

TP-01097

TP-01097

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. TP-01097	Edition No. 1
Job No. CM-8500	
Map Classification III	
Type of Survey SHORELINE	
LOCALITY	
State MICHIGAN	
General Locality LAKE SUPERIOR	
Locality CONWAY POINT	
19 85 TO 19	
REGISTERED IN ARCHIVES	
DATE	

<b>NOAA FORM 76-36A</b> (3-72)		<b>U. S. DEPARTMENT OF COMMERCE</b> NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
<b>DESCRIPTIVE REPORT - DATA RECORD</b>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Photogrammetry Branch Rockville, MD		SURVEY TP. <u>01097</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III</u> JOB <u>CM-8500</u>	
OFFICER-IN-CHARGE CAPT. A.Y. BRYSON		<b>LAST PRECEEDING MAP EDITION</b> TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
<b>I. INSTRUCTIONS DATED</b>			
<b>1. OFFICE</b>		<b>2. FIELD</b>	
Aerotriangulation April 20, 1987  Office Sept. 21, 1987		Field March 08, 1985	
<b>II. DATUMS</b>			
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)	
3. MAP PROJECTION  Transverse Mercator Projection		4. GRID(S) STATE ZONE Michigan West	
5. SCALE 1:20,000		STATE ZONE	
<b>III. HISTORY OF OFFICE OPERATIONS</b>			
<b>OPERATIONS</b>		<b>NAME</b>	<b>DATE</b>
1. AEROTRIANGULATION BY METHOD: Analytical LANDMARKS AND AIDS BY		J. Taylor	Aug. 1987
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Kongsberg Flatbed Plotter CHECKED BY		J. Taylor	Aug. 1987
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY		T. Doyle	Feb. 1988
INSTRUMENT: Wild B-8 SCALE: 1:20,000 CONTOURS BY CHECKED BY		J. Schad	Feb. 1988
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY		T. Doyle	March 1988
METHOD: Smooth Drafting SCALE: 1:20,000 CONTOURS BY CHECKED BY		J. Schad	March 1988
HYDRO SUPPORT DATA BY CHECKED BY		N/A	N/A
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		N/A	N/A
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		N/A	N/A
7. COMPILATION SECTION REVIEW BY		J. Schad	March 1988
8. FINAL REVIEW BY		J. Schad	March 1988
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		J. Schad	Feb. 1989
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		P. Dempsey	Feb. 1989
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		N/A	N/A

COMPILATION SOURCES

TP-01097

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 <input type="checkbox"/> PREDICTED TIDES <input checked="" type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				ZONE Eastern	<input checked="" type="checkbox"/> STANDARD
				MERIDIAN 75th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
85 E(C) 8143-8144	06-03-85	07:37	1:50,000	The water level of the time of photography was 601.4 Ft. based on gage at Marquette, Michigan (Sta #9018)	
85 E(C) 7917	06-02-85	09:57	1:50,000		

REMARKS Plane of reference (Low Water Datum) for Lake Superior is 600.0 Ft. The shoreline Datum is the Lake level at the time of photography.

2. SOURCE OF ~~LOW~~-WATER LINE:

The photographs 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 None	EAST Tp-01098	SOUTH None	WEST TP-01096
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REMARKS

## HISTORY OF FIELD OPERATIONS

I. ☒ FIELD OPERATION☐ FIELD EDIT OPERATION

TP- 01097

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. Shea	May 1985
2. HORIZONTAL CONTROL	RECOVERED BY J. Shea	May 1985
	ESTABLISHED BY J. Shea	May 1985
	PRE-MARKED OR IDENTIFIED BY N/A	
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 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
85 E(C)8143	CLUB, 1985		

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: ☐ 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

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

## RECORD OF SURVEY USE

TP-01097

## I. MANUSCRIPT COPIES

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

## II. LANDMARKS AND AIDS TO NAVIGATION

## 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
None			

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: \_\_\_\_\_3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

