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)	Symposium: Breaking Through Biases: What We've Learned From Female Birds (Odom)	Phylogenetics, Phylogeography	Songs, Vocalizations	Biogeography	Birds & Agriculture
1030	Evidence for Massive Decline in the North American Avifauna Rosenberg KV. Dokter AM, Blancher PJ, Sauer JR, Smith AC, Smith PA, Stanton JC, Panjabi AO, Helft L, Parr M	Extra-pair Copulations in Passerines: Why Females Matter Stutchbury BJ	*Evolution of Migration in the Nightingale-thrushes (Turdidae: Catharus) Inferred Via Morphometric and Phylogenetic Analysis Halley MR, Klicka J, Catanach TA, Weckstein JD	It's the Same Old Song: Benefits of Song Dialects in the Lapland Longspur Montgomerie RD, Cox A, Mullie A	Climate Delineates the Northern Range Boundary of the Northern Cardinal Miller CR, Porter WP, Fitzpatrick MJ, Zuckerberg B	*GPS-tracking Reveals Selection for Prairie Ponds By Tree Swallows in Cropland-Dominated Landscapes Elgin AS, Morrissey CA, Clark RG
1045	Decline and Survival of North America's Migratory Avifauna Determined By a Weather Radar Network Dokter AM	Female Bird Songs The Other Half of the Conversation Benedict Ln, Hathcock T, Najar N, Mitchell L, Cavar J, Logue D	Multiple Hybrid Zones in a Widespread Amazonian Bird Reveal Different Evolutionary Processes Moncrieff AE, Brumfield RT	Behavioral Landscape of 'Oma'o Vocalizations in a Naturally Fragmented Habitat Netoskie EC, Paxton KL, Paxton EH, Hart PJ	Montane Biogeography and the Evolution of Disjunct Ranges: a Case Study in the Diglossa Flowerpiercers Hiller AE, Brumfield RT, Faircloth BC	*Impact of Wildfires On Barn Owl Habitat Selection in a Vineyard Agroecosystem in Napa Valley Huysman AE, Johnson M
1100	Grassland Bird Declines: How Can We Stop the Downward Spiral? Panjabi AO, Correll M, Strasser EH, Bernath-Plaisted J, Beh A, VerCauteren TL	Female Preferences Shape Elaborate Male Displays and Social Skills On the Lek Patricelli GL	Fine-scale Genetic Population Structure of an Understory Bird (Thamnophilus Atrinucha) Across the Panama Canal Zone Maddox JD, Kelley JP, Tarwater CE	*Behavioral and Spectrographic Analysis of Chatter: A Novel Vocalization in Northern Mockingbirds Brown BB, Stracey C	Diversification and Biogeography in an Indo-Pacific Bird Radiation (Pachycephalidae) Brady SS, Joseph L, Moyle RG, Andersen MJ	Does a "Sonic Net" Protect Sunflower From Damage By Blackbirds? Werrell AK, Klug PE, Swaddle JP
1115	Volunteer-led Surveys Document 40-years of Shorebird Declines Across North America Smith PA, Smith AC, Brown S, Friis C, Paquet J, Winn B, MacDonald A	Habitat Saturation Drives the Frequency of a Rare Behavior in the Females of a Social Bird Barve SS, Koenig WD, Haydock J, Walters EL	Comparative Phylogeography of Amazonian Riverine Island Birds Johnson O, Brumfield RT	*Repertoire Size and Individual Variation in Vocalizations of '=Oma'o (Myadestes Obscurus) an Endemic Hawaiian Thrush Tysall EE, Paxton KL, Netoskie E, Paxton E, Hart PJ	*Patterns and Mechanisms of Heterogeneous Breeding Distribution Shifts in North American Migratory Birds McCaslin HM, Heath JA	Quantifying Multiple-benefits of Bird Conservation in the Agricultural Mosaic of California's Central Valley Seavy NE, Humple D
1130	Conservation of Boreal Birds: Status, Trends, and Data Gaps Toms JD, Solymos P, Stralberg D, Barker NK, Micheletti T, Leston L, Hache S, Cumming S, Song S, Schmiegelow F	Migratory Landbird Conservation Compromised By Failure To Address Sexual Segregation Bennett RE, Rodewald AD, Rosenberg KV	Contrasting Drivers of Diversity and Turnover in Andean Birds and Their Parasites McNew SM, Barrow LN, Bates JM, DuBay SG, Galen SC, Hackett SJ, Johnson AB, Skeen H, Valqui T, Jason WD, Williamson JL, Witt CC	Deep Convolutional Neural Network To Detect Forest Owls of the Pacific Northwest Lesmeister DB, Ruff ZJ, Sullivan CM	Is Specialism an Evolutionary Dead-end? Estimates of Transition Rates Between Generalism and Specialism in a New World Clade Conway M, Olsen BJ	Estimating the Effect of Prairie Strips On Grassland Birds Giese JC, Schulte LA, Klaver RW
1145	Songbirds of the Sagebrush Sea: Declines and Mechanisms Chalfoun AD, Sanders L, Scherr T, Hethcoat M	Elaborate Female Coloration and Song: Diverse Perspectives Lead To a More Comprehensive Understanding of Avian Biology Omland KE, Rose EM, Haines CD	Resolving Difficult Nodes in Manakin Phylogeny Using Low-coverage Whole Genome Sequencing Braun EL, White ND, Kimball RT, Moncrieff AE, Zhao M, Kurtis SM, Brumfield RT LUNCH BRE	*Sex and Species Divergence in Vocalizations Between Role-reversed Shorebirds, Jacana Spinosa and Jacana Jacana Buck EJ, Lipshutz SE, Derryberry EP	Cryptic Bird Species On a Remote Archipelago of the Pacific Ocean Cibois A, Thibault J, Friedman NR, Omland KE, Desutter-Grandcolas L, Robillard T, Pasquet E	Comparing Land-sparing and Land-sharing Conservation Approaches in a Coffee-growing Region With High Avian Biodiversity Valente JJ, Ryder TB, Rice RA, Gómez C, Bayly NJ, Sillett TS, Marra PP

Wednesday, Morning Session *indicates student presenters eligible for AOS presentation award

Room	Summit 5	Summit 6	Summit 7/8	Summit 9/10	Summit 11/12	Summit 13/14
Session	Symposium: Assessing the Cumulative Effects of Resource Development On Migratory Birds in Northern Boreal Regions (Mahon)	Sexual Selection	Conservation, Population Dynamics	Movements & Dispersal	Habitat Relationships	Population Biology
1030	Soaring To New Heights: Analytical Approaches for Cumulative Effects Assessment for Migratory Birds Pelech SA, Mahon CL, Lowry N	Can Male Zebra Finches Perceive Their Own Quality and Adjust Mate Choice Accordingly? Martin JO, Chien E, Henson KE, Burley NT	*Cutting Out Without Losing Out: Subsampling Soundscapes for Long-term Avian Biodiversity Monitoring Eiseman JP, Vonhof MJ, Gill SA	*Effects of Source Population and Release Strategy On Reintroduced Scaled Quail Mortality and Dispersal Ruzicka RE, Doherty, Jr PF, Rollins D	*Shrub Encroachment Alters Distributions and Demography of Breeding Birds in Semiarid Grasslands Andersen EM, Steidl RJ	*Growth of Two Atlantic Coast Piping Plover Populations Weithman CE, Robinson SG, Hunt KL, Altman J, Bellman HA, DeRose-Wilson AL, Walker KM, Fraser JD, Karpanty SM, Catlin DH
1045	Understanding Cumulative Effects for Land Management in Alberta: Models and Applications Solymos P, Toms JD, Bayne EM	Experimentally Increasing Perceived Competition for Nests Reduces Female Reproductive Performance and Extra-pair Offspring Murphy TG, Korsten P, Birker M, Marfull R, Komdeur J	Spatial Models To Facilitate Broad-Scale Conservation of Breeding Habitat for Secretive Marsh Birds Stevens BS, Conway CJ	*A Burning Question: Does Personality Predict How Pre-breeding Florida Scrub-Jays Explore Habitat in a Fire History Mosaic? Sherer DL, Bohlen PJ, Bowman JR	*Are We Sure About Shearing? Evaluating the Impact of a Widely Used but Poorly Assessed Habitat Management Practice Buckardt Thomas AC, Roth AM, McNeil Jr DJ, Johnson K, Rodewald AD, Larkin JL	Population Demographics, Breeding Ecology, and Responses To Grazing of Montana Sagebrush Steppe Songbirds Dreitz VJ, Ruth K, Berkeley L
1100	Additive and Interactive Cumulative Effects On Boreal Landbirds: Winners and Losers in a Multi-stressor Landscape Mahon CL, Holloway GL, Bayne EM, Toms JD	Male Red Carotenoid Coloration Indicates Mitochondrial Performance in the House Finch Hood WR, Hill GE, Kavazis AN, Zhang Y	A Bayesian Network Approach for Improved Seasonal Distribution Models of Long-distance Migratory Passerines Using Tyrannus Flycatchers MacPherson MP	Long-term Dynamics of Breeding Dispersal Distances By Adult Northern Spotted Owls Jenkins JM, Lesmeister D, Forsman E, Dugger K	Restoration Success: Avian Richness and Abundance Among 1,000 Acres of Restored San Francisco Bay Tidal Marsh Habitat, Based On Point Count Surveys That Employ Citizen Scientists Edelstein D	Population Genomics of Hawaiian House Finches (Haemorhous Mexicanus): Investigating Genetic Variation of an Introduced Population Demery AC, Edwards S, Shultz AJ
1115	Community-level Response To Cumulative Effects of Forestry and Energy Development Toms JD, Carpenter TM	Infanticide and Adoption in the Green-rumped Parrotlet: Killing Cavities, Remorseless Rogues and Betrayed Saints Beissinger SR, Berg KS	Contrasting Long-term Population Trends of Beach-nesting Shorebirds Under Shared Environmental Conditions Kwon EB, Robinson S, Weithman C, Fraser JD, Karpanty SM, Catlin DH	Does Experimental Local Extinction of a Flowering Plant Affect Hummingbird Movement Patterns? Leimberger KG, Hadley AS, Betts MG	*Post-fire Nest Site Selection and Survival of Black-backed Woodpeckers Stillman AN, Siegel RB, Wilkerson RL, Johnson M, Howell CA, Tingley MW	*Using Integrated Models To Identify Ecology and Population Dynamics of a Threatened Arctic Species Dunham KD, Abebe A, Dobson SF, Koons DN, Grand JB
1130	Adverse Effects of Climate Change On Boreal Bird Communities Accentuated By Natural and Anthropogenic Disturbances Tremblay JA, Cadieux P, Boulanger Y, Cyr D, Taylor AR, Price DT, Solymos P, Stralberg D	Within-pair Annual and Lifetime Reproductive Success Drives the Opportunity for Sexual Selection in Black-throated Blue Warblers Germain RR, Hallworth MT, Sillett TS, Webster MS	*Investigation of Population Change in a Hurricane Affected Piping Plover Population Robinson SG, Gibson D, Fraser JD, Bellman HA, DeRose-Wilson AL, Karpanty SM, Walker KM, Catlin DH	Habitat Use and Foraging Flights of Roseate Spoonbills in Florida Bay Lago EA, Baldwin JD, Lorenz JJ	*Identifying Critical Nesting Habitat for Ducks in Alberta's Western Boreal Forest Dyson ME, Slattery SM, Fedy BC	Population Dynamics of a Long-distance Migratory Passerine At the Edge of Its Range Murphy MT, Redmond LJ, Dolan AC, Cooper NW, Chutter CM, Cancellieri S
1145		Associations of the Cloacal Microbiome With Sexual Ornamentation, Condition, Sex and Habitat in Molting House Finches Hutton P, Giraudeau M, Sepp T, McGraw KJ	Road Mortality in Barn Owls: Identifying Temporal and Spatial Hotspots in the Fraser Valley of British Columbia Krebs EA, Hindmarch SR, Powers G	The Allometry of Movement and Connectivity of Bird Communities Hartfelder J, Fletcher RJ, Reynolds C, Monadjem A, McCleery R	Persistence in a Changing Landscape: Recurring Bird Concentration Areas On Alaska's Arctic Coastal Plain Sullender BK, Smith MA	Using Museum Specimens To Investigate Fitness Variation Across Avian Hybrid Zones Dougherty P.J., Carling MD, Fossberg SL

