

TP -00431

TP-00431

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
THIS MAP EDITION WILL NOT BE FIELD EDITED.	
Map No. TP-00431	Edition No. 1
Job No. CM-8412	
Map Classification CLASS III (FINAL)	
Type of Survey SHORELINE	
LOCALITY	
State MICHIGAN	
General Locality SAINT MARYS RIVER	
Locality DRUMMOND ISLAND	
19 84 TO 19	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY		SURVEY TP. <u>00431</u>	
DESCRIPTIVE REPORT - DATA RECORD				<input checked="" type="checkbox"/> ORIGINAL		MAP EDITION NO. <u>(1)</u>	
				<input type="checkbox"/> RESURVEY		MAP CLASS <u>III Final</u>	
				<input type="checkbox"/> REVISED		JOB <u>RM CM-8412</u>	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit, Atlantic Marine Center, Norfolk, Virginia				LAST PRECEDING MAP EDITION			
OFFICER-IN-CHARGE A. Y. Bryson, CDR				TYPE OF SURVEY		JOB <u>PH-</u>	
				<input type="checkbox"/> ORIGINAL		MAP CLASS <u></u>	
				<input type="checkbox"/> RESURVEY		SURVEY DATES:	
				<input type="checkbox"/> REVISED		19 <u></u> TO 19 <u></u>	
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Aerotriangulation October 18, 1984				Horizontal Control April 19, 1984			
Compilation April 5, 1985				(Premarking)			
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 Water level <input type="checkbox"/> MEAN SEA LEVEL				OTHER (Specify)			
				International Great Lakes Datum (1955)			
3. MAP PROJECTION				4. GRID(S)			
Transverse Mercator Projection				STATE Michigan		ZONE East	
5. SCALE 1:20,000				STATE		ZONE	
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY				L. Harrod, Jr.		Jan 1985	
METHOD: Analytic LANDMARKS AND AIDS BY				L. Harrod, Jr.		Jan 1985	
2. CONTROL AND BRIDGE POINTS PLOTTED BY				W. McLemore, Jr.		Mar 1985	
METHOD: Xynetics 1201 CHECKED BY				W. McLemore, Jr.		Mar 1985	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY				P. Evans		May 1985	
COMPILATION CHECKED BY				W. McLemore, Jr.		Jul 1985	
INSTRUMENT: Wild B-8				CONTOURS BY		N.A.	
SCALE: 1:20,000				CHECKED BY		N.A.	
4. MANUSCRIPT DELINEATION PLANIMETRY BY				P. Evans		Jun 1985	
CHECKED BY				W. McLemore, Jr.		Jul 1985	
METHOD: Smooth drafted				CONTOURS BY		N.A.	
CHECKED BY				N.A.			
SCALE: 1:20,000 HYDRO SUPPORT DATA BY				N.A.			
CHECKED BY				N.A.			
5. OFFICE INSPECTION PRIOR TO REVIEW Final Review BY				W. McLemore, Jr.		Jul 1985	
6. APPLICATION OF FIELD EDIT DATA BY				N.A.			
CHECKED BY				N.A.			
7. COMPILATION SECTION REVIEW Class III BY				W. McLemore, Jr.		Jul 1985	
8. FINAL REVIEW Class III BY				J. Hancock		Jul 1985	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				J. Hancock		Jul 1985	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				P. Dempsey		SEPT. 1985	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				E.L. DAUGHERTY		SEP. 1985	

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00431
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S)

Wild RC-10(Z) (Z = 153.15 mm)

~~XXXXXXXXXXXXXXXXXXXX~~ Water Level Gage☐ PREDICTED TIDES☒ REFERENCE STATION RECORDS**☐ TIDE CONTROLLED PHOTOGRAPHYTYPES OF PHOTOGRAPHY
LEGEND

(C) COLOR

(P) PANCHROMATIC

(I) INFRARED

TIME REFERENCE

ZONE

Eastern

MERIDIAN

75th

☒ STANDARD☐ DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF XXXX River
84Z(P) 3796-3800	5-16-84	10:00	1:40,000	579.53 ft. Level
84Z(P) 3811-3815	5-16-84	10:15	1:40,000	579.53 ft.
84Z(P) 3840-3844	5-16-84	10:38	1:40,000	579.53 ft.

