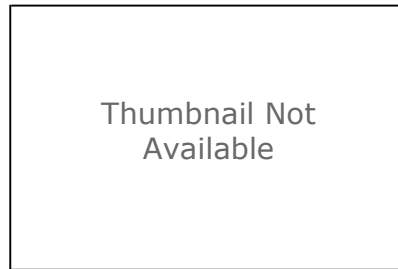


Niagara River AOC Boundary, U.S. EPA Great Lakes National Program Office

Shapefile



Tags

New York, Remediation, Environment, Great Lakes, Area of Concern, 020:057

Summary

The main use of the delineated AOC boundaries is for EPA and State governments to locate those sites listed on the U.S. Area of Concerns list in the Great Lakes Water Quality Agreement, or other sites that are in close proximity or may have contributed to the pollution within each AOC. These analyses are completed on a relatively small scale of the areas in and around each AOC. Attributes only include the AOC name and the predominant state in which the AOC is located. The locations of features and boundaries shown on this map are approximate and are intended for planning and visualization purposes only. This is not intended for survey, statistical, engineering, or legal purposes.

Description

This shapefile provides a polygon boundary for the Niagara River AOC in Western New York. In general, the following steps were taken in developing the shapefile:

1. The previous AOC shapefile was obtained from EPA.
2. Shoreline data from NOAA, called Continually Updated Shoreline Product (CUSP), was downloaded for the full extent of the AOC.
3. A narrative of the AOC was taken from the AOC webpage (see narrative below).
4. The AOC shoreline (river and lake as applicable) of the previous shapefile was updated using the data from Step #2.
5. The AOC international boundary of the current shapefile was updated using data from the International Boundary Commission
6. The extent of the AOC was determined from the narrative in Step #3 and/or the extent from the previous boundary and applied.
7. Utilizing aerial imagery (current and historic) and best professional judgement, manual edits to the shoreline were made if significant deviations were apparent due to man-made changes or possible errors.

Narrative: EPA AOC Webpage, 12/8/2021. "The Niagara River is a binational AOC that includes the entire Niagara River. The U.S. side of the AOC consists of an Impact AOC and a Source AOC. The Impact AOC extends from the mouth of Smoke Creek near the southern end of the Buffalo Outer Harbor (which is within Lake Erie) north to the mouth of the Niagara River at Lake Ontario. Within the river, the international border between Canada and the U.S. forms part of the Impact AOC boundary. On the landward side, the Impact AOC boundary follows the shoreline. In the Outer Harbor area, the in-water boundary generally follows the major breakwalls. In the southernmost section, where no breakwall is present, the AOC extends approximately one-half mile from shore. The Source AOC consists of portions of five tributaries to the AOC"

Representatives of both EPA and NYDEC reviewed and approved the boundary.

Credits: Sources of digital information used in the development of the AOC include: NOAA (<https://www.ngs.noaa.gov/CUSP/>), ESRI World Imagery

(http://goto.arcgisonline.com/maps/World_Imagery), Google Earth historic imagery (<https://www.google.com/earth/>), IBC U.S./Canada boundary v1.3 (<https://www.internationalboundarycommission.org/en/maps-coordinates/coordinates.php>), and EPA AOC Webpage (<https://www.epa.gov/great-lakes-aocs/niagara-river-aoc>).

Use limitations: Any hardcopies utilizing EPA data sets shall clearly indicate their source. The licensee specifically agrees not to misrepresent EPA data sets, nor to imply that changes they made were approved by EPA.

Extent

West -79.075353 **East** -78.857928
North 43.263665 **South** 42.810722

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:50,000

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE inlandWaters, boundaries

* CONTENT TYPE Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS New York

THESAURUS'S LANGUAGE English (UNITED STATES)

THESAURUS ►

TITLE EPA Place Names

PUBLICATION DATE 2015-01-31 00:00:00

RESOURCE LOCATION ONLINE

LOCATION

https://ofmpub.epa.gov/sor_internet/registry/termreg/searchandretrieve/taxonomies/search.do?search=&searchString=&taxonomyName=WB%20-%20Geographic%20Locations