Wednesday, Early Afternoon 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)	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)	Phylogeography	Symposium: Species Limits in Birds: Integrative and Practical Considerations for Taxonomy (Winker & Rasmussen)	Climate	Breeding Biology
1400	American Seabirds: A Review of Status, Threats, and Conservation On Land and At Sea Nevins HM, Goyert H, Keitt B, Wiedenfeld D	Model-based Vulnerability Assessment of Boreal Birds in a Changing Climate Bateman BL, Wu J, Wilsey C, Taylor L, LeBaron G, Langham G	Genomic Signatures of Pleistocene Dry Forest Connections in a Widespread South American Songbird Corbett EC, Bravo GA, Schunck F, Naka LN, Silveira LF, Edwards SV	Integrative Approaches To Species Delimitation in Birds Cicero C, Mason NA, Jimenez RA, Wait DR, Wang-Claypool CY, Bowie RC	Validating Climate Suitability Projections: Community Science Reveals That Birds Track Their Ecological Niche in Summer and Winter Saunders SP, Michel NL, Bateman BL, Wilsey CB, Slavin Z, Dale K, LeBaron G, Langham GM	Can Nest Concealment in Wood Thrushes Predict Reproductive Success? Israel AM, Stutchbury BJ
1415	Waterfowl in North America ÂĂŤ A Successful Story of Partner-based Conservation and Regulated Harvest Brasher MG, Moorman TE	Ecological Niche Modeling and Potential Implications for Alaskan Birds Under 2 Textdegree C Warming Wu JX, Bateman B, Wilsey CB, Taylor L, Langham G	Using Ancient DNA From Fossils To Place an Extinct Flightless Bird Genus in a Phylogenetic Context Oswald JA, Allen JM, Folk R, Stucky B, Steadman DW, Guralnick R	Revisionist History - Towards Comparable Species Across Avian Taxonomy Bates JM, Reddy S	Climate Change Threatens a Songbird Population Through Its Impacts On Breeding Bonnot TW, Cox WA, Thompson FR, Millspaugh JJ	Nest Survival, Predator Assemblage, and Patterns of Predation At Veery (Catharus Fuscescens) Nests in a Mature Forest Goguen CB, Murray LD
1430	Contrasting Regional and Range-wide Trends Inform Causes of Decline: Case Study With the Red-cockaded Woodpecker and Associated Pineland Birds Walters JR, Rosenberg KV, Sauer JR	Detecting Shifts in the Phenology and Distribution of Bird Assemblages On the Kenai Peninsula, Alaska in a Changing Climate Magness DR, Eskelin T	Comparative Phylogeography of Four Lowland Forest Birds Distributed Across the Dahomey Gap of West Africa Huntley JW, Sweet P, Hibbitts T, Arame H, Adite A	Genoscapes & Species Limits - Lessons From the Last 5 Years Ruegg KC, Smith T, Bossu C, Rajbandary J	*Contrasting Demographic Responses of Eastern Bluebird Populations To Climatic Variability Harrod SE, Rolland V	*Viewing Habitat Through Another Lens: Bird Nest-site Selection and Productivity Across the Beach Thermal Landscape Schaale LE, Baxley JB, Pricope NG, Danner RM
1445	State of Population Trend Monitoring for North American Birds Michel NL, Smith AC, Hudson MR, Sauer J	Present and Future Distribution and Abundance of Aerial Insectivores in the Northwest Using Climate and Landcover Stehelin TE, Schmiegelow FK	*Comparative Genomics Reveal Modes of Differentiation in North American Warm Desert Birds Provost KL, Shue S, Forcellati M, Smith BT	The Utility and Significance of Population Genomic Data in Assessing Avian Species Limits Sorenson MD	Climate Warming Reduces Population Growth and Recruitment Rates Over 30 Years in an Afrotropical Bird Community Neate-Clegg MH, Stanley TR, Sekercioglu CH, Newmark WD	*Intraspecific Variation and Adaptive Significance of a Little-known Life-history Trait, Laying Interval Length, Along a Latitudinal Gradient Lundblad CG, Conway CJ
1500	Are Declines in Migratory Bird Species More Closely Associated With Breeding Or Wintering Locations? Sauer JR, Rosenberg KV, Marra PP, Link WA	Conservation of Kirtland's Warbler in a Changing World Ribic CA, Brown DJ, Donner DM, Bocetti CI	*The Genetics of Adaptation and Diversification of the "Great Speciators," the Wallacean Zosterops Bloch LM, Irham M, Haryoko T, Claypool-Wang C, McGuire JA, Rowe K, Bowie RC	The Past and Future of 'benchmark' Systems for Delimiting Bird Species Tobias JA	Climate, Storm-petrels, and Chick Growth Mauck RA, Huntington CE, Haussmann MF, Dearborn DC, Ricklefs RE	Macroevolutionary Dynamics of Egg Colour and Patterning Sheard CE, Street SE, Troisi C, Clark A, Healy SD, Laland KN
1515	Addressing Population Declines With Full Annual Cycle Models: Current Advances and Data Needs Joos CJ, Rushing CS	The Influence of Climatic Dipoles On Irruption Dynamics in a Warming World Zuckerberg B, Strong C, LaMontagne J	Testing the Causes of Speciation With Gene Flow in a Neotropical Avian Species Pair (Pachyramphus Aglaiae) Musher LJ, Galante P, Blair M, Huntley J, Thom G	Endless Forms Less Beautiful: Relevance of Morphological Analyses To Integrative Taxonomy of Asian Prinia Species Complexes Rasmussen PC, Alstrom P, Olsson U	Using Big Data To Assess the Vulnerability of North American Birds To Climate Change Bateman BL, Wilsey C, Taylor L, Wu J, Langham G	*To Kill a Mockingbird: the Combined Effects of Two Radically Different Parasites Herman JM, Fiorini VD, Crudele I, Reboreda JC, Pladas SA, Bush SE, Clayton DH
			LUNCH BRE	AK		

Wednesday, Early Afternoon Session *indicates student presenters eligible for AOS presentation award

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

Wednesday, Late Afternoon 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)	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)	Phylogenetics	Symposium: Species Limits in Birds: Integrative and Practical Considerations for Taxonomy (Winker & Rasmussen)	Climate	Abundance, Occupancy, Trends
1600	Pesticide Exposure and Effects On Migratory Songbirds: Past and Current Threats Morrissey CA, Eng M, Stutchbury B, Stanton R, Clark R	Forecasting Avian Responses To Climate-mediated Increases in Fire Activity Across the Northwestern Boreal Forest Matsuoka SM, Sólymos P, Breen AL, Handel CM, Rupp TS, Mahon CL, Kurkowski TA	Genomic and Phenotypic Divergence in Red Warblers (Cardellina Rubra) Tsai WL, White E, Maley JM, McCormack JE	Australo-Papuan Perspectives On Unravelling Tangled Knots On Branches of Species Trees? Joseph LG	*Characterizing a Century of Species Losses in an Isolated Tropical Forest Fragment Curtis JR, Robinson WD, Rompré G, McCune B	EBird Status and Trends: Species Distributions and Population Trends With Citizen Science Data Fink D, Auer T, Johnston A, Strimas-Mackey M, Iliff M, Robinson O, Petersen B, Kelling S
1615	Determining the Role of Human-caused Bird Mortality in the Collapse of the North American Avifauna Loss SR	Simulating the Effects of Climate On Fire Regime & Vegetation: Implications for Woodland Caribou & Boreal Landbird Communities Hache SA, Micheletti T, Stralberg D, Cumming S, McIntire E, Tremblay J, Leblond M, Marchal J, Raymundo Sanchez A, van Telgen M	A Phylogenomic Tree of Screech-Owls: Elucidating the Evolution of Color Polymorphism and Its Ecological Correlates Kurtis SM, Owens HL, Oswald JA, Hosner PA, Guralnick R, Allen J, Ku M, Braun EL, Kimball RT	Coalescent-based Species Delimitation in Avian Taxonomy: History, Promise, and Pitfalls Mason NA, Fletcher NK, Gill B, Funk C, Zamudio K	Dominance in Hummingbird Communities: an Alternative Way To Visually Represent It Ortiz-Pulido R	Combining BBS and PIF Population Data To Estimate Recent Changes in Illinois' Total Bird Population Herkert JR
1630	Limitations To Predicting the Future of Climate-driven Bird Declines Tingley MW	Conservation Lessons From the Study of Boreal Birds At Their Southern Periphery Ralston J, DeLuca WV	Phylogenomics of the Parrots of the World Smith BT, Brumfield R, Ferreira M, Mauck W, Merwin J, Wright T, Joseph L	The Genomic Revolution and Species Delimitation in Birds: Gene Flow Matters, but What About Other Evolutionary Forces? Cadena C	Plague Management On Prairie Dog Colonies Maintains Habitat for Grassland Passerines and Raptors Conrey RY, Tripp DW, Youngberg EN, Panjabi AO	Results From a Decade of Banding Yellow Rails in Oklahoma and Texas Butler CJ
1645	Migratory Bird Policies: Changes, Threats and Opportunities for Action Senner SE	A Synthesis of Climate Change Impacts On Boreal Bird Communities in Managed Landscapes of Canada Tremblay JA, Cadieux P, Boulanger Y, Cyr D, Taylor AR, Price DT	Phylogenomics of Pigeons and Doves From Whole Genome Sequencing Johnson KP, Boyd BM, Nguyen N, Allen JM, Steadman DW, Waterhouse RM, Sweet AD, Clayton DH, Bush SE, Shapiro MD	An Incomplete Overview of Determining Avian Species Limits Winker KS	*Behavioral Niche Partitioning Reexamined: Do Behavioral Foraging Differences Predict Dietary Differences? Kent CM, Sherry TW	Population Trends and Habitat Associations of Conservation Priority Bird Species in Iowa Vanausdall RA, Dinsmore SJ, Kinkead KE, Frese PW
1700	Sorting Through the Ashes: a Synthesis, Roadmap and Discussion for the Conservation of the Birds of North America Marra PP, Rosenberg K	Conservation Planning for Boreal Birds in a Changing Climate: A Framework for Action Stralberg D, Berteaux D, Drever M, Drever R, Naujokaitis-Lewis I, Schmiegelow F, Tremblay J	Wild Turkey Speciation Seen Through Full Genomes Vazquez-Miranda H, Zink RM	Phylogenetic Relationships Within the Sharp-shinned Hawk Complex With a Focus On Caribbean Populations Catanach TA, Johnson JA, Thorstrom R, Halley MR, Palhano S, Weckstein JD	Functional Changes in Assemblages of Avian Frugivores Following Extinction and Invasion Case SB, Tarwater CE	Do Drones Bug Songbirds? Wilson AM, Boyle KS, Gilmore JL, Kiefer C
1715	Panel Discussion		Molecular Phylogeny of Whistling Ducks (Dendrocygninae) Harshman J	Phylogenomic Analysis of Species Limits and Hybridization in the Red- bellied/Golden-fronted Woodpecker Clade (Melanerpes) Miller MJ, Lavretsky P	*Shifts in Avian Community Composition Across a Human-modified Landscape in Borneo, Malaysia Hightower JN, Yusah KM, Fletcher RJ	Risk Assessment of Great Lakes Piping Plovers Using EABM: An R Package To Run Environment Agent-based Models Edwards BP, Jacobs S, Gillis D
			LUNCH BRE	AK		

Wednesday, Late Afternoon Session *indicates student presenters eligible for AOS presentation award

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

Thursday, Morning Session *indicates student presenters eligible for AOS presentation award

