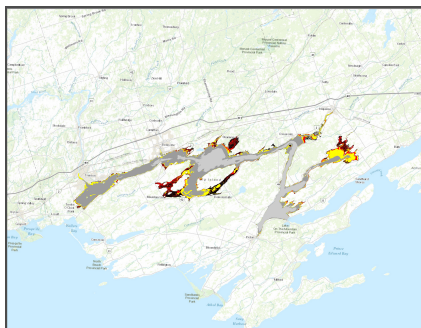


Fish Habitat Assessment Output from Bay of Quinte Suitability Modelling

GeoTIF



Tags

Suitable Habitat, Habitat Assessment, Fish Habitat, Suitability Model

Summary

The purpose of this Bay of Quinte Suitability raster layer is to amalgamate and present the output of a habitat suitability model used to assess fish habitat suitability in the Bay of Quinte region.

Description

Habitat suitability was assessed for the Bay of Quinte Area of Concern, at a 3 m grid resolution, using the Habitat Ecosystem Assessment Tool (HEAT), temperature algorithms, vegetation models, and water level input. Habitat classifications were based on three variables: depth (elevation), vegetation, and substrate; and modified by temperature suitabilities. The final suitability maps were based on documented habitat and temperature associations for the fish in the area. Different life stages (spawning requirements, nursery habitat, adult habitat) were modeled for the years of 1972-2011. Suitability values were scaled from 0 (not suitable) to 1 (highly suitable) and converted to suitability classes of very low, low, medium, and high. The final maps for each guild – life stage combination are maximum suitability values from the 39-year period modelled.

Credits

Dr. Susan Doka
Research Scientist
Fish Habitat Laboratory
Great Lakes Laboratory for Fisheries and Aquatic Sciences
Email: Susan.Doka@dfo-mpo.gc.ca

Use limitations

<https://open.canada.ca/en/open-government-licence-canada>

Extent

West	-77.613404	East	-76.869903
North	44.264240	South	43.994580

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE biota, elevation, environment, imageryBaseMapsEarthCover, inlandWaters

*** CONTENT TYPE** Downloadable Data
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

Hide Topics and Keywords ▲

Citation ►

TITLE Fish Habitat Assessment Output from Bay of Quinte Suitability Modelling
ALTERNATE TITLES Bay of Quinte Habitat Suitability
CREATION DATE 2018-03-09 00:00:00

PRESENTATION FORMATS * digital table

Hide Citation ▲

Citation Contacts ►

RESPONSIBLE PARTY
INDIVIDUAL'S NAME Susan Doka
ORGANIZATION'S NAME Fisheries and Oceans Canada
CONTACT'S POSITION Research Scientist
CONTACT'S ROLE owner

RESPONSIBLE PARTY
INDIVIDUAL'S NAME Jacqueline Dosen
ORGANIZATION'S NAME Fisheries and Oceans Canada
CONTACT'S POSITION GIS Specialist
CONTACT'S ROLE point of contact

Hide Citation Contacts ▲

Locales ►

LOCALE English (CANADA)

Hide Locales ▲

Resource Details ►

DATASET LANGUAGES * English (CANADA)
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

SPATIAL REPRESENTATION TYPE * grid

* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.6.1.9270

CREDITS

Dr. Susan Doka
Research Scientist
Fish Habitat Laboratory
Great Lakes Laboratory for Fisheries and Aquatic Sciences
Email: Susan.Doka@dfo-mpo.gc.ca

ARCGIS ITEM PROPERTIES

* NAME BQ_Suits_Final_04Feb2020
* LOCATION file:///\\bur02hnas01a\CA_GISData\GIS_StagingArea\Public\Doka\BayofQuinte.gdb
* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Extents ►

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -77.613404

* EAST LONGITUDE -76.869903

* NORTH LATITUDE 44.264240

* SOUTH LATITUDE 43.994580

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 291351.656250

* EAST LONGITUDE 350103.656250

* SOUTH LATITUDE 4874563.000000

* NORTH LATITUDE 4902937.000000

* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

INDIVIDUAL'S NAME Susan Doka

ORGANIZATION'S NAME Fisheries and Oceans Canada

CONTACT'S POSITION Research Scientist

CONTACT'S ROLE owner

CONTACT INFORMATION ►

ADDRESS

TYPE

E-MAIL ADDRESS Susan.Doka@dfo-mpo.gc.ca

[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

<https://open.canada.ca/en/open-government-licence-canada>[Hide Resource Constraints ▲](#)**Spatial Reference ►**

