

GLANSIS Update

Great Lakes Panel on ANS

October 26, 2021

Changes to Species Lists (all still in review)

- *Trachemys scripta elegans* (Red-eared slider) - Established
- *Lithobates catesbeianus* (American bullfrog) – Range Expander
- *Trachemys scripta scripta* (yellow-bellied slider) – Watchlist
- *Kinosternon subrubrum* (eastern mud turtle) – Watchlist
- *Macrochelys temminckii* (alligator snapping turtle) – Watchlist
- *Pseudemys concinna* (river cooter) – Watchlist
- *Xenopus laevis* (African clawed frog) – Watchlist
- *Eleutherodactylus planirostris* (greenhouse frog) – Watchlist



External Reviewers needed!

GLANSIS Map Explorer

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This search interface is designed to provide direct access to the USGS NAS species database and allow species' locations to be easily compared with habitat layers provided by the Great Lakes Aquatic Habitat Framework or downloaded to your own GIS. You may select GLAHF layers, and scroll down to select species (up to 3 species may be displayed at once, select them sequentially).



Surface Layers:
None

Shoreline Layers:
None

Basemap:
Imagery

Mapped Species (Click for USGS and GLANSIS profiles)

None

None

None

Start Over

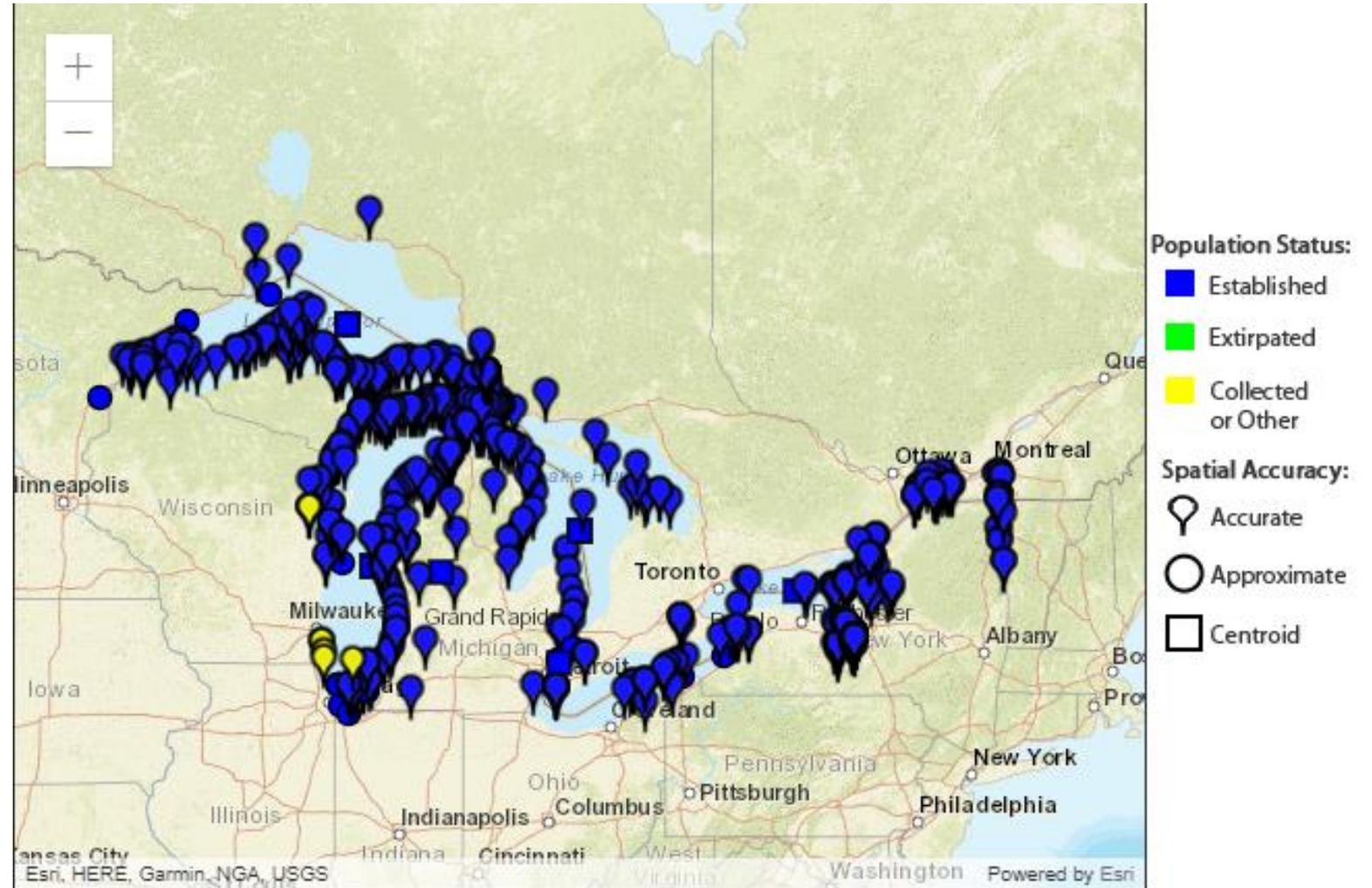
- Show Basemap Labels (if applicable)
- Show Political Boundaries
- Show Hydrologic Unit Boundaries

