



10:52 AM -12:30 PM	Friday Concurrent Sessions 2					
	Zoom A	Zoom B	Zoom C	Zoom D	Zoom E	Zoom F
	<b>Climate Effects on Birds</b>	<b>Beach-stranded Marine Fishes: Lessons Learned about Poorly Understood Species</b>	<b>Parasite Ecology</b>	<b>Waterfowl and Wetlands Science and Conservation</b>	<b>Avian Breeding Season Ecology Along the Coast</b>	<b>Views from Above: Remote Sensing and Synoptic Mapping</b>
Moderator	<b>Christina Riehl</b>	<b>Owen Nichols</b>	<b>Allison Neal</b>	<b>Michael Schummer</b>	<b>Jameson Chace</b>	<b>Tim O'Connell</b>
10:52-10:54	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
10:54-11:16	<b>Adele Balmer</b> The Effects of Nest Conditions and Weather on Body Condition and Juvenile Recruitment	<b>Owen C. Nichols</b> Pearlside Story: A Beach-Cast Mesopelagic Fish, Valuable Naturalists' Observations, and a Call for Citizen Science	<b>Dagan A. Loisel</b> Prevalence and Genetics of Gammaherpesvirus and Parvovirus Infections in Vermont Bobcats ( <i>Lynx rufus</i> )	<b>Molly M. Jacobson</b> Response of Wild Bee Assemblages to Management of Restored Wetlands	<b>Sam Albright</b> Foraging and In-colony Behavior of Breeding Leach's Storm-Petrels in the Gulf of Maine	<b>Rostam E. Mirzadi</b> Evaluation of Small Unmanned Aerial Systems for Monitoring Nest Abundance and Survival of Wading Birds
11:16-11:38	<b>Jose P. Francisco</b> Measuring Activity of Saltmarsh Sparrows and Seaside Sparrows in Relation to Tide Levels and Weather Variables	<b>Jack N. Gerrior</b> Western Atlantic Torpedo Strandings on Cape Cod from August 2020 through January 2021, Including a Mass Stranding Event on Long Point, Provincetown, MA	<b>Abigail Snow</b> Genetic Diversity of <i>Leucocytozoon</i> species Parasites in Songbirds from Central New York	<b>Kayla Harvey</b> A Case Study: Wood Duck Nest Competition and Clutch Genetic Composition	<b>Lisa Ferguson</b> Return Rates of Black Skimmers Banded as Juveniles in New Jersey	<b>Garrett Rhyne</b> Predicting Swainson's Warbler Habitat in the Appalachians Using Infrared Satellite Imagery
11:38-12:00	<b>Christina Riehl</b> The El Niño – Southern Oscillation Dramatically Influences the Probability of Reproduction and Reproductive Rate of a Tropical Forest Bird	<b>Michael E. O'Neill</b> The GSO Project: Using Citizen Science to Document the Dispersal of Tropical Fish in the Northwest Atlantic	<b>Allison T. Neal</b> The Studying Larval Trematodes in Northeastern Freshwater Snails: A Beginner's Perspective	<b>Joshua I. Brown</b> Mallard Hybridization with Feral Conspecifics Results in Adaptive Differences in Eastern North America	<b>Francesca Foltz</b> Investigating Non-invasive Methods of Hormone Quantification in Great Black-backed Gulls	<b>Ashwin Sivakumar</b> A Weather Surveillance Radar View of Alaskan Avian Migration
12:00-12:22	<b>Claire Varian Ramos</b> Effects of Drought on Two Species of Shortgrass Prairie Sparrows in Southern Colorado	<b>Panel Discussion</b> Beach-stranded marine fishes, episodic events, and rare occurrences: What have we learned and what can we learn?	<b>Genevieve M. Ivec</b> Freshwater Fish Parasite Ecology in a Lentic System	<b>Samuel R. Kucia</b> Determining Origins of Mallards Harvested in the Atlantic Flyway Using a Stable Isotope Approach	Q & A	<b>Brittany Simons</b> Landscape of Risk: America's Cost Surface
12:22-12:30	Q & A	Q & A	Q & A	Q & A		Q & A

3:30–5:30 PM	Friday Concurrent Sessions 3					
	Zoom A	Zoom B	Zoom C	Zoom D	Zoom E	Zoom F
