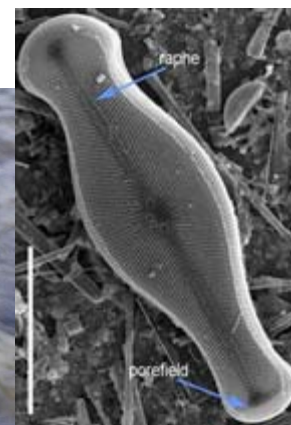


Rochelle Sturtevant
Felix Martinez
Great Lakes Panel on ANS
November 2, 2016

New in 2016

- Updated Fact Sheets/Maps

- *Bangia atropurpurea*
- *Gambusia affinis*
- *Misgurnus anguillicaudatus*
- *Morone americana*
- *Neogobius melanostomus*
- *Anguilla rostrata*
- *Pylodictis olivaris*
- *Salmo salar*
- *Corbicula fluminea*
- *Viviparus georgianus*
- *Alopecurus geniculatus*
- *Phragmites australis*
- *Cabomba caroliniana*
- *Myriophyllum spicatum*
- *Nymphoides peltata*
- *Potamogeton crispus*
- *Trapa natans*
- *Schyzotyle acheilognathi*

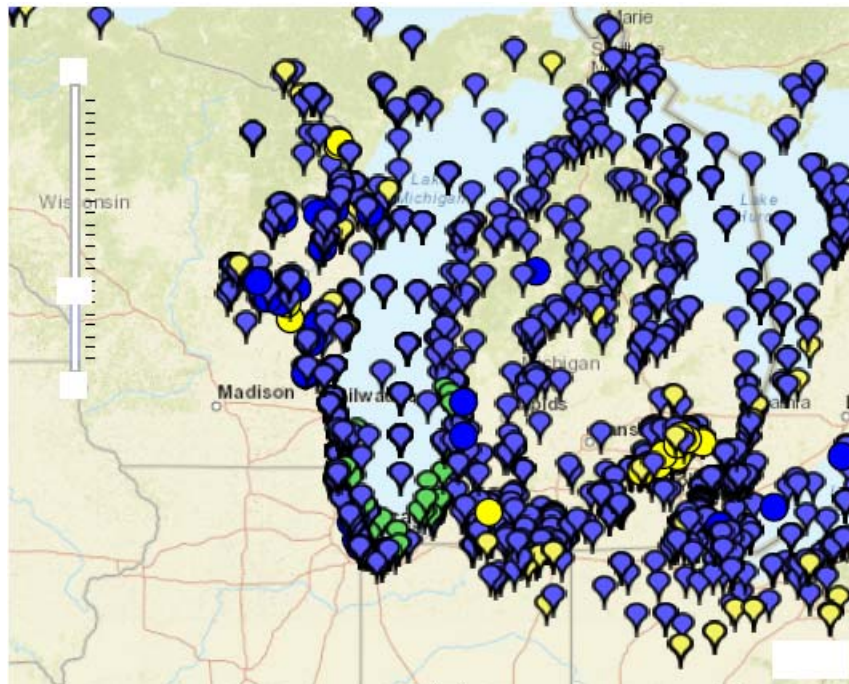


- Fact sheets in progress –

- Range expander, *Didymosphenia geminata* – 2 reports in the vicinity of Sault Ste. Marie mapped, additional reports needed.
- Established invasive, *Thermocyclops crassus* – Lake Champlain 1991, western Lake Erie 2014.