Room	Atwood Hall	Cook Theatre	Summit 1	Summit 2	Summit 3	Summit 4
Session	Molecular Ecology	Behavior	Symposium: Migratory Connectivity of Alaskan Birds (Harrison)	Lightning Talks	Biogeography	Climate
1030	Variation in the Microbiome of Kirtland's Warblers Between Their Wintering and Breeding Areas Skeen HR, Cooper NW, Hackett SJ, Bates JM, Marra PP	Social Network Metrics Predict Future Social Status in Male Lance-tailed Manakins Beckman AK, Vanderbilt CC, DuVal EH	One State, Global Connections: Insights From 100 Years of Bird Banding in Alaska Scarpignato AL, Harrison A, Marra PP	Mexican Hummingbird Nesting Nunez-Rosas LE et al. Nest Defense in Eastern Bluebirds Gillespie LM et al. Social Polygyny in Eastern Bluebird King KM et al.	Modeling the Implications of Future Bioenergy Scenarios On Bird Diversity and Abundance in the Northern Great Plains Baltensperger AP, Goljani-Goljani-Amirkhiz R, Dixon M, Swanson D	*The Risk of Climate Change Vs Forest Loss On Restricted Range Tropical Birds: The Case of Birds of West Africa Freeman BB, Sunnarborg J, Peterson A
1045	Admixture Mapping the Genetic Basis of Species Differences in Avian Hybrid Zones Brelsford AT, Nwankwo E, Myers B, Clark CJ, Kirschel A	Effects of the Social Environment On Cloacal Microbiome Diversity Houtz JL, Taff CC, Zimmer C, Vitousek MN	Revealing the Migratory Path and Wintering Areas of Olive-sided Flycatchers That Breed in Alaska Hagelin JC, Johnson JA, Hallworth MT	Individual Variation in Suboscine Vocalizations Tagestad JT et al. Cross-species Auditory Stimuli and Responses Crook-Hill JR et al. Coloration Mechanisms in Painted Bunting Justyn NM et al.	Extraordinary Plumage Polymorphism in the Variable Antshrike (Thamnophilus Caerulescens, Thamnophilidae) Is Consistent With Gloger's Rule Marcondes RS, Brumfield RT	Understanding the Effects of Nest Site Temperature On Songbird Reproductive Fitness and Parental Care Scherr TM, Chalfoun AD
1100	Population Genetics and Phylogeography of Merlin (Falco Columbarius) in North America Martinico BL, Sage GK, Gravley MC, Talbot SL, Haak BA, Hull JM	Differences in Foraging Strategies Among Common Loons Overwintering On a Large Freshwater Reservoir in Northwest South Carolina Mager JN, Paruk JD, Wade B	Connectivity of Pre-adult, Non-territorial Migratory Golden Eagles During the Nesting Season in Alaska McIntyre CL, Lewis SB, Katzner TE, Miller TA, Lanzone M, Collopy MW, Douglas DC	Molt Dynamics of Eiders Ulman SE et al. Bill Divergence and Speciation in New World Jays Scott BF et al. Melanistic Pathways in Harlan's Hawk Barry JL et al.	Natural Selection On Body Size During Range Expansion in Red-bellied Woodpeckers Ralston J, Mayette-Draper E, Hamilton S, Kirchman JJ	Extreme Weather Lengthens Incubation Periods and Lowers Productivity for a Sagebrush-obligate Songbird Sanders LE, Hall LE, Chalfoun AD
1115	Asymmetric Gene Flow in an Understory Fijian Bird Gyllenhaal EF, Mapel XM, Andersen MJ	Does Object Neophobia Predict Exploratory Behavior in a Free-living Wild Bird? Tringali A, Prussing S, Sherer D, Windsor R, Bowman R	Contrasting Patterns of Migratory Connectivity in Two Species of Alaska-breeding Shorebirds Tibbitts TL, Gill, Jr R, Ruthrauff D, Warnock N, Harwood C, Harrison A, Hallworth M, Douglas D	Red-crowned x Lilac-crowned Hybridization Maley JM et al. Where did Cuban bobwhites come from? Salter JF et al. Phylogeny and evolution of the Gallopheasants Hosner PA et al.	Modelling the Niche in Present and Past Climatic Scenarios for the Great Tit Machado-Stredel FJ, Song G, Zhang R, AlstrÄüm P, Qu Y, Qiao H, Mays H, Ericson PG, FjeldsÄě J, Peterson AT, Chinese Academy of Sciences NAL	Examining Shifted Spring Phenologies of Seasonal Avian Migration: From Texas To Alaska Horton KG, Sheldon D, Farnsworth A
1130	Does Range Expansion Or Ongoing Dispersal Explain Apparent Panmixia in Bachman's Sparrow? A Temporal Study Using Museum DNA Settlecowski AE, Faircloth BC, Brown JM, Cox JA, Tucker JW, Carpenter JP, Taylor SS	A Tale of Two Todies: Understanding How Vocalizations Mediate Behaviors in a Sympatric Zone Garrod HM, Curry R	Migration Patterns of Three Loon Species (Gavidae) Breeding in the Arctic Schmutz JA, Uher-Koch BD, Harrison A, Mulcahy DM, Fair JS, Wright KG, DeSorbo CR	Phylogenomics of Euphoniinae Vazquez Lopez AM et al. Genetic and Phenotypic Variation in Piranga bidentata Robles Bello SM et al. NA et al.	How Do Dispersal and Migration Influence Range Expansion of Birds? Pegan TM, Weeks B, Winger B	Mesoscale Winds Shape Spring Stopover Distributions of Migrating Birds Along the Gulf of Mexico Clipp HL, Cohen EB, Smolinsky JA, Farnsworth A, Horton KG, Buler JJ
1145	The Common Loon Genoscape Lindsay AR, Larison B, Bossu C, Rajbhandary J, Sorenson MD, DaCosta JM, Kaplan JD, Evers DC, Paruk J, Smith TB, Ruegg K	Neighbor-stranger Discrimination in a Neotropical Suboscine Bird: Embracing Behavioral Complexity To Uncover Patterns Kelley JP, Tarwater CE	Synthesis Harrison A		The Importance of Geography and Environment for Diversification: a Case Study in the Northern Double-collared Sunbird Cinnyris Reichenowi Cooper JC, Maddox D, McKague K, Bates J	Intraspecific Variation in Morphological Traits of an Understory Insectivore Across a Precipitation Gradient in the Tropics Tarwater CE, Kelley P
	<u> </u>	<u> </u>	LUNCH BRE	EAK	<u> </u>	I

Thursday, Morning Session *indicates student presenters eligible for AOS presentation award

Summit 5	Summit 6	Summit 7/8	Summit 9/10	Summit 11/12	Summit 13/14
Sexual Selection & Parental Care	Abundance, Occupancy, Trends	Habitat Relationships	Symposium: Permeable Boundaries in Biological and Social Sciences: Human Dimensions in Bird Research and Conservation (Naves)	Breeding Biology	Symposium: A Bright Future for Birds: Understanding the Impacts of Light Pollution On Avian Wildlife (Kernbach)
*Testing the Hotspot Hypothesis: Lesser Prairie-Chicken Lek Formation and Female Space Use Aulicky CS, Haukos D	*The Effects of Recreational Activities On Avian Occupancy in a High Latitude Tundra Ecosystem Meeker AL, Marzluff JM	Guild-specific Effects of Intensive Forest Management On Avian Abundance Verschuyl JP, Kroll AJ, Jones J, Betts MG	Why Do Bird Conservation and Ornithology Need Social Science? Dayer AA	A Holistic Approach To Demographic Monitoring of Declining Grassland Songbirds Bernath-Plaisted JS, Correll MD, Panjabi AO	Circadian Rhythms, Melatonin and the Daily and Seasonal Control of Birdsong Cassone VM, Harpole CE
*Habitat- and Sex-specific Parental Care in the Monomorphic Red-headed Woodpecker Walter LA, Viverette C, Bulluck LP	Juniper Expansion in the Sagebrush Ecosystem: Avian Predator Occupancy Patterns and Implications for Sage-Grouse Habitat Restoration Young AC, Johnson TN	Influence of Reproductive Status of Greater Sage-grouse On Habitat Selection in a Juniper Dominated Landscape Rabon JC, Coates PS, Ricca MA, Johnson TN	Dayer - Continued	Variation in Nest Survival of the Federally Threatened Streaked Horned Lark On Grasslands in the South Puget Sound Lowlands Slater GL, Wolf AL, Lynch J	Physiological and Genetic Mechanisms Underlying Organismal Response To Artificial Light At Night Alaasam VJ, Zang Y, Niu Y, Ferguson B, Pieraut S, Seymoure B, Casagrande S, Ouyang JQ
Social Versus Genetic Mating Systems: the Complex Mating System of the Lark Bunting Lyon BE, Chaine AS	*Bias in Estimated Breeding-bird Abundance From Individual Movement Fogarty FA, Fleishman E	*Multi-scale Approach To Evaluating Space Use in Invasive Avian Dispersers and the Implications for Seed Dispersal Wilcox RC, Tarwater CE	Building Social Science Capacity in the Bird Conservation Community: Nationwide Priorities and Practices Scarl J, Barnes JC, VerCauteren T	*Seasonal Variation in Effects of Competing Predators On Avian Nest Success Ellis KS, Larsen RT, Koons DN	Effects of Spectral Composition of Nighttime Lighting On Host Competence To West Nile Virus in a Passerine Reservoir Kernbach ME, Cassone VM, Unnasch TR, Martin LB
Influence of Both Male and Female Attractiveness On Reproductive Success, Offspring Phenotype, and Nestling Sex Ratio Hubbard JK, Moranville GP	Distribution Update, Habitat Use and Conservation Status Assessment of the Grey-bellied Comet (Taphrolesbia Griseiventris) Cuadros SF	Patterns of Home Range Resource Use By the Volcano Junco, a Costa Rican Highland Endemic Besozzi EM, Patten M	Scarl - Continued	Patterns of Nestling Growth Rates in Tidal Marsh Sparrows Mirror Colonization of Specialist Habitat Ruskin KJ, Watson VK, Olsen BJ	Multiple Reproductive Costs Due To Light Pollution: Insights From Manipulative Experiments & Continental-scale Data Synthesis Francis CD, Senzaki M, Ferraro DM, Barber JR
Frontline Defenses Against a Purported Mafia Brood Parasite Peer BD, Page P	Ecological Correlates To Habitat Use in the Coastal Cactus Wren Winchell CS, Doherty PF, Taylor JM	Cascading Effects of Widespread Disease-induced Mortality of a Foundation Tree Species On Hawaiian Forest Bird Communities Paxton KL, Hart PJ	America's Wildlife Values: How Values Lead To Challenges and Opportunities for Bird Conservation Dietsch AM	To Burn Or Not To Burn? Breeding Success of King Rails in a Fire-managed Coastal Marsh McRae SB, Schroeder KM	*Light Pollution Is Greatest Within Migration Passage Areas and Is Related To Flight Altitudes of Nocturnal Migrants Cabrera-Cruz SA, Smolinsky JA, McCarthy KP, Buler JJ
Direct Effects of Brown-headed Cowbird (Molothrus Ater) Brood Parasitism On the Growth and Development of Grassland Songbirds Winnicki SK, Boyle WA	Sea Level Rise Impacts On Waterbird Habitat Across the Hawaiian Islands Price MR, Harmon K	Greener Pastures: Idiosyncratic Avian Responses To Early Forest Regeneration in the Maya Biosphere Reserve Lello-Smith AM, Rodewald AD, Ruiz-Gutierrez V	Understanding Underserved Audiences To Ensure Ongoing Long-term Citizen Science Data Collection for Project FeederWatch Martin VY, Greig E, Bonter D	Not So Secretive Marshbirds: Using Technology To Research a Cryptic Species, the Clapper Rail Elizondo EC, Shriver WG	Seasonal Associations With Urban Light Pollution for Nocturnally Migrating Bird Populations La Sorte FA
	*Testing the Hotspot Hypothesis: Lesser Prairie-Chicken Lek Formation and Female Space Use Aulicky CS, Haukos D *Habitat- and Sex-specific Parental Care in the Monomorphic Red-headed Woodpecker Walter LA, Viverette C, Bulluck LP Social Versus Genetic Mating Systems: the Complex Mating System of the Lark Bunting Lyon BE, Chaine AS Influence of Both Male and Female Attractiveness On Reproductive Success, Offspring Phenotype, and Nestling Sex Ratio Hubbard JK, Moranville GP Frontline Defenses Against a Purported Mafia Brood Parasite Peer BD, Page P Direct Effects of Brown-headed Cowbird (Molothrus Ater) Brood Parasitism On the Growth and Development of Grassland Songbirds	*Testing the Hotspot Hypothesis: Lesser Prairie-Chicken Lek Formation and Female Space Use *Aulicky CS, Haukos D *Habitat- and Sex-specific Parental Care in the Monomorphic Red-headed Woodpecker *Walter LA, Viverette C, Bulluck LP Social Versus Genetic Mating Systems: the Complex Mating System of the Lark Bunting Lyon BE, Chaine AS Influence of Both Male and Female Attractiveness On Reproductive Success, Offspring Phenotype, and Nestling Sex Ratio Hubbard JK, Moranville GP Frontline Defenses Against a Purported Mafia Brood Parasitie Peer BD, Page P Direct Effects of Brown-headed Cowbird (Molothrus Ater) Brood Parasitins On the Growth and Development of Grassland Songbirds *The Effects of Recreational Activities of Recreational Activations of Recreational Activations of Repoductors Secure *Bias in Estimated Breeding-bird Abundance From Individual Movement Fogarty FA, Fleishman E *Bias in Estimated Breeding-bird Abundance From Individual Movement Fogarty FA, Fleishman E *Bias in Estimated Breeding-bird Abundance From In	Sexual Selection & Parental Care Testing the Hotspot Hypothesis: Lesser Prairie-Chicken Lek Formation and Female Space Use Aulicky CS, Haukos D **The Effects of Recreational Activities On Avian Occupancy in a High Latitude Tundra Ecosystem: Space Use Aulicky CS, Haukos D **Habitat—and Sex-specific Parental Care in the Monomorphic Red-headed Woodpecker Walter LA, Wierette C, Bulluck LP Social Versus Genetic Mating Systems of the Lark Bunting Lyon BE, Chaine AS Influence of Both Male and Female Attractiveness On Reproductive Success, Offspring Phenotype, and Nestling Sex Ratio Hubbard JK, Moramville GP Trontline Defenses Against a Purported Mafia Brood Parasitie Peer BD, Page P Direct Effects of Brown-headed Cowbird (Molothrus Aler) Brood Parasities Direct Martin Sange Front Parasities of Grassland Songbirds Winnicki SK Brode WA Winnicki SK Brode WA Abbundance, The Effects of Recreational Activities On Avian Occupancy in a High Latitude Tundra Cacus Wines Abundance Erosystem: All Cacus Wines Abundance Erosystem: Sage-grouse On Habitat Use and Conservation Status Assessment of the Grey-bellied Comet (Taphrolesbia Griseiventris) Cacus Wines AC (Tarwater CE) Cascading Effects of Widespread Disease-induced Mortality of a Foundation Tree Paxton KL. Hart PJ Trontline Defenses Against a Purported Mafia Brood Parasite Peer BD, Page P Sea Level Rise Impacts On Waterbird Habitat Across the Hawaiian Islands Front Blattat Across the Hawaiian Islands Front Blattat Across the Hawaiian Islands Frie MR. Harmon K Restoration Advian Abundance From Individual Movement Sage-grouse on Habitat Sage-grouse On Habitat Use in Cacus Wines and the Implications for Sage-Grouse Habitat Use in the Coustal Travater CE Cascading Effects of Disease-induced Mortality of a Foundation Tree of Sage-Grouse Habitat Verse and Conservation Status Across the Hawaiian Islands Front Individual Movement Cacus Across	Sexual Selection & Parental Care Abundance, Occupancy, Trends Abundance, Occupancy, Trends #Testing the Hospot Hypothesis: Leaver Prairis-Chicken Leb Formation and Penule Space Use Aulicky CS, Haukos D #Habitat and Sex-specific Parental Care in the Monomarpile Reduced Monomarpile Reduced Woodpecker #Water LA, Werente C, Bulluck LP Social Versus Genetic Maing Systems the Complex Mating Systems of the Lark Bunding Lyon BL. Chaine AS Social Versus Genetic Maing Systems the Complex Mating Systems of the Lark Bunding Lyon BL. Chaine AS Influence of Both Males and Female Atmactiveness Otherwise Promotion Update, Habitat Season Reproductive Success, Otherwise Promotional Males and Female Atmactiveness Otherwise Promotional Brood Parasite Peer BD, Page P Direct Effects of Brown-headed Cowbird Molothura Mcale Brood Parasite Peer BD, Page P Direct Effects of Brown-headed Cowbird Molothura Mcale Brood Parasite Peer BD, Page P Direct Effects of Brown-headed Cowbird Molothura Mcale Brood Parasite Office Peer BD, Page P Direct Effects of Brown-headed Cowbird Molothura Mcale Brood Parasite Office Peer BD, Page P Direct Effects of Brown-headed Cowbird Molothura Mcale Brood Parasite Office Peer BD, Page P Direct Effects of Brown-headed Cowbird Molothura Mcale Brood Parasite Office Peer BD, Page P Direct Effects of Brown-headed Cowbird Molothura Mcale Brood Parasite Office Peer BD, Page P Direct Effects of Brown-headed Cowbird Molothura Mcale Brood Parasite Office Peer BD, Page P Direct Effects of Brown-headed Cowbird Molothura Mcale Brood Parasite Office Peer BD, Page P Direct Effects of Brown-headed Cowbird Molothura Mcale Brood Parasite Office Peer BD, Page P Direct Effects of Brown-headed Cowbird Molothura Mcale Brood Parasite Office Peer BD, Page P Direct Effects of Brown-headed Cowbird Molothura Mcale Brood Parasite Office Peer BD, Page P Direct Effects of Brown-headed Cowbird Molothura Mcale Brood Parasite Office Peer BD, Page P Direct Effects of Brown-headed Cowbird Molothura Mcale Brood Parasite O	Sexual Selection & Parental Care Abundance, Occupancy, Trends Abundance, Occupancy, Trends Parental Care Testing the Hotspot Hyporhesis Lesser Paralle Chicken Les and Conservation (Naves) The Effects of Paralle Chicken Les Associated Activities and Conservation (Naves) The Effects of Hyporhesis Lesser Paralle Chicken Les Associated Activities and Ecosystem and Season of High Level and Season of the Lark Hunting Level and Season of the Seas

