

Wednesday, Morning Session

*indicates student presenters eligible for AOS presentation award

Room	Atwood Hall	Cook Theatre	Summit 1	Summit 2	Summit 3	Summit 4
Session	Symposium Understanding and Addressing the Collapse of the North American Avifauna (Marra & Rosenberg) S1	Symposium Breaking Through Biases: What We’ve Learned from Female Birds (Odom & Bennett) S2	Phylogenetics & Phylogeography S3	Songs & Vocalizations S4	Biogeography S5	Birds & Agriculture S6
1030	Evidence for Massive Decline in the North American Avifauna <i>Rosenberg KV, Dokter AM, Blancher PJ, Sauer JR, Smith AC, Smith PA, Stanton JC, Panjabi AO, Heltl L, Parr M</i>	Extra-Pair Copulations in Passerines: Why Females Matter <i>Stutchbury BJ</i>	*Evolution of Migration in the Nightingale-Thrushes (Turdidae: Catharus) Inferred via Morphometric and Phylogenetic Analysis <i>Halley MR, Klicka J, Catanach TA, Weckstein JD</i>	It’s the Same Old Song: Benefits of Song Dialects in the Lapland Longspur <i>Montgomerie RD, Cox A, Mullie A</i>	Montane Biogeography and the Evolution of Disjunct Ranges: a Case Study in the Diglossa Flowerpiercers <i>Hiller AE, Brumfield RT, Faircloth BC</i>	*GPS-Tracking Reveals Selection for Prairie Ponds by Tree Swallows in Cropland-Dominated Landscapes <i>Elgin AS, Morrissey CA, Clark RG</i>
1045	Decline and Survival of North America’s Migratory Avifauna Determined by a Weather Radar Network <i>Dokter AM</i>	Female Bird Songs -- The Other Half of the Conversation <i>Benedict L, Hathcock TJ, Najar N, Mitchell L, Cavar J, Logue D</i>	Contrasting Drivers of Diversity and Turnover in Andean Birds and Their Parasites <i>McNew SM, Barrow LN, Bates JM, DuBay SG, Galen SC, Hackett SJ, Johnson AB, Skeen HR, Valqui T, Jason WD, Williamson JL, Witt CC</i>	Behavioral Landscape of ‘Oma’o Vocalizations in a Naturally Fragmented Habitat <i>Netoskie EC, Paxton KL, Paxton EH, Hart PJ</i>	Cryptic Bird Species on a Remote Archipelago of the Pacific Ocean <i>Cibois A, Thibault J, Friedman NR, Omland KE, Desutter-Grandcolas L, Robillard T, Pasquet E</i>	*Impact of Wildfires on Barn Owl Habitat Selection in a Vineyard Agroecosystem in Napa Valley <i>Huysman AE, Johnson M</i>
1100	Grassland Bird Declines: How Can We Stop the Downward Spiral? <i>Panjabi AO, Correll M, Strasser EH, Bernath-Plaisted J, Beh A, VerCauteren TL</i>	Female Preferences Shape Elaborate Male Displays and Social Skills on the Lek <i>Patricelli GL</i>	Fine-Scale Genetic Population Structure of an Understory Bird (Thamnophilus atrinucha) Across the Panama Canal Zone <i>Maddox JD, Kelley JP, Tarwater CE</i>	*Behavioral and Spectrographic Analysis of Chatter: A Novel Vocalization in Northern Mockingbirds <i>Brown BB, Stracey CM</i>	Climate Delineates the Northern Range Boundary of the Northern Cardinal <i>Miller CR, Porter WP, Fitzpatrick MJ, Zuckerberg B</i>	Does a “Sonic Net” Protect Sunflower from Damage by Blackbirds? <i>Werrell AK, Klug PE, Swaddle JP</i>
1115	Volunteer-Led Surveys Document 40-Years of Shorebird Declines Across North America <i>Smith PA, Smith AC, Brown S, Friis C, Paquet J, Winn B, MacDonald A</i>	Habitat Saturation Drives the Frequency of a Rare Behavior in the Females of a Social Bird <i>Barve SS, Koenig WD, Haydock J, Walters EL</i>	Multiple Hybrid Zones in a Widespread Amazonian Bird Reveal Different Evolutionary Processes <i>Moncrieff AE, Brumfield RT</i>	*Repertoire Size and Individual Variation in Vocalizations of ‘ōma’ō (Myadestes obscurus) an Endemic Hawaiian Thrush <i>Tysall EE, Paxton KL, Netoskie EC, Paxton EH, Hart PJ</i>	Diversification and Biogeography in an Indo-Pacific Bird Radiation (Pachycephalidae) <i>Brady SS, Joseph LG, Moyle RG, Andersen MJ</i>	Quantifying Multiple-Benefits of Bird Conservation in the Agricultural Mosaic of California’s Central Valley <i>Seavy NE, Humple D</i>
1130	American Seabirds: A Review of Status, Threats, and Conservation on Land and at Sea <i>Nevins HM, Goyert H, Keitt B, Wiedenfeld D</i>	Migratory Landbird Conservation Compromised by Failure to Address Sexual Segregation <i>Bennett RE, Rodewald AD, Rosenberg KV</i>	Comparative Phylogeography of Amazonian Riverine Island Birds <i>Johnson O, Brumfield RT</i>	Deep Convolutional Neural Network to Detect Forest Owls of the Pacific Northwest <i>Lesmeister DB, Ruff ZJ, Sullivan CM</i>	*Patterns and Mechanisms of Heterogeneous Breeding Distribution Shifts in North American Migratory Birds <i>McCaslin HM, Heath JA</i>	Estimating the Effect of Prairie Strips on Grassland Birds <i>Giese JC, Schulte LA, Klaver RW</i>
1145	Songbirds of the Sagebrush Sea: Declines and Mechanisms <i>Chalfoun AD, Sanders L, Scherr T, Hethcoat M</i>	Elaborate Female Coloration and Song: Diverse Perspectives Lead to a More Comprehensive Understanding of Avian Biology <i>Omland KE, Rose EM, Haines CD</i>	Resolving Difficult Nodes in Manakin Phylogeny Using Low-Coverage Whole Genome Sequencing <i>Braun EL, White ND, Kimball RT, Moncrieff AE, Zhao M, Kurtis SM, Brumfield RT</i>	*Sex and Species Divergence in Vocalizations Between Role-Reversed Shorebirds, Jacana spinosa and Jacana jacana <i>Buck EJ, Lipshutz SE, Derryberry EP</i>	Is Specialism an Evolutionary Dead-End? Estimates of Transition Rates Between Generalism and Specialism in a New World Clade <i>Conway M, Olsen BJ</i>	Comparing Land-Sparing and Land-Sharing Conservation Approaches in a Coffee-Growing Region with High Avian Biodiversity <i>Valente JJ, Ryder TB, Rice RA, Gómez C, Bayly NJ, Sillett TS, Marra PP</i>