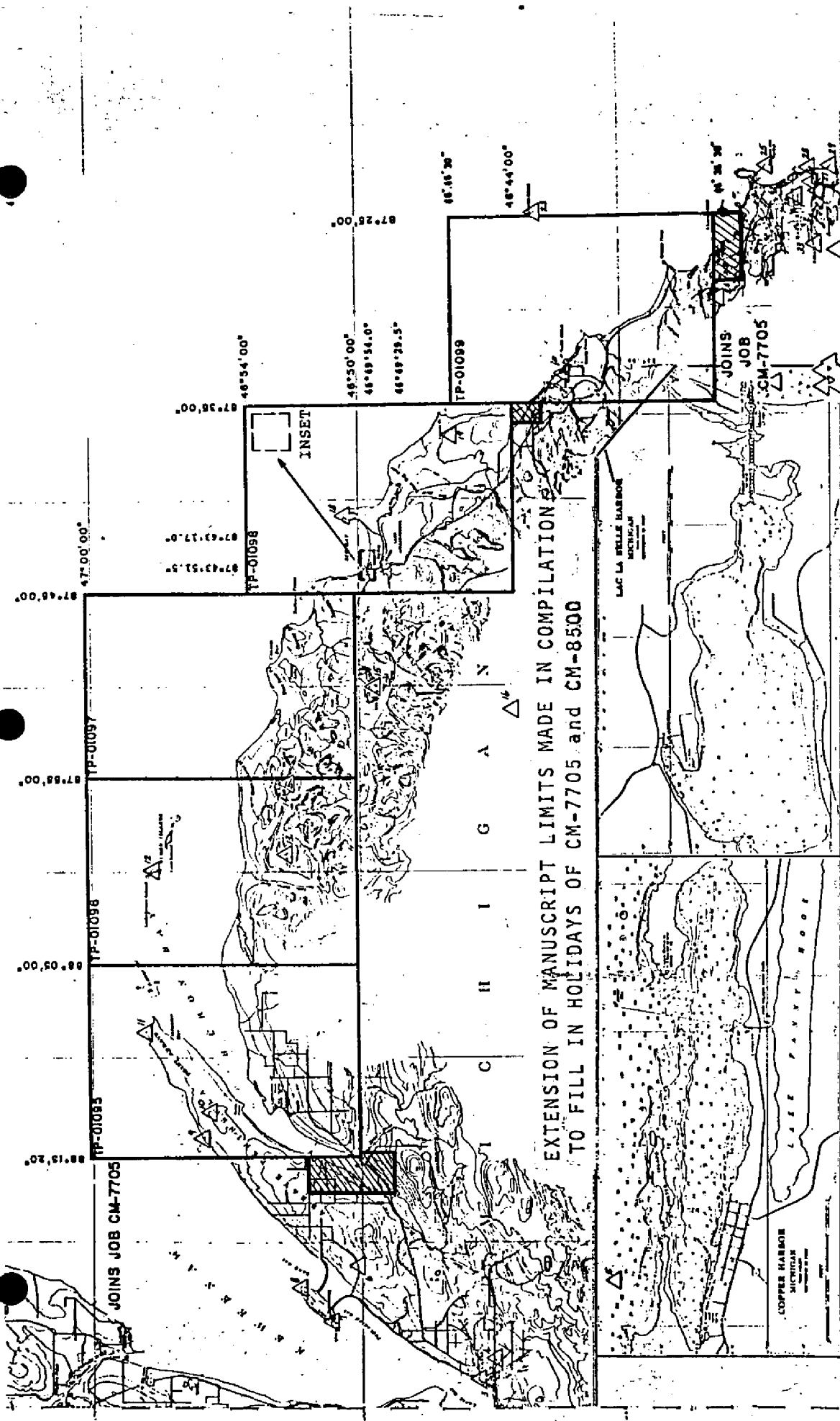
## III. FEDERAL RECORDS CENTER DATA

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 <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-8500**  
**POINT ABBAYE TO THONEYS POINT**  
**LAKE SUPERIOR**  
**MICHIGAN**  
**SHORELINE MAPPING**  
**SCALE 1:20,000**  
**LEGEND:**

Scale Photo Coverage  
 1:50,000  
 1:30,000  
 1:15,000

1:50,000 Color (Bridging)  
 1:30,000 Color (Supplemental)

Revised 4-14-87, Limits TP-01099, JDM  
 Revised 9-21-87, TP-01100 Changed to INSET, Limits of INSET Revised  
 TP-01100 canceled, JDM

Revised 10-31-84, One Sheet, TP-01100 Added. EPJr.

