

TP-00498

TP-00498

NOAA FORM 76-35 (3-76)	
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-00498	Edition No. 1
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 NIAGARA RIVER	
1980 TO 19	
REGISTRY IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
DESCRIPTIVE REPORT - DATA RECORD		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Atlantic Marine Center Coastal Mapping Division, Norfolk, VA		SURVEY TF. <u>00498</u> MAP EDITION NO. (1) MAP CLASS III Final JOB XXX CM-8000	
OFFICER-IN-CHARGE Max Ethridge		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB PH- _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Aerotriangulation August 1, 1980 Amendment-Change No. 1 August 18, 1980 Compilation September 30, 1981 Memo (Registration Part I) December 9, 1981 Memo (Re: Part Compilation) December 14, 1981 Memo (Registration Parts II & III) May 13, 1982		Control-Premarking March 25, 1980	
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 <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify) International Great Lakes Datum, (1955) Lake Ontario Low Water Datum	
3. MAP PROJECTION Transverse Mercator		4. GRID(S) STATE New York ZONE West	
5. SCALE 1:20,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	
DATE			
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY		B. Thornton Aug. 1980 D. Norman Aug. 1980	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Calcomp 718 CHECKED BY		B. Thornton Oct. 1980 D. Norman Oct. 1980	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 SCALE: 1:20,000 CONTOURS BY CHECKED BY		C. Klein May 1982 R. Kravitz May 1982 NA NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: Smooth drafted CONTOURS BY CHECKED BY SCALE: 1:20,000 HYDRO SUPPORT DATA BY CHECKED BY		C. Klein June 1982 R. Kravitz Aug. 1982 NA NA C. Klein June 1982 R. Kravitz Aug. 1982	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		R. Kravitz Aug. 1982	
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		NA NA	
7. COMPILATION SECTION REVIEW Class III BY		R. Kravitz Aug. 1982	
8. FINAL REVIEW Class III BY		L. O. Neterer, Jr. Dec. 1982	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		L. O. Neterer, Jr. Dec. 1982	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		Robert Kelly OCT 4 1983	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		(Signed)	

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00498
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild R.C.-10 "Z"		(focal length 153.15 mm)	TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE See Remarks Below <input type="checkbox"/> PREDICTED TIDES NA <input type="checkbox"/> REFERENCE STATION RECORDS NA <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY NA			(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Eastern	<input checked="" type="checkbox"/> STANDARD
					MERIDIAN 75th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE		
80 Z(P) 6897-6902	June 5, 1980	09:11	1:50,000	NA		
* 80 E(C) 6404-6405	Sept. 27, 1980	9:04	1:30,000	See Remarks		

REMARKS The lake level at the time of photography was 246.05 or 3.2 feet above International Great Lakes Datum. Water levels were taken at Olcott, New York, gage on June 5, 1980.

2. SOURCE OF MEAN HIGH-WATER LINE:

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

*Photos flown for project CM-8104 - Lake level not applicable

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.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH No Survey	EAST TP-00499	SOUTH CM-8104 TP-01126	WEST No Survey
REMARKS			

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

TP-00498

HISTORY OF FIELD OPERATIONS.

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. S. Tibbetts	Sept. 1980
2. HORIZONTAL CONTROL	RECOVERED BY C. S. Middleton	Sept. 1980
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY C. S. Middleton	Sept. 1980
3. VERTICAL CONTROL	RECOVERED BY None	
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None	
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <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 NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
80 Z(P)6898	Fort Niagara (LSC) 1972		

3. PHOTO NUMBERS (Clarification of details)

None

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)

1 - CSI Card - form 76-53

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONTP-00498
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	August 1982	Class III manuscript		
Final Review, Class III	Dec. 1982	Final Class III map No field edit performed	Mar. 1983	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER pages	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
2		Mar. 1983	Landmarks for charting
1		Mar. 1983	Aids for charting

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. ⁷⁶⁻⁴⁸ ~~XXX~~ 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: April 1983

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	

—

SHORELINE MAPPING
SCALE 1:10,000 & 1:20,000

VIEW AND DISTANCE DESCRIPTION
The site lies on a straight highway between 9500 and 18 000 Metres of Yang H4 W without ATC clearance for subsequent details, see appropriate weather charts.