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Session	Symposium Understanding and Addressing the Collapse of the North American Avifauna (Marra & Rosenberg) S13	Symposium Conservation and Management of Boreal Birds in a Changing Climate: What Do We Expect, What Have We Observed, and What Do We Do About It? (Stralberg et al.) S14	Phylogeography S15	Symposium Species Limits in Birds: Integrative and Practical Considerations for Taxonomy (Winker & Rasmussen) S16	Climate S17	Breeding Biology S18
1400	Conservation of Boreal Birds: Status, Trends, and Data Gaps <i>Toms JD, Solymos P, Stralberg D, Barker NK, Micheletti T, Leston L, Hache S, Cumming S, Song S, Schmiegelow F</i>	Model-Based Vulnerability Assessment of Boreal Birds in a Changing Climate <i>Bateman BL, Wu JX, Wilsey CB, Taylor L, LeBaron G, Langham GM</i>	Genomic Signatures of Pleistocene Dry Forest Connections in a Widespread South American Songbird <i>Corbett EC, Bravo GA, Schunck F, Naka LN, Silveira LF, Edwards SV</i>	Integrative Approaches to Species Delimitation in Birds <i>Cicero C, Mason NA, Jimenez RA, Wait DR, Wang-Claypool CY, Bowie RC</i>	Alternate Migration Strategies Mediate the Effects of Stochastic and Predictable Climatic Changes on Migratory Birds <i>Senner NR, Linscott JA, Rakhimberdiev E, Douglas DC</i>	Can Nest Concealment in Wood Thrushes Predict Reproductive Success? <i>Israel AM, Stutchbury BJ</i>
1415	Waterfowl in North America: A Successful Story of Partner-Based Conservation and Regulated Harvest <i>Brasher MG, Moorman TE</i>	Ecological Niche Modeling and Potential Implications for Alaskan Birds Under 2 °C Warming <i>Wu JX, Bateman BL, Wilsey CB, Taylor L, Langham GM</i>	Using Ancient DNA from Fossils to Place an Extinct Flightless Bird Genus in a Phylogenetic Context <i>Oswald JA, Allen JM, Folk R, Stucky B, Steadman DW, Guralnick R</i>	Revisionist History - Towards Comparable Species Across Avian Taxonomy <i>Bates JM, Reddy S</i>	Climate, Storm-Petrels, and Chick Growth <i>Mauck RA, Huntington CE, Haussmann MF, Dearborn DC, Ricklefs RE</i>	Nest Survival, Predator Assemblage, and Patterns of Predation at Veery (Catharus Fuscescens) Nests in a Mature Forest <i>Goguen CB, Murray LD</i>
1430	Contrasting Regional and Range-Wide Trends Inform Causes of Decline: Case Study with the Red-Cockaded Woodpecker and Associated Pineland Birds <i>Walters JR, Rosenberg KV, Sauer JR</i>	Detecting Shifts in the Phenology and Distribution of Bird Assemblages on the Kenai Peninsula, Alaska in a Changing Climate <i>Magness DR, Eskelin T</i>	Comparative Phylogeography of Four Lowland Forest Birds Distributed Across the Dahomey Gap of West Africa <i>Huntley JW, Sweet P, Hibbitts T, Arame H, Adite A</i>	Genoscapes & Species Limits - Lessons from the Last 5 Years <i>Ruegg KC, Smith T, Bossu C, Rajbandary J</i>	*Contrasting Demographic Responses of Eastern Bluebird Populations to Climatic Variability <i>Harrod SE, Rolland V</i>	*Viewing Habitat Through Another Lens: Bird Nest-Site Selection and Productivity Across the Beach Thermal Landscape <i>Schaale LE, Baxley JB, Pricope NG, Danner RM</i>
1445	State of Population Trend Monitoring for North American Birds <i>Michel NL, Smith AC, Hudson MR, Sauer J</i>	Present and Future Distribution and Abundance of Aerial Insectivores in the Northwest Using Climate and Landcover <i>Stehelin TE, Schmiegelow FK</i>	*Comparative Genomics Reveal Modes of Differentiation in North American Warm Desert Birds <i>Provost KL, Shue S, Forcellati M, Smith BT</i>	The Utility and Significance of Population Genomic Data in Assessing Avian Species Limits <i>Sorenson MD</i>	Climate Warming Reduces Population Growth and Recruitment Rates Over 30 Years in an Afrotropical Bird Community <i>Neate-Clegg MH, Stanley TR, Sekercioglu CH, Newmark WD</i>	*Egg Laying Behavior by Burrowing Owls Along a Latitudinal Gradient <i>Lundblad CG, Conway CJ</i>
1500	Are Declines in Migratory Bird Species More Closely Associated with Breeding or Wintering Locations? <i>Sauer JR, Rosenberg KV, Marra PP, Link WA</i>	Conservation of Kirtland's Warbler in a Changing World <i>Ribic CA, Brown DJ, Donner DM, Bocetti CI</i>	*The Genetics of Adaptation and Diversification of the "Great Speciators" - The Wallacean Zosterops <i>Bloch LM, Irham M, Haryoko T, Claypool-Wang C, McGuire JA, Rowe K, Bowie RC</i>	The Past and Future of 'benchmark' Systems for Delimiting Bird Species <i>Tobias JA</i>	Climate Change Threatens a Songbird Population Through Its Impacts on Breeding <i>Bonnot TW, Cox WA, Thompson FR, Millspaugh JJ</i>	Macroevolutionary Dynamics of Egg Colour and Patterning <i>Sheard CE, Street SE, Troisi C, Clark A, Healy SD, Laland KN</i>
1515	Addressing Population Declines with Full Annual Cycle Models: Current Advances and Data Needs <i>Joos CJ, Rushing CS</i>	The Influence of Climatic Dipoles on Irruption Dynamics in a Warming World <i>Zuckerberg B, Strong C, LaMontagne J</i>	Testing the Causes of Speciation with Gene Flow in a Neotropical Avian Species Pair (Pachyramphus Aglaiae) <i>Musher LJ, Galante P, Blair M, Huntley J, Thom G</i>	Endless Forms Less Beautiful: Relevance of Morphological Analyses to Integrative Taxonomy of Asian Prinia Species Complexes <i>Rasmussen PC, Alstrom P, Olsson U</i>		*To Kill a Mockingbird: The Combined Effects of Two Radically Different Parasites <i>Herman JM, Fiorini VD, Crudele I, Reboreda JC, Pladas SA, Bush SE, Clayton DH</i>

