10th Biennial Conference
VANCOUVER, CANADA

POCKET PROGRAM
June 2-6, 2022
POCKET PROGRAM
June 2-6, 2022
Vancouver Convention Centre - East Building

Ground Level

**Ballroom C**: Opening/Closing/Awards
Symposia & Concurrent Sessions 4, 8, 12, 16 & 20

Upper Level

Remaining Concurrent Sessions, Poster Sessions & Breaks
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• Tereza Jezkova (VP Conferences)
• Karen Faller
• Seda Akkurt Gumus
• Lucile Leveque
• Arne Mooers
• Sarah (Sally) Otto
• Dolph Schluter

2022-2024
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- Francisco Henao Diaz
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- Anne-Kathleen Malchow, Greta Bocedi, Rebekka Allgayer, Justin Travis, Damaris Zurell
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- Alexandra Shupinski (University of Nebraska at Lincoln, USA)
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BEST IN-PERSON PRESENTATION

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STUDENT TRAVEL AWARDS

GENERAL SPONSOR
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<td>Welcome MacArthur &amp; Wilson Award Talk</td>
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<td>Welcome</td>
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<td>Speciation, extinction and the origins of the latitudinal diversity gradient</td>
<td>MacArthur &amp; Wilson Award - Jason Weir</td>
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<td>Introduction</td>
<td>Felisa Smith</td>
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<td>Biogeography everywhere, all the time: remote sensing as a source of technological innovation</td>
<td>James Kellner</td>
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<td>Drone ecology reveals the landscape context of Arctic global change.</td>
<td>Isla Myers-Smith</td>
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<td>Historical ecology of sea otters from Alaska to California: A case study in the use of compound-specific stable isotope analysis for paleoecology and conservation.</td>
<td>Emma Elliott Smith</td>
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<td>Advances in stable isotope analysis for paleoecology: a case study with sharks</td>
<td>Sora Kim</td>
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<td>HumBug - an acoustic mosquito monitoring tool using budget smartphones</td>
<td>Marianne Sinka</td>
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<td>Pathogeography - recent advances in biogeographical study of human infectious diseases</td>
<td>Kris Murray (Virtual)</td>
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<td>Biogeography and macroecology of biological invasions: State of the art</td>
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<td>Introduction</td>
<td>Mary O’Connor</td>
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<td>Global drivers of marine predator diversity</td>
<td>John Grady</td>
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<td>Thermal safety, environmental variability, and biodiversity change</td>
<td>Amanda Bates</td>
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<td>Conservation biogeography and genomic restoration in the sunflower sea star</td>
<td>Lauren Schiebelhut</td>
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<td>Beyond temperature and range shifts: Coastal ecosystems along the Southeastern Pacific are being transformed by changes in pelagic productivity</td>
<td>Sergio Navarrete</td>
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<td>Temporal analysis of warming-driven distributional changes in macroalgae.</td>
<td>Rosa Chefaoui</td>
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<td>The role of species interactions in mediating biogeographic responses to a changing climate</td>
<td>Chris Harley</td>
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<td>The functional consequences of extinctions: From giant sharks to small mollusks</td>
<td>Catalina Pimiento (Virtual)</td>
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<td>Spatial structure of biodiversity: local and regional patterns in an insular ecosystem</td>
<td>Dissertation Award - Antonia Salces-Castellano</td>
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<td>Introduction</td>
<td>Kathy Willis</td>
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<td>09:05 am</td>
<td>The biogeography of useful plants: reconciling biodiversity and humanity.</td>
<td>Samuel Pironon</td>
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<td>09:30 am</td>
<td>Integrated macroecological-paleoecological perspectives on large-herbivore effects on ecosystems – implications for conservation and restoration</td>
<td>Jens-Christian Svenning</td>
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<td>09:55 am</td>
<td>Restoring ecosystems and landscapes for multiple benefits</td>
<td>Robin Chazdon</td>
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<td>Pining for home: assisted migration as a climate change adaptation strategy</td>
<td>Gregory O’Neill</td>
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<td>The relevance of historical perspectives to species recovery</td>
<td>Loren McClenachlan</td>
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<tr>
<td>11:35 am</td>
<td>Saving seahorses means saving ocean spaces</td>
<td>Amanda Vincent</td>
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<tr>
<td>12:00 am</td>
<td>Shifting the conservation paradigm: goals and options for managing biodiversity and ecosystems</td>
<td>Suzanne Prober (Virtual)</td>
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<td>Panel Discussion</td>
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### Session 1
**Climate Change Biogeography**
**Rooms 2&3**