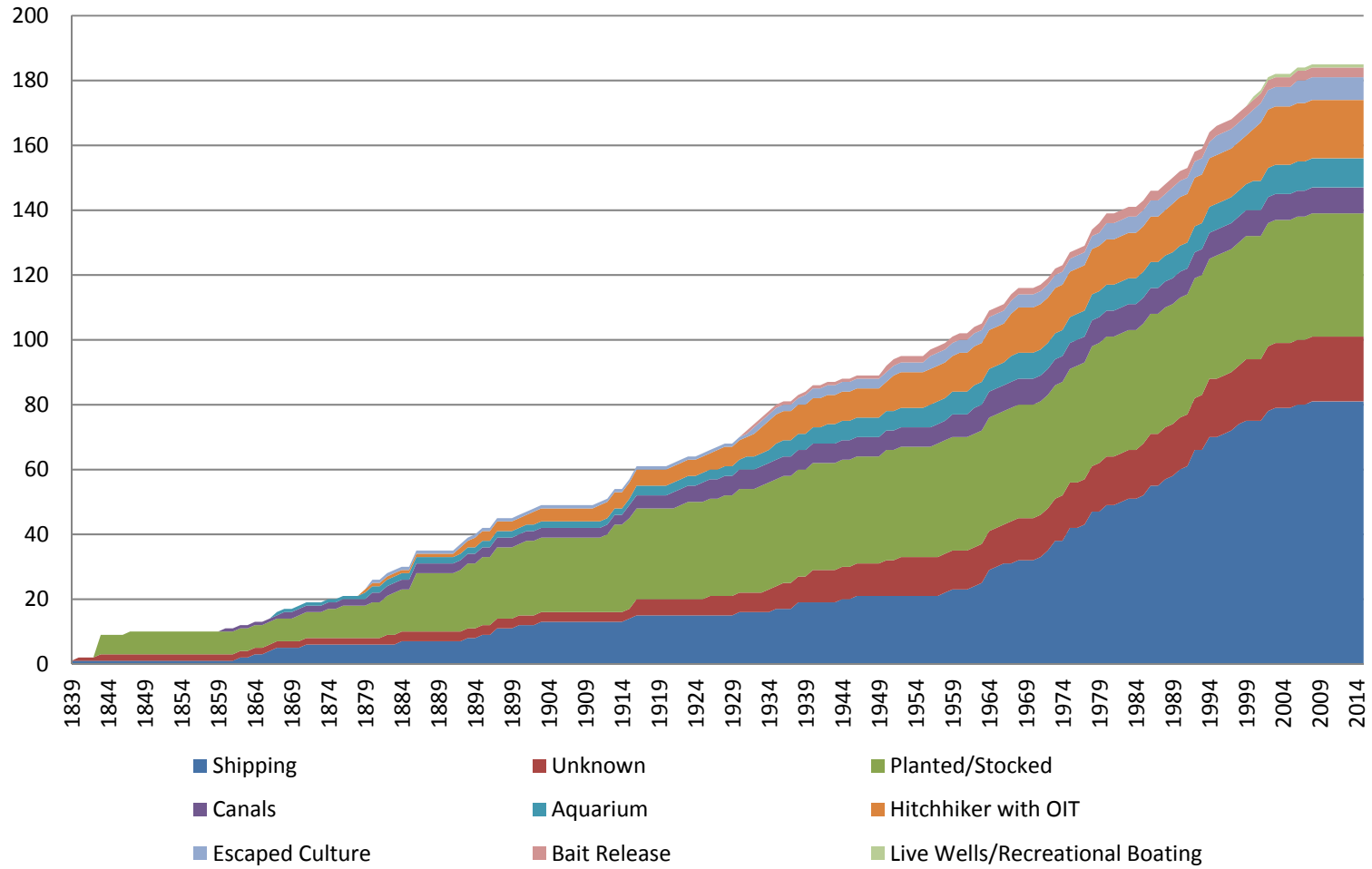
- Expected November 15 – NOAA Technical Memo - "A RISK ASSESSMENT OF POTENTIAL GREAT LAKES AQUATIC INVADERS"