COFFEE BREAK

Wednesday, Early Afternoon Session

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Room	Summit 5	Summit 6	Summit 7/8	Summit 9/10	Summit 11/12	Summit 13/14
Session	Symposium Biodiversity Mediated Trade-offs in Agroecosystems: When Do Birds Help or Hurt Farmers? (Pejchar & Kennedy) S19	Evolution S20	Conservation S21	Migration & Stopover S22	Symposium Social Dynamics in Interspecific Interactions (Johnson & Shizuka) S23	Symposium Avian Biology and the Annual Life Cycle: Shorebirds as Models to Understand Dynamic Boundaries (Gurney & Ruthrauff) S24
1400	Net Effects of Birds in Agroecosystems <i>Pejchar L, Clough Y, Ekroos J, Nicholas K, Olsson O, Ram D, Tschumi M, Smith H</i>	*A Tale of Two Transects: Sexual Selection Across a Hummingbird Hybrid Zone <i>Myers BM, Rankin DT, Brelsford A, Burns KJ, Clark CJ</i>	Extinction Debt and Species Credit in Tropical Forest Bird Communities: Conservation Implications for Two Biodiversity Hotspots <i>Newmark WD</i>	*A Range-Wide Geolocator Project Fills Critical Knowledge Gaps of Our Understanding of the Full Annual Cycle of Cerulean Warblers <i>Raybuck DW, Buehler DA, Boves TJ, Larkin JL, Stoleson SH, Bulluck LP, George GA, Kearns LJ, Slankard KG, Petzinger S, Cox JJ, Mylecraine KA</i>	Heterospecific Sociality: How Cooperation, Competition, and Communication Across Species Shape Avian Behavior <i>Johnson AE</i>	Can Stable Isotopes Help Identify Links Between Wintering, Migration, and Breeding Areas of Semipalmated Sandpiper? <i>Gurney KE, Mizrahi DS, Alisauskas RT</i>
1415	Strategies for Navigating Trade-Offs Between Avian-Mediated Services and Disservices Affecting Food Production and Safety <i>Kennedy CM, Latimer CE, Smith OM, Taylor JM, Owen JP, Rankin E, Snyder WE</i>	Cultural Evolution Promotes Rapid Character Displacement in Sympatric Crossbills <i>Porter CK, Benkman CW</i>	*Cross-Scale Interaction Effects of Climate and Forest Patch Size on the Persistence of Forest-Interior Birds <i>Chaudhary A, Gutzwiller KJ</i>	Phenology of the Purple Martin Annual Cycle <i>Kelly JF, Horton KG, Stepanian P</i>	Learning to Join the Information Web <i>Magrath RD, Ratnayake C, Radford A, McLachlan J, Igic B, Potvin D</i>	Migratory Dynamics of Beringian Dunlin on the East Asian-Australasian Flyway <i>Lancot RB, Lagasse BJ, Yezerinac S, Brown S, Kendall S, Latty C, Liebezeit J, McGuire RL, Robards M, Saalfeld ST, Slaght J, Wunder M</i>
1430	Trade-Offs Between Ecosystem Services and Disservices Provided by Birds Covary with Agricultural Intensification in the US <i>Latimer CE, Smith OM, Owen J, Snyder W, Kennedy CM</i>	The Relative Roles of Natural Selection and Sexual Selection in Speciation in the Tanagers <i>Price-Waldman RM, Demery AJ, Mason NA, Shultz AJ, Title PO, Burns KJ</i>	*Experimental Forest Fragmentation Alters Interaction Networks of Amazonian Mixed-Species Flocks <i>Rutt CL, Mokross K, Stouffer PC</i>	Conservation Implications of a Migratory Network for the Common Nighthawk <i>Knight EC, Harrison A, Scarpignato AL, Van Wilgenburg SL, Bayne EM, Marra PP</i>		Movement Patterns of Arctic-Breeding Shorebirds During Post-Breeding and Southbound Migration <i>Saalfeld ST, Lancot RB, Brown S, Lamarre J, McGuire R, Ruthrauff D, Elliot K, Latty C</i>
1445	*Understanding Food Safety Risks Associated with Wild Birds: a Meta-Analysis and Conceptual Framework <i>Smith OM, Owen JP</i>	Pleistocene Glacial Cycles and the Relative Ease of Speciation with Periodic Gene Flow <i>Linck EB, Battey C</i>	Forest Management, Habitat Conservation and Monitoring Northern Goshawks in Southeast Alaska <i>Titus K</i>	Conservation in the Context of Migratory Connectivity: A Golden-Winged Warbler Case Study <i>Roth AM, Buckardt Thomas A</i>	Sister, Sister: Song Recognition and the Role of Early Experience in Sympatric Zonotrichia <i>Hudson EJ, Shizuka D</i>	Migratory Connectivity of a Declining Boreal Shorebird, the Lesser Yellowlegs <i>Christie KS, McDuffie L, Johnson JA, Taylor A</i>
1500	Managing Wild Birds for Strawberry Production, Pest Control, and Food Safety Outcomes in the California Central Coast <i>Olimpi EM, Garcia K, Gonthier D, Karp DS</i>	Early Stage of the Speciation Process: Two Coloration Genes Underlie Species Differences in a Pair of Capuchino Seedeaters (Sporophila) <i>Estalles MC, Campagna L, Rodriguez Cajarville MJ, Tubaro PL, Lovette I, Lijmaer DA</i>	*Grassland Bird Response to Spring Cover Crops in an Agricultural Landscape <i>Godar AJ, Annis A, Haukos D, Prendergast J</i>	Migratory Pathways, Stopover Locations, and Wintering Destinations of Flammulated Owls Breeding in Colorado <i>Linkhart BD, Yanco SW, Fox JW</i>	Identifying Functional Roles in Mixed-Species Groups <i>Vander Meiden LN, Shizuka D</i>	Stopover Ecology of Semipalmated Sandpipers in Maritime Canada <i>Hamilton DJ, Bliss S, Geldart E, Linhart R, Neima SG, Paquet J, Gratto-Trevor CL</i>
1515	Birds in Fruit Production Systems: Contexts, Outcomes, Costs, and Benefits <i>Lindell CA</i>	Signal Evolution and Morphological Complexity in Hummingbirds (Aves: Trochilidae) <i>Eliason CM, Maia R, Parra JL, Shawkey MD</i>	Using Remote Sensing of Avian Habitat to Direct Bird Conservation <i>Bonfield SB, Schimel D, Stavros N, Questad E, Schneider F, Ferraz A</i>	Full Annual Cycle Ecology of Migratory Birds in the Lower Great Lakes <i>Tonra CM</i>	Loss of a Keystone Informant Disrupts Information Cascades among Ant-Following Birds in a Tropical Forest Fragment <i>Pollock HS, Martinez AE, Kelley JP, Touchton JM, Tarwater CE</i>	Connectivity and Staging Site Pollution Effects in a Long-Distance Migratory Shorebird <i>Morrissey CA, Bianchini K, McKellar A, Newstead D</i>