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT  
TP-01097

Project CM-8500 consisted of the production of Class III shoreline maps. Five 1:20,000-scale and one 1:5,000-scale maps were compiled. The area compiled extends from Point Abbaye to Thoneys Point, Michigan.

The purpose of this map, TP-01097, 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. Thirteen horizontal control stations were paneled for use in aerotriangulation. Field operations for project CM-8500 commenced in May 1985 and concluded in June 1985.

Natural color photographs 1:50,000 scale and 1:15,000 scale were taken in June 1985 with the Wild RC-8(E) camera.

Five strips of 1:50,000-scale color photographs and one strip of 1:15,000-scale color photographs were bridged and adjusted to the ground using the IDPF system.

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-01097

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-8500  
POINT ABBAYE TO THONEY POINT, MICHIGAN

AUGUST 1987

21. AREA COVERED

The area covered by this report is from Point Abbaye to Thoney Point on Lake Superior, Michigan. This area is covered by five 1:20,000-scale manuscripts, TP-01095, TP-01096, TP-01097, TP-01098, TP-01099, and one 1:5,000-scale manuscript, TP-01100.

22. METHOD

Five strips of 1:50,000-scale color photographs and one strip of 1:15,000-scale color photographs were bridged and adjusted to the ground using the IDPF system. Tie points were used to supplement the ground control. All strips were drilled out and the drilled points were measured so this project may be compiled by analog or analytic methods using the IDPF system.

Ratio values were determined for the color bridging photographs.

No black-and-white infrared photographs were secured for this project.

Two aids to navigation and one landmark were located and positioned during aerotriangulation.

A liquid ink manuscript and a ballpoint pen worksheet manuscript of each TP were plotted on the Kongsburg flatbed plotter using the Michigan State Plane Coordinate System, West Zone. This is a Transverse Mercator Projection. The data is the NAD 27.

23. ADEQUACY OF CONTROL

The horizontal control provided for this project was adequate. Eleven control stations were provided and used in the adjustment.

The photo images of the panels for 926100 and 992110 were very poor. The light background creates a poor contrast with the white panel.

This project meets NOS requirements for map manuscripts.

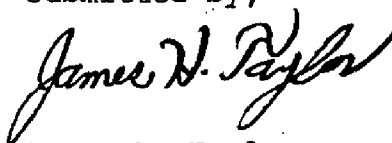
24. SUPPLEMENTAL DATA

Nautical charts were used to locate objects on the color bridging photographs. USGS quads were used to obtain elevations to furnish vertical control for the strip adjustments.

25. PHOTOGRAPHY

The coverage, overlap, and quality of the photographs proved adequate for this project.

Submitted by,



James H. Taylor

Approved and Forwarded:



Don O. Norman  
Chief, Aerotriangulation Unit

FIT TO CONTROL  
BLOCK ADJUSTMENT  
CM-8500

▲ = CONTROL HELD

<u>STATION NAME</u>	<u>AERO NO.</u>	<u>X FT.</u>	<u>Y FT.</u>
CLUB, 1985	▲143100	-0.5	+0.4
HURON, 1955	▲144100	+1.7	-0.1
NANK, 1985	▲148100	-1.5	-0.4
AURA, 1985	▲151100	+1.0	+0.5
ABBAYE, 1985	▲907100	+0.1	+0.3
NUMBER TEN	▲912101	-0.3	-0.4
LOMA, 1955	▲923100	+0.5	-2.1
HARLOW, 1985	▲926100	-0.2	+1.2
DANDREA, 1985	▲990100	-0.9	-0.3
STORT 2, 1985	992110	+0.1	-1.1
STORT 2, 1985 SUB POINT	▲995101	0.0	-0.1