ARCGIS COORDINATE SYSTEM

* TYPE Projected

* GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983

* PROJECTION NAD_1983_UTM_Zone_18N

* COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 26918

X ORIGIN -5120900

Y ORIGIN -9998100

XY SCALE 450445547.3910538

Z ORIGIN -100000

Z SCALE 10000

M ORIGIN -100000

M SCALE 10000

XY TOLERANCE 0.001

Z TOLERANCE 0.001

M TOLERANCE 0.001

HIGH PRECISION true

LATEST WELL-KNOWN IDENTIFIER 26918

WELL-KNOWN TEXT PROJCS["NAD_1983_UTM_Zone_18N",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]],PROJECTION["Transverse_Mercator"],PARAMETER
 ["False_Easting",500000.0],PARAMETER["False_Northing",0.0],PARAMETER
 ["Central_Meridian",-75.0],PARAMETER["Scale_Factor",0.9996],PARAMETER
 ["Latitude_Of_Origin",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",26918]]

REFERENCE SYSTEM IDENTIFIER

DIMENSION horizontal

* VALUE 26918

* CODESPACE EPSG

* VERSION 6.13(3.0.1)

[Hide Spatial Reference ▲](#)**Spatial Data Properties ►**

GRID ►

TRANSFORMATION PARAMETERS ARE AVAILABLE No

[Hide Grid ▲](#)

[Hide Spatial Data Properties ▲](#)

Distribution ►

DISTRIBUTION FORMAT

NAME GeoTIF

VERSION 1.1

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT VAT_BQ_Suits_Final_04Feb2020 ►

TYPE Table

ROW COUNT 13289

DEFINITION

Habitat Suitability Raster Cells

DEFINITION SOURCE

DFO

FIELD OBJECTID ►

* ALIAS OBJECTID

* 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 OBJECTID ▲](#)

FIELD Value ►

* ALIAS Value

* DATA TYPE Integer

* WIDTH 4

* PRECISION 0

* SCALE 0

[Hide Field Value ▲](#)

FIELD Count ►

* ALIAS Count

* DATA TYPE Double

* WIDTH 8
 * PRECISION 0
 * SCALE 0

[Hide Field Count ▲](#)

FIELD F1 ►

ALIAS Spawning_HighVeg_Avg
 WIDTH 255
 * DATA TYPE String
 * PRECISION 0
 * SCALE 0

FIELD DESCRIPTION

High vegetation Association Species - Spawning Habitat - At Avg Elevation (75.0m) - All Thermal Groups

DESCRIPTION SOURCE
 DFO

[Hide Field F1 ▲](#)

FIELD F2 ►

ALIAS Spawning_HighVeg
 WIDTH 255
 * DATA TYPE String
 * PRECISION 0
 * SCALE 0

FIELD DESCRIPTION

High vegetation Association Species - Spawning Habitat - At Max Elevation (75.4m) - All Thermal Groups

DESCRIPTION SOURCE
 DFO

[Hide Field F2 ▲](#)

FIELD F3 ►

ALIAS Spawning_LowVeg_Avg
 * DATA TYPE String
 * WIDTH 255
 * PRECISION 0
 * SCALE 0

FIELD DESCRIPTION

Low vegetation Association Species - Spawning Habitat - At Avg Elevation (75.0m) - All Thermal Groups

DESCRIPTION SOURCE
 DFO

[Hide Field F3 ▲](#)

FIELD F4 ►

ALIAS Spawning_LowVeg
 * DATA TYPE String
 * WIDTH 255

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Low vegetation Association Species - Spawning Habitat - At Max Elevation (75.4m) - All Thermal Groups

DESCRIPTION SOURCE

DFO

[Hide Field F4 ▲](#)

FIELD F5 ►

ALIAS Nursery_HighVeg_Avg

* DATA TYPE String

* WIDTH 255

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

High vegetation Association Species - Nursery Habitat - At Avg Elevation (75.0m) - All Thermal Groups

DESCRIPTION SOURCE

DFO

[Hide Field F5 ▲](#)

FIELD F6 ►

ALIAS Nursery_HighVeg

* DATA TYPE String

* WIDTH 255

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

High vegetation Association Species - Nursery Habitat - At Max Elevation (75.4m) - All Thermal Groups

DESCRIPTION SOURCE

DFO

[Hide Field F6 ▲](#)

FIELD F7 ►

ALIAS Nursery_LowVeg_Avg

* DATA TYPE String

* WIDTH 255

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Low vegetation Association Species - Nursery Habitat - At Avg Elevation (75.0m) - All Thermal Groups

DESCRIPTION SOURCE

DFO

[Hide Field F7 ▲](#)

FIELD F8 ►

ALIAS Nursery_LowVeg

* DATA TYPE String

* WIDTH 255

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Low vegetation Association Species - Nursery Habitat - At Max Elevation (75.4m) - All Thermal Groups