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1730 – 1830 EARLY PROFESSIONAL SYMPOSIUM COOK THEATRE

Room	Summit 5	Summit 6	Summit 7/8	Summit 9/10	Summit 11/12	Summit 13/14
Session	Symposium Biodiversity Mediated Trade-offs in Agroecosystems: When Do Birds Help or Hurt Farmers? (Pejchar & Kennedy) S31	Life History & Behavior S32	Conservation S33	Migration & Stopover S34	Symposium Social Dynamics in Interspecific Interactions (Johnson & Shizuka) S35	Symposium Avian Biology and the Annual Life Cycle: Shorebirds as Models to Understand Dynamic Boundaries (Gurney & Ruthrauff) S36
1600	Predation-Mediated Ecosystem Services and Disservices in Agricultural Landscapes <i>Smith HG, Tschumi M, Birkhofer K, Ekroos J, Hjort C</i>	*Evolution of Polygyny in Weaverbirds (Family Ploceidae) <i>De Silva TN, Fernando SW, Peterson AT</i>	*Fear of Predators Influences Nestling Condition Across a Suburbanization Gradient <i>Grade AM, Warren PS, Lerman SB</i>	Satellite Tracking a Wide-Ranging Endangered Vulture Species to Target Conservation Actions in the Middle East and East Africa <i>Buechley ER, McGrady MJ, Coban E, Sekercioglu CH</i>	Effects of Non-Breeding Foraging on Mixed-Species Flocking in Florida <i>Jones HH, Walters MJ, Robinson SK</i>	How Can Habitat Degradation Push Extreme Migrants Over the Edge? <i>Chan Y, Tibbitts TL, Hassell CJ, Peng H, Piersma T</i>
1615	Insectivorous Birds Foraging in Temperate and Tropical Agricultural Lands <i>Jedlicka JA</i>	*Patterns and Causes of Tropical Montane Life Histories: An Observational and Experimental Study in Malaysian Borneo <i>Mitchell AE, Martin TE</i>	*Testing the Proposed IUCN Green List Categories and Criteria <i>Gupta G, McGowan P, Dunn J, Sanderson R</i>	Synthesis of Migration Ecology in the Gulf of Mexico Guides Species Conservation <i>Deppe JL, Benson TJ, Bolis R, Buler J, Celis Murillo A, Diehl R, Feldman R, Knight E, Langham GM, Mehlman D, Michel N, Moore F</i>	Fighting Over Food Unites the Birds of North America in a Continental Dominance Hierarchy <i>Miller ET, Bonter DN, Eldermire C, Freeman BG, Greig EI, Harmon LJ, Lisle C, Hochachka WM</i>	*Traveling as a Newbie: Migratory Strategies Linked to Survivorship in Juvenile Shorebirds in Peru <i>Tavera EA, Lank DB, Drever MC, Gutierrez-Ruiz VV</i>
1630	Vertebrate Control from Raptors Motivates Farmers to Install Nest Boxes, but is Secondary Poisoning a Concern? <i>Martinico BL, Kross SM, Hull JM, Bourbour RP, Phillips EM, Hiroyasu E</i>	*Quantifying Trade-Offs in Migration and Reproduction in Long-Distance Migratory Birds of Contrasting Life History <i>Cunningham SA, Schafer TL, Wikle CK, Ballard BM, VonBank JA, Weegman MD</i>	Saving the Red Siskin (Spinus Cucullatus): Managing New Flock Member Introductions in Captivity <i>Hill SK</i>	Messy Eaters: DNA on Dirty Talons and Beaks Reveal What a Migrating Raptor Eats <i>Bourbour RP, Hull JM</i>	Interspecific Aggression and the Evolution of Avian Mimicry in Woodpeckers <i>Leighton GM, Miller ET, Freeman BG, Lees AC, Ligon RA</i>	Within-Individual Advancement in Bar-Tailed Godwit Departure from New Zealand Does Not Lead to Earlier Arrival in Alaska <i>Conklin JR, Lisovski S, Battley PF</i>
1645	Foraging Selectivity of Insectivorous Birds in Kenyan Shade Coffee Systems <i>Kammerichs-Berke D, Johnson M, Bean T</i>	Timing is of the Essence: Later Breeding Predicts Lower Survival in American Kestrels (Falco Sparverius) <i>Callery KR, Smallwood JA, Eschenbauch AL, Luttmann ER, Heath JA</i>	*Conservation of Tidal Marsh Sparrows in an Urban Setting Referencing Range Wide Nesting Occurrence <i>Kocek AR, Elphick CS, Hodgman TP, Kovach AI, Olsen BJ, Ruskin KJ, Shriver WG, Cohen JB</i>	Winter Ecology and Spring Migration Timing of Swainson's Thrush Using Forest and Shade Coffee Plantations in Colombia <i>Hobson KA, Gonzalez, Prieto AM, McElaney S, Bayly N</i>	Social Dominance Hierarchies among Species and Their Consequences for Behaviour, Ecology and Evolution <i>Martin PR</i>	Declines in Eastern Canada Piping Plovers: Are Overwintering Grounds the Key to Conservation? <i>Gratto-Trevor CL, Rock J, Shaffer F</i>
1700	Panel Discussion	*Loggers in Artificial Eggs Reveal Scarlet Macaw Incubation in Natural and Artificial Nests <i>Woodman CJ</i>	Integrating Genetic, Population Monitoring, and Climate Data to Inform Conservation of a Declining Migratory Bird <i>Saracco JF, Ruegg KC, Harrigan RJ, Taylor CM, Rubenstein M</i>	Population-Level Importance and Migratory Connectivity of a Shorebird Staging Site in the Midcontinental Flyway <i>Howell JE, McKellar AE, Espie RH, Bianchini K, Morrissey CA</i>		Linking Demographic Rates to Population Trends in Six Species of Arctic-Breeding Shorebirds <i>Weiser EL, Sandercock BK, Lanciot RB, Brown SC</i>
1715		Application of a Novel Nest Density Estimator: An Example Using Sagebrush-Steppe Songbirds <i>Reintsma KM, Berkeley LI, Dreitz VJ</i>	Response of a Southern California Riparian Bird Community to Habitat Destruction by the Invasive Kuroshio Shot Hole Borer <i>Kus BE</i>	Idiosyncratic Changes in Spring Arrival Dates of Pacific Northwest Migratory Birds <i>Robinson WD, Partipilo C, Hallman TA, Fairchild K, Fairchild J</i>		Environmental Drivers of Annual Survival and Site Fidelity of Lekking Great Snipe in Norway <i>Sandercock BK, Saether SA, Kalas JA</i>