REMARKS

*Water level at the time of photography is indicated as recorded from DeTour Village, Michigan gage.

2. SOURCE OF MEAN HIGH-WATER LINE:

The term "Mean High Water Line" is not applicable. The shoreline is defined as the visible line of contact on the photographs between land and water. Delineation of the shoreline was derived by photointerpretation of the above listed black-and-white compilation/bridging photographs.

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

This item is not applicable to the project.

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

No Survey

EAST

No Survey

SOUTH

No Survey

WEST

TP-00361

REMARKS

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

TP-00431

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION (Premarking) ☐ FIELD EDIT OPERATION

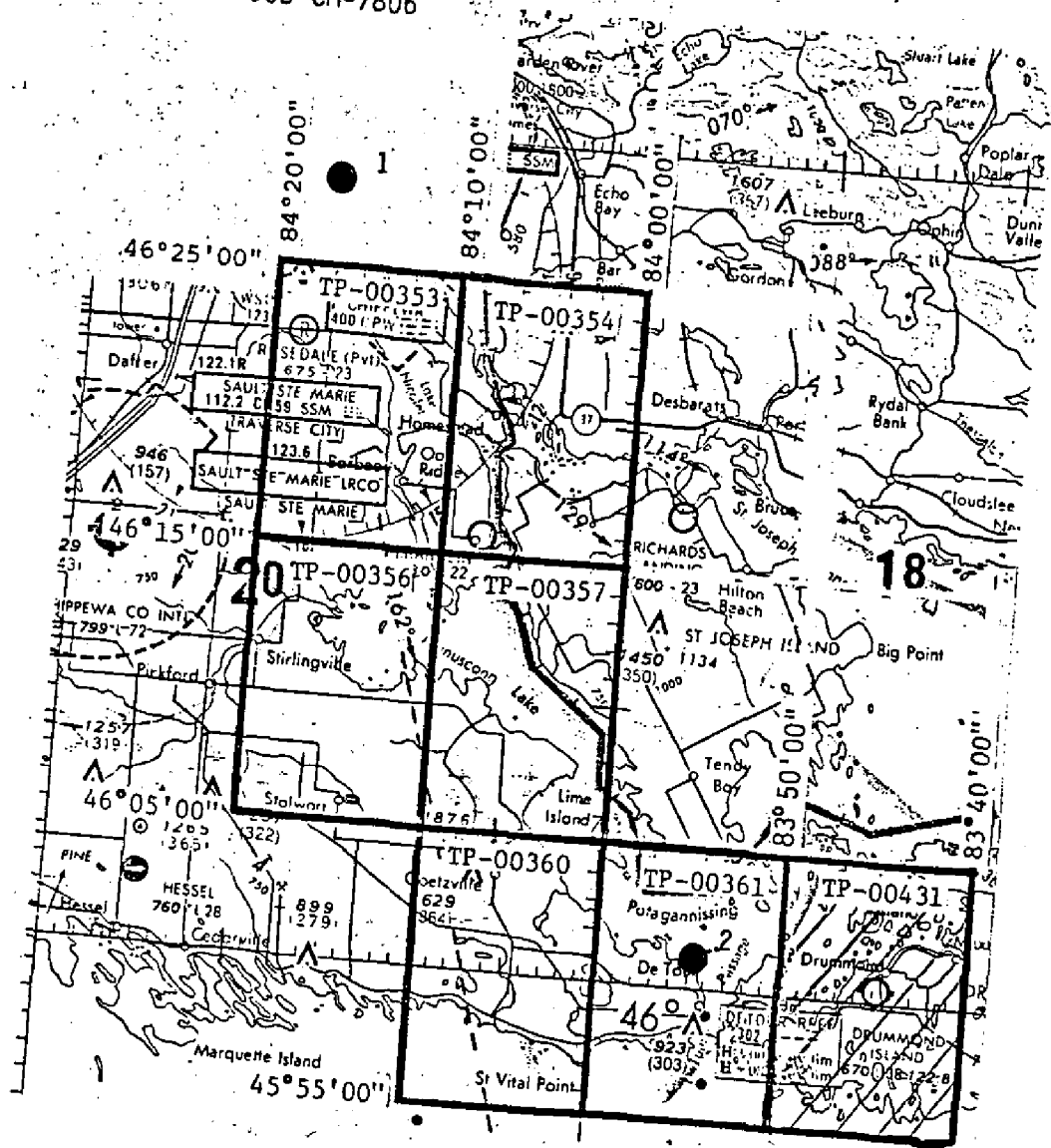
OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. Dunford	May 1984
2. HORIZONTAL CONTROL	RECOVERED BY N.A. ESTABLISHED BY R. James PRE-MARKED OR IDENTIFIED BY R. James	May 1984 May 1984
3. VERTICAL CONTROL	RECOVERED BY N.A. ESTABLISHED BY N.A. PRE-MARKED OR IDENTIFIED BY N.A.	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY N.A. LOCATED (Field Methods) BY N.A. IDENTIFIED BY N.A.	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY N.A.	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED Premarked (Paneled)		2. VERTICAL CONTROL IDENTIFIED None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
84Z(P) 3813	MARINA, 1984 (Field pos.) - paneled direct (sub point photoidentified in field but not used by aerotriangulation)		
3. PHOTO NUMBERS (Clarification of details) N.A.			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED N.A.			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS None			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division) 1 NOAA Form 76-53 (CSI Card) 3 NOAA Forms 75-63 Project Field Report			