TIES BETWEEN 151 AND 504

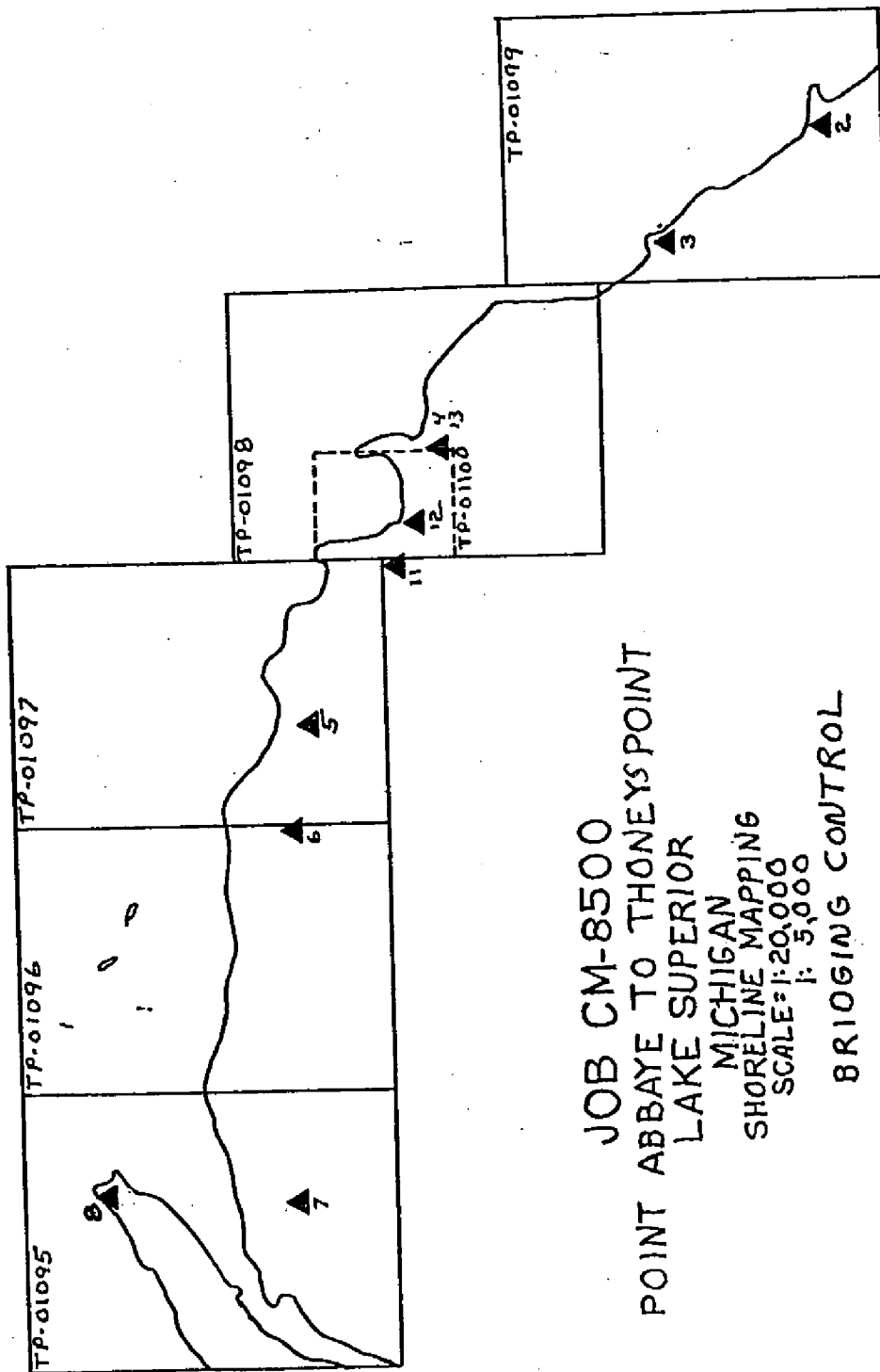
TIE 1	1.3	0.6
TIE 8	4.8	2.4
TIE 6	1.1	5.8
TIE 5	2.1	1.0