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Thursday, Late Afternoon Session

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Room	Atwood Hall	Cook Theatre	Summit 1	Summit 2	Summit 3	Summit 4
Session	Genomics & Systematics S61	Behavior S62	Symposium Cross-Pacific Migration: How the Impossible Becomes Commonplace (Ruthrauff & Gill) S63	Symposium Molecular Ecology is for the Birds: Using Molecular Techniques to Advance Our Understanding of Avian Ecology (Jusino & Lorenz) S64	Conservation S65	Migration & Stopover S66
1600	Identifying and Characterizing Transposable Element Polymorphisms in the Northern Flicker (<i>Colaptes Auratus</i>) Species Complex <i>Hruska JP, Manthey JD</i>	*Provisioning Coordination Increases with Mate Familiarity in a Long-Lived Pelagic Seabird, the Manx Shearwater <i>Tyson CW, Gillies N, Guilford T, Hull JM</i>	Migratory Patterns of Sooty Shearwaters (<i>Ardenna Grisea</i>) Across the Pacific Ocean <i>Shaffer SA, Harrison A</i>	Detecting Ecosystem Services from Insectivorous Birds <i>Jedlicka JA</i>	*Where in the World Are Migratory Birds Declining During the Annual Cycle? the Winter Survival of a Near Threatened Shorebird in South America <i>Herbert JA, Mizrahi D, Taylor CM</i>	
1615	Immigration May Decouple Heterozygosity and Inbreeding in Declining Populations of Florida Scrub-Jays <i>Nguyen TN, Chen N, Bowman R, Fitzpatrick JW, Clark AG</i>	Investigating the Role of Avian Vocalizations as 'Magic Traits' Using On-Bird Sensors <i>Tarango CA, Sillett TS, Gomez AJ, Fitzpatrick JW</i>	*Demographic and Distributional Responses by Long-Distance Migratory Shorebirds to the Rapid Loss of Staging Habitat <i>Chan Y, Lok T, Chung SS, Tibbitts TL, Hassell CJ, Piersma T, Zhang S</i>	Using Molecular Techniques to Study the Diets and Gut Microbiota of Migratory Birds <i>Trevelline BK</i>	*What Factors Influence Nest Survival of the Endangered Yellow-Headed Amazon? <i>Tarazona-Tubens FL, Britt CR, Abadi F, Desmond MJ</i>	Movement and Distribution of Red Knots (<i>Calidris Canutus</i>) in the Southeastern U.S <i>Tuma ME, Powell AN</i>
1630	Phylogeny of the Hawaiian Thrushes (<i>Myadestes</i>) Based on UCE and Mitochondrial DNA Sequences <i>Fleischer RC, McInerney N, McIntosh CE, Sonsthagen SA, Olson S, James H</i>	Hierarchical Fear: Predation Risk Has Direct and Indirect Effects on Nestling Growth and Stress <i>de Zwaan DR, Martin K</i>	Cross-Seasonal Interactions: The Pacific as the World's Greatest Theater of Bird Migration <i>Piersma T</i>	Using Box-Nesting Birds to Explore Methods in Studying Developmental Immunity and Gut Microbiota <i>Knutie SA</i>	Effects of Translocation on Burrowing Owl (<i>Athene Cunicularia</i>) Survival, Fidelity, and Nesting Rates in Arizona <i>Doublet D, Desmond MJ, Johnson DH, Abadi F</i>	Movement Patterns and Habitat Use of Endangered Whooping Cranes During Migration Through Canada's Oil Sands Mining Region <i>Bidwell MT, Conkin JA, Ball J, Brandt DA, Harrell W, Kindopp R, Metzger K, Pearse AT, Wiacek R</i>
1645	Reconciling the Mitonuclear Compatibility Species Concept with Rampant Mitochondrial Introgression <i>Hill GE</i>	Increased Predator Density Changes Nest Attendance Behavior of Yellow-Headed Blackbirds (<i>Xanthocephalus Xanthocephalus</i>) <i>Harms TM, Behrens C, Ruff ZJ, Dinsmore SJ</i>		Anthelmintic Drugs Modulate the Acute Phase Immune Response but Not the Microbiome in Wild Song Sparrows <i>Vaziri GJ, Jusino MA, Brewer MT, Adelman JS</i>	Landscape Matrix and Species Traits Mediate Avian Responses to Forest Fragmentation <i>Kennedy CM, Marra PP</i>	Revisiting Red-Winged Blackbird Migration: Fine-Scale Temporal and Spatial Movements of Individuals Across Annual Migration <i>Eshleman MA, Klug PE, Greives TJ, Gillam EH</i>
1700	The Common Yellowthroat Genoscape- a Genomic Approach to Delineating Conservation Units <i>Bossu CM, Rajbhandary J, Smith TB, Ruegg KC</i>	Parental Behaviors Mediate the Effects of Bird Blow Fly Ectoparasitism on Nestling Wood Thrushes in Suburban Forests <i>Straley KM, Warren PS, King DI</i>		Assessing the Relationship Between Multiple Paternity and the Cloacal Microbiome in Female Tree Swallows <i>Hernandez J, McGlothlin JW, Belden LK, Moore IT</i>	*Demographic Consequences of Road Mortality to Snowy Plovers at Gulf Islands National Seashore, FL <i>Durkin MM, Cohen JB</i>	Age-, Sex-, and Size-Related Differences in the Distribution of Migrating Landbirds on the Northern Gulf Coast <i>Calderon LN, Zenzal Jr TJ, Barrow W, Wilson B, Buler JJ</i>
1715	A Genomic Investigation of the Potential Despeciation of Deeply Divergent Lineages in a Malagasy Passerine <i>Perry NL, Block NL, Younger JL, Raheirilalao M, Goodman SM, Reddy S</i>	Testing the Social Intelligence Hypothesis in Wild Birds <i>McCune KB, Jablonski P, Lee S, Ha RR</i>		Panel Discussion	When Prioritizing Regions for Migratory Bird Habitat Conservation, Quantifying Costs Can Supersede Parametrizing a Population Model <i>Stanton Jr RA, McGowan CP, Robinson OJ</i>	*Assessing the Potential for Using Weather Radar to Predict Bird Collisions <i>Elmore JA, Horton KG, Riding CS, O'Connell TJ, Loss SR</i>