NAME Web Taxonomy - Geographic Locations

FUNCTION PERFORMED information

Hide Thesaurus ▲

THEME KEYWORDS Remediation, Environment

THESAURUS ►

TITLE EPA GIS Keyword Thesaurus

PUBLICATION DATE 2007-11-02 00:00:00

RESOURCE LOCATION ONLINE

LOCATION <https://www.epa.gov/geospatial/epa-metadata-technical-specification>

NAME EPA Metadata Technical Specification

FUNCTION PERFORMED information

Hide Thesaurus ▲

THEME KEYWORDS Great Lakes, Area of Concern

THESAURUS ►

TITLE User

PUBLICATION DATE 2020-06-29 00:00:00

[Hide Thesaurus ▲](#)

THEME KEYWORDS 020:057

THESAURUS ►

TITLE Federal Program Inventory

PUBLICATION DATE 2013-09-16 00:00:00

RESOURCE LOCATION ONLINE

LOCATION <https://www.performance.gov/federalprograminventory>

NAME Federal Program Inventory

FUNCTION PERFORMED information

[Hide Thesaurus ▲](#)

[Hide Topics and Keywords ▲](#)

Citation ►

TITLE Niagara River AOC Boundary, U.S. EPA Great Lakes National Program Office

PUBLICATION DATE 2021-12-07

PRESENTATION FORMATS digital map

[Hide Citation ▲](#)

Resource Details ►

DATASET LANGUAGES English (UNITED STATES)

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

SPATIAL REPRESENTATION TYPE vector

* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.7.0.10450

CREDITS

Sources of digital information used in the development of the AOC include: NOAA (<https://www.ngs.noaa.gov/CUSP/>), ESRI World Imagery (http://goto.arcgisonline.com/maps/World_Imagery), Google Earth historic imagery (<https://www.google.com/earth/>), and EPA AOC Webpage (<https://www.epa.gov/great-lakes-aocs/niagara-river-aoc>).

ARCGIS ITEM PROPERTIES

* NAME AOC_NY_Niagara_2021

* SIZE 0.149

* LOCATION file://\F5160-78SW8C3-L\C\$\Users\justin.telech\OneDrive -

GDIT\Documents\Legacy\aoe boundary work\Niagara\Edits\Finalized\AOC_NY_Niagara_2021.shp

* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Extents ►

EXTENT

DESCRIPTION

The Niagara River AOC was designated an AOC in 1987.

TEMPORAL EXTENT

BEGINNING DATE 1987-01-01 00:00:00

ENDING DATE

INDETERMINATE DATE unknown

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -79.075353

* EAST LONGITUDE -78.857928

* NORTH LATITUDE 43.263665

* SOUTH LATITUDE 42.810722

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE -79.075353

* EAST LONGITUDE -78.857928

* SOUTH LATITUDE 42.810722

* NORTH LATITUDE 43.263665

* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

INDIVIDUAL'S NAME Mark Loomis

ORGANIZATION'S NAME U.S. Environmental Protection Agency Great Lakes National Program Office

CONTACT'S POSITION Federal AOC Taskforce Lead

CONTACT'S ROLE publisher

CONTACT INFORMATION ►

ADDRESS

TYPE

DELIVERY POINT 77 W. Jackson Blvd G-17J

CITY Chicago

ADMINISTRATIVE AREA IL

POSTAL CODE 60604

COUNTRY US

E-MAIL ADDRESS Loomis.Mark@Epa.gov

[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY as needed

[Hide Resource Maintenance ▲](#)

Resource Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

Any hardcopies utilizing EPA data sets shall clearly indicate their source. The licensee specifically agrees not to misrepresent EPA data sets, nor to imply that changes they made were approved by EPA.

[Hide Resource Constraints ▲](#)

Spatial Reference ►

ARCGIS COORDINATE SYSTEM

- * TYPE **Geographic**
- * GEOGRAPHIC COORDINATE REFERENCE **GCS_North_American_1983**
- * COORDINATE REFERENCE DETAILS
 - GEOGRAPHIC COORDINATE SYSTEM
 - WELL-KNOWN IDENTIFIER **4269**
 - X ORIGIN **-400**
 - Y ORIGIN **-400**
 - XY SCALE **11258999068426.238**
 - Z ORIGIN **-100000**
 - Z SCALE **10000**
 - M ORIGIN **-100000**
 - M SCALE **10000**
 - XY TOLERANCE **8.9831528411952133e-09**
 - Z TOLERANCE **0.001**
 - M TOLERANCE **0.001**
 - HIGH PRECISION **true**
 - LEFT LONGITUDE **-180**
 - LATEST WELL-KNOWN IDENTIFIER **4269**
 - WELL-KNOWN TEXT **GEOGCS["GCS_North_American_1983",DATUM["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433],AUTHORITY["EPSG",4269]]**

