



Current Citations



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Articles:

Almeida, B.A., E. Sebastián-González, L. dos Anjos, and A.J. Green. 2020. [Comparing the diversity and composition of waterbird functional traits between natural, restored, and artificial wetlands](#). *Freshwater Biology* 65:2196-2210.

Armistead Andrews, E. 2020. [Legal and policy challenges for future marsh preservation in the Chesapeake Bay Region](#). *Wetlands* 40:1777-1788.

Backhaus, P.J., S. Lee, M. Nassry, G. McCarthy, M. Lang, and R.P. Brooks. 2020. [Evaluating a remote wetland functional assessment along an altered gradient in coastal plain depressional wetlands](#). *Journal of Soil and Water Conservation* 75:727-738.

Bartholomew, M.K., C.J. Anderson, and J.F. Berkowitz. 2020. [Wetland vegetation response to groundwater pumping and hydrologic recovery](#). *Wetlands* 40:2609-2619.

Begosh, A., L.M. Smith, C.N. Park, S.T. McMurry, and T.G. LaGrange. 2020. [Effects of wetland presence and upland land use on wild Hymenopteran and Dipteran pollinators in the Rainwater Basin of Nebraska, USA](#). *Wetlands* 40:1017-1031.

Berkowitz, J.F., D.R. Johnson, and J.J. Price. 2020. [Forested wetland hydrology in a large Mississippi River tributary system](#). *Wetlands* 40:1133-1148.

Bielefeld, R.R., P.R. Garretson, and J.L. Dooley. 2020. [Variation in survival and harvest rates of Florida mottled duck](#). *Journal of Wildlife Management* 84:1515-1526.

Blake-Bradshaw, A.G., J.D. Lancaster, J.R. O'Connell, J.W. Matthews, M.W. Eicholz, and H.M. Hagy. 2020. [Suitability of wetlands for migrating and breeding waterbirds in Illinois](#). *Wetlands* 40:1993-2010.

Brazener, J. and F. MacKinnon. 2020. [Relative conservation value of Nova Scotia's forests: Forested wetlands as avian diversity hotspots](#). *Canadian Journal of Forest Research* 50:1307-1322.

Brooks, D.R. and J.J. Nocera. 2020. [Bumble bee \(*Bombus* spp.\) diversity differs between forested wetland and clearcuts in the Acadian forest](#). *Canadian Journal of Forest Research* 50:1399-1404.

- Burns, C.J., M. Alber, and C.R. Alexander. 2021. [Historical changes in the vegetated area of salt marshes](#). *Estuaries and Coasts* 44:162-177.
- Bushaw, J.D., K.M. Ringelman, M.K. Johnson, T. Rohrer, and F.C. Rohwer. 2020. [Applications of an unmanned aerial vehicle and thermal-imaging camera to study ducks nesting over water](#). *Journal of Field Ornithology* 91:409-420.
- Byerly, P.A., J. Hardin Waddle, A. Romero Premeaux, and P.L. Leberg. 2020. [Effects of barrier island salt marsh restoration on marsh bird occurrence in the northern Gulf of Mexico](#). *Restoration Ecology* 28:1610-1620.
- Capasso, S., A. Servián, V.V. Tkach, and J.I. Diaz. 2020. [Notocotylus chinosis \(Trematoda: Notocotylidae\) and Notocotylus sp. from shorebirds in southern Patagonia wetlands of Argentina: Morphological and molecular studies](#). *Polar Biology* 43:1957-1966.
- Carlson Mazur, M.L., D.A. Wilcox, and M.J. Wiley. 2020. [Hydrogeology and landform morphology affect plant communities in a Great Lakes ridge-and-swale wetland complex](#). *Wetlands* 40:2209-2224.
- Carol, E., M. del Pilar Alvarez, I. Candanedo, S. Saavedra, M. Arcia, and A. Franco. 2020. [Surface water-groundwater interaction in the Matusagaratí wetland, Panama](#). *Wetlands Ecology and Management* 28:971-982.
- Cohen, E.B., K.G. Horton, P.P. Marra, H.L. Clipp, A. Farnsworth, J.A. Smolinsky, D. Sheldon, and J.J. Buler. 2021. [A place to land: Spatiotemporal drivers to stopover habitat use by migrating birds](#). *Ecology Letters* 24:38-49.
- Conway, C.J., C.P. Nadeau, and M. Conway. 2020. [Broadcasting regional call dialects has little influence on the effectiveness of call-broadcast surveys for marsh birds](#). *Wetlands* 40:2055-2059.
- Cornwell, J.C., M.S. Owens, L.W. Staver, and J. Court Stevenson. 2020. [Tidal marsh restoration a Poplar Island I: Transformation of estuarine sediments into marsh soils](#). *Wetlands* 40:1673-1686.
- Cunningham, S.A., Q. Zhao, and M.D. Weegman. 2021. [Increased rice flooding during winter explains the recent increase in the Pacific Flyway white-fronted goose *Anser albifrons frontalis* population in North America](#). *Ibis* 163:231-246.
- Dahl, R., T. Dalgaard, and E.W. Bork. 2020. [Shrub encroachment following wetland creation in mixedgrass prairie alters grassland vegetation and soil](#). *Environmental Management* 66:1120-1132.
- Denka Durgan, S., C. Zhang, A. Duecaster, F. Fournery, and H. Su. 2020. [Unmanned aircraft system photogrammetry for mapping diverse vegetation species in a heterogeneous coastal wetland](#). *Wetlands* 40:2621-2633.
- Doyle, S., A. Gray, and B.J. McMahon. 2020. [Anthropogenic impacts on the demographics of Arctic-breeding birds](#). *Polar Biology* 43:1903-1945.