	<b>Native Freshwater Mussels: Exploring Threats, Restoration Efforts, and More</b>	<b>New Natural History Books: Insights from the Authors</b>	<b>Climate Change Ecophysiology</b>	<b>Trail Camera Wildlife Monitoring in Human-dominated Systems</b>	<b>Avian Ecology in Urban Areas</b>	<b>Education, Collections, and Citizen Science to Promote Understanding of Birds</b>
Moderator	<b>Natalie Sacco</b>	<b>Ted Elliman</b>	<b>Jake Grossman</b>	<b>Declan McCabe</b>	<b>Jason Luscier</b>	<b>Kimberly Snyder</b>
3:30–3:32	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
3:32–3:54	<b>Denise A. Mayer</b> Impacts of Remedial Activities on Freshwater Mussel Populations in the Upper Hudson River	<b>Charley Eiseman</b> Leafminers of North America	<b>Tom Radomski</b> Ecophysiological Models: Some Assembly, Disassembly, and Reassembly Required	<b>Jaynina Deku &amp; Jennifer Donnini</b> Monitoring the Use of Culverts by Animals in the Appalachian Region of Quebec	<b>Daniel T. Baldassarre</b> Does Living in the City Make Northern Cardinals Change Color?	<b>Georgia J. Riggs</b> Stakeholder Perceptions and Priorities of Bird–Window Collision Mitigation and Prevention
3:54–4:16	<b>Isabel Porto-Hannes</b> Muscles of Our Rivers: The Power of Unionids	<b>Elizabeth Thompson</b> Exploring the Natural Communities of Vermont from the Ground Up: Wetland, Woodland, Wildland	<b>Kerrie M. Sendall</b> Some Like it Hot: Effects of Climate Change on Salt Marsh Plant Communities	<b>Samantha Callaway</b> The Impact of Corn Harvesting on Mammals	<b>Gregory S. Keller</b> Effects of Urbanization and Non-native Plantations on Icelandic Birchwood Songbird Populations	<b>Samantha Rutledge</b> Birds of a Feather Caught Together: Flocking Species are Overrepresented in Museum Collections
4:16–4:38	<b>Ayla Skorupa</b> Habitat Predicts Abundance of Five Freshwater Mussel Species in Massachusetts	<b>Frank Gallo</b> Birding in Connecticut: A Comprehensive Site Guide	<b>Ayo Andra J. Deas</b> The Core Of It All: From the Forest To the Concrete Jungle	<b>Valerie Bolduc</b> How Does Human Activity Affect Wildlife Use of Existing Highway Crossing Structures?	<b>Lucas Leveau</b> Latitude and Urban Green-space Size Influence Raptor Species Richness and Functional Composition in Neotropical Cities	<b>Jeremy J. Kirchman</b> New Educational Materials and a New Birds of New York Exhibit at the New York State Museum
4:38–5:00	<b>Jennifer E. Ryan</b> Mitigating Contamination for In-vitro Propagation of Dwarf Wedgemussel	<b>Lauren Brown &amp; Ted Elliman</b> Grasses, Sedges, Rushes	<b>Moey Rojas</b> Environmental Predictability: A Missing Link in Climate Change Sensitivity Research	<b>Lina Swislocki</b> Using Trail Cameras to Survey Mammals in Distinct but Linked Parcels in the Lower Winooski Watershed; Comparing the Intervale, Pine Island, and Sunderland Brook	<b>David C. Morimoto</b> Urban Birds Related to Habitat, Population Density, and Socioeconomics in Cambridge, Massachusetts, USA: Scaling Biodiversity Immersion in Cities	<b>Nathaniel Sharp &amp; Bridget Butler</b> Birder Broker: A Matchmaker Service for Curious Landowners and Experienced Birders
5:00–5:22	<b>Rebecca Quail</b> Heading off the Loss: Freshwater Mussel Relocation to Jump Start Restoration on the Grasse River, Massena NY	<b>Jerry Jenkins</b> Making Field Guides Work	<b>Jake J. Grossman</b> Spatial and Temporal Patterns in the Drought Vulnerability of the Maples ( <i>Acer</i> spp.)	Q & A	<b>Katherine S. Wydner</b> Birds and the City: FeederWatch Reveals How a Winter Urban Bird Community Can Change In Seven Years	<b>Logan R. Kline</b> Collaboratively Counting Birds: Harnessing the Skillsets of a Transdisciplinary Team to Improve Wildlife Surveys
