

Kevin J. Regan, M.S.

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Email: kevin.regan@briwildlife.org

Education: 2009 M.S., University of Southern Maine, Biology
2006 B.S., Eastern Connecticut State University, Biology

Select Work Experience:

2009-present **International Bird Mercury Lead, Shorebird Program Director, and Toxicology Lab Manager** *Biodiversity Research Institute*

- Design and/or implementation of research projects studying multiple avifauna taxa. These projects include contaminant monitoring, tracking studies, and surveys.
 - Capture, identification, and tissue sampling of multiple avifauna taxa using a variety of capture techniques.
 - Deployment of geolocators, nanotags, and satellite transmitters for tracking a variety of bird species.
 - Point count and boat-based avian surveys.
 - Proposal and report writing
- Management of all Toxicology Lab operations
 - Development and maintenance of essential documents, including Standard Operating Procedure, Quality Assurance Manual, and Biosafety Level 2 Manual
 - Sample preparation, including freeze drying and homogenizing of tissues
 - Analysis of mercury concentration in biological tissues.
 - QA/QC and reporting.

Select Publications:

Perkins, M., I. J. Stenhouse, R. B. Lanctot, S. Brown, J. Bêty, M. Boldenow, J. Cunningham, W. English, R. Gates, H. G. Gilchrist, M. -A. Giroux, K. Grond, B. Hill, E. Kwon, J. -F. Lamarre, D. B. Lank, N. Lecomte, D. Pavlik, J. Rausch, **K. Regan**, M. Robards, S. T. Saalfeld, F. Smith, P. A. Smith, B. Wilkinson, P. Woodard, & N. Basu. 2023. Factors influencing mercury exposure in Arctic-breeding shorebirds. *Ecotoxicology* 32: 1062-1083.

Smith, J. A. M., **K. Regan**, N. W. Cooper, L. Johnson, E. Olson, A. Green, J. Tash, D. C. Evers, & P. P. Marra. 2020. A green wave of saltmarsh productivity predicts the timing of the annual cycle in a long-distance migratory shorebird. *Scientific Reports* 10: 20658. Available at <http://www.nature.com/articles/s41598-020-77784-7>.

Allison E Huysman, Nathan W Cooper, Joseph A Smith, Susan M Haig, Susan A Heath, Luanne Johnson, Elizabeth Olson, **Kevin Regan**, Jennifer K Wilson, Peter P Marra, *Ornithological Applications*, Volume 124, Issue 3, 2 August 2022, duac015. Strong migratory connectivity indicates Willets need subspecies-specific conservation strategies. <https://doi.org/10.1093/ornithapp/duac015>

- Lane, O., E. M. Adams, N. Pau, K. M. O'Brien, **K. Regan**, M. Farina, T. Schneider-Moran, & J. Zarudsky. 2020. Long-term monitoring of mercury in adult saltmarsh sparrows breeding in Maine, Massachusetts and New York, USA 2000–2017. *Ecotoxicology* 29: 1148-1160. Available at <http://link.springer.com/10.1007/s10646-020-02180-w>.
- Adams, E. M., A. K. Sauer, O. Lane, **K. Regan**, & D. C. Evers. 2019. The effects of climate, habitat, and trophic position on methylmercury bioavailability for breeding New York songbirds. *Ecotoxicology*. [pdf](#)
- DeSorbo C, Burgess N, Todd C, Evers D, Bodaly R, Massey B, Mierzykowski S, Persico C, Gray R, Hanson W, Meattey D, **Regan K** (2018) Mercury concentrations in bald eagles across an impacted watershed in Maine, USA. *Science of The Total Environment*. 627:1515-1527
- Stenhouse I, Adams E, Goyette J, **Regan K**, Goodale M, Evers D (2018) Changes in mercury exposure of marine birds breeding in the Gulf of Maine, 2008–2013. *Marine Pollution Bulletin*. 128:156-161
- Perkins M, Ferguson L, Lanctot R, Stenhouse I, Kendall S, Brown S, Gates H, Hall J, **Regan K**, Evers D (2016) Mercury exposure and risk in breeding and staging Alaskan shorebirds. *The Condor*. 118:571-582
- Meattey D, Savoy L, Beuth J, Pau N, O'Brien K, Osenkowski J, **Regan K**, Lasorsa B, Johnson I (2014) Elevated mercury levels in a wintering population of common eiders (*Somateria mollissima*) in the northeastern United States. *Marine Pollution Bulletin*. 86:229-237
- Evers D, Schmutz J, Basu N, DeSorbo C, Fair J, Gray C, Paruk J, Perkins M, **Regan K**, Uher-Koch B, Wright K (2014) Historic and Contemporary Mercury Exposure and Potential Risk to Yellow-Billed Loons (*Gavia adamsii*) Breeding in Alaska and Canada . *Waterbirds*. 37(sp1):147-159