NOAA FORM 76-36D (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION TP-00431 RECORD OF SURVEY USE		
I. MANUSCRIPT COPIES				
COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	July 1985	Class III Manuscript	None	None
Final Review, Class III	July 1985	Final Class III Map	8/9/85	8/9/85
II. LANDMARKS AND AIDS TO NAVIGATION None				
1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH				
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS	
2. <input type="checkbox"/> REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____ 3. <input type="checkbox"/> REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____				
III. FEDERAL RECORDS CENTER DATA				
1. <input checked="" type="checkbox"/> BRIDGING PHOTOGRAPHS; <input checked="" type="checkbox"/> DUPLICATE BRIDGING REPORT; <input checked="" type="checkbox"/> COMPUTER READOUTS. 2. <input checked="" type="checkbox"/> CONTROL STATION IDENTIFICATION CARDS; <input type="checkbox"/> FORM NOS. 76-40 SUBMITTED BY FIELD PARTIES. 3. <input checked="" type="checkbox"/> SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS: _____ 4. <input type="checkbox"/> DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____				
IV. SURVEY EDITIONS <i>(This section shall be completed each time a new map edition is registered)</i>				
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		

Joins Job CM-7806



● = Water Level Gage Site

- 1 - Frechette Point
- 2 - Detour Village

JOB CM-8412
 SAINT MARYS RIVER
 SUGAR ISLAND TO POTAGANNISSING BAY
 MICHIGAN
 SHORELINE MAPPING
 SCALE 1:20,000

6

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00431

This 1:20,000 scale final Class III shoreline map is one of 7 maps (TP-00353, TP-00354, TP-00356, TP-00357, TP-00360, TP-00361, and TP-00431) that comprise project CM-8412, Sugar Island to Potagannissing Bay, St. Marys River, Michigan. This project junctions with a previous project, CM-7806, which features the northern region of St. Marys River.

This map portrays portions of shoreline within Potagannissing Bay and includes a northern segment of Lake Huron just east of DeTour Passage.

The purpose of this map is to provide current charting information for nautical chart maintenance and to furnish shoreline support data for hydrographic survey operations.

Field work prior to photography was adequately provided in May 1984. This involved the recovery, establishment and identification (premarking) of horizontal control necessary for aerotriangulation. There was no field inspection performed.

Photo coverage was adequately provided by 1:40,000 scale panchromatic photography taken May 16, 1984 with the Wild RC-10(Z) camera. At the time of photography, a water level reading of 579.53 was recorded at the DeTour Village, Michigan gage. This established the shoreline datum for the map based on the 1955 International Great Lakes Datum.