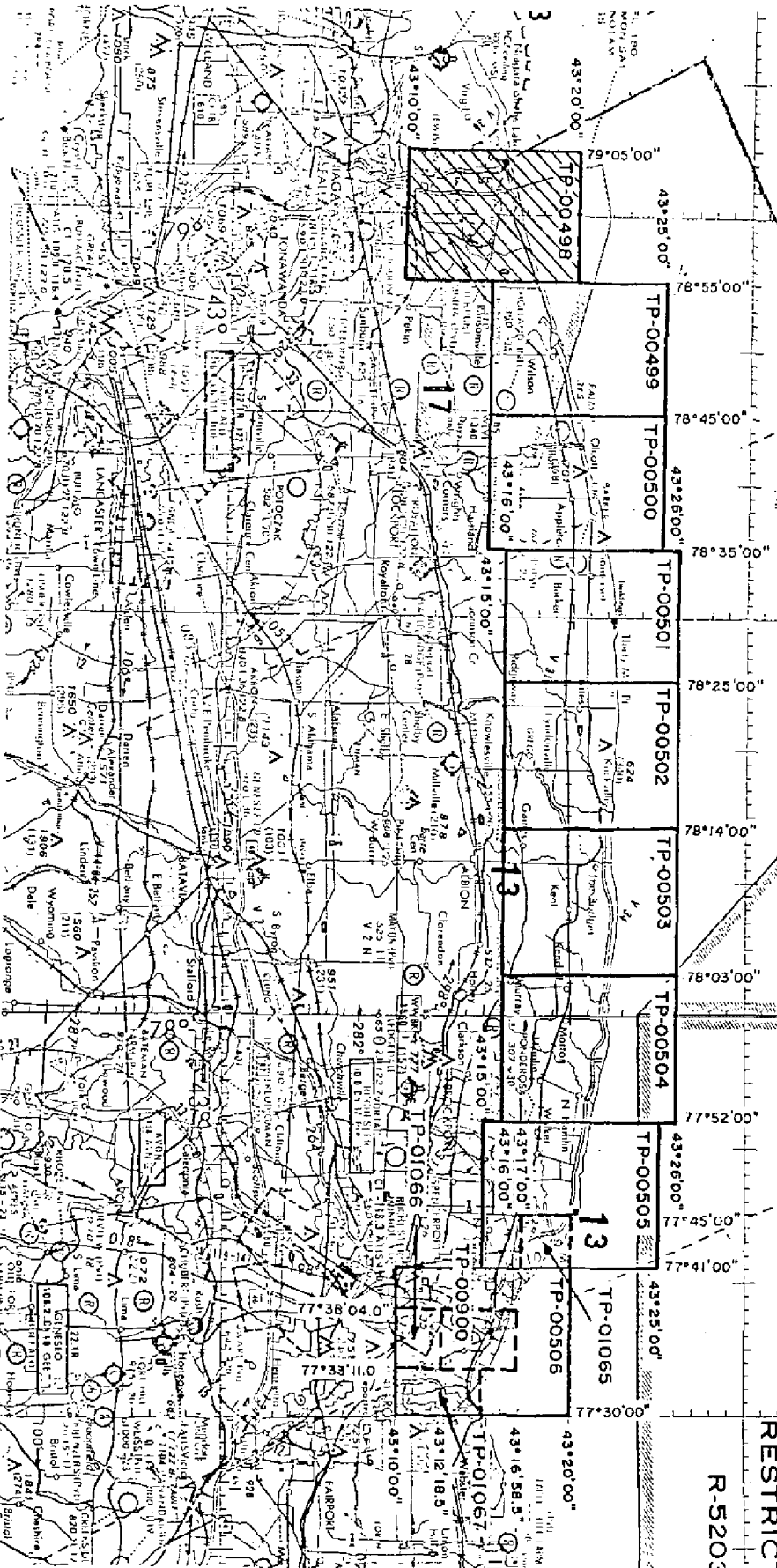
ONTARIO
NEW YORK

GULL 1 MOA

REVISED AUG 1980 DE

RESTRICT

R-5203



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00498

This 1:20,000 scale shoreline manuscript is one of four maps in Part III of three parts of project CM-8000, Lake Ontario, Niagara River to Rochester, New York. This 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 of Photogrammetry 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.