5:22–5:30	Q & A	Q & A	Q & A		Q & A	Q & A



10:52 AM -12:30 PM	Saturday Concurrent Sessions 2					
	Zoom A	Zoom B	Zoom C	Zoom D	Zoom E	Zoom F
	<b>Fish Biology II: Anatomy, Physiology, Behavior</b>	<b>Coastal Marine Habitats of the Northwest Atlantic</b>	<b>How to Make Meaning of Citizen Science Data on the Natural World II</b>	<b>SPARCnet: The Salamander Population and Adaptation Research Collaboration Network</b>	<b>Expanding the Northeastern Motus Network</b>	<b>Avian Nesting Biology</b>
Moderator	<b>Rick Van de Poll</b>	<b>Agnes Mittermayr</b>	<b>Corey Callaghan</b>	<b>Caitlin Fisher-Reid</b>	<b>Todd Alleger</b>	<b>Scott Stoleson</b>
10:52-10:54	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
10:54-11:16	<b>Aaron B. Steiner</b> Development and Regeneration of the Lateral Line Sensory System in the Zebrafish, <i>Danio rerio</i>	<b>Mark Borrelli</b> Mapping in Extreme Shallow Waters and Providing Useful Data to Scientists, Managers, and the Public	<b>Michael W. Belitz</b> Addressing Biases in Community Science Data to Document Phenology Patterns at Broad Spatial and Phylogenetic Scales	<b>M. Caitlin Fisher-Reid</b> Introduction to SPARCnet and <i>Plethodon cinereus</i> (Eastern Red-backed Salamander)	<b>Marc Nutter</b> An Overview of the New England Interior Motus Project	<b>Emily W. Johnson</b> An Assessment of Interclutch Variability in Egg Characteristics in Two Species of Rail
11:16-11:38	<b>Daniel P. Welsh</b> Patterns of Variation in Size of Fish Scales within Individuals and across Populations	<b>Sean Terrill</b> Augmenting Benthic Habitat Classification with Low-cost Imagery: An Application of the Coastal and Marine Ecological Classification Standard (CMECS)	<b>Toni Lyn Morelli</b> How Citizen Science Can Help to Update Agency and Park Biodiversity Lists	<b>Jill Fleming</b> Range-wide Density Estimates of a Forest Indicator Species	<b>Stu Mackenzie</b> What Can Motus Do for You?	<b>Lucas J. Redmond</b> Factors Influencing Clutch Size and Egg Mass in Gray Catbirds
11:38-12:00	<b>Bronwyn H. Bleakley</b> Physiology of Cooperative Antipredator Behavior in Trinidadian Guppies	<b>Holly K. Plaisted</b> The Influence of Rising Water Temperature on Eelgrass in the Northeast USA	<b>Panel Discussion: How to Make Meaning from Citizen Science Biodiversity Data</b>	<b>Brandon P. Hedrick</b> Effects of Coverboard Age and Aging on Salamander Usage	<b>Carol Foss</b> Rusty Blackbird Research: A Motus Case Study	<b>Henry S. Pollock</b> What the Pluck? Extraction of Mammal Hair by Tits (Paridae) is a Rarely Documented but Common Behavior with Potentially Important Fitness Implications
12:00-12:22	<b>Simon P. Pearish</b> Individual and Population Differences in Schooling Behavior	<b>Megan P. Fass</b> <i>Fucus serratus</i> (Fucaceae) In Nova Scotia Forms A New Pattern Of Intertidal Zonation In The Western Atlantic	Q & A	<b>Masie MacKnight</b> Methods for Surveying <i>Plethodon cinereus</i> Using Passive Integrated Transponder (PIT) Tags in a Forested Habitat	<b>Panel Discussion</b> Motus Questions and Answers (Marc Nutter, Carol Foss, Stu Mackenzie, Scott Wiedensaul, Todd Alleger, and Alison Fetterman)	<b>Martha I. Ortiz-Carvalho</b> Cordilleran Flycatcher Brood Food Delivery: Does it Change Along the Day?