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<tr>
<td>02:00 pm</td>
<td>Body-size and food-web interactions mediate species range shifts under warming</td>
<td>Pinsky, Malin</td>
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<td>02:15 pm</td>
<td>Rising minimum temperatures due to climate change contributed to 50-years of butterfly community shifts in high-latitude, western North America</td>
<td>Shirey, Vaughn</td>
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<td>02:30 pm</td>
<td>Tree productivity and thermophilization across a latitudinal forest gradient</td>
<td>Perez, Timothy</td>
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<td>Tree-ring records reveal that climate-envelope approaches underestimate population vulnerability to recent climate change</td>
<td>Perret, Daniel</td>
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<td>03:00 pm</td>
<td>Biotic and Climate Velocities from the Last Glacial Maximum to present: Can the Trees Keep Up?</td>
<td>Dawson, Andria</td>
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<td>03:15 pm</td>
<td>Integrating physiology and biogeography: spatial variation of thermal tolerances of different insect taxa in central Europe and Pakistan</td>
<td>Hof, Christian</td>
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### Session 2
**Species Distributions**
**Room 8**

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<td>Birds on the Move: Forty Years of Breeding Range Shifts of Migratory Birds in Illinois</td>
<td>Dorman, Wendy</td>
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<td>Changes in small mammal species distributions following the terminal Pleistocene megafauna extinction</td>
<td>Lyons, Kathleen</td>
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<td>Mapping known and undiscovered ant biodiversity across the globe and assessing agreement and mismatch with vertebrates</td>
<td>Kass, Jamie</td>
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<td>02:45 pm</td>
<td>Multi-species distribution models and bias adjustments for large biodiversity datasets: an application to &gt;10 000 species of the European Flora</td>
<td>Jones, Abbie Gail</td>
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<td>Distributions are more than habitat amount: the metapopulation structure is a vital element to distribution change</td>
<td>Cameron, Victor</td>
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### Session 3
**Biodiversity Patterns & Maintenance**
**Room 11**

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<td>Unpacking patterns in mammal functional and phylogenetic diversity in the Anthropocene</td>
<td>Hedberg, Carson</td>
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<td>Evolutionary history, paleo- and contemporary abiotic filters drive tropical mammal community structure</td>
<td>Hsieh, Chia</td>
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<td>Extending trait-based inferences of ecological assembly processes to multitrrophic communities</td>
<td>Lessard, Jean-Philippe</td>
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<td>Developing methods for invertebrate macroecology on the continental scale using the NEON pitfall network</td>
<td>Marshall, Katie</td>
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<td>Deep learning in ecology and biogeography: making the most of temporal data</td>
<td>Cela-Hasse, Ana</td>
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<td>Borrowing predictive strength across species to map more of biodiversity</td>
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### Session 4
**Island Biogeography**
**Ballroom C**

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<td>Dissecting dynamicity of fish communities in island-like marine lakes</td>
<td>Carlson, Bailey</td>
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<td>How Invaded are Hawaiian Forests? Top-down and Bottom-up Views Provide Contrasting Assessments of Degradation by Non-native Plants</td>
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<td>Source Areas and Dispersal Patterns within the Macaronesian Flora</td>
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<td>Threatened and extinct island endemic birds: distribution, threats and ecological function</td>
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<td>Schizomids: little arachnids, big implications for the generality of island diversity patterns in Palau (Micronesia)</td>
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<td>Fossil pollen sequences reveal changing biodiversity dynamics after human arrival on islands</td>
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### Session 5
**Climate Change & Conservation Biogeography**
*Rooms 2&3*

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<td>Climate change winners and losers among North American bumble bees</td>
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<td>Planted to thrive? Climatic viability of tree species in forest</td>
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<td>Geographic Range Dynamics of Māori and Moa</td>
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<td>A Mammoth buffet: resolving extinct herbivore community structure</td>
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<td>The effects of climate change on Australia’s only endemic</td>
<td>Warren, Dan</td>
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<td>Pokémon: Measuring bias in species distribution models</td>
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<td>Genetic patterns and distribution of the worldwide invasive red-eared</td>
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<td>Landscape fragmentation of the Natura 2000 network and its</td>
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### Session 6
**Gradients & Range limits**
*Room 8*