Color film with the "E" camera at 1:30,000 scale from Project CM-8104 Niagara River, New York, was used to complete the hiatus between the two projects caused by insufficient photo coverage on Project CM-8000. These same photographs were used for compilation.

Analytic aerotriangulation was performed at the Washington Science Center in November 1980 on CM-8000 and in September 1981 on CM-8104.

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 REPORTJOB CM-80001. 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.

-2-

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.) GASS 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.

-3-

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.

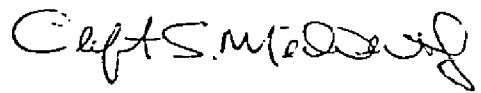
Control Point No.12 Sweet 1939. Station is paneled direct with a variation of array no. 1 as is noted on NOAA Form 76-53.

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-00506 (1:20,000), TP-01065 to TP-01067 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.

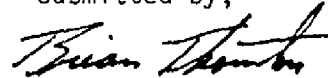
24. Supplemental Data

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

25. Photography

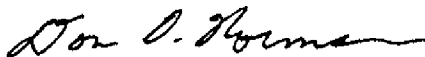
The coverage, overlap, and quality of the photography was adequate for the job.

Submitted by,

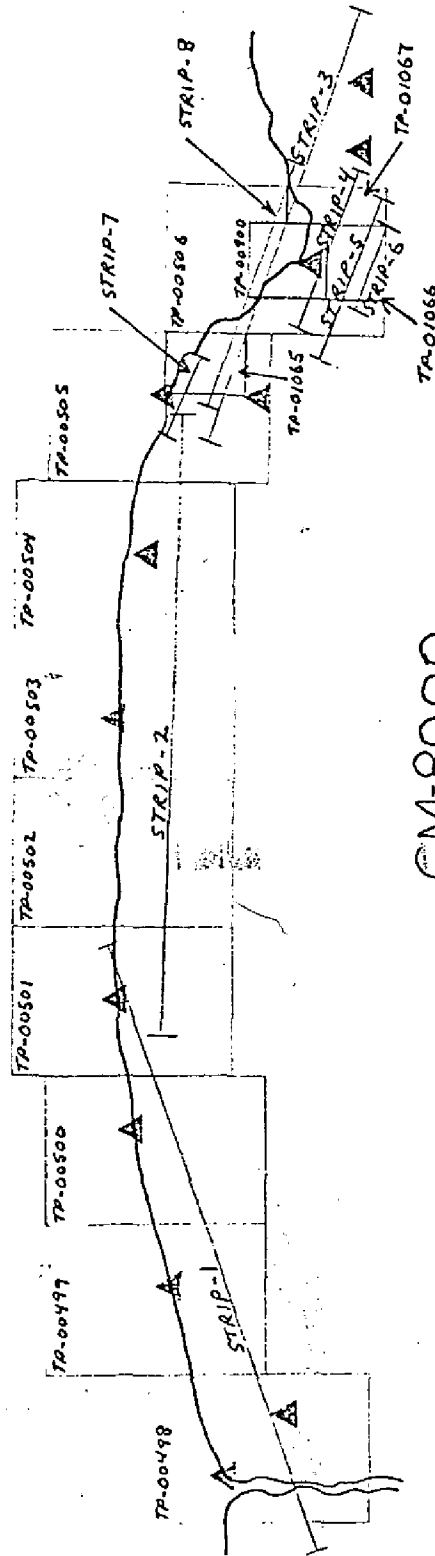


Brian Thornton

Approved and Forwarded:



