**DESCRIPTIVE REPORT**

**THIS MAP EDITION WILL NOT BE FIELD EDITED**

<table>
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<tr>
<td>TP-00499</td>
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**Job No.**

CM-8000

**Map Classification**

CLASS III FINAL

**Type of Survey**

SHORELINE

**LOCALITY**

**State**

NEW YORK

**General Locality**

LAKE ONTARIO

**NiAGARA RIVER TO ROCHESTER**

**Locality**

WILSON

**1980 TO 19**

**REGISTRY IN ARCHIVES**

**DATE**
**DESCRIPTIVE REPORT - DATA RECORD**

**PHOTOGRAMMETRIC OFFICE**  
Atlantic Marine Center  
Coastal Mapping Division, Norfolk, VA

**OFFICER-IN-CHARGE**  
Max Ethridge

1. **INSTRUCTIONS DATED**

<table>
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<tr>
<th>1. OFFICE</th>
<th>2. FIELD</th>
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<tr>
<td>Aerotriangulation August 1, 1980</td>
<td>Control March 25, 1980</td>
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<td>Amendment-Change No. 1 August 18, 1980</td>
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<td>Compilation September 30, 1981</td>
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<tr>
<td>Memo (Registration Part I) December 9, 1981</td>
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<tr>
<td>Memo (Re: Post Compilation) December 14, 1981</td>
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<td>Memo (Registration Parts II &amp; III) May 13, 1982</td>
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2. **DATUMS**

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III. **HISTORY OF OFFICE OPERATIONS**

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<td>1. AEROTRIANGULATION</td>
<td>B. Thornton</td>
<td>Aug. 1980</td>
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<td>R. Kravitz</td>
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<td>L.O. Neterer, Jr.</td>
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<td>9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH</td>
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<td>10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH</td>
<td>Robert Kelly</td>
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<td>11. MAP REGISTERED - COASTAL SURVEY SECTION</td>
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1. COMPILATION PHOTOGRAPHY

CAMERA(S)
Wild RC-10 "Z" (focal length = 153.14 mm)

TIDE STAGE REFERENCE
☐ Predicted Tides NA
☐ Reference Station Records NA
☐ Tide Controlled Photography NA

TYPES 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 TIDE
80 Z(P)6901-6904 | June 5, 1980 | 09:11 | 1:50,000 | NA

REMARKS
*Lake level at time of photography was 246.05 ft., Lake Ontario Low Water Datum. Olcott gage, or 3.2 ft. above I.G.L.D.

2. SOURCE OF MEAN HIGH-WATER LINE:

Mean High Water Line is not applicable. The shoreline was delineated from the above listed photography where the water interfaces with the land.

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.)

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5. FINAL JUNCTIONS

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REMARKS

NOAA FORM 76-36B
(3-72)
**HISTORY OF FIELD OPERATIONS.**

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<td>2. HORIZONTAL CONTROL</td>
<td>C. S. Middleton</td>
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<td>3. VERTICAL CONTROL</td>
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<td>4. LANDMARKS AND AIDS TO NAVIGATION</td>
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**II. SOURCE DATA**

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**III. SUPPLEMENTAL MAPS AND PLANS**

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

1 Form 76-53 CSI Card
**NOAA Form 76-36D**

**U.S. Department of Commerce**

**National Oceanic and Atmospheric Administration**

**TP-00499**

**Record of Survey Use**

<table>
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<th>Compilation Stages</th>
<th>Date</th>
<th>Remarks</th>
<th>Marine Charts</th>
<th>Hydro Support</th>
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<td>Dec. 1982</td>
<td>Final Class III map No field edit performed</td>
<td>Mar 1983</td>
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**II. Landmarks and Aids to Navigation**

1. **Reports to Marine Chart Division, Nautical Data Branch**

<table>
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<td>2</td>
<td></td>
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<td>Aids for charting</td>
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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:  
2. Control Station Identification Cards:  
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: April 1983

**IV. Survey Editions**

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SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT
TP-00499

This 1:20,000 scale shoreline map is one of four maps in part III of three parts of project CM-8000, Lake Ontario, Niagara River to Rochester, New York. The project has a total of thirteen maps.

This project encompasses the southern lake shore from Niagara River longitude 79°05'00" east to Rochester longitude 77°30'00".