Analytic aerotriangulation was adequately provided by the Washington Science Center in January 1985. Included in the bridge are two supplemental horizontal control substations previously photoidentified for adjoining project CM-7806. Aerotriangulation activity also included determining ratio values for the photographs and locating some of the visible navigational aids.

Compilation was performed at the Coastal Mapping Unit, Atlantic Marine Center in July 1985. Delineation of map detail was accomplished using stereo instrument methods based upon interpretation of the mapping photographs.

Final review was performed at the Atlantic Marine Center in July 1985. A Chart Maintenance Print was prepared and forwarded to the Marine Chart Branch. Also, a Notes to Hydrographer Print was prepared for future hydrographic activity.

This Descriptive Report contains all pertinent information used to compile this final Class III Map. The original base manuscript and related data were forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

TP-00431

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.

PHOTOGRAMMETRIC PLOT REPORT
CM-8412
Saint Marys River, Michigan
January 1985

21. Area Covered

The area covered by this report is in the vicinity of the Saint Marys River from Sugar Island Southeastward to Potagannissing Bay, Michigan. It is covered by seven 1:20,000-scale manuscripts; TP-00353, TP-00354, TP-00356, TP-00357, TP-00360, TP-00361, and TP-00431.

22. Method

Eight strips of 1:40,000-scale photographs were bridged by analytic aerotriangulation methods and adjusted to ground on the Michigan State Plane Coordinage System, Michigan East Zone, using our Analytic Strip Adjustment program. Pabeled control was provided. Aids and landmarks were located on bridging photographs. Ratio values were determined for the 1:40,000-scale bridging photographs. A magnetic tape for plotting points and for ruling the base manuscripts were prepared. The Traverse Mercator projection was used.

23. Adequacy of Control

The horizontal control provided, proved to be adequate, was sparse in some areas. Tie points were used to supplement these areas. DIKE 387, 1984 Horizontal Panel No. 4 would not fit with the tie points and control points of the adjacent strip. The lack of fit is -19.86 feet in X and 6.51 feet in Y. It was not used in the adjustment. All positions established by aerotriangulation methods meet the National Standards of Map Accuracy.

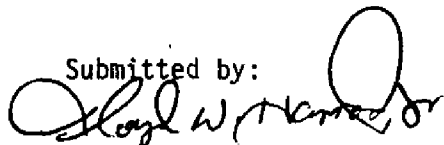
24. Supplemental Data

Vertical control was taken from USGS quads.

25. Photography

The coverage and quality of the photographs proved adequate for the project in most cases. The end lap in model 3810-3811 in strip 7 was computed to be about 51 percent, which is below the desired amount. This made it difficult to select and read pass points in some areas.

Submitted by:


Lloyd W. Harrod, Jr.

Approved and Forwarded:


Don O. Norman
Chief, Aerotriangulation Unit

Saint Marys River
Michigan
CM-8412

Fit to Control -X and Y in Feet

<u>STRIP 1</u>		<u>PT. NO.</u>	<u>X</u>	<u>Y</u>
2	Home CHS(9598) 1981 Horizontal Panel No. 2	(774100)	-1.2	7.5
Δ 2A	" " " " Sub. Sta. A	(774101)	-1.6	7.7
Δ 12A	55 USLS - Sugar Island East Base 1878	(773101)	-3.5	3.9
	Tie from Strip 2	(742801)	1.6	0.4
	Tie " " "	(744801)	-0.1	-3.9
	Tie " " "	(745801)	1.2	-2.8
	Tie " " "	(746801)	0.6	-2.2
	Tie " " "	(747801)	0.1	-2.8
	Tie " " "	(748801)	2.7	-0.6
	Tie " " "	(749801)	-0.7	0.3
	Tie " " "	(750801)	0.5	-1.1
	Tie " " "	(751801)	-0.7	1.0
<u>STRIP 2</u>				
Δ 1	Cass 1943	(739100)	-0.1	-0.6
Δ 3	Ref. Mon. 16, 1911	(747100)	-0.5	3.4
Δ 5	Kolos 1984	(752100)	-0.1	-4.4
Δ 6	Ramp 1984	(755100)	-3.1	-0.1
	Tie from Strip 6	(793803)	2.8	1.6
<u>STRIP 3</u>				
	Tie from Strip 2	(748804)	-1.2	-0.8
	Tie " " "	(746804)	1.7	1.0
	Tie " " "	(745805)	-0.2	0.9
	Tie " " "	(744805)	0.5	-2.4
	Tie " " "	(743801)	1.0	-0.9
	Tie " " "	(742804)	-2.1	-1.6
	Tie " " "	(741805)	-1.0	5.8
	Tie " " "	(740801)	1.3	-2.1
<u>STRIP 4</u>				
	Tie from Strip 6	(792903)	0.5	-3.4
	Tie " " "	(792802)	1.0	-4.4
	Tie " " 2	(713802)	-4.2	5.0
	Tie " " "	(714801)	-1.1	2.0
	Tie " " "	(715801)	1.7	0.9
	Tie " " "	(716801)	1.5	0.4
	Tie " " "	(717801)	1.2	0.8
	Tie " " "	(718802)	-1.2	-0.7
	Tie " " "	(719801)	-1.8	-0.7