COLOR BRIDGING RATIOS  
CM-8500

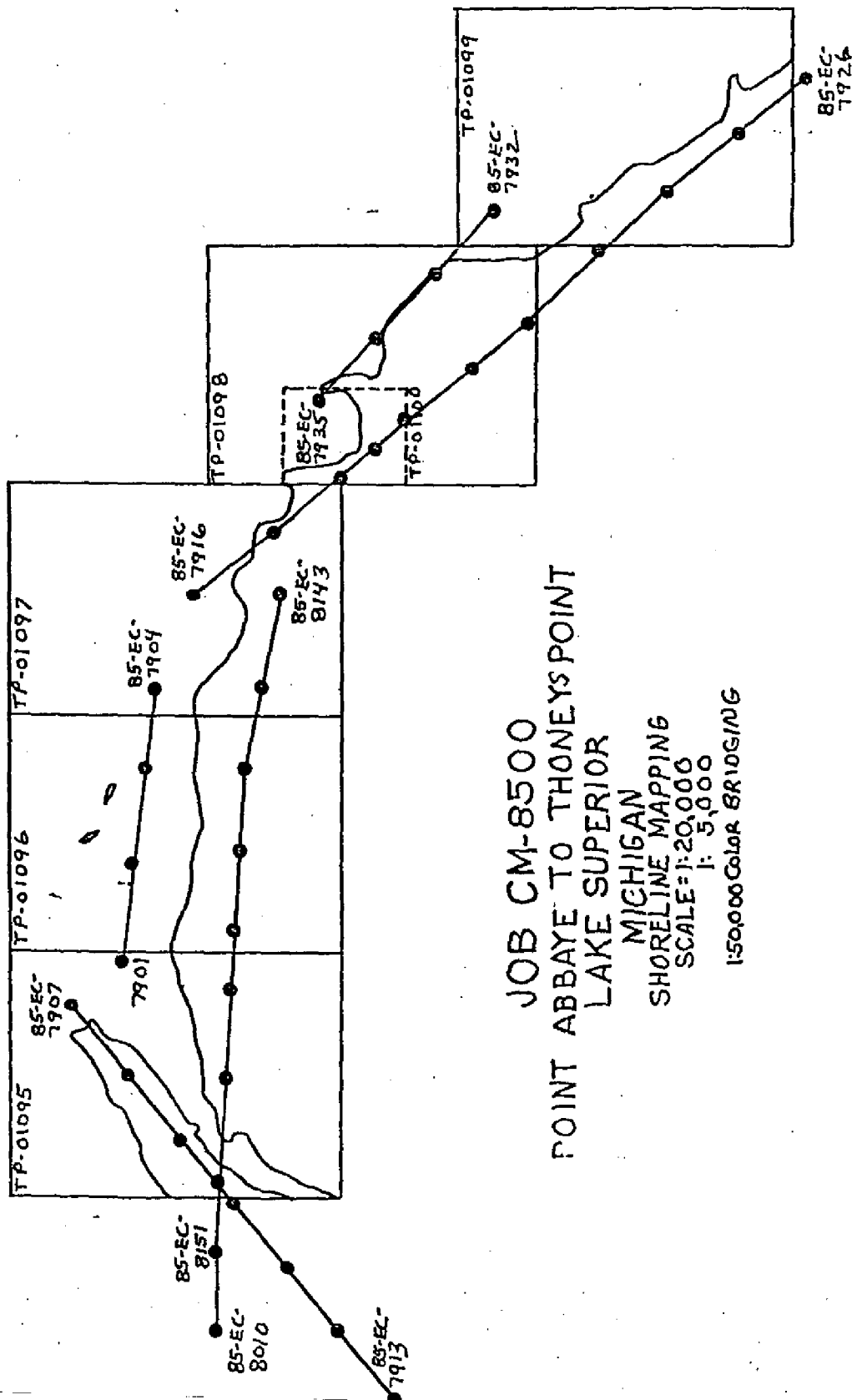
85-EC-7990 thru 7995	Ratio <u>3.020</u>
85-EC-7901 thru 7903	Ratio <u>2.500</u>
85-EC-8143 thru 8151	Ratio <u>2.505</u>
85-EC-7907 thru 7913	Ratio <u>2.500</u>
85-EC-7916 thru 7926	Ratio <u>2.502</u>
85-EC-7932 thru 7935	Ratio <u>2.501</u>