Correspondence from the Chief, Photogrammetry Division dated May 13, 1982, calls for all thirteen maps to be registered as Class III maps.

Field work prior to compilation was accomplished in May 1980. It consisted of the identification of horizontal control by premarking methods to meet aerotriangulation requirements.

Photographic coverage was provided in June 1980 for aerotriangulation using panchromatic film with the "Z" camera at 1:50,000 scale. The same photography was used for compilation.

Analytic aerotriangulation was performed at the Washington Science Center in November 1980.

Compilation was performed at the Atlantic Marine Center from office interpretation of the 1980 photography in August 1982.

Final review was performed at the Atlantic Marine Center in December 1982. Cancellation of field edit requires this map to be registered as a final Class III map.

The original base map and all pertinent data were forwarded to the Washington Science Center for final registration.
FIELD REPORT

JOB CM-6000

1. GENERAL

This report covers the premarking and photoidentification of horizontal control points as prescribed by project instructions. Panel array no. 1 was used on all stations on which a panel could be used, however, several deviations to this array were made and are so indicated on applicable NOAA Forms 76-53, Control Station Identification Card.

Recovery of horizontal control stations was limited to those needed to meet aerotriangulation requirements. Recovery notes are included for each station for which a search was made.

2. HORIZONTAL CONTROL

The following control stations were premarked or are to be photoidentified on the photographs.

Control Point No. 1 FORT NIAGARA (LSC) 1972. Station is paneled direct with array no. 1 with no wings. Sub points 1A, 1B, 1C were established for photoidentification in the event that the panel is not visible. It should be noted that the plane coordinates of the station and sub points are from a provisional constrained adjustment and are not final P.C.'s.
Control Point No. 2 RANSOMVILLE, BELL AIRCRAFT TEST CENTER TANK 1958. Sub point 2A paneled direct with array no. 1.

Control Point No. 3 (E.T.) CASS 1972. Sub point 3A paneled with a 2 winged deviation of array no. 1.

Control Point No. 4 ST. MARY 1972. Station paneled direct with array no. 1 with no wings.

Control Point No. 5 THIRTY 1972. Sub point 5A paneled with array no. 1.

Control Point No. 6 BRIGHTON (LSC) 1972. Sub point 6A paneled with array no. 1. Note that P.C.'s for this station are from a provisional constrained adjustment and are not final P.C.'s.

Control Point No. 6 extra LAKESIDE (LSC) 1972. Station paneled direct with array no. 1 with 2 wings. P.C.'s for this station are from a provisional constrained adjustment and are not final P.C.'s.

Control Point No. 7 HAMLIN 1939/1969. Reference mark no. 3 is paneled with a variation of array no. 1 as noted on appropriate NCAA Form 76-53.
Control Point No. 8  PAYNE 2 1969. Station paneled direct with array no. 1.

Control Point No. 9  GREECE 1939. Station paneled direct with array no. 1 with 2 wings.

Control Point No. 10  SENECA 2 1925 / SENECA 3 1942 / SENECA 3 RM 3 1942-1969. Sub points 10A, 10B, and 10C were established for photoidentification, no panel.

Control Point No. 11  MILE 1939. Station is paneled direct with a deviation of array no. 1 as is indicated on NOAA Form 76-53.

Control Point No. 12  Sweet 1939. Station is paneled direct with a variation of array no. 1 as is noted on NOAA Form 76-53.

APPROVED AND FORWARDED

Robert S. Tibbetts
Chief, Photo Party 62

SUBMITTED 7/9/80

Clifton S. Middleton Jr.
Surveying Technician
Photogrammetric Plot Report
Lake Ontario, New York
CM-8000
November 1980

21. Area Covered

The area covered by this report extends from Lake Ontario at Fort Niagara to Rochester, New York. The project area is covered by nine 1:20,000 scale sheets and four 1:10,000 scale sheets; TP-00498 to TP-00505 (1:20,000), TP-01065 to TP-10167 and TP-00900 (1:10,000).

22. Method

Four strips of 1:50,000 scale photography were bridged by analytic aerotriangulation methods. The strips of bridging photography were controlled by field identified control. Tie points were used to ensure an adequate junction of strips. Points for compilation were established on the 1:30,000 scale photography for the 1:10,000 scale sheets. The bridging photography will be used for the 1:20,000 scale sheets. Ratios of the compilation photography were determined and the ratios were ordered by this office.