REFERENCE SYSTEM IDENTIFIER

- DIMENSION **horizontal**
- VALUE **4269**
- * CODESPACE **EPSG**
- * VERSION **6.12(3.0.1)**

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ►

- * LEVEL OF TOPOLOGY FOR THIS DATASET **geometry only**

GEOMETRIC OBJECTS

- FEATURE CLASS NAME **AOC_NY_Niagara_2021**
- * OBJECT TYPE **composite**
- * OBJECT COUNT **1**

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

- FEATURE CLASS NAME **AOC_NY_Niagara_2021**
- * FEATURE TYPE **Simple**
- * GEOMETRY TYPE **Polygon**
- * HAS TOPOLOGY **FALSE**
- * FEATURE COUNT **1**

- * SPATIAL INDEX TRUE
- * LINEAR REFERENCING FALSE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

Data Quality ►

SCOPE OF QUALITY INFORMATION ►
RESOURCE LEVEL dataset

[Hide Scope of quality information ▲](#)

[Hide Data Quality ▲](#)

Lineage ►

LINEAGE STATEMENT

This shapefile supersedes the previous version, AOC_NY_NIAGARA_2014.shp

[Hide Lineage ▲](#)

Distribution ►

DISTRIBUTION FORMAT

- * NAME Shapefile
- VERSION 2022

TRANSFER OPTIONS

TRANSFER SIZE 0.012

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT [AOC_NY_Niagara_2021 ►](#)

- * TYPE Feature Class
- * ROW COUNT 1

DEFINITION

The AOC extent and other possible applicable areas

DEFINITION SOURCE

U.S. EPA Great Lakes National Program Office

FIELD FID ►

- * ALIAS FID
- * DATA TYPE OID
- * WIDTH 4
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
Internal feature number.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

Hide Field FID ▲

FIELD Shape ►

* ALIAS Shape

* DATA TYPE Geometry

* WIDTH 0

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Feature geometry.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Coordinates defining the features.

Hide Field Shape ▲

FIELD Name ►

* ALIAS Name

* DATA TYPE String

* WIDTH 50

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Feature name

DESCRIPTION SOURCE

U.S. EPA Great Lakes National Program Office

LIST OF VALUES

VALUE AOC name

DESCRIPTION The AOC name is the official name given by the U.S. EPA Great Lakes National Program Office

ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. EPA Great Lakes National Program Office

Hide Field Name ▲

FIELD State ►

* ALIAS State

* DATA TYPE String

* WIDTH 2

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Location of feature as 2-character state code

DESCRIPTION SOURCE

U.S. EPA Great Lakes National Program Office

LIST OF VALUES

VALUE 2-character state code

DESCRIPTION State postal code

ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. EPA Great Lakes National Program Office

[Hide Field State ▲](#)[Hide Details for object AOC_NY_Niagara_2021 ▲](#)[Hide Fields ▲](#)**Metadata Details ▶**

METADATA LANGUAGE English (UNITED STATES)

METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

METADATA IDENTIFIER E684F785-3782-4FA4-A450-74A262230F6D

SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset

SCOPE NAME * dataset

LAST UPDATE 2021-12-08

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE EPA Metadata Specification NAP ISO19115 2003

STANDARD OR PROFILE USED TO EDIT METADATA NAP

CREATED IN ARCGIS FOR THE ITEM 2021-12-08 18:58:11

LAST MODIFIED IN ARCGIS FOR THE ITEM 2021-12-08 20:03:05

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2021-12-08 19:43:53

[Hide Metadata Details ▲](#)**Metadata Contacts ▶**

METADATA CONTACT

INDIVIDUAL'S NAME Justin Telech

ORGANIZATION'S NAME GDIT

CONTACT'S POSITION Environmental Scientist

CONTACT'S ROLE author

CONTACT INFORMATION ▶

ADDRESS

DELIVERY POINT 79 TW Alexander Drive

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ADMINISTRATIVE AREA NC

POSTAL CODE 27709

COUNTRY US

E-MAIL ADDRESS justin.telech@gdit.com

[Hide Contact information ▲](#)[Hide Metadata Contacts ▲](#)

Metadata Maintenance ▶

MAINTENANCE

UPDATE FREQUENCY as needed

Hide Metadata Maintenance ▲

FGDC Metadata (read-only) ▼