- Echiverri, L.F.I., S.E. MacDonald, and S.E. Nielsen. 2020. [Disturbing to restore? Effects of mounding on understory communities on seismic lines in treed peatlands](#). Canadian Journal of Forest Research 50:1340-1351.
- Ethier, D., P. Davidson, G.H. Sorenson, K.L. Barry, K. Devitt, C.B. Jardine, D. Lepage, and D.W. Bradley. 2020. [Twenty years of coastal waterbird trends suggest regional patterns of environmental pressure in British Columbia, Canada](#). Avian Conservation and Ecology 15:20.
- Fowler, D.N., E.B. Webb, M.P. Vrtiska, and K.A. Hobson. 2020. [Winter carry-over effects on spring body condition driven by agricultural subsidies to lesser snow geese \(*Anser caerulescens caerulescens*\)](#). Avian Conservation and Ecology 15:21.
- Gage, E., D.J. Cooper, and R. Lichvar. 2020. [Comparison of USACE three-factor wetland delineations to National Wetland Inventory maps](#). Wetlands 40:1097-1105.
- Galloway, S., C. Davis, D. Dvoretz, and B. Tramell. 2020. [Validation of the Oklahoma Rapid Assessment Method \(OKRAM\) in depressional wetlands using EPA's three-tiered framework](#). Wetlands 40:925-937.
- Hannah, B.A., A.D. Kendall, S.L. Martin, and D.W. Hyndman. 2020. [Quantifying linkages between watershed factors and coastal wetland plant invasion in the US Great Lakes](#). Landscape Ecology 35:2843-2861.
- Hawkes, V.C., M.T. Miller, J. Novoa, E. Ibeke, and J.P. Martin. 2020. [Opportunistic wetland formation, characterization, and quantification on landforms reclaimed to upland ecosites in the Athabasca Oil Sands Region](#). Wetlands Ecology and Management 28:953-970.
- He, Q., H. Li, C. Xu, Q. Sun, M.D. Bertness, C. Fang, B. Li, and B.R. Silliman. 2020. [Consumer regulation of the carbon cycle in coastal wetland ecosystems](#). Philosophical Transactions of the Royal Society B 375:20190451.
- Hergoualc'h, K., N. Dezzio, L.V. Verchot, C. Martius, J. van Lent, J. del Aguila-Pasquel, and M. López Gonzales. 2020. [Spatial and temporal variability of soil N₂O and CH₄ fluxes a degradation gradient in a palm swamp peat forest in the Peruvian Amazon](#). Global Change Biology 26:7198-7216.
- Herteux, C.E., D.E. Gawlik, and L.L. Smith. 2020. [Habitat characteristics affecting wading bird use of geographically isolated wetlands in the U.S. southeastern coastal plain](#). Wetlands 40:1149-1159.
- Janousek, C.N., S.J. Bailey, and L.S. Brophy. 2021. [Early ecosystem development varies with elevation and pre-restoration land use/land cover in a Pacific Northwest tidal wetland restoration project](#). Estuaries and Coasts 44:13-29.
- Kim, S., J. Jeong, S.N. Kahara, S. Kim, and J.R. Kiniry. 2020. [APEX simulation: Water quality of Sacramento Valley wetlands impacted by waterfowl droppings](#). Journal of Soil and Water Conservation 75:713-726.