Don O. Norman
Chief, Aerotriangulation Section



GM-8000
LAKE ONTARIO
NIAGARA RIVER TO ROCHESTER
NEW YORK

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. TP-00498	JOB NO. CM-8000	GEODETTIC DATUM NA 1927		ORIGINATING ACTIVITY Coastal Mapping Division Norfolk, VA		REMARKS
		COORDINATES IN FEET STATE New York ZONE West	AEROTRI- ANGULATION POINT NUMBER	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE		
CAMP 2 (USGS), 1973	Quad 430783 Sta 1024	9		x=	φ 43°16'37.319"	
				y=	λ 78°59'29.985"	
FORT NIAGARA WATERTANK, NEW YORK, 1941	GP-1	898199		x=	φ 43°15'43.215"	
				y=	λ 79°03'35.121"	
FORT NIAGARA LIGHTHOUSE NEW YORK, 1941	GP-1	898149		x=	φ 43°15'42.114"	
				y=	λ 79°03'38.779"	
VINCENT PIER, NEW YORK, 1941	GP-1	50 A		x=	φ 43°15'16.993"	
				y=	λ 79°03'07.286"	
OAK, CANADA, 1941	GP-2	51 B		x=	φ 43°14'43.607"	
				y=	λ 79°03'31.819"	
STEPS-IWC, CANADA 1912	GP-2	52		x=	φ 43°14'33.099"	
				y=	λ 79°03'33.659"	
STELLA-IWC, NEW YORK, 1912	GP-3	61		x=	φ 43°12'00.481"	
				y=	λ 79°02'44.981"	
GYPSY ECC, CANADA, 1941	GP-3	63		x=	φ 43°11'30.311"	
				y=	λ 79°03'16.677"	
FRONT RANGE LIGHT, NIAGARA- ON-THE-LAKE, CANADA, 1941	GP-24			x=	φ 43°15'19.433"	
				y=	λ 79°03'43.143"	
BACK RANGE LIGHT, NIAGARA- ON-THE-LAKE, CANADA, 1941	GP-25			x=	φ 43°15'13.583"	
				y=	λ 79°03'38.361"	
COMPUTED BY				COMPUTATION CHECKED BY		DATE
LISTED BY C. Klein				LISTING CHECKED BY R. Kravitz		DATE August 23, 1982
HAND PLOTTING BY				HAND PLOTTING CHECKED BY		DATE

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODEIC DATUM		ORIGINATING ACTIVITY	
		COORDINATES IN FEET STATE <u>New York</u> ZONE <u>West</u>	NA 1927	Geographic Position ϕ LATITUDE λ LONGITUDE	Coastal Mapping Division Norfolk, VA
TP-00498	CM-8000				
CATHOLIC CHURCH CROSS NIAGARA ON-THE-LAKE, Canada, 1941	GP-25			ϕ 43°15'13.570"	418.8 1432.8 103.5 1250.0
FORT NIAGARA (LSC) 1972	COMP			λ 79°04'04.587"	
				ϕ	
				λ	
				ϕ	
				λ	
				ϕ	
				λ	
				ϕ	
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				λ	
				ϕ	
				λ	
COMPUTED BY			COMPUTATION CHECKED BY		DATE
LISTED BY C. Klein			LISTING CHECKED BY R. Kravitz		DATE August 23, 1982
HAND PLOTTING BY			HAND PLOTTING CHECKED BY		DATE

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

COMPILATION REPORT

TP-00498
CM-800031. DELINEATION

All delineation was by office interpretation of the 1:50,000 scale, June 5, 1980, panchromatic and the 1:30,000 scale, September 27, 1980, color photographs using the Wild B-8 stereoplotting instrument. Refer to form 76-36B for a list of the photographs. Photo coverage was adequate.

32. CONTROL

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

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are not applicable to this project. See Item #31 for drainage.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline is defined as the visible line of contact between land features and the water surface. The shoreline was checked by using black and white ratio photographs. 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 are submitted with this report.