Thursday, Early Afternoon Session *indicates student presenters eligible for AOS presentation award

Room	Atwood Hall	Cook Theatre	Summit 1	Summit 2	Summit 3	Summit 4
Session	Genomics	Behavior	Symposium: Cross-Pacific Migration: How the Impossible Becomes Commonplace (Ruthrauff)	Symposium: Molecular Ecology Is for the Birds: Using Molecular Techniques To Advance Our Understanding of Avian Ecology (Jusino)	Conservation	Migration & Stopover
1400	Genomic Differentiation Along the Speciation Continuum in Three Hummingbird Species Pairs Henderson EC, Brelsford A	*Plasticity of Aggressive Behavior in Bachman's Sparrows Niederhauser JM, Ali S, Ziadi MP, Anderson RC	Tropical Convection, Atmospheric Teleconnections, and Possible Links To Wind-Assisted Bird Migration Over the North Pacific Feldstein SB, Gill RE, Douglas DC	An Ornithologist's Toolkit for Molecular Community Ecology Jusino MA	Captivity and the Gut Microbiota of 'Akikiki: Implications for Conservation of a Critically Endangered Hawaiian Honeycreeper Costantini MS, Crampton C, Masuda B, Reed F	Quantifying Passage Population Size and Migration Phenology of Endangered Rufa Red Knots Staging in Southwestern James Bay, Ontario, Canada MacDonald AJ, Smith PA, Friis CA, Lyons JE, Nol E
1415	*Genomics and Color Morphs: Comparison of Whole Genome Sequence Data Between a Melanin-based and a Carotenoid-based Species Shakya SB, Brumfield RT, Sheldon FH	*Exploratory Behavior in Brown-Headed Nuthatches May Indicate Successful Population Reintroduction Strategy Gray MM	What Nonstop Trans-Pacific Flights of Shorebirds Mean for Our Understanding of the Energetic and Physiological Limits To Endurance Flight Guglielmo CG, LindstrÃűm ÃĚ	Jusino - Continued	Down in the 'weeds' Searching for Answers To Wood Thrush Fledgling and Juvenile Survival Hayes SM, Boyd B, Stutchbury B	A Comparison of Spring and Fall Body Condition and Hematological Parameters in Two Migratory Songbirds Hatch MI, Smith RJ
1430	*Genomics of Parallel Divergence and Local Adaptation in Two North American Woodpeckers Moreira LR, Smith BT	Incubation Behavior of Trumpeter Swans Measured By Continuous Infrared Videography Delehanty DJ, Bush DA	Wind Assistance Along the Trans-Pacific Migration Corridor of the Bar-tailed Godwit: Past, Present, and Future Gill, Jr RE, Douglas DC, Feldstein SB, Mills CM, Battley PF, Handel CM	Using Molecular Methods To Identify Fungi At Woodpecker Excavated Cavities in Western Coniferous Forests Lorenz TJ, Jusino MA, Schilling JS, Andrews E, Seveyka J, Fischer PC	Comparison of Abundance and Annual Return Rates of Wintering Piping Plovers On Natural and Man-made Beaches in the Mississippi Sound	Annual Variation in Use of a Spring Stopover Site By Three Migratory Shorebirds Tucker AM, McGowan CP
1445	A Genomic Comparison Between Flycatchers Only Distinguishable By Innate Song Differences Garcia NC, Campagna L, Rush AC, Bowie RC, Lovette IJ	*Deep Snow and Dense Cover Influence Habitat Selection in a Winter-adapted Bird Shipley AA, Zuckerberg B	Minding the Gap: An Energetics-based Perspective On Not Migrating Ruthrauff DR, Dekinga A, Gill, Jr R, Piersma T	*The Nidobiome As a Framework To Understand Microbiome Assembly Campos-Cerda F, Bohannan BJ	*Patterns of Northern Bobwhite Juvenile Survival On Extensive Prairies and Mixed Agricultural, Grassland, and Wooded Landscapes in Missouri Sinnott EA, Thompson FR, Weegman MD, Thompson T	What Causes Vagrancy in Some New World Warblers Along the Pacific Coast? Ralph CJ, Wolfe JD
1500	Gradual Evolution Towards Flightlessness in Steamer-Ducks Campagna Ln, McCracken K, Lovette IJ	*Stinky Is Sexy: the Major Histocompatibility Complex, Mate Choice and Personal Odor in Leach's Storm-petrels Jennings SL, Hoover BA, Sin Y, Nevitt GA, Edwards SV, Ebeler SE	Rapid Global Differentiation of Migratory Phenotypes in Bar-tailed Godwits Conklin JR, Verkuil YI, Piersma T, Fontaine MC	*Is There an Association Between Communities of Wood Decay Fungi and Black-capped Chickadee Nest Cavities? Gable CL, Lindsay AR, Jusino MA	Cumulative Effects of Forest Harvesting, Wildfires, and Roads On Olive-sided Flycatcher Habitat in British Columbia, Canada: Implications for Environmental Assessment Processes Norris AR, De Groot K, Robinson A, Dohms KM, Thomas J, Lee A, Moore K, Martin K	*Migratory Bird Use of Stopover Sites in Midwestern Forests and Urban Habitats During Spring and Fall Outcalt JM, Buler JJ, Smolinsky JA, Dunning JB
1515	Is Mutation Rate Linked To Diversification in Birds? Oliveros CH, Faircloth BC	*Dominance Rank and Sex Predict Social Network Position in Winter Social Groups in a Passerine Bird	Migratory Patterns of Sooty Shearwaters (Ardenna Grisea) Across the Pacific Ocean	Revealing Unknown Interactions: the Role of Patagonian Tapaculos (Rhinocryptidae) On the Dispersal of Endemic Truffles	Responses of State-Endangered Common Terns (Sterna Hirundo) in Ohio To the Use of Artificial Nesting Platforms **Equation 1.1. Shirkov R.	What Can Weather Surveillance Radar Data Tell Us About Stopover Duration of Migrating Land Birds? Buler JJ, Zenzal, Jr TJ,
		Block TA, Shizuka D, Chaine A, Lyon BE	Shaffer SA, Harrison A	Caiafa MV, Jusino MA, Díaz IA, Smith ME	Kearns LJ, Shirkey B, Picciuto M, Crouser A, Scott E	Moore FR, CalderÏŇn LN, Barrow, Jr W, Wilson B
			LUNCH BRE	EAK		

Thursday, Early Afternoon Session *indicates student presenters eligible for AOS presentation award