Thursday, Late Afternoon Session

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Room	Summit 5	Summit 6	Summit 7/8	Summit 9/10	Summit 11/12	Summit 13/14
Session	Human Dimensions & Policy S67	Symposium Undergrad Symposium S68	Urban Ecology S69	Symposium Permeable Boundaries in Biological and Social Sciences: Human Dimensions in Bird Research and Conservation (Naves et al.) S70	Morphology & Molt S71	Symposium Lessons from Avian Hybrid Zones and the Maintenance of Species Boundaries (Aguillon et al.) S72
1600	*Wedge-Tailed Shearwater Persistence in Human-Dominated Areas <u>Idle JL, Friswold BM, Harmon KC, Price MR</u>	*Development, Not Bird Feeders, is Associated with Increased Occupancy of Northern Cardinals in Northern Michigan <u>Toner SM, Bonter DN</u>	*Investigating the Influence of Polarized Light and Artificial Night Lighting on Bird-Building Collisions <u>Lao S, Anderson AW, Blair RB, Eckles JW, Robertson BA, Turner RJ, Loss SR</u>	*Aspects of Municipalities Associated with Occupancy and Abundance of Chimney Swifts in Illinois <u>Hurd ML, Benson TJ, Ward MP</u>	The Role of Diet and Nesting in Bill Shape Diversification of Frugivorous Asian Barbets <u>Krishnan A, Souza N, Reddy S</u>	Hybridization in Northern Flickers Reveals Loci Associated with Feather Coloration <u>Aguillon SM, Lovette IJ</u>
1615	If You Build It, They Will Come: Avian Utilization and Predation at a Large-Scale Photovoltaic Solar Facility <u>Griffiths JL, Meade DE, Dart JD</u>	*Integrating Machine Learning and Citizen Science Data to Generate High-Performing Species Distribution Models for the Globally Vulnerable Gray Tinamou (Tinamus Tao) <u>Wiebe RA</u>	Urbanization and Elevated Cholesterol in American Crows <u>Townsend AK, Staab H, Barker CM</u>	Cross-Cultural Considerations in Wildlife Management and Conservation <u>Leonetti CC</u>	Glare Reduction Properties of Dark Avian Facial Markings <u>Lebow CK, Burt DB</u>	Cardinals Are Red, Buntings Are Blue; Because They Hybridize, They're Interesting Too! <u>Megna LC, Carling MD</u>
1630	Year-Round Monitoring Reveals a Unique Seasonal Pattern of Bird-Window Collisions Along the Pacific Coast of North America <u>De Groot KL, Porter AN, Norris AR, Huang AC</u>	*Modeling Persistent Effects of West Nile Virus on Avian Population Dynamics in the Northeastern United States <u>Dupont GL, Bonter DN, Robinson OJ</u>		Sustainability in Long-Term Collaborations: The Harvest Assessment Program of the Alaska Migratory Bird Co-Management Council <u>Naves LC, Fall J, Tulik C, Pederson M, Keating JM, Fischer J, Schwalenberg P</u>	Evolution of Molt-Migration: a Large-Scale Phylogenetic Approach <u>Pageau C, Reudink MW</u>	Sex Chromosome Inversions May Enforce Reproductive Isolation Across an Avian Hybrid Zone <u>Hooper DM, Griffith SC, Price TD</u>
1645	Engaging Undergraduate Students in an Authentic Course-Based Research Experience Using Archived Nest Video Footage <u>Stracey CM</u>	Panel Discussion	Relationships Between Local- And Landscape-Scale Management and Urban Bird Communities Across Six Major Metropolitan Areas: Do Yards Matter? <u>Narango DL, Lerman SB, Hall SJ, Hobbie SE, Neill C, Trammell TL, Groffman P</u>	Banding Together to Learn and Preserve: 25 Years of Research in Cross-Cultural Western Alaska <u>Ely CR</u>	Molt-Migration in the Mexican Monsoon: 90 Years of Specimens Reveal a Phenological Mismatch Caused by Anthropogenic Climate Change <u>Terrill RS, Tsai WL, Maley JM, Rohwer S, Pimm G, McCormack JE</u>	Genomic and Morphological Approaches to Understanding Speciation in Jamaican-Endemic Streamertail Hummingbirds <u>Judy CD, Brumfield RT, Graves GR</u>
1700	Engaging with Veterinarians to Reduce Cat Overpopulation and Cat Impacts on Wildlife Populations <u>Sherwood LJ, Wilson AG, South CS, Roche SM, Luszczyk TM</u>		Songbirds Alter Their Use of Bird Feeders in Response to Vocalization Playback <u>Barron DG, Sarna SD, Middleton RL</u>	Human Dimensions Applications in Shorebird Subsistence Harvest and Indigenous Knowledge in Alaska <u>Keating JM, Naves LC, Tibbitts TL, Ruthrauff DR</u>	Simultaneous Rectrix Molt and Comparative Molt Ecology of Eastern Wood-Warblers <u>Mumme RL, Mulvihill RS</u>	Ancient and Contemporary Hybridization Amongst Wood Warblers <u>Toews DP, Taylor SA, Streby H, Kramer G, Brennan C, Jones A, Lovette IJ</u>
1715	Evaluating Bird Feeders as Tools to Connect People with Nature, and Challenges Associated with Middle School Interventions <u>Hammond RL, Theimer TC</u>		*Effects of Habitat Type on Provisioning Florida Burrowing Owl Space Use and Movements <u>Rose EH, Boughton RK</u>	Panel Discussion <u>Daye A</u>	Bill Size Evolution in Response to Human-Mediated Ecological Change in a Tidal Marsh Songbird <u>Benham PM, Bowie RC</u>	Assessing Assortative Mating in Hybrid Zones <u>Scordato ES</u>

