

Lucas Savoy

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EDUCATION

- **Bachelor of Science with an emphasis in Wildlife Management/Biology** (1995-1999)
Unity College, ME

PROFESSIONAL EXPERIENCE

- Current: Deputy Director, Co-Chair Waterbirds Program, Director of the Loon Program
- 2000-Present: Wildlife Research Biologist, Biodiversity Research Institute, Portland, Maine, www.briwildlife.org
- 1998-1999: Field biologist, Biodiversity Research Institute
- Board Member: University of Southern Maine Institutional Animal Care and Use Committee (IACUC)

FIELD EXPERIENCE

25 years of field research experience:

- Developing and implementing large scale, multi-year wildlife research studies
- Implementing U.S. Fish and Wildlife Service National Resource Damage Assessment (NRDA) studies
- Collecting reproductive data for waterbirds and waterfowl
- 20+ years of experience capturing, handling, banding, and collecting tissue samples from numerous species of waterfowl, seabirds, loons and other waterbirds, songbirds, marshbirds, and raptors
- 20+ years experience in bird capture techniques using mist nets, dip nets, night-lighting, live-decoy traps, leg-hold traps, nest trapping, net guns, and nest boxes
- Arctic bird research in Russia
- Collecting, entering, and analyzing biological data for presentations, reports, and publications
- Recruiting, training, supervising field technicians and volunteers
- Experienced in operating a boat on freshwater and marine waters
- Experienced in radio and satellite telemetry tracking of wildlife
- Project Manager – Deepwater Horizon Oil Spill bird survival study

CERTIFICATIONS

- CPR and First Aid certified – May 2019
- National Association of State Boating Law Administrators (NASBLA) certified – May 2019
- Completed A-312 Water Ditching and Survival Course – November 2014
- Completed Animal Care and Use certification – Wildlife Research, 2017
- DEA Schedule III license
- Completed 24 hour Hazardous Waste Operations and Emergency Response, 2010
- Rabies vaccinated

COMPUTER SKILLS

- Statistical programs (R, JMP, Sigma Plot, Microsoft Excel)

PUBLICATIONS

- Ackerman, J.T., M.P. Herzog, D.C. Evers, D.A. Cristol, K.P. Kenow, G.H. Heinz, R.A. Lavoie, R.L. Brasso, M.L. Mallory, J.F. Provencher, B.M. Braune, A. Matz, J.A. Schmutz, C.A. Eagles-Smith, **L.J. Savoy**, M.W. Meyer, C.A. Hartman. 2020. Synthesis of maternal transfer of mercury in birds: implications for altered toxicity risk. *Env. Science and Technology* 54:2878-2891.
- Bianchini, K., S.G. Gilliland, A.M. Berlin, T.D. Bowman, W.S. Boyd, S.E.W. De La Cruz, D. Esler, J.R. Evenson, P.L. Flint, C. Lepage, S.R. McWilliams, D.E. Meattey, J.E. Osenkowski, M.C. Perry, J-F Poulin, E.T. Reed, C. Roy, J-P.L. Savard, **L. Savoy**, J.L. Schamber, C.S. Spiegel, J. Takekawa, D.H. Ward, M.L. Mallory. 2023. Evaluation of breeding distribution and chronology of North American scoters. *Wildlife Biology* doi: 10.1002/wlb3.01099
- Lamb, J. S., P. W. C. Paton, J. E. Osenkowski, S. S. Badzinski, A. M. Berlin, T. Bowman, C. Dwyer, L. J. Fara, S. G. Gilliland, K. Kenow, C. Lepage, M. L. Mallory, G. H. Olsen, M. C. Perry, S. A. Petrie, J. L. Savard, **L. Savoy**, M. Schummer, C. S. Spiegel, and S. R. McWilliams. 2020. Assessing year-round habitat use by migratory sea ducks in a multi-species context reveals seasonal variation in habitat selection and partitioning. *Ecography* 43:1–18.
- Lamb, J. S., P. W. C. Paton, J. E. Osenkowski, S. S. Badzinski, A. M. Berlin, C. Dwyer, L. J. Fara, S. G. Gilliland, K. Kenow, C. Lepage, M. L. Mallory, G. H. Olsen, M. C. Perry, S. A. Petrie, J. L. Savard, **L. Savoy**, M. Schummer, C. S. Spiegel, and S. R. McWilliams. 2020. Implanted satellite transmitters affect sea duck movement patterns at short and long timescales. *The Condor* 122:1–16.
- Lamb, J.S., P.W.C. Paton, J.E. Osenkowski, S.S. Badzinski, A.M. Berlin, T. Bowman, C. Dwyer, L.J. Fara, S.G. Gilliland, K. Kenow, C. Lepage, M.L. Mallory, G.H. Olsen, M.C. Perry, S.A. Petrie, J.-P.L. Savard, **L. Savoy**, M. Schummer, C.S. Speigel, and S.R. McWilliams. 2019. Spatially explicit network analysis reveals multi-species annual cycle movement patterns of sea ducks. *Ecological Applications* 00(00):e01919.10.1002/eap.1919