The manuscripts were plotted by the Calcomp 718 plotter.

23. Adequacy of Control

Control checked well within map accuracy standards and is sufficient for its intended use.

24. Supplemental Data

USGS quadrangles were used to provide vertical control for the adjustment.

25. Photography

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

Submitted by,

Brian Thornton

Approved and Forwarded:

Don O. Norman
Chief, Aerotriangulation Section
CM-8000

Lake Ontario

Niagara River to Rochester, New York

MATERIAL ON FILE

NATIONAL ARCHIVES/FEDERAL RECORD CENTER

BROWN JACKET

Field Notebook of Photo I.D. Control
Ratio Photographs

PROJECT COMPLETION REPORT

BUREAU ARCHIVES

Registered Copy of Each Map
Descriptive Report of Each Map

REPRODUCTION DIVISION

8x Reduction Negative of Each Map

OFFICE OF STAFF GEOGRAPHER

Geographer Names Standard
<table>
<thead>
<tr>
<th>STATION NAME</th>
<th>SOURCE OF INFORMATION (Index)</th>
<th>AEROTRIANGULATION POINT NUMBER</th>
<th>COORDINATES IN FEET</th>
<th>GEOGRAPHIC POSITION</th>
<th>REMARKS</th>
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<td>y =</td>
<td>λ 78°48'53.10841&quot;</td>
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COMPUTED BY

DATE

COMPUTATION CHECKED BY

DATE

LISTED BY

P. L. Evans

DATE

F. Mauldin

LISTING CHECKED BY

DATE

HAND PLOTTING BY

DATE

HAD PLOTTING CHECKED BY

DATE

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.
COMPILATION REPORT

TP-00499
CM-8000

31. **DELINEATION**

All delineation was by office interpretation of the 1:50,000 scale 1980 black and white photography using the Wild B-8 stereo-plotting instrument. Refer to form 76-36B for a list of photographs.

32. **CONTROL**

The horizontal control was adequate. Refer to the Photogrammetric Plot Report dated November 1980.

33. **SUPPLEMENTAL DATA**

None

34. **CONTOURS AND DRAINAGE**

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

35. **SHORELINE AND ALONGSHORE DETAILS**

The shoreline is defined as the visible line of contact between land features and the water surface. No unusual problems were encountered. See Item #31.

36. **OFFSHORE DETAILS**

No unusual problems were encountered. See Item #31.

37. **LANDMARKS AND AIDS**

Appropriate copies of the 76-40's were submitted with this report.

38. **CONTROL FOR FUTURE SURVEYS**

None

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 U.S. Geological Quadrangles:
Six Mile Creek, NY, dated 1973, scale 1:24,000
Wilson, NY, dated 1965, scale 1:24,000

47. **COMPARISON WITH NAUTICAL CHARTS**

A comparison was made with Lake Ontario Chart No. 14806, scale 1:80,000, 20th edition, dated July 11, 1981; and Wilson Harbor Inset, scale 1:10,000.

**ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY**

None

**ITEMS TO BE CARRIED FORWARD**

None

Submitted by:

P. L. Evans
Cartographic Technician

May 27, 1981

Approved:

James L. Byrd, Jr.
Chief, Coastal Mapping Section
REVIEW REPORT
SHORELINE
TP-00499

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: Six Mile Creek, New York, dated 1973 and Wilson, New York, dated 1965. Both are 1:24,000 scale.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No contemporary hydrographic survey was conducted in the area pertaining to this final Class III map.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with N.O.S. Chart: 14806, 20th edition, dated July 11, 1981, scale 1:80,000 with inset of Wilson Harbor at 1:10,000 scale.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted by:
Lowell O. Neterer, Jr.
Final Reviewer

Approved for forwarding:
Billy H. Barnes
Chief, Photogrammetric Branch, AMC

Approved:
Chief, Photogrammetric Branch, Rockville
Chief, Photogrammetry Division
GEOGRAPHIC NAMES
FINAL NAME SHEET
CM-8000 (Lake Ontario-Niagara River to Rochester)

TP-00499

Coolidge Beach (Ppl)
East Branch Twelvemile Creek
Hopkins Beach (Ppl)
Lake Ontario
Roosevelt Beach (Ppl)
Sunset Beach
Tuscarora Bay
Twelvemile Creek
Uneeda Beach

