

## **List of target manuscripts for special issue of *Environmental Pollution***

### **Air emissions and atmospheric deposition of mercury in the Great Lakes region**

1. *Mercury concentrations and mercury wet deposition in the Great Lakes region, 2001-2007.*  
Lead author: Martin Risch  
Coauthors: Frank Marsik, Lynne Gratz, Pierrette Blanchard, Sean Backus, Thomas Holsen, and David Gay
2. *Trends in mercury wet deposition in the Great Lakes region, 2000-2007.*  
Lead author: David Gay
3. *Synoptic climatology of extreme mercury wet deposition events in the Great Lakes region, 2001-2007.*  
Lead author: Frank Marsik
4. *Total deposition estimates for the Great Lakes region.*  
Lead author: L. M. Zhang, Vincent St. Louis, and Pierrette Blanchard  
Coauthors: Frank Marsik, Martin Risch, Charles Driscoll, Russell Bullock, Jennifer Graydon, and Thomas Holsen
5. *Mercury in litterfall at Mercury Deposition Network sites in the eastern United States, 2007-2008.*  
Lead author: Martin Risch  
Coauthors: David Krabbenhoft and Mark Olson

### **Mercury accumulation in lakes of the Great Lakes region**

6. *Trends in mercury fluxes to lakes across the Great Lakes region as revealed by sediment cores.*  
Lead author: Paul Drevnick  
Coauthors: Charles Driscoll, Daniel Engstrom, Ronald Rossmann, Edward Swain, Derek Muir, Neil Kamman, David Long, and Kristofer Rolfhus
7. *Modeling the response time of mercury loading to lakes: a mass balance approach.*  
Lead author: Reed Harris
8. *A regional analysis of mercury loadings using sediment chronologies from Michigan's inland lakes to estimate recovery rates and influencing factors.*  
Lead author: Matthew Parsons  
Coauthor: David Long

### **Mercury in waters and watersheds of the Great Lakes region**

9. *Total mercury and methylmercury in small inland lakes of the Great Lakes region: relations to water chemistry, land use and mercury sources.*  
Lead author: David Krabbenhoft  
Coauthor: Charles Driscoll

10. *Total mercury in waters of the Great Lakes: results from the Open Lakes Surveillance Program.*  
Lead author: Alice Dove  
Coauthor: Greg Lawson
11. *Mass balance modeling of mercury in Lake Ontario.*  
Lead author: Elsie Sunderland
12. *Dynamics of stream-water inputs of total mercury and methylmercury to Lake Champlain.*  
Lead author: James Shanley  
Coauthor: Ann Chalmers
13. *Intercomparison of mercury yields from watersheds in the Lake Superior basin.*  
Lead author: Christopher Babiarz  
Coauthors: To be determined
14. *Mercury in yellow perch and its relation to aqueous mercury and ecosystems in the Great Lakes region.*  
Lead author: James Wiener  
Coauthors: R. A. (Drew) Bodaly, Charles Driscoll, David Evers, Greg Mierle, Bruce Monson, and Mark Sandheinrich
15. *Mercury bioaccumulation in streams across large gradients in stream biogeochemistry and MeHg exposure.*  
Lead author: Lia Chasar  
Coauthors: Mark Brigham, Karen Murray, Barbara Scudder, Bob Hudson, Paul Bradley, Celeste Journey, and George Aiken

### **Linking mercury regulations and policy to science**

16. *Linking mercury policy to science in the Great Lakes basin--the Great Lakes states approaches to mercury reduction and regulations.*  
Lead author: Jon Dettling  
Coauthors: Joy Taylor Morgan, Alexis Cain, and Ned Brooks
17. *The Canadian clean air regulatory agenda and mercury science program.*  
Lead author: Heather Morrison
18. *The U.S. national mercury monitoring network: evaluating impacts of reduced emissions.*  
Lead author: David Schmeltz  
Coauthors: Charles Driscoll, David Evers, David Gay, David Krabbenhoft, Kristi Morris, Ed Swain