12:22-12:30	Q & A	Q & A		Q & A	Q & A	Q & A



9:30–11:08 AM	Sunday Concurrent Sessions 1					
	Zoom A	Zoom B	Zoom C	Zoom D	Zoom E	Zoom F
	<b>Horseshoe Crab Ecology I</b>	<b>Insect Movement, Phenology, and Conservation</b>	<b>Urban Ecology and Environmental Justice II</b>	<b>Biodiversity in Pine Barrens and Heathlands II</b>	<b>Full-cycle Nightjar Monitoring in Eastern North America</b>	<b>Avian Habitat Use and Ecology II: Forests Here and There</b>
Moderator	<b>Mark Botton</b>	<b>James Michielini</b>	<b>Aaron Grade</b>	<b>Michael Akresh</b>	<b>Logan Parker</b>	<b>Chris Rimmer</b>
9:30–9:32	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
9:32–9:54	<b>Christina P. Colon</b> Ecology, Distribution, and Microbiome of Juvenile American Horseshoe Crabs at Plumb Beach, Jamaica Bay, NY	<b>Brendan D. Carson</b> Integrating Larval Movement and Adult Oviposition to Estimate Rates of Disease Spread in the Baltimore Checkerspot Butterfly	<b>Nicholas Geron</b> Watered Down Stewardship: How Residential and State Stewardship Regimes Inform Juvenile Tree Survivorship	<b>Michael Akresh</b> Incidental Observations of Snakes and Game Birds in a Managed Pine Barren in Massachusetts	<b>Marja Bakermans</b> Habitat Selection by Eastern Whip-poor-will on Migration and Winter Locations	<b>Rebecca Bracken</b> Diversity of Birds Overwintering in Multiple Stand Stages within a Private Working Forest
9:54–10:16	<b>Hope VanDerwater</b> Effects of the Glyphosate-based Herbicide Roundup® on Survival and Development of American Horseshoe Crab Embryos	<b>Julia M. Pupko</b> Lady Beetles of Vermont: Invasions, Extirpations, and Recent Discoveries from Community Scientists	<b>Alexandra Cook</b> Tidal Marsh Sparrows in Urban Marshes of New York City in Dire Need of Habitat Restoration	<b>Steven P. Campbell</b> Population Response of the Endangered Karner Blue to Recovery Efforts at the Albany Pine Bush Preserve	<b>Elora R. M. Grahame</b> Monitoring Nightjar Nests through the Post-fledging Period Reveals the Importance of Evaluating Chick Survival beyond the Nestling Stage	<b>Chris Rimmer</b> Overwinter Status of Bicknell's Thrush ( <i>Catharus bicknelli</i> ) in Eastern Cuba
10:16–10:38	<b>Alex Amankwah-Asarel</b> Horseshoe Crab Interactions within a Newly Restored Fringing Marsh of Stratford Point, Connecticut	<b>James Michielini</b> Changes in Phenology Predict Abundance Trends in Massachusetts Butterflies	<b>Kathleen E. Farley</b> Can Post-industrial Sites Provide Adequate Habitat for American Woodcock?	<b>Amanda Dillon</b> Studying the Solitary Bee Community and its Response to Management at the Albany Pine Bush Preserve	<b>Aaron Skinner</b> Breeding-winter and En Route Migratory Connectivity of Eastern Whip-poor-will From the Midwestern US	<b>Nicholas J. Russo</b> Movement Ecology of Hornbills and Spatial Patterns of Seed Dispersal in Cameroon
10:38–10:46	Q & A	Q & A	<b>Daniel R. Ardia</b> Landscape Ecology of Forest Mammals along a Gradient of Urbanization: A Hierarchical Scale Approach	Q & A	<b>Elly Knight</b> The Big Boom Theory: Interpretation and Application of the Common Nighthawk Wingboom Display	Q & A
10:38–11:00						
11:00–11:08			Q & A		Q & A	

11:15 AM -1:15 PM	Sunday Concurrent Sessions 2					
	Zoom A	Zoom B	Zoom C	Zoom D	Zoom E	Zoom F
	<b>Horseshoe Crab Ecology II</b>	<b>Herps: Impacts of the Anthropocene</b>	<b>Native Plants and Native Pollinators II: Conservation Strategies</b>	<b>Pitch Pines and Pine Barrens: Natural History and Human Influence</b>	<b>Management Impact on Birds</b>	<b>Life Histories of Northeastern Arthropods</b> ----- <b>Bat Conservation: Light Pollution and White Nose Syndrome Management</b>