Section Physiology Symposium Posesse Postovicology Symposium Postovicolo	Room	Summit 5	Summit 6	Summit 7/8	Summit 9/10	Summit 11/12	Summit 13/14
of High Temperatures Will Cause Severe Declines in Ack-Parts Will Cause Severe Declines in Ack-Parts Early Control of Alaskin Management and Conservation Minagement and Control of Alaskin Control of Alaskin Minagement and Alaskin Control of Alaskin Control of Alaskin Control of Alaskin Minagement and Alaskin Control of Alaskin Control of Alaskin Minagement and Alaskin Minagement and Alaskin Control of Alaskin Minagement and Alaskin Mina	Session		Undergrad		Permeable Boundaries in Biological and Social Sciences: Human Dimensions in Bird Research and	Songs, Vocalizations	From Avian Hybrid Zones and the Maintenance of Species Boundaries
Segondary Variation and the Registry of States and Counsel High Elevation Environment From Environment From From Environment From From Environment From From Environment From From From From Environment From From From From Environment From From From From From From From From	1400	of High Temperatures Will Cause Severe Declines in Arid-zone Birds During the 21st Century Conradie SR, Woodborne SM, Susan CJ, McKechnie	for the Study of Seabirds in the Gulf of Alaska: Implications for Management and Conservation	Host Immunogenetics and Malarial Parasite Infection in a Catharus Thrush Species Complex Starkloff NC, Sammons MA, Westerdahl H, Turner	Attributes Predict Bird Conservation Behaviors Among Birders in the United States?	Space in a Breeding Warbler Community Sblendorio JM, Vonhof	the Maintenance of Species Boundaries: Lessons From Avian Hybrid Zones Walsh JL, Aguillon SM,
## Proceeds To Understanding the Procession of Understanding the Procession (Calls in Environmental Acoustic Recordings Place Procession of Placety of Environmental Acoustic Recordings Placety Procession of Placety of Pl	1415	Range Shifts? Response To a Novel High Elevation Environment From Populations Across a Hummingbird Range	Management of 'AlalÄĄ (Corvus Hawaiiensis) in a Conservation Breeding Program Leavitt JS, Blanchet G, Datlof E, Bellinger R, Geib S, Masuda B, Sutton	Abundance of House Finches Created the Context That Determined the Impact of an Emerging Pathogen Hochachka WM, Dhondt	Birdwatchers and Waterfowl Hunters in the United States and Canada: Results of Discrete Choice Experiments (DCEs) Fulton DC, Dietsch A, Harshaw H, Raedeke A,	Helicopter Noise On Bird Assemblages in Hawai'i's Protected Natural Areas Gallardo Cruz KV, Paxton	Asymmetric Introgression of Plumage-related Reproductive Barriers in Hybridizing Birds Semenov GA, Khaydarov
Long-term Effects of Early-life Stress On the HPA Axis in a Short-and Long-lived Bird Axis in Context Axis in Cont	1430	Approach To Understanding the Physiological Drivers of Phenotypic Flexibility in Dark-eyed Juncos Stager M, Senner NR,	Puaiohi Calls in Environmental Acoustic Recordings Weyenberg GS, Rumpungworn MD, Howells LO, Paxton KL,	Subsidies in Acadia National Park: How Invertebrates Can Help Us Understand Mercury Exposure in Songbirds Jackson AK, Frampton L, Garafalo M, Harris S, Nightingale B,	of Birds' Cultural Niches: Changing Public Perceptions of the North American Avifauna	Experience May Contribute To Adult Female Preferences for Male Mating Signals	Genomics To Investigate Non-geographic Drivers of Divergence and Introgression in Panamanian Birds
Do High-energy Lifestyles in Birds Promote High Maximal Metabolic Capacities? Swanson DL, Thomas NE, Zhang Y From Shallow To Deep: A Torpor Spectrum in Hummingbirds Uncovered Using Thermal Imaging Shankar A, Cisneros IN, Thompson S, Graham CH, Powers DR Habitat Use of the Sierra Madre Sparrow, Mexican and Endemic Mountain Bird, in Mipa Alta, Mexico City Bioavailability for New York Songbirds Adams EM, Sauer AK, Lane O, Regan K, Evers DC Metabolic Capacities? Swanson DL, Thomas NE, Zhang Y From Shallow To Deep: A Torpor Spectrum in Hummingbirds Uncovered Using Thermal Imaging Shankar A, Cisneros IN, Thompson S, Graham CH, Powers DR Habitat Use of the Sierra Madre Sparrow, Mexican and Endemic Mountain Bird, in Mipa Alta, Mexico City Bioavailability for New York Songbirds Adams EM, Sauer AK, Lane O, Regan K, Evers Diological and Social Objectives Through Bird Habitat Conservation Adams EM, Sauer AK, Lane O, Regan K, Evers Diological and Social Objectives Through Bird Habitat Conservation Soulliere GJ, Al-Saffer MA Are Wetlands Hotspots for Bioaccumulation of Mercury in Songbirds? Are Wetlands Hotspots for Bioaccumulation of Mercury in Songbirds? Are Wetlands Hotspots for Bioaccumulation of Mercury in Songbirds? Shankar A, Cisneros IN, Thompson S, Graham CH, Powers DR Hit LG, Khalil S, Blanchette A, Finkelstein ME, Ribeiro RD, Iverson EN, McClelland SC, Karubian J Brasso RL, Rittenhouse KA, Winder VL Britten And Diet On Methylmercury Bioavailability for New York Songbirds Partners in Strategic Conservation The Effects of Climate, Habitat Objective Biological and Social Objective Through Bird Habitat Conservation Soulliere GJ, Al-Saffer MA Are Wetlands Hotspots for Bioaccumulation of Mercury in Songbirds? Are Wetlands Hotspots for Bioaccumulation of Mercury in Songbirds? Sandoval L, Hamzaj T, Bonilla K, Gutierrez I Who Is There? Response To Different Type of Territorial Intruders Sandoval L, Hamzaj T, Bonilla K, Gutierrez I Weir JT Weir JT	1445	Early-life Stress On the HPA Axis in a Short- and Long-lived Bird Grace JK, Anderson DJ,	Traditional and Next Generation Screening Approaches To Characterize Avian Haemosporidian Parasites Ray S, Henry M, Galen S, Ostrow EN, Dispoto J,	Marine Persistent Organic Pollutants in the Critically Endangered California Condor and Their Marine Mammal Prey Stack ME, Hoh E, Dodder N, Tubbs C, Vilchis I,	Vehicle Impact in Bird Habitat: Reconciling Harvest and Conservation On Private Land in Western Alaska Naneng W, Maroney RL,	Genetically and Vocally Divergent Warbling Vireo Subspecies Exhibit Indiscriminate Aggression Toward Intruders in a New Contact Zone Spellman GM, Hammond	Introgression Across Two Hybrid Zones in the Great Plains Billerman SM, Walsh J,
From Shallow To Deep: A Torpor Spectrum in Hummingbirds Uncovered Using Thermal Imaging Shankar A, Cisneros IN, Thompson S, Graham CH, Powers DR Torpor Spectrum in A common Urban Songbird Are Wetlands Hotspots for Bioaccumulation of Mercury in Songbirds? Are Wetlands Hotspots for Bioaccumulation of Mercury in Songbirds? Are Wetlands Hotspots for Bioaccumulation of Mercury in Songbirds? Are Wetlands Hotspots for Bioaccumulation of Mercury in Songbirds? Brasso RL, Rittenhouse KA, Winder VL Rodewald AD, Swarthout SB, Dayer AA, Rohrbaugh RW Sandoval L, Hamzaj T, Bonilla K, Gutierrez I Weir JT Weir JT	1500	in Birds Promote High Maximal Metabolic Capacities? Swanson DL, Thomas NE,	Habitat Use of the Sierra Madre Sparrow, Mexican and Endemic Mountain Bird, in Milpa Alta, Mexico City Savarino-Drago A, Ruvalcaba-Ortega I, Martinez M, Martinez H, Martinez-Molina U, Martinez-Molina Y, Garcia-Loeza S, Rodriguez-Contreras V,	Habitat, and Diet On Methylmercury Bioavailability for New York Songbirds Adams EM, Sauer AK, Lane O, Regan K, Evers	Landscapes To Achieve Biological and Social Objectives Through Bird Habitat Conservation	Signaling? Anthropogenic Noise and Social Context Affect Male House Wren Vocal Behavior Grabarczyk EE, Vonhof	Variable Carotenoid-based Ornamentation in the Red-backed Fairywren Khalil S, Walsh J, Enbody ED, Baldassarre DT,
Powers DR ME, Ribeito RD, Werson EN, McClelland SC, Karubian J Weir JT	1515	Torpor Spectrum in Hummingbirds Uncovered Using Thermal Imaging Shankar A, Cisneros IN,	On Reproductive Success and Extra-pair Paternity in a Common Urban Songbird Hitt LG, Khalil S, Blanchette A, Finkelstein	Bioaccumulation of Mercury in Songbirds? Brasso RL, Rittenhouse	Partners in Strategic Conservation Rodewald AD, Swarthout SB, Dayer AA, Rohrbaugh	To Different Type of Territorial Intruders Sandoval L, Hamzaj T,	Development of Reproductive Isolation in Flooded Versus Terra Firme Forest Birds of the
LATINGTO DIDEVA			EN, McClelland SC,	,		. ,	Weir JT

Thursday, Late Afternoon Session *indicates student presenters eligible for AOS presentation award

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

Thursday, Late Afternoon Session *indicates student presenters eligible for AOS presentation award

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

Friday, Morning Session *indicates student presenters eligible for AOS presentation award