STRIP 5

	Tie from Strip 3	(721801)	-0.5	0.3
	Tie " " "	(722801)	0.4	-0.4
	Tie " " "	(719804)	1.0	-0.6
	Tie " " "	(720801)	-0.9	0.7
4	Dike 387, 1984	(700100)	-19.9	6.5

STRIP 6

Δ 7	McKay 1984	(788100)	-0.6	-0.0
Δ 8	Tour 1980	(793100)	3.8	-0.1
8A	Tour 1980 Sub Pt. A	(793110)	3.8	-0.8
	Tie from Strip 7	(811803)	1.4	1.6
	Tie " " "	(813801)	-1.1	-3.5
	Tie " " "	(815801)	-2.7	-1.0
	Tie " " "	(818801)	-2.4	1.9
	Tie " " "	(818803)	-2.3	2.1

STRIP 7

Δ 11	Clear 388 1984	(809100)	0.3	-0.1
Δ 10	Marina 1984	(813100)	-1.3	0.2
Δ 9	State 1984	(815100)	1.5	0.3
Δ 6	Ramp 1984	(818100)	-0.4	-0.1

STRIP 8

	Tie from Strip 7	(811805)	0.2	0.2
	Tie " " "	(813804)	0.7	-0.2
	Tie " " "	(816804)	-3.2	-1.0
	Tie " " "	(817806)	2.0	-1.2
	Tie " " "	(817807)	1.7	0.1
	Tie " " "	(817808)	-0.7	2.0

