/87	
R MAST	086	45-51-15.250	84-42-52.371	<b>半3</b> ~6/4/87	
SPIRE	086	45-51-56.40	84-43-19.80	6/4/87م 6	
R MAST	086	45-52-43.301	84-43-44.937	+3 p 6/4/87	
TANK	086	45-51-41.971	84-44-08.053	$\gamma_1 \sim \gamma_1 0 \cup \gamma_2 + \gamma_1 \cup \gamma_1$	٠.
TANK	086	45-51-42 <b>.1</b> 3	84-43-52.067	+3 p.76/4/87 +3 p.76/4/87 +3 p.76/4/87	
OBS TR	086	45-51-09.971	84-45-59.518	13 6/4/87	
R MAST	086	45-51-47.08	84-46-55.96	6 6/4/87	
R MAST (WIOG)	086	45-51-44.43	84-46-55.29	6 6/4/87 1 3 00 6/4/87	
TOWER	086	45-49-13,818	84-43-38.383		
TOWER	086	45-48-36.513	84-43-43.873	23 F 6/4/87	
FI R LT (Northwestern	086	45-52-29∓25	84-42-53.72	6 6/4/87	
Dock Lt)					

end-

Listing approved by: James Schad

FINAL REVIEWER

12/15/88

DATE

#### NAUTICAL CHART DIVISION

# **RECORD OF APPLICATION TO CHARTS**

EII E WITH	DESCRIPTIVE	REGART	OF SURVEY NO.

#### INSTRUCTIONS

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

  1. Letter all information.

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

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

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
		<del></del>	Drawing No.
		-	Full Part Before After Verification Review Inspection Signed Via Drawing No.
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