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

Shapefile

Thumbnail Not Available
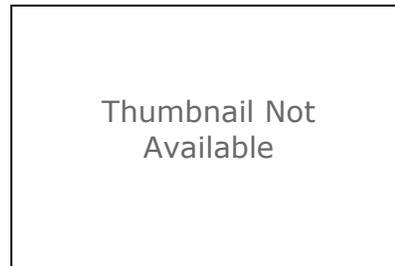
Tags

Michigan, Environment, Remediation, 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 St. Clair AOC. 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 obtained from the State contact and/or taken from the AOC webpage (see narrative below).
4. The AOC shoreline of the current shapefile was updated using the data from Step #2. Given the extent and intricacy of the AOC as it branches from the main channel, only the main channel was updated using data from Step #2. The branches/delta of the river were not updated.
5. The extent of the AOC was determined from the narrative in Step #3 and the extent from the previous boundary and applied.
6. 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, 5/4/2021. "The St. Clair River AOC is a binational AOC, sharing a border with Canada. The boundary of the AOC includes the entire river from the Blue Water Bridge (connecting Sarnia, Ontario, and Port Huron, Mich.) to the southern tip of Seaway Island, Ontario, west to St. John's Marsh in Michigan, and east to include the north shore of Mitchell's Bay on Lake St. Clair."

Representatives of both EPA and EGLE 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/), and EPA's NHDPlus Version 2.1 (https://www.epa.gov/waterdata/get-nhdplus-national-hydrography-dataset-plus-data).

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 -82.718101 **East** -82.401366
North 42.999218 **South** 42.457292

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   Michigan

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=WBT%20-%20Geographic%20Locations
NAME   Web Taxonomy - Geographic Locations
FUNCTION PERFORMED   information

Hide Thesaurus ▲

THEME KEYWORDS   Environment, Remediation

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   St. Clair River AOC Boundary, U.S. EPA Great Lakes National
PUBLICATION DATE   2021-08-31

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's NHDPlus Version 2.1
(https://www.epa.gov/waterdata/get-nhdplus-national-hydrography-dataset-plus-data).

ArcGIS ITEM PROPERTIES
* NAME   AOC_MI_StClair_2021
* SIZE   0.290
* LOCATION   file://\\F5160-78SW8C3-L\C$\Users\justin.telech\OneDrive -
GDIT\Documents\Legacy\aoc boundary work\St Clair\Edits\Finalized\AOC_MI_StClair_2021.shp
* ACCESS PROTOCOL   Local Area Network

Hide Resource Details ▲

Extents ▶

EXTENT
DESCRIPTION
The St. Clair River was designated an AOC in 1987.

GEOGRAPHIC EXTENT
  BOUNDING RECTANGLE
    EXTENT TYPE   Extent used for searching
    * WEST LONGITUDE   -82.718101
    * EAST LONGITUDE   -82.401366
    * NORTH LATITUDE   42.999218
    * SOUTH LATITUDE   42.457292
    * EXTENT CONTAINS THE RESOURCE   Yes

  TEMPORAL EXTENT
    BEGINNING DATE   1987-01-01   00:00:00

EXTENT IN THE ITEM'S COORDINATE SYSTEM
  * WEST LONGITUDE   -82.718101
  * EAST LONGITUDE   -82.401366
  * SOUTH LATITUDE   42.457292
  * NORTH LATITUDE   42.999218
  * 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_MI_StClair_2021
    * OBJECT TYPE composite
    * OBJECT COUNT 1

  Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES ▶
  FEATURE CLASS NAME AOC_MI_StClair_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_MI_STCLAIR.shp

Hide Lineage ▲

Distribution ▶

DISTRIBUTION FORMAT
   * NAME   Shapefile
   VERSION   2021

TRANSFER OPTIONS
   TRANSFER SIZE   0.012

Hide Distribution ▲

Fields ▶

DETAILS FOR OBJECT AOC_MI_StClair_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
   ENUMERATED DOMAIN VALUE DEFINITION SOURCE   U.S. EPA Great Lakes National Program Office

Hide Field Name ▲

FIELD State ▶
* ALIAS   State
* DATA TYPE   String
* WIDTH   50
* 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_MI_StClair_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   2021-09-13

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   2021-09-13   08:16:58
  LAST MODIFIED IN ARCGIS FOR THE ITEM   2021-10-05   14:14:57

  AUTOMATIC UPDATES
    HAVE BEEN PERFORMED   Yes
    LAST UPDATE   2021-10-05   14:14:57

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
        CITY   Research Triangle Park
        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) ▼