Δ Stations held in the strip adjustments

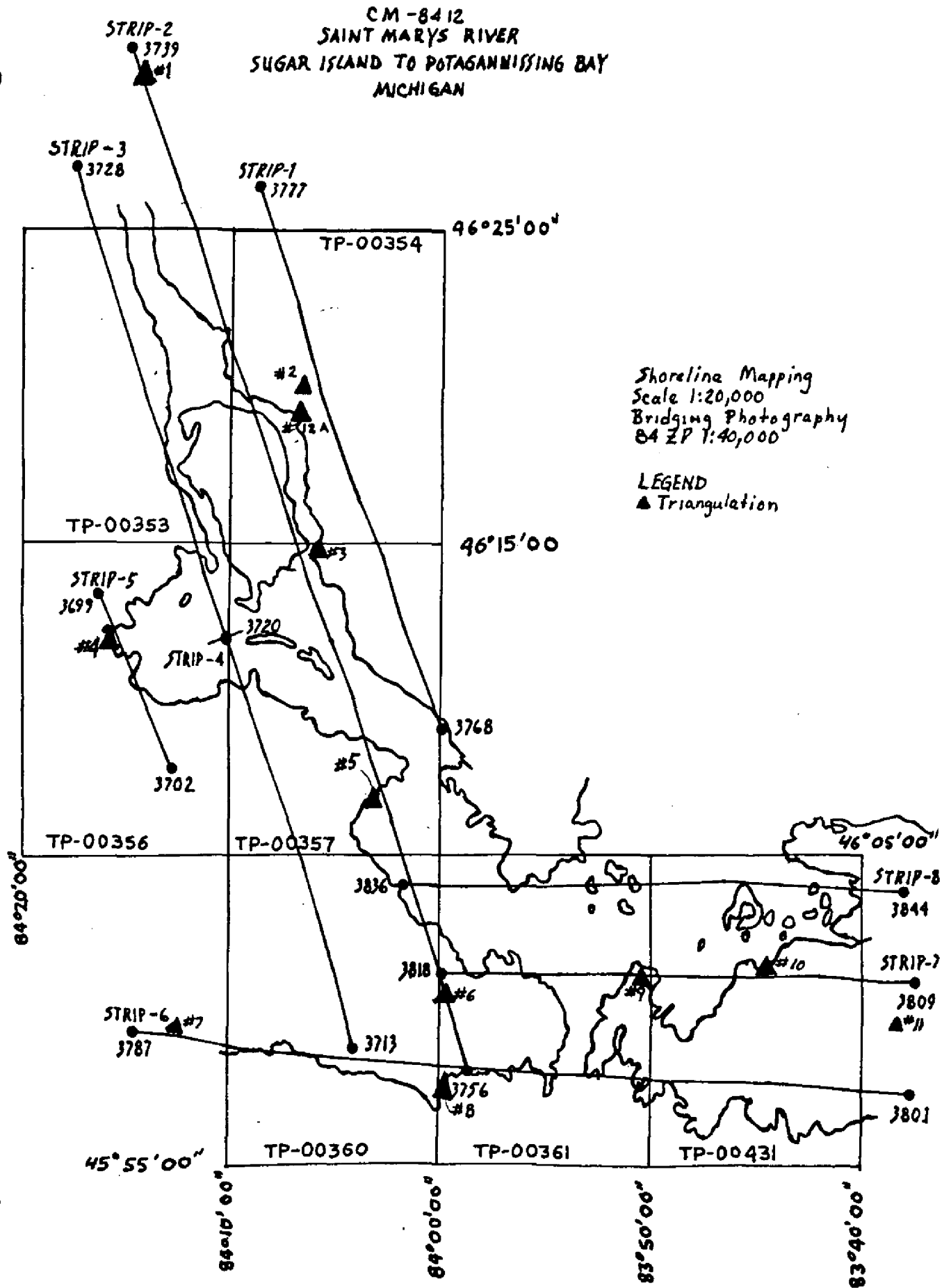
Saint Marys River, Michigan

CM-8412

January 1985

Ratio values for 1:40,000 scale, black and white bridging
photographs.

84 ZP 3768-3777	x2.03
3739-3756	x2.03
3720-3728	x2.03
3713-3720	x2.04
3699-3702	x2.05
3790-3801	x2.04
3811-3818	x2.04
3836-3844	x2.04



COMPILATION REPORT
TP-00431

31 - DELINEATION

Delineation was accomplished using stereo instrument compilation methods. Instrument compilation was used to delineate shoreline, alongshore, and interior detail based upon office interpretation of the 1:40,000 scale bridging/compilation black-and-white photographs.

All photographs used to compile this map are listed on NOAA form 76-36B. The photography was adequate.

32 - CONTROL

The horizontal control was adequate. Refer to the Photogrammetric Plot Report, dated January, 1985.

33 - SUPPLEMENTAL DATA

A comparison was made with the following Canadian charts:
2295, 4th edition, Jan. 25, 1985, scale 1:75,000
2297, 4th edition, Jan. 25, 1985, scale 1:91,085.

34 - CONTOURS AND DRAINAGE

Contours are not applicable to the project. Drainage was compiled by office interpretation of the photographs.

35 - SHORELINE AND ALONGSHORE DETAILS

The shoreline and alongshore details were compiled from office interpretation of the photographs. The shoreline compiled was the visible line of contact between land features and the water surface at the time of photography. Based on the International Great Lakes Datum (1955) the water level taken at DeTour Village, Michigan gage was 579.53 feet.

36 - OFFSHORE DETAILS

Offshore details were compiled by instrument methods as described in item #31.

