

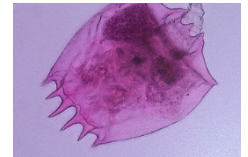

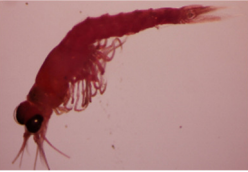
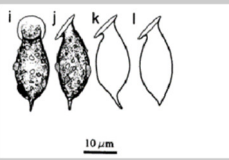




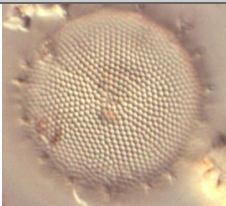


**Table S1. Recently reported nonindigenous species that may be moved by ballast water in the Great Lakes\***

Taxon	Common Name	Length (mm)	Photo	Native Range	Year first observed in Great Lakes	Location of first observation	Current Distribution in the Great Lakes	Reference
<i>Paraleptastacus wilsoni</i>	Harpacticoid Copepod	0.45-0.48 mm		Atlantic coast of North America	2017	Southern Lake Michigan	Collected in ballast uptake from Southern Lake Michigan. Status unknown	Cangelosi et al. 2018
<i>Mesocyclops pehpeiensis</i>	Cyclopoid Copepod	1.5 mm		Eurasia	2016	Lake Erie	Established in Lake Erie and Lake St. Claire	R. Sturtevant, 2019
<i>Brachionus leydigii</i>	Rotifer	220-280 µm		Afrotropical, Australian, Oriental, and Palearctic	2016	Lake Erie	Collected from Lake Erie, status unknown	Baker, E., Dettlof, K., Fusaro, A., and Hopper, K., 2019
<i>Thermocyclops crassus</i>	Cyclopoid Copepod	0.7-1.1 mm		Eurasia	2014	Lake Erie	Established in Lake Erie and Lake Michigan, Present in Lake Superior	Sturtevant, R., and P. Alsip, 2019
<i>Hemimysis anomala</i>	Bloody Red Shrimp	6-13 mm		Freshwater margins of Black, Azov, and Ponto-Caspian Seas	2006	Southeastern Lake Ontario and channel from Muskegon Lake to Lake Michigan	Established in Lakes Ontario, Michigan, Erie and Huron. Observed in Superior Harbor of Lake Superior	Kipp, R.M., A. Ricciardi, J. Larson, A. Fusaro, T. Makled, and N. Boucher, 2019

<b><i>Psammonobiotus linearis</i>, <i>P. dxiwnowi</i>, and <i>P. commumis</i></b>	Testate Amoeba	22-34 um		Eurasia	2002	Lake Ontario	Established in Lakes Ontario, Erie, Huron, and Superior. Not assessed in Lake Michigan	Kipp, R.M., A.K. Bogdanoff, and A. Fusaro., 2019
<b><i>Daphnia lumholtzi</i></b>	Water flea	3.5 mm		East Africa, Australia, India	1999	Lake Erie	Established in Lake Erie, Lake St. Claire, St. Louis R. of Lake Superior	Benson, A., E. Maynard, D. Raikow, J. Larson, T.H. Makled, and A. Fusaro, 2019b,
<b><i>Cercopagis pengoi</i></b>	Fishhook Water Flea	6-13 mm with spine		Eurasia	1998	Lakes Erie and Ontario	Established in Lakes Erie, Ontario, Michigan, and Huron	Benson, A., E. Maynard, D. Raikow, J. Larson, T.H. Makled, and A. Fusaro, 2019a
<b><i>Heteropsyllus nunni</i></b>	Harpacticoid Copepod	0.5 mm		Atlantic coast of North America	1996	Lake St. Clair	Established in Lakes Michigan, Huron, and St. Clair	Kipp, R.M., J. Larson, T.H. Makled, and A. Fusaro, 2019,
<b><i>Echinogammarus ischnus</i></b>	Scud	8-11 mm		Ponto-Caspian Region	1994	Detroit River	Established in Lakes Erie, Michigan, Ontario, Huron, and Superior	Benson, A.J., R.M. Kipp, J. Larson, T.H. Makled, and A. Fusaro, 2019,
<b><i>Thalassiosira baltica</i></b>	Centric Diatom	20-120 µm		Eurasia	1988	Lake Ontario	Established in Lakes Ontario, Erie, and Superior	Kipp, R.M., M. McCarthy, and A. Fusaro, 2019

**\*Compiled by Mary Balcer, University of Wisconsin-Superior, Department of Natural Sciences, Professor emerita, Superior, WI 54880, from the following references:**

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