38. CONTROL FOR FUTURE SURVEYS

None

TP-00498
CM-8000

39. JUNCTIONS

Refer to the Data Record Form 76-36B, Item 5 of Descriptive Report concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY

See Item #32.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S. Geological Survey Quadrangles:

Fort Niagara, NY, scale 1:24,000, 1965
Lewiston, Ontario, NY, scale 1:24,000, 1965
Six Mile Creek, NY, scale 1:24,000, 1973

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following National Ocean Survey charts: 14806, scale 1:80,000, dated July 11, 1981, 20th edition
14816, scale 1:30,000, dated September 19, 1981, 20th edition

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

for *Billy H. Barn*
Carl J. Klein
Cartographic Aid

June 8, 1980

Approved:

for *Billy H. Barn*
James L. Byrd, Jr.
Chief, Coastal Mapping Section

REVIEW REPORT
SHORELINE

TP-00498

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. Quadrangle:

Fort Niagara, New York-Ontario, dated 1965; Lewiston, Ontario-New York, dated 1965, and Six mile Creek, New York, dated 1973. All three are 1:24,000 scale.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

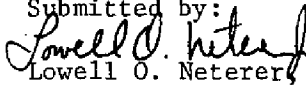
No contemporary hydrographic survey was conducted in the area pertaining to this final Class III map.

65. COMPARISON WITH NAUTICAL CHARTS:

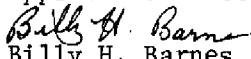
A comparison was made with N.O.S. Charts: 14816, 1:30,000 scale, dated September 19, 1981, 20th edition, and 14806, scale 1:80,000, dated July 11, 1981, 20th edition.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

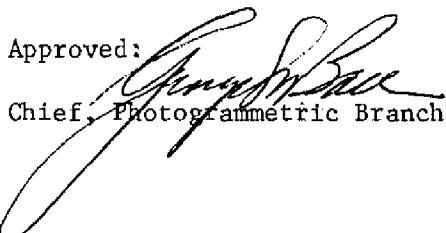
This map complies with project instructions, and meets the requirements for National Standards of Map Accuracy.


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

August 4, 1982

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8000 (Lake Ontario-Niagara River to Rochester)

TP-00498

Canada

Collingwood Estates

Fort George

Fort Mississauga

Fort Niagara Beach (Pp1)

Fourmile Creek

Harrison Grove

Lake Ontario

Lewiston

Mississauga Point

Niagara-on-the-Lake

Niagara River

Old Fort Niagara

Queenston

Riverside Manors

Sixmile Creek

Stella Niagara

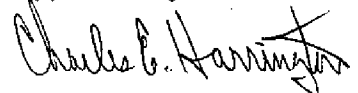
Unedda Beach (Pp1)

United States

Youngstown

Youngstown Estates

Approved by:



Charles E. Harrington
Chief Oceanographer, C3x5

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

Replaces C&GS Form 567.

NONFLOATING AIDS

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
FOR CHARTS

ORIGINATING ACTIVITY	
<input type="checkbox"/>	HYDROGRAPHIC PARTY
<input type="checkbox"/>	GEODETIC PARTY
<input type="checkbox"/>	PHOTO FIELD PARTY
<input checked="" type="checkbox"/>	COMPILATION ACTIVITY
<input type="checkbox"/>	FINAL REVIEWER
<input type="checkbox"/>	QUALITY CONTROL & REVIEW GRP.
<input type="checkbox"/>	COAST PILOT BRANCH

(See reverse for responsible personnel)

REPORTING UNIT (If field party, ship or office)		STATE	LOCALITY	DATE
<input checked="" type="checkbox"/> TO BE CHARTED	Coastal Mapping Div.	New York	Lake Ontario	August
<input type="checkbox"/> TO BE REVISED	AMC, Norfolk, VA		Niagara River to Rochester	1982
<input type="checkbox"/> TO BE DELETED				

The following objects HAVE <input type="checkbox"/> BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.	
OPR PROJECT NO.	DATUM