- Klammler, H., C.J. Quintero, J.W. Jawitz, D.L. McLaughlin, and M.J. Cohen. 2020. [Local storage dynamics of individual wetlands predict wetlandscape discharge](#). *Water Resources Research* 56:e2020WR027581.
- Krauss, K.W., A.S. From, C.S. Rogers, K.R.T. Whelan, K.W. Grimes, R.C. Dobbs, and T. Kelley. 2020. [Structural impacts, carbon losses, and regeneration in mangrove wetlands after two hurricanes on St. John, U.S. Virgin Islands](#). *Wetlands* 40:2397-2412.
- Langdon, S.F., M. Dovciak, and D.J. Leopold. 2020. [Tree encroachment varies by plant community in large boreal peatland complex in the boreal-temperate ecotone of northeastern USA](#). *Wetlands* 40:2499-2511.
- Lee, S., G.W. McCarty, M.W. Lang, and X. Li. 2020. [Overview of the USDA Mid-Atlantic Regional Wetland Conservation Effects Assessment Project](#). *Journal of Soil and Water Conservation* 75:684-694.
- Liu, D., X. Wang, S. Aminjafari, W. Yang, B. Cui, S. Yan, Y. Zhang, J. Zhu, and F. Jaramillo. 2020. [Using InSAR to identify hydrological connectivity and barriers in a highly fragmented wetland](#). *Hydrological Processes* 34:4417-4430.
- Loder, A.L. and S.A. Finkelstein. 2020. [Carbon accumulation in freshwater marsh soils: A synthesis for temperate North America](#). *Wetlands* 40:1173-1187.
- Magnan, G., M. Garneau, É. Le Stum-Boivin, P. Grondin, and Y. Bergeron. 2020. [Long-term carbon sequestration in boreal forested peatlands in eastern Canada](#). *Ecosystems* 23:1481-1493.
- Mansuy, N. 2020. [Stimulating post-COVID-19 green recovery by investing in ecological restoration](#). *Restoration Ecology* 28:1343-1347.
- Masto, N.M., B.A. Bauer, R.M. Kaminski, C. Sharpe, R.C. Leland, E. Wiggers, and P.D. Gerard. 2020. [Rake sampling to estimate biomass of submersed aquatic vegetation in coastal wetlands](#). *Wetlands* 40:957-966.
- Matteson, C.T., C. Rhett Jackson, D.P. Batzer, S.B. Wilde, and J.B. Jeffers. 2020. [Nitrogen and phosphorus gradients from a working farm through wetlands to streams in the Georgia Piedmont, USA](#). *Wetlands* 40:2139-2149.
- McKenna, O.P., J.M. Osorio, K.D. Behrman, L. Doro, and D.M. Mushet. 2020. [Development of a novel framework for modeling field-scale conservation effects of depressional wetlands in agricultural landscapes](#). *Journal of Soil and Water Conservation* 75:695-703.
- McLean, K.I., D.M. Mushet, J.N. Sweetman, M.J. Anteau, and M.T. Wiltermuth. 2020. [Invertebrate communities of prairie-pothole wetlands in the age of the aquatic Homogenocene](#). *Hydrobiologia* 847:3773-3793.
- Mezebish, T.D., G.H. Olsen, M. Goodman, F.C. Rohwer, and M.D. McConnell. 2020. [Winter survival of female ring-necked ducks in the southern Atlantic Flyway](#). *Journal of Wildlife Management* 84:1527-1535.

