

GREAT LAKES AQUATIC NONINDIGENOUS SPECIES INFORMATION SYSTEM

GLANSIS UPDATE

Great Lakes Panel on ANS – May 2023 Rochelle Sturtevant







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"NAB THE AQUATIC INVADER"







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Tess O'Brien U VT

LAKE CHAMPLAIN 'ANSIS'





- Anguillicola crassus (eel parasite) still working on it
- Trachemys scripta (red eared slider) nativity in Michigan being re-examined (may shift to range-expansion/cryptogenic
- Cyclops strenuus Great Lakes specimens reexamined and split into C. siberica (nonindigenous, status ?, older reports) and C. divergens (nonindigenous, all the newer reports) – C. strenuus NOT in the Great Lakes.
- Oligochaete revision Lyuba Burlakova has data which potentially includes 3 'new' nonindigenous species

NEW SPECIES/REVISED SPECIES



Assessments are moving to a New Home:

https://www.glerl.noaa.gov/glansis/assessments

GLANSIS RISK ASSESSMENTS

- New fields Great Lakes Means of Introduction, Great Lakes Status, Great Lakes Impacts, Great Lakes Management
- New Images carousel and embedded life cycles
- New Formats tables, bulleted lists
- Improved information access for Impact data
- Full bibliography access

CHANGES TO PROFILES

- ► Fully operational (in profiles)
- ►We've uploaded ~8000 records so far
- ► More Data needed!

CANADIAN DATA



Printables:



Find posters, infographics, food web diagrams, and fact sheets to print and share with your learners

Story Maps:



Use these interactive, multi-media ArcGIS Story Maps to learn more about Great Lakes invasive species, and for tutorials on how to use GLANSIS

Lessons by Grade:



Integrate nonindigenous species education into your classroom with these curated lessons and activities

AIS Videos:



Watch educational videos on aquatic invasive species including an animated series on Great Lake invaders

Background Knowledge:



Learn more about aquatic nonindigenous species by exploring these resources designed for teachers and students

Professional Development:



Find the latest professional development opportunities and increase your ability to implement place based environmental education

Explore our resources:

- Curated aquatic invasive species lessons
- Professional development opportunities
- Background videos and reading materials



qrs.ly/9beqjmw

GLANSIS EDUCATOR HUB

Bimaadiziwin Nibi - Water is Life

A look into what Indigenous communities in the upper Midwest are doing to conserve & protect water

A Wisconsin Sea Grant and Great Lakes Indian Fish & Wildlife Commission collaboration

July 7, 2022

Use the space below to write a description of what data the table is showing. Figure.

No silver lining: Invasive goldfish in the Great Lakes

By Connor Shelly, Michigan Sea Grant; and <u>Rochelle Sturtevant</u>, Michigan Sea Grant and <u>Michigan State University Extension</u> - February 16, 2023

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Seeing an orange-colored goldfish in your local lake is actually a sign of bad luc for native fish and plants.







Non-native Phragmites

MWEE 101

1,500 certificates and counting!

Welcome to the online course for the Meaningful Watershed Educationa

This course is first in a series. At the completion of this course, consider taking MWEE 201 to develop a deeper understanding of the goals, design, and implementation of the MWEE model. If you will be educating others on MWEEs, check out the Facilitator's Guide to MWEE Training to help you plan your training.

This course is made up of three lessons: Why MWEEs?, What Makes a MWEE, and Planning and Evaluating MWEEs. Each of the three lessons are followed by a reflection lesson. You will contribute to a single reflection document throughout the course and upload this document at the completior of the course if you want a Certificate of Completion. Most participants report spending 5-10 hours taking this course.

An Educator's Guide to the Meaningful Watershed Educational Experience (MWEE) Mod It by Matchel Educator Educator Mod It by Matchel Educator Educator Mod It by Matchel Educator Educator Mod It by Matchel Educator and Taxing Program

GLANSIS EDUCATOR HUB



Aquatic Invasive Species

- Who? Best suited for educators who work with students in grades 4-12
- What? Aquatic invasive species are nonindigenous species that have a negative environmental, social, or economic impact on the Great Lakes region.
- **Driving Question?** How do invasive species impact the Great Lakes and what can we do to help reduce their impacts on native ecosystems?

GREAT LAKES LITERACY EDUCATION EXPLORATION