Room	Arteaga Theatre	Cook Theatre	Summit 1	Summit 2	Summit 3	Summit 4		
Session	Habitat Relationships	Breeding Biology	Movements & Dispersal	Lightning Talks	Evolutionary Ecology	Behavior		
1030	Habitat Modeling for Desert Thrashers Fletcher DM, Harter LB, Ammon E	Can Renesting Be an Effective Reproductive Strategy and How Does It Influence Conservation of a Threatened Shorebird Species? Swift RJ, Anteau MJ, Ring MM, Toy DL, Wagner HR, Sherfy MH	Investigating Aleutian Tern Breeding Season Movements Using Satellite Telemetry Nesvacil KA, Lyons DE, Oehlers S, Skinner J, Mondragon J	Urban Bird Community Shifts in Arizona Allen DC et al. Site Availability of NA's Breeding Birds Brown TM et al. Grazers and North Great Plains Community Composition Boyce AJ et al.	Speciation On an Island: Genetic Differentiation in Penguins and Shags Burg TM, Guevara-López J, Perkins N, Bost CA	New Technologies and Analytical Opportunities for Improved Inference About Avian Social Structure Clements SJ, Silk MJ, Hodgson DH, Weegman MD		
1045	The Importance of Dynamic Conservation Programs To Shorebirds in California's Central Valley Golet GH, Dybala K, Reiter M, Sesser K, Reynolds M, Barfield J, Spraycar P	Nest Initiation Time and Distance To Water Predict Nest Success of the Hawaiian Stilt in Wetlands On O'ahu Harmon KC, Wehr NH, Price MR	Preferred Orientation of Vagrant Passerines During Autumn Migration Zawadzki LC, Taylor PD, Guilford T	Habitat use of Agricultural Fields Reiley BM et al. Benefits of Canada Goose Egg Addling Edelstein DA et al. Community Change in Acadia National Park Ruskin KJ et al.	The Genomic Landscape of Microgeographic Adaptive Divergence in an Island Endemic Cheek RG, Funk WC, Sillett TS, Ghalambor C	Using Playback Experiments To Investigate Species Discrimination in a Hybridizing Population of Blue-winged and Golden-winged Warblers Janik AE, Vonhof MJ, Gill SA		
1100	Spanning the Habitat Gradient: Red-headed Woodpecker Nest-site Selection in Three Distinct Cover Types Nickley BM, Bulluck LP	Impacts of the December 2016 To August 2017 Bogoslof Island Eruption Event On a Major Alaskan Seabird Colony Rojek NA, Drew GS	Agent-based Modeling and Simulation What's in It for Ornithologists? Clemen T, Lenfers UA, Bradshaw K	Snag availability for Cavity Nesting Birds Levy HE et al. Golden Eagle Migration Paprocki NA et al. Early Spring Migration in Turkey Homs IJ et al.	Genetic Connectivity and Differentiation Among Horned Larks (Eremophila Alpestris) Along an Elevational Gradient in the White Mountains of California Wang-Claypool CY, Mason NA, Cicero C, Bowie RC	Landscape-level Information Use Shapes Brown Pelican (Pelecanus Occidentalis) Foraging Behaviors Geary B, James WR, Karubian J, Nelson JA, Leberg PL		
1115	Innovations in Measuring Habitat: Nest-site Selection of Grassland Songbirds in Northern Mixed-grass Prairies Guido NA, Correll MD, Ruskin K, Olsen BJ, Bernath-Plaisted J	Measuring Impacts of Non-native Species On Cavity-nesting Birds At the Continental Scale Bailey RL, Faulkner HA, Martin VY, Phillips TB, Bonter DN	Alternative Pathways To Success: Transient Dispersers in a Cooperative Breeding Corvid Suh Y, Dent ML, Fitzpatrick JW, Bowman R	Nocturnal flight calls and collision vulnerability Winger BM et al. Winter Movement of Brown-capped Rosy-Finches Yappert AA et al. Habitat Use of Hawaiian Short-eared Owls Wilhite CJ et al.	Assessing the Influences of Habitat Structure On Bird Song Propagation Hardt BM, Benedict L	Age-related Variation in Bite Force in a Long-lived Seabird in the Galapagos Rebol EJ, Anderson DJ		
1130	Survival, Habitat Selection, and Behavior of Post-fledging Golden-cheeked Warblers Trumbo EM, Brawn MP, Brawn J	Decadal Shifts in Patterns and Benefits of Nesting Near Territorial Predators By Tundra-nesting Sea Ducks Miller MW, Lovvorn JR, Graff N, Stellrecht N, Quakenbush LT, Safine DE	Pacific Arctic Seabird Communities: a Decade of Change Viewed Through the Lens of the Distributed Biological Observatory's At-sea Surveys Kuletz KJ, Cushing D, Osnas E, Labunski E, Gall A	NA et al. NA NA	Life History Structures Phenotypic Variation in Avian Functional Traits DuBay SG	Effects of Non-breeding Rainfall On Signal Development, Social Behavior, and Reproductive Success in Red-backed Fairywrens Welklin JF, Lantz SM, Khalil S, Karubian J, Webster MS		
1145	Woodpecker Nest Survival and Density in Relation To a Pine Beetle Outbreak Saab VA, Latif Q, Dresser M, Dudley J	Consequences of Nest Outcome On Investment Into Later Broods By Gray Catbirds Redmond LJ, Haq JI, Noble D, Ricco D	*Seasonal and Directional Dispersal Behavior in an Ongoing Dove Invasion Slager DL		Factors Mediating Reproductive Isolation Between Related Species At Contact Zones Kirschel AN, Nwankwo EC, Monadjem A, Grether GF, Brelsford A	Variability in the Use of Acoustic Space Between Two Tropical Forest Bird Communities Hart PJ, Paxton K, Tredinnick G		
LUNCH BREAK								

7riday, Morning Session *indicates student presenters eligible for AOS presentation award

Summit 5	Summit 6	Summit 7/8	Summit 9/10	Summit 11/12	Summit 13/14
Foraging, Food Habits	Citizen Science	Symposium: Counting Unmarked Birds ÂÂŞ Matching Appropriate Sampling and Modeling Techniques With Particular Research Questions (Latif)	Symposium: Wild Birds and the One Health Initiative: Dynamic Boundaries Affect the Health of Birds, Livestock, Humans, and the Environment (Ramey)	Symposium: Birds With Benefits: Evidence and Trade-offs of Multiple-benefit Conservation Focused On Birds (Gardali)	Symposium: The Future of Global Bird Trait Datasets: A Game-changing Resource for Macroecology, Macroevolution and Conservation Biology? (Tobias)
Gyrfalcon Dietary Plasticity in a Changing Tundra Ecosystem Johnson DL, Henderson M, Anderson DL, Booms T, Robinson B, Williams CT	Eggshell Characteristics As Predictors of Heavy Metal Concentration in House Sparrow Eggs Hartley SM, Cooper CB	Estimating Avian Abundance From Unmarked Populations: Requirements, Assumptions, and Finding the Best Method for Your Research Amundson CL, Latif Q, Valente J	Wild Birds and One Health: Dynamic Boundaries Affect the Health of Birds, Livestock, Humans, and the Environment	What Is Multiple-benefit Conservation and Why Care? Gardali T, Seavy NE, Dybala KE	Life History Trait Variation Across a Tropical Elevational Gradient Jankowski JE, Scholer MN, Londono GA
Canada Jay (Perisoreus Canadensis) Foraging Ecology in Denali National Park and Preserve, Alaska Swift KN, Marzluff JM, Williams E	The Role of EBird in Fine-scale Distribution and Density Modeling Hallman TA, Robinson W	Sampling Design Considerations for Making Strong Inference From Large-scale Monitoring Programs Pavlacky DC	Evolutionary Changes Following a Successful Host Shift: the Case of Mycoplasma Gallisepticum Dhondt AA, Dhondt KV, Dobson AP, Geary SJ, Hawley DM, Hochachka WM, Ley DH, Pflaum K, Reinoso-Peres M, Tulman ER	Trade-offs Between Carbon Storage and Biodiversity Conservation in Reforested Riparian Zones Dybala KE, Steger K, Walsh RG, Smart DR, Gardali T, Seavy NE	Phylogenetic and Functional Structure of Avian Communities Along a Tropical Elevational Gradient Boyce AJ, Shakya SS, Sheldon FH, Moyle RG, Martin TE
Trophic Transfer of Energy Via Nestling Wading Birds To a Scavenger Community in an Oligotrophic Wetland Gabel WW	Webcams As an Untapped Opportunity To Conduct Citizen Science: Six Years of the American Kestrel Partnership's KestrelCam Schulwitz SE, Spurling DP, Davis TS, McClure CJ	On a Simulated Day, You Can See Forever: Comparing Analytical Methods Using Simulated Point Counts Rigby EA, Johnson DH	Dhondt - Continued	Dynamic Replenishment: Implementing a Multi-benefit Approach To Creating Bird Habitat and Recharging Groundwater Barfield Jn, Rohde M, Golet G, Reynolds M, Andrews K	The Impact of Species Interactions On Latitudinal Gradients in Trait Evolution in Birds Drury JP
Using DNA Metabarcoding To Determine Seaside Sparrow Diet Following Large-scale Disturbances Snider AM, Bonisoli Alquati A, Woltmann S, Stouffer PC, Taylor SS	Tiger Sharks Eat Passerines: Exploring the Prevalence of a Unique Cross-system Pulsed Subsidy Drymon M, Feldheim K, Fournier A, Seubert E, Kroetz A, Powers S	From Single-day To Multi-year Revisits: Matching Sampling Strategies To Inferential Goals Tingley MW	Harmful Algal Blooms in Northern Waters: An Emerging Issue for Alaskan Seabirds? Van Hemert CR, Smith MM, Schoen SK, Dusek RJ, Piatt JF, Arimitsu ML, Litaker RW, Pearce JM	Waterbird Habitat Quality and Groundwater Recharge Potential of Alfalfa in the San Joaquin Valley Strum KM, Sesser KA, Shuford WD, Golet GH	Are Rates of Divergent Evolution in "biotic Interaction" Traits Faster in the Tropics? A Test Using Bird Beaks Freeman BG, Schluter D, Tobias J
Validating the Barcode-biomass Match: Can DNA Barcoding Determine the Contribution of Arthropod Taxa To the Diet of Birds? Verkuil YI, Ubels R, Samplonius J, Nicolaus M, Dietz M, Galema A, Kiekebos K, de Knijff P, Both C	Birds Across Borders: Uniting Curriculum, Students, Cultures, and Generations Campbell-Smith JA, Cannady G	Optimizing Aerial Seabird Survey Design: Pitfalls and Progress Davis KL, Farr MT, Wilson RR, Silverman ED, Sussman A, Lyons JE, Zipkin EF	Van Hemert - Continued	Multiple Benefits From a Migratory Bird Species: Where They Originate and How It Matters To Management Semmens DJ, Bagstad K, Diffendorfer J, Mattsson B, Dubovsky J, Thogmartin W, Wiederholt R, Loomis J, Bieri J, Sample C, Goldstein J, López-Hoffman L	Global Biogeographic Gradients in Avian Colouration Cooney CR, He Y, Thomas GH
Demographic and Seasonal Variation in Biofilm Consumption By Migratory Western Sandpipers (Calidris Mauri) Hall LA, De La Cruz SE, Takekawa JY	Creating Diverse and Quality Habitat for Birds Through Application of Management Guidelines for Land Managers in Northern Hardwood Forests Treyger SM, Burger MF	What Can We Do With Survey Design Specific Biases in Point-count Data? Integrating Roadside Surveys and New Technologies Solymos P, Matsuoka SM, Van Wilgenburg S, Stralberg D, Cumming SG, Bayne EM	Panel Discussion	Designing Coastal Conservation To Achieve Both Ecological and Human Well-being Goals Annis GM, Pearsall DR, May CA, Ewert DN	Climate, Habitat, and Geographic Range Overlap Drive Plumage Evolution and Mimicry in Woodpeckers Miller ET, Leighton GM, Freeman BG, Lees AC, Ligon RA
	Gyrfalcon Dietary Plasticity in a Changing Tundra Ecosystem Johnson DL, Henderson M, Anderson DL, Booms T, Robinson B, Williams CT Canada Jay (Perisoreus Canadensis) Foraging Ecology in Denali National Park and Preserve, Alaska Swift KN, Marzluff JM, Williams E Trophic Transfer of Energy Via Nestling Wading Birds To a Scavenger Community in an Oligotrophic Wetland Gabel WW Using DNA Metabarcoding To Determine Seaside Sparrow Diet Following Large-scale Disturbances Snider AM, Bonisoli Alquati A, Woltmann S, Stouffer PC, Taylor SS Validating the Barcode-biomass Match: Can DNA Barcoding Determine the Contribution of Arthropod Taxa To the Diet of Birds? Verkuil YI, Ubels R, Samplonius J, Nicolaus M, Dietz M, Galema A, Kiekebos K, de Knijff P, Both C Demographic and Seasonal Variation in Biofilm Consumption By Migratory Western Sandpipers (Calidris Mauri) Hall LA, De La Cruz SE,	Gyrfalcon Dietary Plasticity in a Changing Tundra Ecosystem Johnson DL, Henderson M, Anderson DL, Booms T, Robinson B, Williams CT Canada Jay (Perisoreus Canadensis) Foraging Ecology in Denail National Park and Preserve, Alaska Swift KN, Marzluff JM, Williams E Trophic Transfer of Energy Via Nestling Wading Birds To a Scavenger Community in an Oligotrophic Wetland Gabel WW Webcams As an Untapped Opportunity To Conduct Citizen Science: Six Years of the American Kestrel Partnership's KestrelCam Schulwitz SE, Spurling DP, Davis TS, McClure CJ Tiger Sharks Eat Passerines: Exploring the Prevalence of a Unique Cross-system Pulsed Subsidy Trophic Transfer of Energy Via Nestling Webcams As an Untapped Opportunity To Conduct Citizen Science: Six Years of the American Kestrel Partnership's KestrelCam Schulwitz SE, Spurling DP, Davis TS, McClure CJ Tiger Sharks Eat Passerines: Exploring the Prevalence of a Unique Cross-system Pulsed Subsidy Drymon M, Feldheim K, Fournier A, Seubert E, Kroetz A, Powers S Validating the Barcode-biomass Match: Can DNA Barcoding Determine the Contribution of Arthropod Taxa To the Diet of Birds? Verkuil YI, Ubels R, Samplonius J, Nicolaus M, Dietz M, Galema A, Kiekebos K, de Knijff P, Both C Demographic and Seasonal Variation in Biofilm Consumption By Migratory (Calidris Mauri) Hall LA, De La Cruz SE, Fournier A, Seubert E, Kroetz A, Powers S Creating Diverse and Quality Habitat for Birds Through Application of Management Guidelines for Land Managers in Northern Hardwood Forests	Foraging, Food Habits Citizen Science Comaning Anana Abundance From Lumarked Populations: Requirements, Assumption Science Science Considerations of Making Considerations for	Foraging, Food Habits Citizen Science Considerations for Making Stook Considerations for Making Stook Considerations for Making Stook Considerations for M	Foraging, Food Habits