Dreissena polymorpha



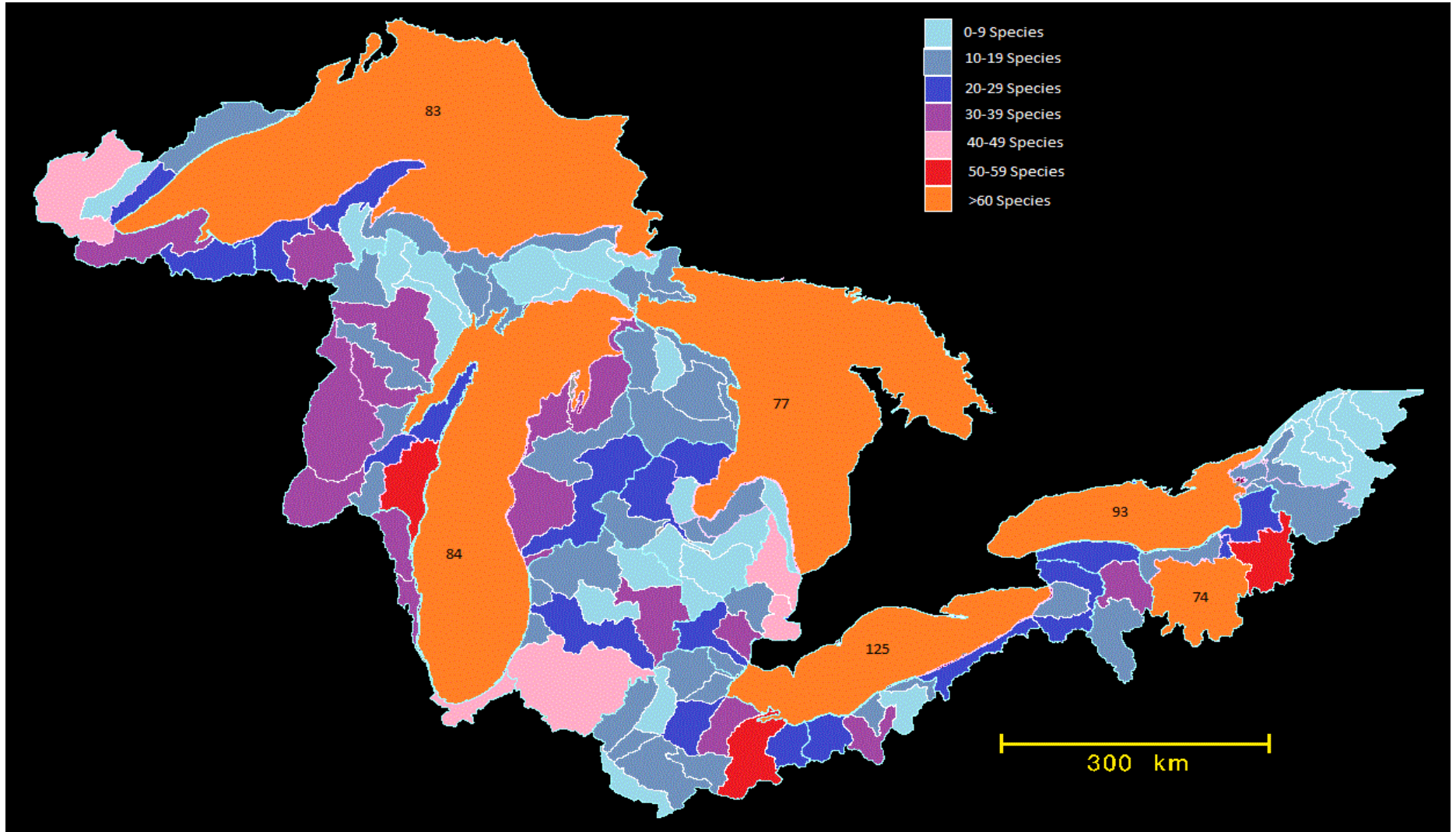
Extirpated from portions of Lake Michigan – replaced by quagga mussels

Cumulative Invasions to the Great Lakes Basin by Vector



THE GREAT LAKES BASIN





Possible listing changes

Investigating, possibly reclassified as native: *Najas marina*, *Sparganium glomeratum*

- The following species are being investigated for potential addition to the system...
 - Likely established
 - *Salix caprea* (1892)?
 - *Ctenopharyngodon idella* (~1970)?
 - *Pistia stratiotes* (2000)?
 - Records noted, uncertain whether established
 - *Acorus calamus* (1860)
 - *Persicaria hydropiper* (1875)
 - *Alisma plantago-aquatica* (1891)
 - *Persicaria longisetata* (1910)
 - *Eichhornia crassipes* (1929?)
 - *Nasturtium microphyllum* (1949)
 - *Alosa chrysochloris* (1970)
 - Records noted but establishment considered unlikely, probable additions to watchlist
 - *Arundo donax*
 - *Lysimachia punctata*
 - Currently range expander, rechecking native range
 - *Aplodinotus grunniens*
 - Possible range expander
 - *Amia calva*
 - *Ammocrypta clara*
 - *Cyprinella lutrensis*
 - *Lepomis cyanellus*
 - *Micropterus salmoides*
 - *Notropis dorsalis*
 - *Pungitius pungitius*
 - *Elimia livescens*
 - *Utricularia inflata*
- Potential watchlist
 - *Diadumene leucolena*
 - *Astacus astacus*
 - *Cherax quadricarinatus*
 - *Orconectes immunis*
 - *Orconectes limosus*
 - *Orconectes obscurus*
 - *Orconectes propinquus*
 - *Pacifastacus lenisculus*
 - *Procambarus acutus*
 - *Procambarus falax*
 - *Caecidotea racovitzai*
 - *Carpionodes carpio*
 - *Acanthogobius flavimanus*
 - *Carassius gibelio*
 - *Cichla kelberi*
 - *Cichlasoma bimacularus*
 - *Cirrhinus cirrhosus*
 - *Coregonus albula*
 - *Coregonus lavaretus*
 - *Coregonus peled*
 - *Hypomesus nipponensis*
 - *Lates niloticus*
 - *Lepomis gulosus*
 - *Tinca tinca*
 - *Rorippa amphibia*

Coming Soon

- Programmer hired (Joe Smith)
 - Better access to data
 - More customized searches
 - Watershed-level lists and watchlists
 - Output to GIS layers – interface with GLAHF
 - Bibliographic access
 - Risk Assessment Clearinghouse