- Mallory, A., Mark, L., Robert, A., Bradford, R., Mallory, M. L., Ronconi, R. A., Allen, R. B., Dwyer, C., Lair, S., Mallory, C. D., McLellan, N. R., Milton, G. R., Parsons, G. J., **Savoy, L.**, & Tomlik, M. D. (2020). Annual movement patterns of American common eiders *Somateria mollissima dresseri mollissima dresseri*. *Wildlife Biology*, 2020(May), 1–10. <https://doi.org/10.2081/wlb.00665>
- Meatley, D.E., S.R. McWilliams, P.W.C. Paton, C. Lepage, S.G. Gilliland, **L. Savoy**, G.H. Olsen, and J.E. Osenkowski. 2019. Resource selection and wintering phenology of White-winged Scoters in southern New England: Implications for offshore wind energy development. *The Condor*. 121: 1-18.
- Meatley, D.E., S.R. McWilliams, P.W.C. Paton, C. Lepage, S.G. Gilliland, **L. Savoy**, G.H. Olsen, and J.E. Osenkowski. 2018. Annual cycle of white-winged scoters (*Melanitta fusca*) in eastern North America: migratory phenology, population delineation, and connectivity. *Canadian Journal of Zoology*. 96: 1353-1365. [dx.doi.org/10.1139/cjz-2018-0121](https://doi.org/10.1139/cjz-2018-0121).
- Savoy, L.**, P. Flint, D. Zwiefelhofer, H. Brant, C. Perkins, R. Taylor, O. Lane, J. Hall, D. Evers, J. Schamber. 2017. Geographic and temporal patterns of variation in total mercury concentrations in blood of harlequin ducks and blue mussels from Alaska. *Marine Pollution Bulletin* [http://dx.doi.org/10.1016/j.marpolbul.2017.01.084](https://doi.org/10.1016/j.marpolbul.2017.01.084)
- Stenhouse, I.J., A.M. Berlin, A.T. Gilbert, M.W. Goodale, C.E. Gray, W.A. Montevecchi, **L. Savoy**, C.S. Spiegel. 2020. Assessing the exposure of three diving bird species to offshore wind areas on the U.S. Atlantic Outer Continental Shelf using satellite telemetry. *Diversity and Distributions* 00:1-12.
- MacCallum, B., A. Paquet, L. Bate, C. Hammond, K. Smucker, **L. Savoy**, S. Patla, and W.S. Boyd. 2022. Migratory connectivity and nesting behavior in Harlequin Ducks (*Histrionicus histrionicus*) based on light-level geolocator data. *Waterbirds* 44(3): 330-342.
- Meatley, D., **L. Savoy**, J. Beuth, N. Pau, K. O'Brien, J. Osenkowski, K. Regan, B. Lasorsa, and I. Johnson. 2014. Elevated mercury levels in a wintering population of common eiders (*Somateria mollissima*) in the northeastern United States. *Marine Pollution Bulletin* 86:229-237.
- Gray, C.E., J.D. Paruk, C.R. DeSorbo, **L.J. Savoy**, D.E. Yates, M.D. Chickering, R.B. Gray, K.M. Taylor, D. Long, N. Schoch, W. Hanson, J. Cooley, and D.C. Evers. 2014. Body mass in Common Loons (*Gavia immer*) strongly associated with migration distance. *Waterbirds* 37(sp1):64-75.
- Rave, D.P., M.C. Zicus, J.R. Fieberg, **L. Savoy**, and K. Regan. 2014. Trends in eggshell thickness and mercury in common goldeneye and hooded merganser eggs. *Wildlife Society Bulletin* 38(1): 9-13.
- Cristol, D.A., **L. Savoy**, D.C. Evers, C. Perkins, R. Taylor, and C.W. Varian-Ramos. 2012. Mercury in waterfowl from a contaminated river in Virginia. *Journal of Wildlife Management* 76(8): 1617-1624.
- Kenow, K.P., D. Adams, N. Schoch, D.C. Evers, W. Hanson, D. Yates, **L. Savoy**, T.J. Fox, A. Major, R. Kratt, and J. Ozard. 2009. Migration patterns and wintering range of Common Loons breeding in the Northeastern United States. *Waterbirds* 32(2): 234-247.