7riday. Early Afternoon Session *indicates student presenters eligible for AOS presentation award

Room	Arteaga Theatre	Cook Theatre	Summit 1	Summit 2	Summit 3	Summit 4
Session	Conservation	Symposium: Long-term Studies of Cavity-nesting Birds: Windows Into Environmental Change (Duckworth)	Annual Cycle	Symposium: Seabirds On the Edge of Two Worlds: Ecology and Conservation of Brachyramphus Murrelets in Marine and Terrestrial Environments (Rivers)	Evolution	Population Biology
1400	Population Genetics of a Beringian Endemic, Rock Sandpiper Pruett CL, Winker K	Insights Into Adaptation and Population Change From LongåÄKterm Studies of Cavity Nesting Birds Duckworth RA	Carry-over Effects of Breeding Season Habitat On a Long-distance Migrant Boyd BP, Stutchbury B, Hayes SM Factors Associated With Marbled Murrelet (Brachyramphus Marmoratus) Nesting Activity in Western Oregon Rivers JW, Adrean L, Nelson SK, Garcia-Heras M, Roby D, Betts M Skeletal Distribution of Medullary Bone in Neornithes - Implications for the Identification of Reproductive Tissues in Non-avian Dinosaurs Canoville AR, Schweitzer MH, Zanno LE		Medullary Bone in Neornithes - Implications for the Identification of Reproductive Tissues in Non-avian Dinosaurs Canoville AR, Schweitzer	Pintail Populations Became More Vulnerable To Climate Change Under Agricultural Intensification Zhao QN, Arnold T, Devries J, Howerter D, Clark B, Weegman M
1415	How Do Seabirds See Light? Spectral Effects On the Temporal Sensitivity of Hawaiian Seabirds Moon HE, Anderson T, Travers M, Loew E, Porter M	Long-term Responses To Environmental Change Across Multiple Scales in the Great Tit Sheldon BC	Large-scale Phenological Dynamics of North American Passerines Youngflesh CC, Socolar JB, Tingley MW	Can Oceanic Effects On Growth and Time To Fledging Mediate Terrestrial Predator Limitation of an At-risk Seabird? Knudson TW, Lovvorn JR, Lawonn MJ, Corcoran RM, Roby DD, Piatt JF, Pyle WH	Replicated Invasions Reveal Hotspots of Natural Selection in the European Starling Hofmeister NR, Rollins LA, Stuart K, Werner SJ, Lovette IJ, Clayton DF	When the Freezer Breaks: Will Climate Warming Impact the Persistence of Resident Birds in Alaska? Williams EJ, Phillips LM, Grigsby T, Norris R, Chicalo R, Marzluff J, Swift K
1430	The Endangered Black-capped Vireo (Vireo Atricapilla): Status After 30 Years of Recovery Management in Oklahoma, USA Grzybowski JA, McDonald DT	Sheldon - Continued	Alternate Migration Strategies Mediate the Effects of Stochastic and Predictable Climatic Changes On Migratory Birds Senner NR, Linscott JA, Rakhimberdiev E, Douglas DC	Breeding Propensity and Causes of Nest Failure for Marbled Murrelets in Washington State Lorenz TJ, Raphael MG, Bloxton TD	Testing for Adaptive Introgression Across Elevation in a Rapid Radiation, the South American Siskins (Spinus) Beckman EJ, Witt CC	Population Ecology of Spruce Grouse in Commercially-managed Forests Blomberg EJ, Tebbenkamp J, Dunham S, Harrison D
1445		Long-term Effects of Environmental Change On Two Cavity Nesting Passerines Bartlow AW, Wysner TE, Musgrave KS, Hathcock CD, Fair JM	Breeding Ground Habitat Loss Is the Primary Driver of Population Declines for a Long-distance Migratory Songbird Hallworth MT, Marra PP, Bayne E, Love OP, McKinnon E, Tremblay JA, Van Wilgenburg S, Drolet B, Ibarzabal J	Breeding Ecology of Kittlitz's Murrelets in the Aleutian Islands, Alaska Kaler RS, Kenney L, Williams J, Piatt J	The Indirect Effect of Flight Demands On Egg Shape in Migratory and Sedentary Fork- Tailed Flycatchers (Tyrannus Savana) Gómez-Bahamón VN, Chen ER, Tuero DT, Assis M, Marini MÁĆ, Bates J	Long-term Change in the Intrinsic and Extrinsic Drivers of Individual Fitness Arcese P, Germain R
1500	The Effects of Habitat Management and Landscape Context On Northern Bobwhite Winter Survival in Southwest Missouri Mosloff AR, Weegman MD, Thompson III FR, Thompson T	Using Nestboxes To Understand If Landscape Influences American Kestrel Reproduction and Movements Along an Urban Gradient in Northern Utah, USA Watson J, Oleyar D	Hatching Date Influences Winter Habitat Quality: Examining Seasonal Interactions Across the Full Annual Cycle in Prairie Warblers Akresh ME, King DI, Marra PP	Space-use of Nesting and Non-nesting Brachyramphus Murrelets in Icy Bay, Alaska, 2007–2012 Kissling ML, Lukacs PM, Lewis SB, Gende SM	Unidirectional Introgression Between Rhegmatorhina Hoffmannsi and R. Berlepschi in the Amazon Forest Del-Rio GC, Rego MA, Whitney BM, Schunck F, Silveira LF, Faircloth BC, Brumfield RT	Comparative Demography At the Core and Southern Edge of the Black-throated Blue Warbler Breeding Range Chandler RB, Chitwood R, Lewis W, Sillett TS, Cooper RJ
1515	Mapping Wetland Habitat Using Remote Sensing Data for the Critically Endangered White-bellied Cinclodes (Cinclodes Palliatus) Gibbons RE, Otto M	Connecting Environment, Stress Coping Capacity, and Fitness: Insights From a Nest-box Breeding Population of Tree Swallows (Tachycineta Bicolor)	Geolocators and Stable Isotopes Reveal the Migratory Route and Overwintering Locations of an Arctic-breeding Passerine McFarland HR, Will A, Powell A	Wide-ranging Movements and Long Nest-sea Commutes By Marbled Murrelets in Washington Lorenz TJ, Raphael MG, Bloxton TD		Unintended Consequences of Translocation: Reproductive Skew and Reduced Effective Population Size in the Red-cockaded Woodpecker Bowman JR, Thompson
			LUNCH BRE	AV		GT, Angell E

Friday, Early Afternoon Session *indicates student presenters eligible for AOS presentation award

Room	Summit 5	Summit 6	Summit 7/8	Summit 9/10	Summit 11/12	Summit 13/14
Session	Disease, Parasites	Disease, Parasites Abundance, Occupancy, Trends		Symposium: Wild Birds and the One Health Initiative: Dynamic Boundaries Affect the Health of Birds, Livestock, Humans, and the Environment (Ramey)	Symposium: Translational Ecology - Producing Actionable Science (Saunders)	Symposium: The Future of Global Bird Trait Datasets: A Game-changing Resource for Macroecology, Macroevolution and Conservation Biology? (Tobias)
1400	Extensive in Situ Radiation of Feather Lice On Tinamous Virrueta Herrera S, Weckstein JD, Sweet AD, Allen JM, Walden KK, Johnson KP	Population Trends and Connectivity of Snowy Plovers On the Southern Great Plains Heath KM, Conway WC, Boal CW, Collins DP, Beauchamp JS, Johnson WP, Hensley G, Saalfeld ST, Grisham BA	What About Those Rare Species? Study Design Implications for Multi-species Avian Monitoring Programs Sanderlin JS, Ganey JL, Block WM, Schwartz MK, McKelvey KS	Antibiotic Resistance Dissemination Through Wild Birds Bonnedahl J	Creating a Win-Win for Ranchers and Waterbirds Through Co-Produced Conservation (Social) Science Dayer AA, Sketch M, Anders L, Metcalf A	Exploring the Links Between Morphological Form and Ecological Function in Birds Tobias JA
1415	Ecological Drivers of Backyard Bird Feeding and Consequences for Parasite Transmission Hall RJ	Trends in Abundance and Habitat Associations of Forest Birds On Southern National Forests 1992-2017 Matseur EA, Bonnot TW, Thompson FR, Thorning MG	Estimation of Occupancy Parameters for Breeding Birds On the Basis of Single-Visit and Multiple-Visits Point-Count Designs Leu M, Scherer RD, Jirinec V, Fleishman E	Bonnedahl - Continued	Co-production of a Continental-scale Movement and Energetics-based Framework for Collaborative Management of Waterbird Populations Thogmartin WE	Stranger Things: Elaboration and Innovation of Island Avifaunas Thomas GH, Cooney C, Beckerman A, Bright J
1430	Role of Food Availability On a Bird's Response To a West Nile Virus Infection Owen JC, Dupuis AP, Landwerlen H, Kramer L	Long-term Avifaunal Change in Undisturbed Amazonian Rainforest: Pervasive Declines and Shifting Baselines Stouffer PC, Rutt CL, Jirinec V, Midway SR	The Impacts of Temporary Emigration On Colonization and Extinction Estimates in Dynamic Occupancy Models Valente JJ, Hutchinson RA, Jirinec V, Leu M, Betts MG	Whole Genome Sequencing Provides Inference On the Epidemiology of Antibiotic Resistant Bacteria in Wild Birds Ahlstrom CA, Bonnedahl J, Ramey A	Developing a Unified Framework for Avian Monitoring in Pacific Northwest Estuaries Bayard TS, Slater G, Spragens K, Koberstein M, Summers A	Global Raptor Research and Conservation Priorities: Tropical Raptors Fall Prey To Knowledge Gaps Buechley ER, Santangeli A, Girardello M, NeateâĂŘClegg MH, Oleyar D, McClure CJ, Sekercioglu CH
1445	Haemosporidians Show Seasonal Patterns but Little Host Specificity Within a Chickadee Hybrid Zone Rice AA, Curry RL, Weckstein JD	Estimating Hawaiian Songbird Population Density Using Machine-learning Produced Annotations of Automated Acoustic Recordings Weyenberg GS, Rumpungworn M, Howells L, Paxton KL, Crampton LH, Hart PJ	Nested Sampling of Forest Restoration Treatments Reveals Different Species Occupancy and Richness Patterns Depending On Spatial Scale Latif QS, Pavlacky DC, Sparks RA, Truex RL	Prevalence, Diversity, and Transmission of Blood Parasites in Alaskan Avifauna Smith MM, Van Hemert C, Meixell B, Handel C, Ramey A	Moving Bird Conservation Forward Through Collaborative Action Targeting Grasslands and Wetlands in the Chicago Wilderness Region Beilke SJ, Miller N, Suarez D, Kasberg B	Global Patterns and Predictors of Dispersal-trait Variation in Birds Sheard CE, Neate-Clegg M, Alioravainen N, Jones SE, Vincent C, MacGregor HE, Bregman TP, Seddon N, Tobias JA
1500	Avian Genomic 'bycatch' Facilitates the Study of Symbiont Ecology and Evolution Galen SC, Perkins S	Factors Related To Occupancy Dynamics and Breeding Propensity of Northern Spotted Owls in a Protected Area: Habitat, Weather and Barred Owls Dugger KM, Mangan AO, Chestnut T, Vogeler JC, Breckheimer IK, King WM, Bagnall KE	Broad-scale Monitoring To Evaluate the Contribution of Local Conservation To Regional Bird Populations Green AW, Pavlacky DC	Smith - Continued	Shared Stewardship for Bird Conservation: Linking Backyard Habitats, Citizen Science and Yard Management Lerman SB, Marra PP, Reitsma R, Evans BS, Narango DL, Clipp H	What Information Do We Need To Anticipate the Interaction Pattern of a Hummingbird? Martin Gonzalez AM
1515	Sialic Acid Quantity and Glycosidic Linkage On Avian Erythrocytes Fair JM, Jankowski M, Glaberman S, Kimball D, McCabe K	Applying an Ensemble of Small Models To Predict Breeding Distribution of Virginia's Warbler in South Dakota Goljani Amirkhiz R, Dixon MD, Palmer JS, Swanson DL	On Point Count Sampling for Understanding Recruitment, Survival and Movement Zhao QN	Panel Discussion	Reducing the Impacts of Cats On Birds in Canada Through Collaborative Efforts With Multiple Stakeholders Gow EA	Sex Biases in Natural History Collections and Consequences for Bird Trait Studies Cooper N"
			COFFEE BRI	EAK		