37 - LANDMARKS AND AIDS

There was 1 charted landmark and no charted aids within the mapping limits of this manuscript. The 1 landmark was not located photogrammetrically as it was not identifiable on the photographs.

38 - CONTROL FOR FUTURE SURVEYS

None.

TP-00431

39 - JUNCTIONS

Refer to the Data Record Form 76-36B, Item 5 of the 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. Quadrangles:

Whitney Bay, Mich., dated 1964, photorevised 1976, scale 1:24,000
Drummond, Mich.-Ont., dated 1964, photorevised 1976, scale 1:24,000
Burnt Island, Mich.-Ont., dated 1964, photoinspected 1976, scale 1:24,000
Meade Island, Mich., dated 1964, scale 1:24,000.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS charts:
14882, 27th edition, scale 1:40,000, dated October 2, 1982
14880, 26th edition, scale 1:120,000, dated December 12, 1981
14860, 29th edition, scale 1:500,000, dated March 10, 1984.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

James L. Evans, Jr.

P. L. Evans, Jr.
Cartographic Technician
25 June 1985

Approved:

James L. Byrd, Jr.

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

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8412 (St. Marys River, Michigan)

TP-00431

Adelaide Island
Arrow Island
Ashman Island
Bacon Island
Bald Island
Bay Island
Bear Lake
Bootjack Island
Boulanger Island
Bow Island
Canoe Bay
Canoe Point
Clark Island
Cove Island
Cove Point
Cream City Point
Drummond
Drummond ~~Point~~ (Island) *GAH*
Espanore Island
Espanore Lake
Fairbank Island
Fairbank Point
Fairview Cove
Fire Island
Grape Island
Gravel Island
Gravel Lake
Gull Island
Harbor Island
Harbor Island Reef
Helen Lake
Homborg Point
Howard Island
Huron Bay
Isaacson Lake
Island Harbor
James Island
Lake Huron

Jim Island *GAH*

~~LaPointe Island~~ (La Pointe Island) *GAH*
Little Rogg Island
Long Island (1)
Long Island (2)
Mare Island
Maxton
Paw Point
Peck Island
Picnic Island
Pigeon Cove
Pigeon Cove Creek
Pigeon Point
Pike Bay
Potagannissing Bay
Potagannissing River
Propeller Island
Quarry Island
Rabbit Bay
Rogg Island
Rutland Island
Saltonstall Island
Sam Island
Scott Bay
Seaman Lake
Seamans Point
Seastone Point
Silver Island
Standerson Island
Strickland Point
Sturgeon Bay
Sturgeon Point
Surveyors Island
Traverse Point
Twin Sister Island
Warners Cove
Willoughby Island
Wreck Island
Young Island

Approved by:

Charles E. Harrington

Charles E. Harrington
Chief Geographer
Nautical Charting Division

REVIEW REPORT
TP-00431
SHORELINE

61 - GENERAL STATEMENT

Refer to the Summary included in this Descriptive Report.

62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63 - COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with the following 1:24,000 scale U.S.G.S. quadrangles:
Whitney Bay, Mich., dated 1964, photorevised 1976
Drummond, Mich.-Ont., dated 1964, photorevised 1976
Burnt Island, Mich.-Ont., dated 1964, photoinspected 1976
Meade Island, Mich., dated 1964.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

No contemporary hydrographic survey was conducted prior to this shoreline mapping project.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS charts:
14882, 27th edition, dated October 2, 1982, 1:40,000 scale
14880, 26th edition, dated December 12, 1981, 1:120,000 scale.

There are various areas which indicate shoreline discrepancies with the map. These discrepancies were addressed on the Chart Maintenance Print.

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:

Jerry L. Hancock

Jerry L. Hancock
Final Reviewer

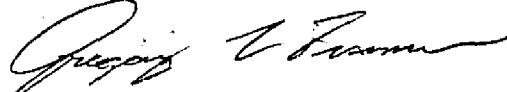
TP-00431

Approved for forwarding:



Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved:



Chief, Photogrammetric Operations,
Rockville



Chief, Photogrammetry Branch,
Rockville

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-00431 (CM-8412)

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]