Evers, D.C., **L. Savoy**, C.R. DeSorbo, D. Yates, W. Hanson, K.M. Taylor, L. Siegel, J.H. Cooley, M. Bank, A. Major, K. Munney, H.S. Vogel, N. Schoch, M. Pokras, W. Goodale, and J. Fair. 2008. Adverse effects from environmental mercury loads on breeding common loons. *Ecotoxicology* 17:69-81.

PRESENTATIONS:

Savoy, Lucas J., Timothy D. Bowman, Dustin Meattey, Oksana Lane, Jason E. Osenkowski, Scott G. Gilliland, Glenn H. Olsen, Nancy Pau, Kate O'Brien, Alicia M. Wells-Berlin, Phillip Wilson, Shannon Badzinski, and Shawn Meyer. 2011. Mercury concentrations in blood of migratory and wintering sea ducks from the Atlantic and Great Lakes regions. Presentation at the 4th International Sea Duck Conference, Seward, Alaska, 2011.

Savoy, Lucas J., Timothy D. Bowman, Dustin Meattey, Kevin Reagan, Jason E. Osenkowski, Josh Beuth, Scott G. Gilliland, Glenn H. Olsen, Nancy Pau, Kate O'Brien, Alicia M. Wells-Berlin, Phillip Wilson, Shannon Badzinski, Shawn Meyer, and Christine Lepage. 2014. A comparison of mercury concentration in blood tissue of sea ducks from the Atlantic and Great Lakes regions. Presentation at the 5th International Sea Duck Conference, Reykjavik, Iceland, 2014.

Savoy, L., S. Boyd, B. McCallum, M. McAdie, L. Bate, C. Hammond, M. Wilson, J. Evenson, S. Patla, C. Smith, J. Tash. 2017. The timing, duration, and pathways of harlequin duck migration to Pacific molting and wintering areas in Western North America. Presentation at the 6th International Sea Duck Conference, San Francisco, California, 2017.

Savoy, L., C. Dwyer, B. Allen, R. Mickley, S. Gibbs, G.H. Olsen, H Heusmann, S. Corona, J. Ayub, D. Heard, D. McAuley. 2017. Narrowing the focus of the wellfleet bay virus investigation: annual movement patterns of satellite-marked common eiders breeding in Boston Harbor, Massachusetts, USA. Presentation at the 6th International Sea Duck Conference, San Francisco, California, 2017.

Solovyeva, D., **L. Savoy**, O. Lane, S. Vertanayan, C. Perkins, K. Regan. 2017. Contaminant concentrations in the endangered scaly-sided merganser from Russia. Presentation at the 6th International Sea Duck Conference, San Francisco, California, 2017.