KEY TO NUMBERED STATIONS  
CM-8500

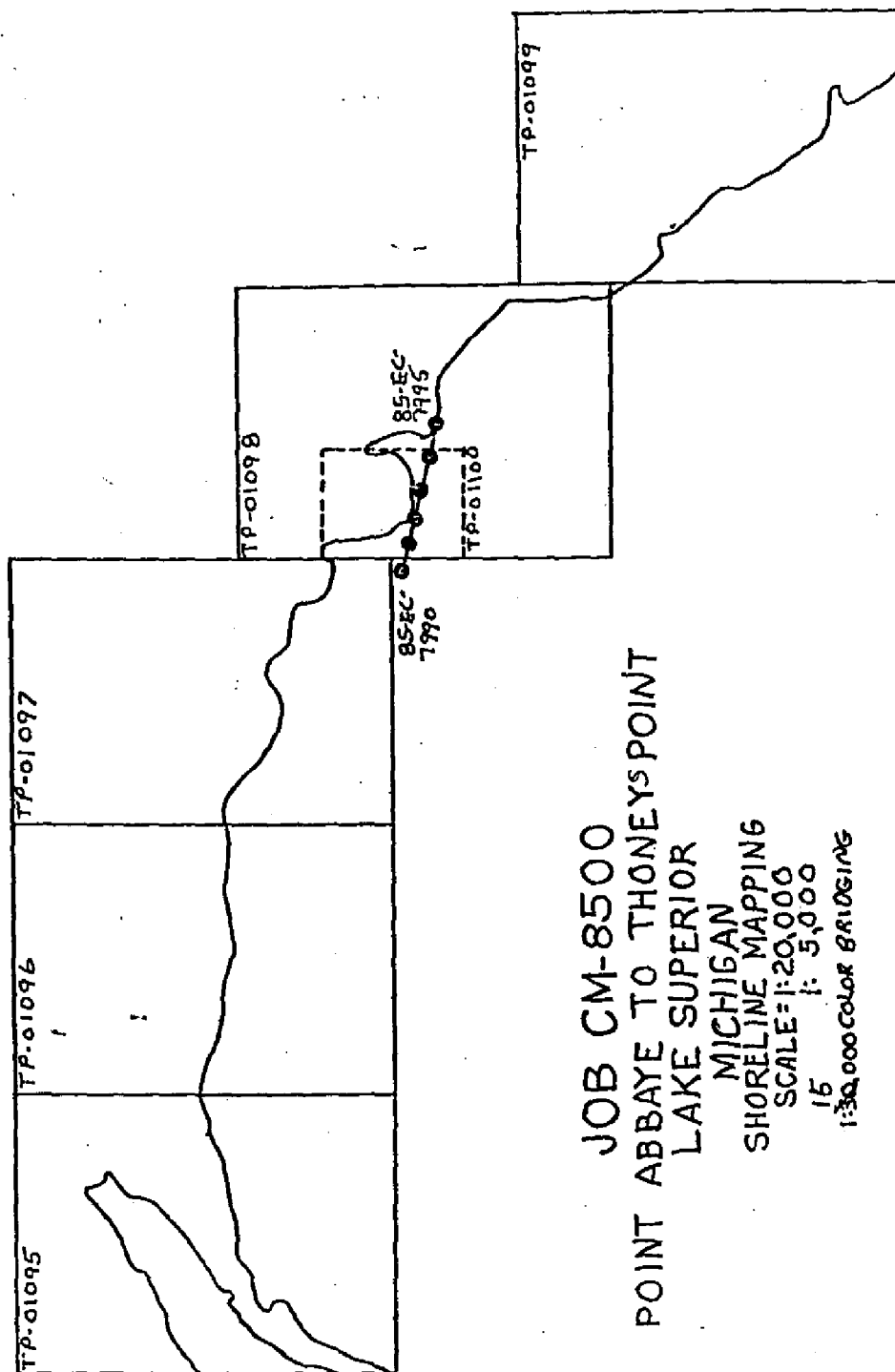
<u>STATION NAME</u>	<u>PANEL NO.</u>	<u>AERO NO.</u>
MESNARD, 1955 (Not used)	1	
HARLOW, 1985	2	926100
LOMA, 1955	3	923100
STORT 2, 1985 SUB STATION (Same as Panel 13)	4	995101
CLUB, 1985	5	143100
HURON, 1955	6	144100
NANK, 1985	7	148100
ABBAYE, 1985	8	907100
AURA, 1985	9	151100
NUMBER TEN	10	912101
DANDREA, 1985	11	990100
STORT 2, 1985	12	992110
STORT 2, 1985 SUB STATION (Same as Panel 4)	13	995101



JOB CM-8500  
 POINT ABBAYE TO THONEYSPOINT  
 LAKE SUPERIOR  
 MICHIGAN  
 SHORELINE MAPPING  
 SCALE: 1:20,000  
 1: 5,000  
 BRIGGING CONTROL