Hydrologic Unit Boundaries Layer



Canadian data

- We now have capacity to bulk-upload Canadian data into the database AND serve that data.
Please send ALL distribution data for established species - current and historic - from the Canadian Great Lakes watershed.



This map only depicts Great Lakes introductions.
[Click here for Great Lakes region collection information](#)

[Click here for the national map](#)

Regulations in the Clearinghouse



[GLANSIS Home](#)

Species Level Risk Assessments Explorer

[If you are looking for Risk Assessment METHODS, go to the Assessment Methods Explorer](#)

This explorer is produced in collaboration with the Great Lakes Panel on Aquatic Nuisance Species' Risk Assessment Ad Hoc Committee.

You may search the risk assessments by either specifying the full species name directly from the first drop-down menu, or perform a taxonomic search. To learn more about the methods behind each species' risk assessment, click the method title for an entry.

NEW TOOL: If a governing body in the Great Lakes region has a regulation or law pertaining to your search terms, a table containing them will automatically generate below.

Full species name:	Jurisdiction	Regulation	Law	Description	Date Effective*
<input type="text" value="Dreissena bugensis"/>	United States	Injurious	18 U.S.C. 42 (Lagry Act)	In the United States and its territories, the importation or transportation of this species is prohibited unless otherwise stated.	12/1/2020
	Canada	Prohibited	SOR/2015-121	The importation of this species into Canada is prohibited (except where provisioned).	5/29/2015
	Illinois	Injurious	17 Ill. Adm. Code Ch. I, Sec. 805	All <i>Dreissena</i> spp. are listed as injurious in Illinois and shall not be possessed, propagated, bought, sold, bartered or offered to be bought, sold, bartered, transported, traded, transferred or loaned to any other person or institution unless a permit is first obtained.	5/18/2015
	Indiana	Prohibited	312 IAC 9-9-3	It is prohibited in Indiana, making it illegal to import, possess, or release this species into public or private waters	9/8/2021
	Michigan	Restricted	Natural Resources Environmental Protection Act (Part 413 of Act 451)	It is restricted in Michigan and is unlawful to possess, introduce, import, sell or offer this species for sale as a live organism, except under certain circumstances.	3/21/2019
	Minnesota	Prohibited	Statute 84D.07	This species is prohibited in Minnesota and is unlawful (a misdemeanor) to possess, import, purchase, transport, or introduce this species except under a permit for disposal, control, research, or education.	1/1/2020
	Millie Lacs Band of Ojibwe Minnesota Ceded territory	Prohibited	Millie Lacs Band Ordinance 07-97, § 3.06A	No member of the band shall possess, import, purchase, sell, propagate, transport, or introduce this species, except under permit or special circumstances outlined in the statute.	7/30/2021
	New York	Prohibited	6 NYCRR Part 575	It is prohibited in New York and cannot be knowingly possessed with the intent to sell, import, purchase, transport or introduce nor can any of these actions be taken.	3/10/2015
	Ohio	Injurious	Ohio Administrative Code 1501:31-19-01	In Ohio, it shall be unlawful for any person to possess, import or sell live individuals of this species.	7/1/2016
	Pennsylvania	Banned	58 Pa. Code § 83.46	The sale, barter, possession or transportation of this species in Pennsylvania is banned.	4/15/2015
	Wisconsin	Prohibited	Chapter NR 40, Wis. Adm. Code	It is a prohibited species in Wisconsin and one cannot transport, possess, transfer, or introduce this species without a permit.	4/1/2017

*Page last updated 2/17/2022. Always check federal, state/provincial, tribal and local regulations directly for the most up-to-date information.

Common name:

Group:

Family:

Genus:

Species:

Method:

Reviewers requested!
Feedback requested!

Video Series

(<https://www.youtube.com/playlist?list=PLrRNRwudM7U90Y614QPP0xFpxGISedvQT>)

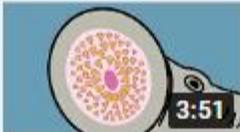
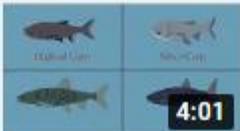


Managing Great Lakes Invaders (GLANSIS video series)

5 videos • 524 views • Last updated on Feb 25, 2022

⌵ ↺ ↻ ⋮

The Great Lakes are one of the most unique freshwater systems in the world. Millions of people love the Great Lakes – and so do many invasive species.