DESCRIPTION SOURCE

DFO

[Hide Field F8 ▲](#)

FIELD F9 ►

ALIAS High vegetation Association Species - Adult Habitat - At Avg Elevation (75.0m) - All Thermal Groups

* DATA TYPE String

* WIDTH 255

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

High vegetation Association Species - Adult Habitat - At Avg Elevation (75.0m) - All Thermal Groups

[Hide Field F9 ▲](#)

FIELD F10 ►

ALIAS Adult_HighVeg_All

* DATA TYPE String

* WIDTH 255

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

High vegetation Association Species - Adult Habitat - At Max Elevation (75.4m) - All Thermal Groups

DESCRIPTION SOURCE

DFO

[Hide Field F10 ▲](#)

FIELD F11 ►

ALIAS Adult_LowVeg_Cold_Avg

* DATA TYPE String

* WIDTH 255

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Low vegetation Association Species - Adult Habitat - At Avg Elevation (75.0m) - Cold water species

DESCRIPTION SOURCE

DFO

[Hide Field F11 ▲](#)

FIELD F12 ►

ALIAS Adult_LowVeg_Cold

* DATA TYPE String

* WIDTH 255

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Low vegetation Association Species - Adult Habitat - At Max Elevation (75.4m) - Cold water species

DESCRIPTION SOURCE

DFO

[Hide Field F12 ▲](#)

FIELD F13 ►

ALIAS Adult_LowVeg_Cool_Avg

* DATA TYPE String

* WIDTH 255

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Low vegetation Association Species - Adult Habitat - At Avg Elevation (75.0m) - Cool water species

DESCRIPTION SOURCE

DFO

[Hide Field F13 ▲](#)

FIELD F14 ►

ALIAS Adult_LowVeg_Cool

* DATA TYPE String

* WIDTH 255

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Low vegetation Association Species - Adult Habitat - At Max Elevation (75.4m) - Cool water species

DESCRIPTION SOURCE

DFO

[Hide Field F14 ▲](#)

FIELD F15 ►

ALIAS Adult_LowVeg_Warm_Avg

* DATA TYPE String

* WIDTH 255

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Low vegetation Association Species - Adult Habitat - At Avg Elevation (75.0m) - Warm water species

DESCRIPTION SOURCE
DFO

[Hide Field F15 ▲](#)

FIELD F16 ►

ALIAS Adult_LowVeg_Warm
* DATA TYPE String
* WIDTH 255
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Low vegetation Association Species - Adult Habitat - At Max Elevation (75.4m) - Warm water species

DESCRIPTION SOURCE
DFO

[Hide Field F16 ▲](#)

FIELD F17 ►

ALIAS ID_July2019
* DATA TYPE SmallInteger
* WIDTH 2
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Unique ID for each grid cell - matches original layer

DESCRIPTION SOURCE
DFO

[Hide Field F17 ▲](#)

[Hide Details for object VAT_BQ_Suits_Final_04Feb2020 ▲](#)

[Hide Fields ▲](#)

Metadata Details ►

* METADATA LANGUAGE English (CANADA)
METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

METADATA IDENTIFIER 026BC142-159A-4A27-B436-B3D96B4C7D81
FUNCTION OF THE RESOURCE information

SCOPE OF THE DATA DESCRIBED BY THE METADATA * dataset
SCOPE NAME * dataset

* LAST UPDATE 2020-02-06

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE North American Profile of ISO19115 2003

STANDARD OR PROFILE USED TO EDIT METADATA NAP

CREATED IN ARCGIS FOR THE ITEM 2019-09-11 09:38:30

LAST MODIFIED IN ARCGIS FOR THE ITEM 2020-02-06 10:57:31

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2020-02-06 10:48:40

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

METADATA CONTACT

INDIVIDUAL'S NAME Susan Doka

ORGANIZATION'S NAME Fisheries and Oceans Canada

CONTACT'S POSITION Research Scientist

CONTACT'S ROLE owner

METADATA CONTACT

INDIVIDUAL'S NAME Jacqueline Dosen

ORGANIZATION'S NAME Fisheries and Oceans Canada

CONTACT'S POSITION GIS Specialist

CONTACT'S ROLE point of contact

[Hide Metadata Contacts ▲](#)**Metadata Maintenance ►**

MAINTENANCE

UPDATE FREQUENCY as needed

[Hide Metadata Maintenance ▲](#)**Thumbnail and Enclosures ►**

THUMBNAIL

THUMBNAIL TYPE JPG

[Hide Thumbnail and Enclosures ▲](#)**FGDC Metadata (read-only) ▼**