## **List of target manuscripts for special issue of *Ecotoxicology***

### **Mercury in lower food webs in the Great Lakes region**

1. *Evaluation of biosentinel organisms for assessing methylmercury (MeHg) contamination of food webs in aquatic systems with and without fish.*  
Lead: Britt Hall  
Coauthors: Michael Paterson, Cheryl Podemski, Celia Chen, Kristofer Rolfhus, James Wiener, Kristi Arend, Roger Haro, Sean Bailey, and Lara Bates.
2. *Within and across-system variation in MeHg bioaccumulation by benthic and pelagic organisms.*  
Lead: Kris Rolfhus  
Coauthors: Celia Chen, Michael Paterson, James Wiener, Brit Hall, and Kristi Arend.
3. *Spatial and temporal variation in mercury bioaccumulation by zooplankton in Lake Champlain.*  
Lead: Celia Chen  
Coauthors: Neil Kamman, Jason Williams, Deenie Bugge, Vivien Taylor, Brian Jackson, and Eric Miller.
4. *Spatial variation of methylmercury bioaccumulation by stream-resident macroinvertebrates and fishes in an Adirondack (NY) headwater catchment.*  
Lead: Karen Riva-Murray  
Co-authors: Lia Chasar, Paul Bradley, Doug Burns, and Celeste Journey.

### **Mercury in fish in the Great Lakes region**

5. *Spatial patterns in fish-mercury within the Great Lakes Region.*  
Lead: Linda Campbell  
Coauthors: Greg Mierle and Chad Hammerschmidt.
6. *Watershed and physicochemical influences on fish-mercury within the Great Lakes Region.*  
Lead: Greg Mierle  
Coauthors: Chad Hammerschmidt, Bruce Monson, Thomas Holsen, Brian Branfireun, and Murray Richardson.
7. *Temporal trends in fish-mercury in the Great Lakes Region.*  
Lead: Bruce Monson  
Coauthors: Matt Hudson, Candy Schrank, and Thomas Holsen.
8. *Temporal trends in fish-mercury in reservoirs and point source-impacted systems.*  
Lead: R.A. (Drew) Bodaly  
Coauthors: Linda Campbell, Matt Hudson, and Bruce Monson.
9. *Risk assessment of mercury levels in Great Lakes region to piscivorous fish.*  
Lead: Mark Sandheinrich  
Coauthors: R.A. (Drew) Bodaly, Eric Paul, and Paul Drevnick.

## Mercury in wildlife in the Great Lakes region

10. *Results from Bald Eagle mercury exposure/neurochemical biomarker study in Great Lakes.*  
Lead: Nil Basu  
Coauthors: Michael Wierda, William Bowerman, and William Route.
11. *Patterns and consequences of in ovo MeHg in Common Loons.*  
Lead: Kevin Kenow  
Coauthors: Ronald Rossman and Michael W. Meyer.
12. *Long-term changes in mercury pollution in Michigan from studies on museum-collected mink and river otter pelts.*  
Lead: Nil Basu  
Coauthor: Dong-ha Nam.
13. *Spatial patterns and temporal trends in Herring Gull eggs in the Great Lakes.*  
Lead: Chip Weseloh.
14. *Spatial patterns and temporal trends in bald eaglet feathers collected in the Great Lakes region.*  
Lead: Michael Wierda  
Coauthors: William Bowerman, William Route, Michael W. Meyer, and Christopher DeSorbo.
15. *Spatial patterns and temporal trends in common loon tissues collected in the Great Lakes region.*  
Lead: Michael W. Meyer  
Coauthors: Anthony Scheuhammer, David Evers, and Kevin Kenow.
16. *Mercury and other heavy metals in wild mink of the lower Great Lakes Basin, Canada.*  
Lead: Pamela A. Martin  
Coauthor: T.V. McDaniel.
17. *Mercury contamination in tree swallows nesting in northern Wisconsin lakes that differ in methyl mercury concentration.*  
Lead: Thomas W. Custer  
Coauthors: Christine M. Custer, Paul Dummer, Kevin Kenow, Michael W. Meyer, Ronald Rossmann, and Michael Arts.
18. *Linking atmospheric deposition of mercury with a terrestrial biotic response.*  
Lead: David Evers  
Coauthors: Kathryn Williams, David Gay, Frank Marsik, Martin Risch, Joy Taylor Morgan, and Sean Strom.