-  **Managing Great Lakes Invaders: GLANSIS Series Part 1**
Michigan Sea Grant
1:06
-  **Ballast Water: GLANSIS Series Part 2**
Michigan Sea Grant
3:25
-  **Sea Lamprey: GLANSIS Series Part 3**
Michigan Sea Grant
3:51
-  **Zebra and Quagga Mussels: GLANSIS Series Part 4**
Michigan Sea Grant
3:29
-  **Invasive Carp: GLANSIS Series Part 5**
Michigan Sea Grant
4:01

Program News

Additional Resources



Program Updates



Archive of GLANSIS program updates and news

Program Updates and News

GLANSIS data featured in Canadian Geographic magazine

5/1/2022

An article on invasive species in the Great Lakes was recently published in [Canadian Geographic](#) that included a map created by cartographer Chris Brackley depicting data curated by the GLANSIS team.

GLANSIS Data Dictionary

4/15/2022

In order to increase transparency of GLANSIS research, methods, and products, a Data Dictionary was created and is available under [the FAQ section!](#)

Biology/Ecology Educator Survey

3/14/2022

If you are a biology or ecology undergraduate professor, please take 5 minutes to fill out this survey: <https://tinyurl.com/jadesresearchsurvey>. The GLANSIS team is working with a group of masters students from the University of Michigan's School of Information to gain insights into how undergraduate biology/ecology educators utilize information to teach students. We thank you in advance for your participation! If you have any questions, feel free to contact the research team at jades.research@umich.edu

New AIS Legislation Search Tool

3/1/2022

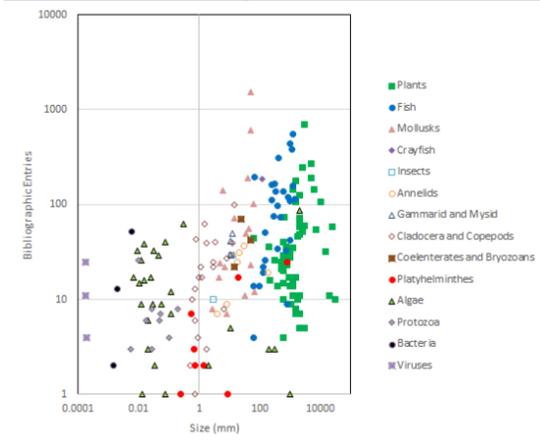
Interested in learning which introduced aquatic species are regulated on a state-by-state basis in the Great Lakes? A new GLANSIS tool allows you to do just that! [Learn more here!->](#)

GLANSIS AIS Video Series

2/28/2022

Across the Great Lakes, scientists, legislators, industry, and the public are working together to protect the region from invasive species! Check out the GLANSIS video series [Managing Great Lakes Invaders](#) to learn more.

Gap Analysis (NOAA TM-176)



https://www.glerl.noaa.gov/pubs/tech_reports/glerl-176/tm-176.pdf

Figure 2. Total Bibliographic Holdings for Nonindigenous Species in the Great Lakes by Size. Bibliographic entries and size are logarithmically distributed.

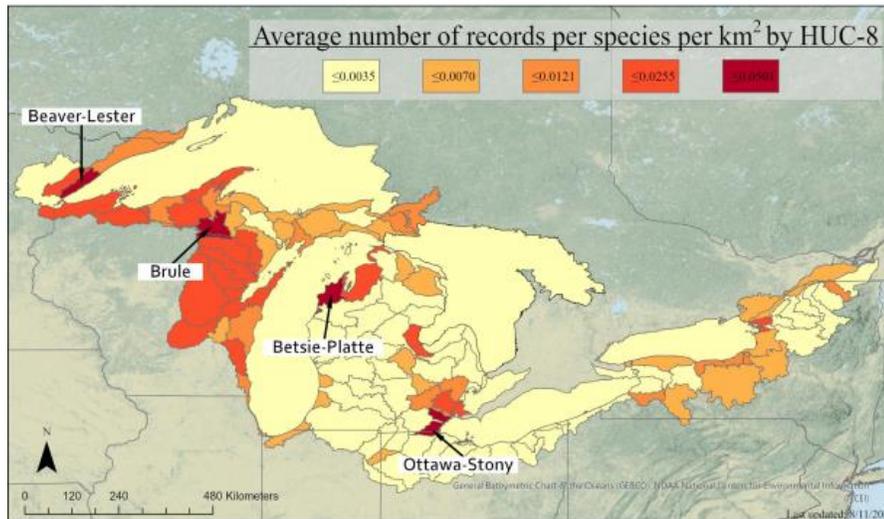


Figure 9. Map of average number of records per species (corrected for watershed area = per square kilometer) by HUC. The watersheds with the highest average number of records per species per area are labeled.