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COFFEE BREAK

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COFFEE BREAK

Friday, Late Afternoon Session

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Room	Arteaga Theatre	Cook Theatre	Summit 1	Summit 2	Summit 3	Summit 4
Session	Conservation S97	Symposium Long-term Studies of Cavity-nesting Birds: Windows into Environmental Change (Duckworth & Fair) S98	Migration & Stopover S99	Symposium Seabirds on the Edge of Two Worlds: Ecology and Conservation of Brachyramphus Murrelets in Marine and Terrestrial Environments (Rivers & Kissling) S100	Genomics S101	Behavior S102
1600	Site Fidelity and Pairing Behavior in a Wintering Population of American Kestrels in North Texas <u>Biles KS, Bednarz JC</u>	Long-Term Dynamics of Tree-Cavity-Nesting Communities in Temperate and Subtropical Forests	Global Trends in Avian Partial Migration: a Meta-Analysis <u>Zavaleta ES</u>	Breeding Season Movements and Marine Habitat Use by the Marbled Murrelet in Oregon <u>Garcia-Heras M, Adrean LJ, Nelson SK, Roby DD, Betts MG, Rivers JW</u>	Population Genomics of Greater White-Fronted Goose <u>Wilson RE, Sonsthagen SA, Ely CR, Talbot SL, DaCosta JM, Sorenson MD, Scribner KT, Weaver M, Skalos D</u>	Timing of Breeding in American Coots: Bet-Hedging Against Nest Predation When Reproductive Performance Declines with Season <u>Lyon BE</u>
1615	Life on the Edge: Density and Demography of Marsh Wrens and Seaside Sparrows in Northeastern Florida <u>Schwarzer AC, Cox WA</u>	<u>Norris AR, Cockle KL, Wiebe KL, Trzcinski MK, Edworthy AB, Martin K</u>	Migration of Buff-Breasted Sandpipers at Two Key Regions in the Mid-Continent: Northern Gulf of Mexico and the Flint Hills <u>Lyons JE, Andres BA, Penner RL, Stone K, Wolfenbarger LL</u>	Distribution and Use of Freshwater Habitats by Kittlitz's Murrelets on Lakes in the Lower Wood River Lake System, Alaska <u>Nesvacil KA, Pendleton G, Swaim M, Walsh P</u>	The Long and the Short of It: Linking Genome-Wide Signatures of Selection Across Evolutionary Timescales in Birds <u>Shultz AJ, Arnold B, Sackton TB</u>	Manipulated Sex Ratios Alter Group Structure and Cooperation in the Brown-Headed Nuthatch <u>Cox JA, Cusick JA, DuVal EH</u>
1630	Saving the Kiwikiu (Pseudonestor Xanthophrys): Recovery Efforts in Maui, Hawaii <u>Mounce HL, Farmer C, Berry L, Masuda B, Warren C, Berthold L, Duvall F</u>	Population Increases Despite Habitat Saturation: What Can We Learn from Five Decades of Research? <u>Walters EL, Hagemeyer ND, Barve S, Pesendorfer MB, Koenig WD</u>	Migratory Bird Twilight Ascent and Descent Rates Along the Southwestern Shoreline of Lake Erie <u>Wellik MJ, Kirsch EM, Sheildcastle M</u>	Seasonal Offshore Distribution and Habitat Use of Brachyramphus Murrelets in Alaska <u>Labunski EA, Kuletz K, Osnas E</u>	Comparative Genomic Structure Within Alaskan Galliforms <u>Sonsthagen SA, Wilson RE, Merizon RA, Talbot SL</u>	Helpers Mitigate Negative Effects of Predation Threat in the Cooperatively Breeding Purple-Backed Fairy Wren <u>Meyer DK, Kinnebrew E, Pruett-Jones S, Johnson AE</u>
1645	Forest Area Required to Support Landbird Population Goals for the Mississippi Alluvial Valley <u>Twedt DJ, Mini A</u>	Consequences of Long-Term Habitat Change and Resource Selection for Population Limitation in Cavity-Nesting Birds <u>Martin TE</u>	Migratory Behavior of the Western Burrowing Owl: Connecting Canada, United States, and Mexico <u>Conway CJ, Wellicome TI, Johnson DH, Conley JL, Lundblad CG, Bruinsma DR, Fisher RJ</u>	Consistent Post-Breeding Movements of Marbled Murrelet from British Columbia to Alaska (2014-2016) <u>Bertram DF, MacDonald CA, O'Hara PD, Cragg JL, Corcoran R, Greene R, Woo K</u>		
1700	Do Piping Plovers in the Northern Great Plains Function as a Metapopulation & Why Does it Matter for Conservation? <u>Anteau MJ, Swift RJ, Sherfy MH, Toy DL, Ring MM</u>			Post-Breeding Migration of Kittlitz's Murrelets from the Gulf of Alaska to the Bering Sea and Beyond <u>Douglas DC, Piatt JF, Arimitsu ML, Madison EN, Kissling ML, Schoen SK</u>		
1715		Panel Discussion <u>Fair J</u>				