JOB CM-8500  
 POINT ABBAYE TO THONEYS POINT  
 LAKE SUPERIOR  
 MICHIGAN  
 SHORELINE MAPPING  
 SCALE=1:20,000  
 1: 5,000  
 150000 Color BRIDGING



JOB CM-8500  
 POINT ABBAYE TO THONEYSPOINT  
 LAKE SUPERIOR  
 MICHIGAN  
 SHORELINE MAPPING  
 SCALE=1:20,000  
 1:5,000  
 1:30,000 COLOR BRIDGING



## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODETTIC DATUM		ORIGINATING ACTIVITY	
					NA 1927 STATE Michigan ZONE West	COORDINATES IN FEET X= 724,484.124 Y= 1,958,862.166	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
TP-01097	CW-8500	CLUB, 1985	Field Binder	143100	X=	724,484.124	φ 46° 52' 13.260"	Doppler Satellite Station.
					Y=	1,958,862.166	λ 87° 51' 08.906"	
					X=			
					Y=			
					X=			
					Y=			
					X=			
					Y=			
					X=			
					Y=			
COMPUTED BY					X=		φ	
					Y=		λ	
					X=		φ	
					Y=		λ	
					X=		φ	
					Y=		λ	
					X=		φ	
					Y=		λ	
					X=		φ	
					Y=		λ	
LISTED BY Lloyd W. Harrod Jr.					COMPUTATION CHECKED BY		DATE	
					DATE 01-21-86	DATE 03-25-86		
HAND PLOTTING BY					HAND PLOTTING CHECKED BY		DATE	
					DATE 01-21-86	DATE 03-25-86		

COMPILATION REPORT  
TP-01097

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.

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. The water level at the time of photography was 601.4 feet. Shoreline and alongshore delineation was compiled as described in item 31 of this report.

Alongshore detail consisted of a standing wall east of the mouth of the Pine River.

36. OFFSHORE DETAIL

No offshore detail was compiled.

37. LANDMARKS AND AIDS

No landmarks or aids to navigation were compiled on TP-01097.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Refer to item 5 of NOAA Form 76-36B, bound with this Descriptive Report, for 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:

Big Bay, Michigan, Provisional Edition 1984  
Ives Hill, Michigan, Provisional Edition 1984  
Huron Mountain, Michigan, Provisional Edition 1985  
Howe Lake, Michigan, Provisional Edition 1984  
Mountain Lake, Michigan, Provisional Edition 1985  
also Huron Mountain, Michigan, 1954 (scale 1:62,500)

47. COMPARISON WITH NAUTICAL CHARTS

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

14964, 17th Edition (Aug. 18, 1984), scale 1:120,000.

Submitted by,



Ted Doyle  
Cartographer

Approved and Forwarded:



John A. Mooney  
Chief, Special Projects Unit

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

CM-8500 (Lake Superior, Michigan)

TP-01097

Conway Bay

Conway Creek

Conway Lake

Conway Point

Dutch Johns Pond

Gillet Landing

Huron Mountain (locality)

Huron River Point

Ives Lake

Mountain Lake

Pine Lake

Pine River Lake

Pine River Point

Rush Lake

Salmon Trout Bay

Salmon Trout River

Second Lake

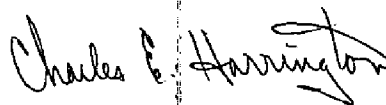
Styx, River

Sullivan Creek

Superior, Lake

Third Lake

Approved:

Charles E. Harrington  
Chief Geographer  
Nautical Charting Division

FINAL REVIEW REPORT  
TP-01097

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:

Big Bay, Michigan, Provisional Edition 1984  
Ives Hill, Michigan, Provisional Edition 1984  
Huron Mountain, Michigan, Provisional Edition 1985  
Howe Lake, Michigan, Provisional Edition 1984  
Mountain Lake, Michigan, Provisional Edition 1985  
also Huron Mountain, Michigan, 1954 (scale 1:62,500)

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS - None

65. COMPARISON WITH NAUTICAL CHARTS

14964, Scale 1:120,000, 17th Edition, dated August 18, 1984.

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 W. Meany*  
Chief, special Projects Unit

Approved:

Chief, Photogrammetric Production Section

*A. Y. Bryson*  
Chief, Photogrammetry Branch

### 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]