Table 1. Habitat descriptive data summary. Each species was scored on the quality of information in each category - clockwise within each chart: green dotted = highly detailed descriptions and/or quantitative statements, yellow solid = general descriptions and/or qualitative statements, red hashed = no data found in literature review.

	Habitat Description	Depth Range	Thermal Tolerance	pH	Salinity/Conductivity	Critical Factors/Tolerance
Algae (n=27)						
Crustacean (n=24)						
Fish (n=28)						
Mollusk (n=18)						
Other Invertebrate (n=19)						
Other Microorganism (n=15)						
Plant (n=57)						

Data Dictionary

FAQ



Data Dictionary



Detailed explanations of technical terminology and metadata

GLANSIS Data Dictionary

This dictionary includes descriptions and information for the products, tools, and data that GLANSIS serves.

Related GLANSIS Pages

Biological and Taxonomic Terms



Ecological Terms



Geological and Environmental Terms



Scholarship and Research Terms

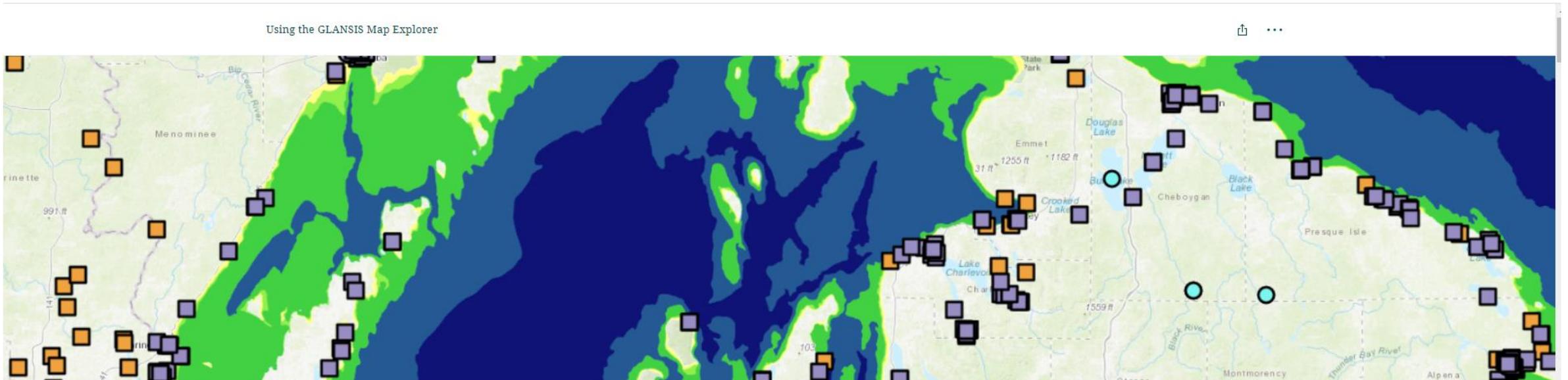


Impact Terms



Story Maps (Map Explorer Help Memo -

<https://storymaps.arcgis.com/stories/dfa9b8dfa1cd427fbc8ebc1d07cc3bc3>)



Using the GLANSIS Map Explorer

The Map Explorer is a powerful tool for visualizing the distribution of non-indigenous species in the Great Lakes.

El Lower, Austin Bartos, and Rochelle Sturtevant
August 11, 2021

Feedback Requested

New Habitat Suitability Maps

- Bourgeau-Chavez et al 2013
 - Phragmites
- Alsip et al 2019
 - Bighead carp
 - Silver carp

Please contact Austin with suggestion for addition maps!

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Lake Michigan fall
Shoreline Layers:
None
Basemap:
Imagery

Mapped Species (Click for USGS and GLANSIS profiles)

None
None
None

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Start Over

Invasive Language



What's in a (Species) Name? Language and Metaphor in Aquatic Ecology

 What's in a (Species) Name? Language and Metaphor in Aquatic Ecology*  Scientific Session

 DeVos Place - Grand Gallery D

If interested in joining future discussions, please contact El Lower!

Hiring! (soon)

- **Research Associate/Education Education Specialist** - The Great Lakes Restoration Initiative has provided funding to expand GLANSIS to better meet the needs of K-16 educators in the Great Lakes region and this new position will have an education focus as its specialization.
- **Support Staff** (data entry) -