Friday, Late Afternoon Session *indicates student presenters eligible for AOS presentation award

Room	Arteaga Theatre	Cook Theatre	Summit 1	Summit 2	Summit 3	Summit 4		
Session	Conservation	Symposium: Long-term Studies of Cavity-nesting Birds: Windows Into Environmental Change (Duckworth)	Migration & Stopover	Symposium: Seabirds On the Edge of Two Worlds: Ecology and Conservation of Brachyramphus Murrelets in Marine and Terrestrial Environments (Rivers)	Genomics	Behavior		
1600	Site Fidelity and Pairing Behavior in a Wintering Population of American Kestrels in North Texas Biles KS, Bednarz JC	Long-term Dynamics of Tree-cavity-nesting Communities in Temperate and Subtropical Forests Cockle KL, Norris AR, Wiebe KL, Trzcinski MK, Edworthy AB, Martin K	Global Trends in Avian Partial Migration: a Meta-analysis Zavaleta ES	Dispersal and Marine Habitat Use During the Breeding Season By the Marbled Murrelet in Oregon Garcia-Heras M, Adrean LJ, Nelson SK, Roby DD, Betts MG, Rivers JW	Population Genomics of Greater White-fronted Goose Wilson RE, Sonsthagen SA, Ely CR, Talbot SL, DaCosta JM, Sorenson MD, Scribner KT, Weaver M, Skalos D	Timing of Breeding in American Coots: Bet-hedging Against Nest Predation When Reproductive Performance Declines With Season Lyon BE		
1615	Life On the Edge: Density and Demography of Marsh Wrens and Seaside Sparrows in Northeastern Florida Schwarzer AC, Cox WA	Cockle - Continued	Nocturnal Bird Migration and Light: Midnight Sun, a Solar Eclipse and Artificial Light Nilsson CH, Horton KG, Dokter A, Van Doren B, Farnsworth A	Distribution and Use of Freshwater Habitats By Kittlitz's Murrelets On Lakes in the Lower Wood River Lake System, Alaska Nesvacil KA, Pendleton G, Swaim M, Walsh P	The Long and the Short of It: Linking Genome-wide Signatures of Selection Across Evolutionary Timescales in Birds Shultz AJ, Arnold B, Sackton TB	Manipulated Sex Ratios Alter Group Structure and Cooperation in the Brown-headed Nuthatch Cox JA, Cusick JA, DuVal EH		
1630	Saving the Kiwikiu (Pseudonestor Xanthophrys): Recovery Efforts in Maui, Hawaii Mounce HL, Farmer C, Berry L, Masuda B, Warren C, Berthold L, Duvall F	Population Increases Despite Habitat Saturation: What Can We Learn From Five Decades of Research? Walters EL, Hagemeyer ND, Barve S, Pesendorfer MB, Koenig WD	Migration of Buff-breasted Sandpipers At Two Key Regions in the Mid-continent: Northern Gulf of Mexico and the Flint Hills Lyons JE, Andres BA, Penner RL, Stone K, Wolfenbarger LL	Seasonal Offshore Distribution and Habitat Use of Brachyramphus Murrelets in Alaska Labunski EA, Kuletz K, Osnas E	Comparative Genomic Structure Within Alaskan Galliforms Sonsthagen SA, Wilson RE, Merizon RA, Talbot SL	Helpers Mitigate Negative Effects of Predation Threat in the Cooperatively Breeding Purple-backed Fairy Wren Meyer DK, Kinnebrew E, Pruett-Jones S, Johnson AE		
1645	Forest Area Required To Support Landbird Population Goals for the Mississippi Alluvial Valley Twedt DJ, Mini A	Consequences of Long-term Habitat Change and Resource Selection for Population Limitation in Cavity-nesting Birds Martin TE	Migratory Bird Twilight Ascent and Descent Rates Along the Southwestern Shoreline of Lake Erie Wellik MJ, Kirsch EM, Sheildcastle M	Consistent Post Breeding Movements of Marbled Murrelet From British Columbia To Alaska (2014-2016) Bertram DF, MacDonald CA, O'Hara PD, Cragg JL, Corcoran R, Greene R, Woo K	Evolutionary Genomics of the Brown Creeper Manthey JD, Klicka J, Spellman GM	AI Seeking Birds At Night: an Innovative Method To Monitor the Position of Nocturnal Species Using Microphone Arrays and Robot Audition HARK Matsubayashi SS, Saito F, Suzuki R, Nakadai K, Okuno HG		
1700	Do Piping Plovers in the Northern Great Plains Function As a Metapopulation & Why Does It Matter for Conservation? Anteau MJ, Swift RJ, Sherfy MH, Toy DL, Ring MM	Martin - Continued	Migratory Behavior of the Western Burrowing Owl: Connecting Canada, United States, and Mexico Conway CJ, Wellicome TI, Johnson DH, Conley JL, Lundblad CG, Bruinsma DR, Fisher RJ	Post-breeding Migration of Kittlitz's Murrelets From the Gulf of Alaska To the Bering Sea and Beyond Douglas DC, Piatt JF, Arimitsu ML, Madison EN, Kissling ML, Schoen SK				
1715	Generating Indicator Species for Monitoring and Management for the Cockscomb Basin Wildlife Sanctuary, Belize King DI, Jeffery M, Bailey BA	Panel Discussion Fair J		Panel Discussion				
LUNCH BREAK								

7riday, Late Afternoon Session *indicates student presenters eligible for AOS presentation award

Summit 5	Summit 7/8	Summit 9/10	Summit 11/12	Summit 13/14
Management, Policy	Symposium: Counting Unmarked Birds ÂĂŞ Matching Appropriate Sampling and Modeling Techniques With Particular Research Questions (Latif)	Symposium: Wild Birds and the One Health Initiative: Dynamic Boundaries Affect the Health of Birds, Livestock, Humans, and the Environment (Ramey)	Symposium: Translational Ecology - Producing Actionable Science (Saunders)	Symposium: The Future of Global Bird Trait Datasets: A Game-changing Resource for Macroecology, Macroevolution and Conservation Biology? (Tobias)
The Nsf Is Growing Pathways To Stem for Rural Community College Students Via Community Partnerships and Intensive Mentoring Gillespie LM, Heinisch S, Grandgenett N	A General Framework To Integrate Repeated Count and Mark-resight Data Rushing CS, Hostetter NJ, Boettcher R, Lyons J	It's Not Just Flowerpots and Tires: Defining the Impacts of West Nile Virus On a Woodland Bird, Ruffed Grouse Williams LM, Brown JD, Nemeth NM, Hutchinson ML, Helwig MW, Kyle AD	Audubon's Vision: Restoring the Gulf of Mexico for Birds and People Lankford KE	Responses of Bird and Plant Communities To Global Change: Coupled Or Decoupled? Schleuning M
Landscape Composition Explains High Rates of Dispersal in Translocated Lesser Prairie-chickens Berigan LA, Aulicky C, Sullins D, Haukos D, Fricke K, Reitz J, Rossi L, Schultz K	The Potential of Citizen Science Data for Population Monitoring Johnston AA, Strimas-Mackey ME, Hochachka WM, Robinson O, Ruiz Gutierrez V, Miller E, Auer MT, Fink D	Williams - Continued	Using Structured Decision Making To Connect Bird Monitoring To Restoration Decision-making Adams EM, Fournier AM, Lyons JE, Wilson R, Gleason JS, Brush JM, Cooper RJ, DeMaso SJ, Driscoll MJ, Frederick PC, Jodice PG, Reeves DB	Avian Functional Traits and the Impacts of Climate Change On Ecosystem Function Pigot AL, Trisos C, Merow C, Tobias J
The Interactive Effects of Fire and Recreation On Golden Eagles Davis CM, Heath JA	Scaling Up By Integrating Standardized and Unstandardized, Community Science Count Data: a Case Study in the Upper Mississippi River Michel NL, Meehan TD, Saunders SP	Urban White Ibises Facing Trade-offs in South Florida 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	A Strategic Plan for Monitoring Birds in the Gulf of Mexico: Translating Stakeholder Values Into Priorities Fournier AM, Lyons JE, Wilson R, Gleason JS, Adams EM, Brush JM, Cooper RJ, DeMaso SJ, Driscoll MJ, Frederick PC, Jodice PG, Reeves DB	How Trait Data Help Improving Avian Biodiversity Forecasts Under Global Change Zurell D
Duration of Corvid Response To Forest Restoration Thinning: Implications for Conservation of the Threatened Marbled Murrelet Hagar JC, Waianuhea LK	Designing a Bird Survey for Latin America: the PROALAS Protocol in EBird Ruiz-Gutierrez VV, Lello-Smith A, Ortega Alvarez R	Lessons Learned From Research and Surveillance Directed At Highly Pathogenic Influenza Viruses in Wild Birds of North America Ramey AM, DeLiberto TJ, Berhane Y, Swayne DE, Stallknecht DE	Golden-winged Warbler Conservation: Using Science To Take Action Fowle MR, LaBarr MS, Barker SE	The Impacts of Diversity and Assembly History On Community Vulnerability Weeks BC, Tobias J
Effective Multi-scale Governance for Migratory Shorebirds. Lessons From the EAAF and an Australian Wetland Site Hamman EV		Ramey - Continued	An Assessment of Ecological Value and Vulnerability in the Bering, Chukchi, and Beaufort Seas Smith MA, Goldman M, Knight E, Sullender B	Panel Discussion
		Panel Discussion OFFEE BREAK	Synthesizing Full Annual Cycle Science and Threats To Drive Conservation and Policy Actions for North American Migratory Birds Deppe JL, Auer T, Knight E, Langham G, Marra P, Mackenzie S, Rosenberg K, Smith M, Taylor L	Panel Discussion
	The Nsf Is Growing Pathways To Stem for Rural Community College Students Via Community Partnerships and Intensive Mentoring Gillespie LM, Heinisch S, Grandgenett N Landscape Composition Explains High Rates of Dispersal in Translocated Lesser Prairie-chickens Berigan LA, Aulicky C, Sullins D, Haukos D, Fricke K, Reitz J, Rossi L, Schultz K The Interactive Effects of Fire and Recreation On Golden Eagles Davis CM, Heath JA Duration of Corvid Response To Forest Restoration Thinning: Implications for Conservation of the Threatened Marbled Murrelet Hagar JC, Waianuhea LK Effective Multi-scale Governance for Migratory Shorebirds. Lessons From the EAAF and an Australian Wetland Site	Management, Policy Appropriate Sampling and Modeling Techniques With Particular Research Questions (Latif) A General Framework To Integrate Repeated Count and Mark-resight Data Rushing CS, Hostetter NJ, Boettcher R, Lyons J Management N Landscape Composition Explains High Rates of Dispersal in Translocated Lesser Prairie-chickens Berigan LA, Aulicky C, Sullins D, Haukos D, Fricke K, Reitz J, Rossi L, Schultz K The Interactive Effects of Fire and Recreation On Golden Eagles Davis CM, Heath JA The Interactive Effects of Fire and Recreation On Golden Eagles Davis CM, Heath JA Duration of Corvid Response To Forest Restoration Thinning: Implications for Conservation of the Threatened Marbled Murrelet Hagar JC, Waianuhea LK Effective Multi-scale Governance for Migratory Shorebirds. Lessons From the EAAF and an Australian Wetland Site Hamman EV	Management, Policy Manage	Symposium: Counting Ummarked Birds Ads Mastching Appropriate Sampling and Modeling Techniques With Particular Research Questions (Latif) The Not Is Growing Purloways To Stem for Research Questions (Latif) A General Framework To Integrate Repeated Count Améric Steph Dura Resulting CS. Hostatter NJ. Boettcher R. Lyons J. Science Dust for Population Ministry Disperal in Trainsocated Lesser Prairte-chickens Science Dust for Population Ministry Disperal in Trainsocated Lesser Prairte-chickens Johnston AA. Strimas-Mackey ME. Locked M. M. Robinson O. Ratic Guiterret W. Miler E. Anor M. I. Willer E. Anor M. I. Willer Dovis CM. Heath JA Duration of Corvid Response To Forest Response