Moderator	<b>Mark Botton</b>	<b>Anna Thonis</b>	<b>Kathleen Englemann</b>	<b>Jessica Gurevitch</b>	<b>Marja Bakermans</b>	<b>Jason Lusier</b>
11:15-11:17	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Arthropods: Introduction & Overview
11:17-11:39	<b>Daphne M. Munroe</b> Using Sonar to Study Horseshoe Crab Behavior at Oyster Farms	<b>Haley Synan &amp; Anne Christopher</b> Effects from Light and Noise Pollution on Gray Treefrogs and Green Frogs In Syracuse, NY	<b>Elizabeth A. Cowles</b> Anthropogenic Deserts: How We Can Reverse Course to Assist Pollinators	<b>Neil Gifford</b> Shifting Paradigms: Ecosystem Restoration is not Maintenance in Degraded Pitch Pine-Scrub Oak Barrens	<b>Scott H. Stoleson</b> If You Build It, Will They Come? Efficacy of Northern Saw-whet Owl Nest Boxes in Hardwood Forest	<b>Jennifer L. Apple</b> Habitat, Life History, and Phenology of a Non-Native Ant-Mimicking Spider, <i>Myrmarachne formicaria</i>
11:39-12:01	<b>Justin J. Bopp</b> Stable Isotopes Reveal Contrasting Trophodynamics across American Horseshoe Crab Age Groups	<b>Nicole Dahrouge</b> The Influence of Salinity and Fluctuating Temperature Regimes on Wood Frog Tadpoles Within Vernal Pools	<b>Gabriel Mongeau &amp; Hartley Walker Money</b> Japanese Knotweed Management and Restoring Native Species to a Riparian Zone in the Mid-Hudson Valley	<b>Mark Lesser</b> A Tale of Two Trees: Effects of Climate Change on Growth of <i>Pinus rigida</i> and <i>Pinus banksiana</i> at Opposing Range Margins	<b>Lucy Zipf</b> Investigating the Effects of Management of Artificial Nest Boxes on Bird Reproductive Performance in Massachusetts Conservation Areas	Q & A (12:01-12:09)
12:01-12:23	<b>Royall McMahon Ward</b> Patterns of <i>Bdelloura candida</i> Infestation in a Population of <i>Limulus polyphemus</i> from Jamaica Bay, NY	<b>Amanda L. Lyons</b> Population Genetics of Diamondback Terrapins at Their Northern Range Edge	<b>Sydney Lonker &amp; Madeline Buehrer</b> Surveying Insect Populations and Vegetation in Nonagricultural Landscapes Within the Mianus River Gorge	<b>Ashley Morris</b> Predicting Novel Insect-Host interactions in an Expanded Range using Fungal Associates in the Southern Pine Beetle System	<b>Nancy M. Raginski</b> The Influence of Pine Management on Grassland-nesting Birds Overwintering in Central Louisiana, USA	Bats: Introduction & Overview (12:21-12:23)
12:23-12:45	<b>Mark L. Botton</b> Patterns of Carapace Condition and Epibiont Distribution on Horseshoe Crabs from Two Northeastern Bays	<b>Anna Thonis</b> Variation in Body Condition and Damage in Eastern Box Turtles ( <i>Terrapene carolina</i> ) on Long Island, New York	<b>Robert J. Gegear</b> Conservation Behavior of Native Plant-Pollinator Systems	<b>Matthew E. Aiello-Lammens</b> Dwarf and Normal Pitch Pine Populations Respond Differently to Fire: Results From a Long-Term Monitoring Survey	<b>Sam Parks</b> Increases in Avian Diversity Following Group-selection Timber Harvests in West-central New Hampshire	<b>Robert Kwiat</b> Whole-room Ultraviolet Sanitization as a Method for the Site-level Treatment of <i>Pseudogymnoascus destructans</i>
12:45-12:53	Q & A	Q & A	Q & A	Q & A	Q & A	<b>Chad Seewagen</b> An Experimental Test of the Effects of Artificial Lighting at Night on the Foraging Activity of a Connecticut Bat Community
12:45-1:07						
1:07-1:15						Q & A