- Mitchell, M., J. Herman, and C. Hershner. 2020. [Evolution of tidal marsh distribution under accelerating sea level rise](#). *Wetlands* 40:1789-1800.
- Mushet, D.M., and W.R. Effland. 2020. [Wetlands in agricultural landscapes –Significant findings and recent advances from CEAP-wetlands](#). *Journal of Soil and Water Conservation* 75:681-683.
- Mushet, D.M. and C.L. Roth. 2020. [Modeling the supporting ecosystem services of depressional wetlands in agricultural landscapes](#). *Wetlands* 40:1061-1069.
- Padgett, T. and Y.F. Wiersma. 2020. [Importance of boreal forested wetlands for epiphytic macrolichen communities](#). *Canadian Journal of Forest Research* 50:1333-1339.
- Patton, B.A., J.A. Nyman, and M.K. Lapeyre. 2020. [Living on the edge: Multi-scale analyses of bird habitat use in coastal marshes of Barataria Basin, Louisiana, USA](#). *Wetlands* 40:2041-2054.
- Pendleton, M.C., S. Sedgwick, K.M. Kettenring, and T.B. Atwood. 2020. [Ecosystem functioning of Great Salt Lake wetlands](#). *Wetlands* 40:2163-2177.
- Plumpton, H.M., S.G. Gilland, and B.E. Ross. 2020. [Movement ecology and habitat use differences in black scoters wintering along the Atlantic coast](#). *Avian Conservation and Ecology* 15:6.
- Price, J.J. and J.F. Berkowitz. 2020. [Wetland functional responses to prolonged inundation in the active Mississippi River floodplain](#). *Wetlands* 40:1949-1956.
- Purre, A.-H., M. Ilomets, L. Truus, R. Pajula, and K. Sepp. 2020. [The effect of different treatments of moss layer transfer technique on plant functional types' biomass in revegetated milled peatlands](#). *Restoration Ecology* 28:1584-1595.
- *Purvis, E.N., J.L. Vickruck, L.R. Best, J.H. Devries, and P. Galpern. 2020. [Wild bee community recovery in restored grassland-wetland complexes of prairie North America](#). *Biological Conservation* 252:108829.
- Rubin, R.L., T.R. Anderson, and K.A. Ballantine. 2020. [Biochar simultaneously reduces nutrient leaching and greenhouse gas emissions in restored wetland soils](#). *Wetlands* 40:1981-1991.
- Russell, M.T., J.M. Cartwright, G.H. Collins, R.A. Long, and J.H. Eitel. 2020. [Legacy effects of hydrologic alteration in playa wetland responses to droughts](#). *Wetlands* 40:2011-2024.
- Sarker, S.K., J.S. Kominoski, E.E. Gaiser, L.J. Scinto, and D.T. Rudnick. 2020. [Quantifying effects of increased hydroperiod on wetland nutrient concentrations during early phases of freshwater restoration of the Florida Everglades](#). *Restoration Ecology* 28:1561-1573.
- Schultz, R., J. Straub, M. Kaminski, and A. Ebert. 2020. [Floristic and macroinvertebrate responses to different wetland restoration techniques in southeastern Wisconsin](#). *Wetlands* 40:2025-2040.
- Setash, C.M., W.L. Kendall, and D. Olson. 2021. [Factors influencing cinnamon teal nest attendance patterns](#). *Ibis* 163:125-136.