SURVEY NUMBER	
JOB NUMBER	TP-00498

POSITION	
NA 1927	

LATITUDE		LONGITUDE	
<input type="checkbox"/> D.M. Meters	<input type="checkbox"/> /	<input type="checkbox"/> D.P. Meters	<input type="checkbox"/> //

DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	
Fort Mississauga Light (Canada)	

CHARTING NAME	
LIGHT	

CHARTING NAME	
LIGHT	

CHARTING NAME	
LIGHT	

CHARTING NAME	
LIGHT	

CHARTING NAME	
LIGHT	

CHARTING NAME	
LIGHT	

CHARTING NAME	
LIGHT	

CHARTING NAME	
LIGHT	

CHARTING NAME	
LIGHT	

CHARTING NAME	
LIGHT	

METHOD AND DATE OF LOCATION (See instructions on reverse side)	
OFFICE	FIELD

CHARTS AFFECTED	
14806 14816	

CHARTS AFFECTED	
"	

CHARTS AFFECTED	
"	

CHARTS AFFECTED	
"	

CHARTS AFFECTED	
"	

CHARTS AFFECTED	
"	

CHARTS AFFECTED	
"	

CHARTS AFFECTED	
"	

CHARTS AFFECTED	
"	

CHARTS AFFECTED	
"	

CHARTS AFFECTED	
"	

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	C. Klein
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	<input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
OFFICE 1. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	FIELD (Cont'd) B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75

*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.

**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.										U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION LANDMARKS FOR CHARTS										ORIGINATING ACTIVITY	
TO BE CHARTED <input checked="" type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED		REPORTING UNIT (If field party, ship or office) Coastal Mapping Division AMC Norfolk, VA		STATE New York		LOCALITY Lake Ontario Niagara River to Rochester		DATE August 1982												<input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> COMPILATION ACTIVITY <input type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH (See reverse for responsible personnel)	
The following objects HAVE <input type="checkbox"/> HAVE NOT <input checked="" type="checkbox"/> been inspected from seaward to determine their value as landmarks.		JOB NUMBER		SURVEY NUMBER		DATUM		POSITION		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED									
OPR PROJECT NO.		JOB NUMBER		SURVEY NUMBER		DATUM		POSITION		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED									
CHARTING NAME		DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)		LATITUDE		LONGITUDE		OFFICE		FIELD		CHARTS AFFECTED									
				° / ' " D.M. Meters		° / ' " D.P. Meters															
TANK		(Fort Niagara Water Tank, New York, 1941)	43 15	43.215	79 03	35.121		80Z(P)6898 6/5/80		14806 14816											
R TR		At Fort Niagara						Not Identifiable on 1980 photos		14816											
SILOS		Most northerly of four	43 16	40.365	78 55	55.371		80Z(P)6901 6/5/80		14806											
SILOS		Tallest and most westerly of three	43 16	39.95 12.33	78 55	50.12 1132		80Z(P)6901 6/5/80		"											
SPIRE		At Niagara-on-the-Lake (Canada)	43 15	18.79 580	79 04	48.63 1097		80Z(P)6898 6/5/80		14816											
TANK		At Niagara-on-the-Lake (Canada)	43 15	00.585	79 04	52.568		80Z(P)6897 6/5/80		14806 14816											
FP		At Fort George (Canada)	43 15	04.54 140	79 03	39.37 888		80Z(P)6898 6/5/80		14816											
TANK		At Fort Niagara Yacht Club	43 15	02.650	79 02	57.117		80Z(P)6898 6/5/80		"											
STACK		At Stella Niagara	43 12	02.82 87	79 02	28.797 650		80Z(P)6898 6/5/80		"											
SPIRE		At Stella Niagara	43 12	01.49 46	79 02	28.26 638		80Z(P)6898 6/5/80		14806 14816											

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	C. Klein
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	<input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
OFFICE I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	FIELD (Cont'd) B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
FUSIONS DETERMINED AND/OR VERIFIED	C. Klein
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	<input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
OFFICE I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	FIELD (Cont'd) B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods. **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.	