Friday, Late Afternoon Session

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Room	Summit 5	Summit 7/8	Summit 9/10	Summit 11/12	Summit 13/14
Session	Management & Policy S103	Symposium Counting Unmarked Birds: Matching Appropriate Sampling and Modeling Techniques with Particular Research Questions (Latif & Valente) S105	Symposium Wild Birds and the One Health Initiative: Dynamic Boundaries Affect the Health of Birds, Livestock, Humans, and the Environment (Ramey) S106	Symposium Translational Ecology - Producing Actionable Science (Saunders et al.) S107	Symposium The Future of Global Bird Trait Datasets: A Game-changing Resource for Macroecology, Macroevolution and Conservation Biology? (Tobias et al.) S108
1600	The NSF is Growing Pathways to STEM for Rural Community College Students via Community Partnerships and Intensive Mentoring <i>Gillespie LM, Heinisch S, Grandgenett N</i>	A General Framework to Integrate Repeated Count and Mark-Resight Data <i>Rushing CS, Hostetter NJ, Boettcher R, Lyons J</i>	It's Not Just Flowerpots and Tires: Defining the Impacts of West Nile Virus on a Woodland Bird, Ruffed Grouse	Audubon's Vision: Restoring the Gulf of Mexico for Birds and People <i>Lankford KE</i>	Responses of Bird and Plant Communities to Global Change: Coupled or Decoupled? <i>Schleuning M</i>
1615	Landscape Composition Explains High Rates of Dispersal in Translocated Lesser Prairie-Chickens <i>Berigan LA, Aulicky C, Sullins D, Haukos D, Fricke K, Reitz J, Rossi L, Schultz K</i>	The Potential of Citizen Science Data for Population Monitoring <i>Johnston AA, Strimas-Mackey ME, Hochachka WM, Robinson OJ, Ruiz-Gutierrez VV, Miller E, Auer MT, Fink D</i>	<i>Williams LM, Brown JD, Nemeth NM, Hutchinson ML, Helwig MW, Kyle AD</i>	Using Structured Decision Making to Connect Bird Monitoring to Restoration Decision-Making <i>Adams EM, Fournier AM, Lyons JE, Wilson R, Gleason JS, Brush JM, Cooper RJ, DeMaso SJ, Driscoll MJ, Frederick PC, Jodice PG, Reeves DB</i>	Avian Functional Traits and the Impacts of Climate Change on Ecosystem Function <i>Pigot AL, Trisos C, Merow C, Tobias JA</i>
1630	The Interactive Effects of Fire and Recreation on Golden Eagles <i>Davis CM, Heath JA</i>	Scaling Up by Integrating Standardized and Unstandardized, Community Science Count Data: a Case Study in the Upper Mississippi River <i>Michel NL, Meehan TD, Saunders SP</i>	Urban White Ibises Facing Trade-Offs in South Florida <i>Welch CN, Hernandez SM, Murray M, Curry SE, Kidd A, Hepinstall-Cymerman J, Lankau E, Yabsley M, Navarra K, Cummings C, Lipp E, Altizer S</i>	A Strategic Plan for Monitoring Birds in the Gulf of Mexico: Translating Stakeholder Values into Priorities <i>Fournier AM, Lyons JE, Wilson R, Gleason JS, Adams EM, Brush JM, Cooper RJ, DeMaso SJ, Driscoll MJ, Frederick PC, Jodice PG, Reeves DB</i>	How Trait Data Help Improve Avian Biodiversity Forecasts Under Global Change <i>Zurell D</i>
1645	Duration of Corvid Response to Forest Restoration Thinning: Implications for Conservation of the Threatened Marbled Murrelet <i>Hagar JC, Waianuhe LK</i>	Designing a Bird Survey for Latin America: The PROALAS Protocol in EBird <i>Ruiz-Gutierrez VV, Lello-Smith A, Ortega Alvarez R</i>	Lessons Learned from Research and Surveillance Directed at Highly Pathogenic Influenza Viruses in Wild Birds of North America <i>Ramey AM, DeLiberto TJ, Berhane Y, Swayne DE, Stallknecht DE</i>	Golden-Winged Warbler Conservation: Using Science to Take Action <i>Fowle MR, LaBarr MS, Barker SE</i>	The Impacts of Diversity and Assembly History on Community Vulnerability <i>Weeks BC, Tobias JA</i>
1700	Effective Multi-Scale Governance for Migratory Shorebirds: Lessons from the EAAF and an Australian Wetland Site <i>Hamman EV</i>	Panel Discussion		An Assessment of Ecological Value and Vulnerability in the Bering, Chukchi, and Beaufort Seas <i>Smith MA, Goldman M, Knight E, Sullender B</i>	Panel Discussion
1715			Panel Discussion	Synthesizing Full Annual Cycle Science and Threats to Drive Conservation and Policy Actions for North American Migratory Birds <i>Deppe JL, Auer T, Knight E, Langham GM, Marra P, Mackenzie S, Rosenberg K, Smith M, Taylor L</i>	