Approved by:
Charles E. Harrington
Chief Oceanographer, C3x5
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<th>Description</th>
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<th>Longitude</th>
<th>Method and Date of Location</th>
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<tr>
<td>LIGHT</td>
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<td>43 19</td>
<td>10.21</td>
<td>80 Z(P) 6902 6/5/80</td>
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<td>DAY BEACON</td>
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</table>

The following objects have been inspected from seaward to determine their value as landmarks:

- Light
- Daybeacon

NOTES:
- Not visible on 1980 photography
- Insets

CHARTS AFFECTED: 14806

OBSERVATIONS:
- CM-8000
- TP-00499
**Nonfloating Aids for Charts**

**Revises CGGS Form 567.**

**Reporting Unit:** Coastal Mapping Div.

**State:** New York

**Locality:** Lake Ontario, Niagara River to Rochester

**Date:** May 27, 1982

The following objects **HAVE** been inspected from seaward to determine their value as landmarks.

<table>
<thead>
<tr>
<th>Charting Name</th>
<th>Description</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
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<tr>
<td></td>
<td>21</td>
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</tr>
</tbody>
</table>

**Chart Affected:** 14806 Inset

**Method and Date of Location:**

(See instructions on reverse side)
by photogrammetric methods.

11. Position determined by triangulation. Recovered

Example: TR-19-75

- Vertical. V-T.
  - Enter V-T, and date.
  - Position previously determined by triangulation.

Example: V-T-19-75

8-12-75

Example: V-T-19-75

- Recovered, with date of recovery.
  - Angular station is recovered, enter "Triangulation"

Example: TR-19-75

8-12-75

Example: P-G-

9-28-27

Example: P-G-

A, Field positions require entry of method of

1. Field determined at VERIFIED OR

 correlate photogrammetric data by symbols as follows:

  - Field

  - VERIFIED

  - Locatable

  - VISONALY

  - Field

  - Photogrammetric

  - Field determined

  - Field

  - Field

  - Field

  - Field

  - Field

  - Field

Office of Field and Locatable Objects

Office of Field and Locatable Objects

Office of Field and Locatable Objects

Instructions for Entries Under Method and Date of Location.

<table>
<thead>
<tr>
<th>Activities</th>
<th>Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field activity representative</td>
<td>Field activity representative</td>
</tr>
<tr>
<td>Office activity representative</td>
<td>Office activity representative</td>
</tr>
<tr>
<td>Reviewer</td>
<td>Reviewer</td>
</tr>
</tbody>
</table>

Form reviewed by quality control and final review.

Form completed by quality control.

P. Evans

Office of Field and Locatable Objects

Objects inspected from stand to stand.

Type of action

Responsible personnel
<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>None charted</td>
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</tbody>
</table>

**Reporting Unit:**
- Coastal Mapping Div.
- AMC, Norfolk, VA

**Locality:**
- Lake Ontario
- Niagara River to Rochester

**Dates:**
- May 27, 1982

**Survey Number:**
- TP-00499

**Datum:**
- NA 1927

**Charts Affected:**
- None charted
**Field Positions are determined by field observer.**

- **Example:** F-2 6-L
  - Location and date of field work.

### Field Positions

1. **RM Position determined on V-Spots**
2. **L - Located**
3. **F - Field
4. **V - Visually**
5. **T - Triangulation**
6. **P - Photogrammetric**
7. **R - Ranging**
8. **S - Sextant**
9. **I - Intersection**
10. **R - Resection**
11. **V - V-Spots**

### Calculated Data

- **Base:** Trigonometric
- **Field:** Photogrammetric
- **Methods:** Triangulation, Ranging, Sextant, Resection, Intersection, Ranging, V-Spots

### Instructions for Entries User, Method and Date of Location

<table>
<thead>
<tr>
<th>Activities</th>
<th>Quality Control and Review</th>
<th>Field and Review Group and Final Review</th>
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</thead>
<tbody>
<tr>
<td>Other Activity Represented</td>
<td>Field Activity Represented</td>
<td>Field Activity Represented</td>
</tr>
<tr>
<td>Other (Specify)</td>
<td>Geodetic Party</td>
<td>Photogrammetric Party</td>
</tr>
</tbody>
</table>

**Responsible Personnel**

**Type of Action**
## 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.

<table>
<thead>
<tr>
<th>CHART</th>
<th>DATE</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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