- Silva, G.G., A.J. Green, P. Hoffman, V. Weber, C. Stenert, Á. Lovas-Kiss, and L. Maltchik. 2021. [Seed dispersal by neotropical waterfowl depends on bird species and seasonality](#). *Freshwater Biology* 66:78-88.
- Spidalieri, K. 2020. [Legal and policy tools for facilitating coastal ecosystem migration in response to sea-level rise](#). *Wetlands* 40:1765-1776.
- Staver, L.W., J.C. Stevenson, J.C. Cornwell, N.J. Nidzieko, K.W. Staver, M.S. Owens, L. Logan, C. Kim, and S.Y. Malkin. 2020. [Tidal marsh restoration at Poplar Island II: Elevation trends, vegetation development, and carbon dynamics](#). *Wetlands* 40:1687-1701.
- Stenert, C., M.M. Pires, L.B. Epele, M.G. Grech, L. Maltchik, K.I. McLean, D.M. Mushet, and D.P. Batzer. 2020. [Climate-versus geographic-dependent patterns in the spatial distribution of macroinvertebrate assemblages in New World depressional wetlands](#). *Global Change Biology* 26:6895-6903.
- Sudol, T.A., G.B. Noe, and D.J. Reed. 2020. [Rise in the Chesapeake Bay: Introduction to the special feature](#). *Wetlands* 40:1667-1671.
- Suir, G.M., C.E. Sasser, and J.M. Harris. 2020. [Use of remote sensing and field data to quantify the performance and resilience of restored Louisiana wetlands](#). *Wetlands* 40:2643-2658.
- Thompson, A.J., S.T. McMurry, and L.M. Smith. 2020. [Depressional wetland classification and ecosystem service predictive models for the Integrative Landscape Modelling Partnership](#). *Journal of Soil and Water Conservation* 75:129A-136A.
- Tolvanen, A., O. Tarvainen, and A.M. Laine. 2020. [Soil and water nutrients in stem-only and whole-tree harvest treatments in restored boreal peatlands](#). *Restoration Ecology* 28:1357-1364.
- Torre Jorgenson, M., T.A. Douglas, A.K. Liljedahl, J.E. Roth, T.C. Cater, W.A. Davis, G.V. Frost, P.F. Miller, and C.H. Racine. 2020. [The roles of climate extremes, ecological succession, and hydrology in repeated permafrost aggradation and degradation in fens on the Tanana Flats, Alaska](#). *JGR Biogeosciences* 125:e2020JG005824.
- Turner, J.C., C.J. Moorberg, A. Wong, K. Shea, W.P. Waldrop, M.R. Turetsky, and R.B. Neumann. 2020. [Getting to the root of plant-mediated methane emissions and oxidation in a thermokarst bog](#). *JGR Biogeosciences* 125:e2020JG005825.
- Valderrama-Landeros, L.H., J. López-Portillo, S. Velázquez-Salazar, J.A. Alcántara-Maya, C. Troche-Souza, C., M.T. Rodríguez-Zúñiga, B. Vázquez-Balderas, E. Villeda-Chávez, M.I. Cruz-López and R. Ressler. 2020. [Regional distribution and change dynamics of mangroves in México between 1970/80 and 2015](#). *Wetlands* 40:1295-1305.
- Van Dolah, E.R., C.D. Miller Hesed, and M.J. Paolisso. 2020. [Marsh migration, climate change, and coastal resilience: Human dimensions consideration for a fair path forward](#). *Wetlands* 40:1751-1764.

Wang, J., G. Ren, Z. Lin, A. Wang, Y. Hu, X. Li, P. Wu, and J. Zhang. 2020. [Estimation of aboveground vegetation nitrogen contents in the Yellow River estuary wetland using GaoFen-1 remote sensing data](#). *Journal of Coastal Research* 102:1-10.

Wilcox, D.A., M.L. Carlson Mazur, and T.A. Thompson. 2020. [Groundwater controls on wetland vegetation of a ridge-and-swale chronosequence in a Lake Michigan embayment](#). *Wetlands* 40:2425-2442.

Williams, A.S., D.M. Mushet, M. Lang, G.W. McCarty, J.A. Shaffer, S. Njmabi Kahara, M.-V.V. Johnson, and J.R. Kiniry. 2020. [Improving the ability to include freshwater wetland plants in process-based models](#). *Journal of Soil and Water Conservation* 75:704-712.

*Zhao, Q., T. W. Arnold, J. H. Devries, D. W. Howerter, R. G. Clark, and M. D. Weegman. 2020. [Using integrated population models to prioritize region-specific conservation strategies under global change](#). *Biological Conservation* 252:108832.

Zhu, J., F. Zhang, H. Li, H. He, Y. Li, Y. Yeng, G. Zhang, C. Wang, and F. Luo. 2020. [Seasonal and interannual variations of CO₂ fluxes of 10 years in an alpine wetland on the Qinghai-Tibetan Plateau](#). *JGR Biogeosciences* 125:e2020JG006011.

Zhuang, Q. S. Wang, B. Zhao, F. Aires, C. Prigent, Z. Yu, J. Keller, and S. Bridgham. 2020. [Modeling Holocene peatland carbon accumulation in North America](#). *JGR Biogeosciences* 125:e2019JG005230.

New Materials:

*Gallman III, C.W. 2020. Evaluation of fall-seeded cover crops for grassland nesting waterfowl in eastern South Dakota. Thesis, South Dakota State University, Brookings, South Dakota, USA.

*Navarre, K. 2020. Temporal demography of lesser scaup: A species in decline. Thesis, Colorado State University, Fort Collins, Colorado, USA.

*Riecke, T.V. 2020. Perturbations & heterogeneity: Estimating demographic rates of brant in western Alaska. Dissertation, University of Nevada, Reno, Nevada, USA.