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<td>Living up to thermal potentials: Global patterns of thermal niche</td>
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<td>How to get high: Positive and relaxed selection on mitochondrial</td>
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<td>Mathematically and biologically consistent framework for</td>
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<td>The global drivers of tree range-edge hotspots</td>
<td>Lerner, David</td>
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<td>Physical constraints drive morphological evolution and geographical</td>
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<td>05:15 pm</td>
<td>Drivers of plant-pollinator interaction rewiring across a spatial</td>
<td>Arrowsmith, Kaysee</td>
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<tr>
<td></td>
<td>gradient</td>
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<tr>
<td>05:30 pm</td>
<td>New tree-level temperature response curves document sensitivity,</td>
<td>Gantois, Joséphine</td>
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<td></td>
<td>acclimatization, and adaptation to high temperatures</td>
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### Session 7
Phylogeography/Biodiversity
Room 11

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>04:00 pm</td>
<td>Modeling genetic divergence and mapping phylogeographic breaks using machine learning</td>
<td>Mascarenhas, Riquier</td>
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<tr>
<td>04:15 pm</td>
<td>Climatic instability through time shaped the global distribution of polyploid diversity in flowering plants</td>
<td>Hagen, Eric</td>
</tr>
<tr>
<td>04:30 pm</td>
<td>Biogeographic inferences across spatial and evolutionary scales</td>
<td>Wishingrad, Van</td>
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<tr>
<td>04:45 pm</td>
<td>Is the Tongue of the Ocean a phylogeographic barrier for Bahamian reef fishes?</td>
<td>Ilves, Katriina</td>
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<tr>
<td>05:00 pm</td>
<td>Integrating fossils and phylogenies reveals a boreotropical origin of the tea family (Theaceae)</td>
<td>Yan, Yujing</td>
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<tr>
<td>05:15 pm</td>
<td>Detecting the phylogenetic signal of glacial refugia in a biodiversity hotspot outside the tropics</td>
<td>Wu, Ernest</td>
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<tr>
<td>05:30 pm</td>
<td>Diversification cradles in the Sahara-Sahel: contrasting evolutionary histories in functional groups urges a reassessment of priority conservation zones</td>
<td>Liz, André Vicente</td>
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### Session 8
Models & Methods in Biogeography
Ballroom C

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>04:00 pm</td>
<td>A joint SDM to study different observational data sets and account for their sampling designs</td>
<td>Makinen, Jussi</td>
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<tr>
<td>04:15 pm</td>
<td>Niche Divergence Plane: New conceptual framework to classifying and quantifying ecological niche divergence between taxa</td>
<td>Ascanio, Alfredo</td>
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<tr>
<td>04:30 pm</td>
<td>From tropics to treeline: Drivers of global variation in plant mortality rates</td>
<td>Borrego, Isaac</td>
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<tr>
<td>04:45 pm</td>
<td>Null models suggest that mammalian endemism is constrained by geography, not species niche breadth</td>
<td>Shipley, Benjamin</td>
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<tr>
<td>05:00 pm</td>
<td>New survey data might be key to understanding limitations of species distribution and abundance models for arctic shrubs</td>
<td>Chardon, Nathalie</td>
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<tr>
<td>05:15 pm</td>
<td>Using herbarium specimens to quantify changes in insect herbivory in northeast North America over the past century</td>
<td>Kharouba, Heather</td>
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<tr>
<td>05:30 pm</td>
<td>Continuous land cover change detection in Subtropical Thicket ecosystems</td>
<td>Mahlasi, Craig</td>
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### Session 9
**Climate Change Biogeography**
**Rooms 2&3**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>02:00 pm</td>
<td>Using standardized genomic offsets to add an evolutionary perspective to climate change biogeography</td>
<td>Lachmuth, Susanne</td>
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<tr>
<td>02:15 pm</td>
<td>Trends in shifting phenologies and asynchrony in response to recent changes in climate</td>
<td>Loughnan, Deirdre</td>
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<td>02:30 pm</td>
<td>Natural and dammed rivers: which is better for salmon's summer?</td>
<td>Redana, Matteo</td>
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<td>02:45 pm</td>
<td>Climate change drives mountain butterflies towards the summits</td>
<td>Rödder, Dennis</td>
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<td>03:00 pm</td>
<td>Limited protection and ongoing loss of tropical cloud forest biodiversity and ecosystems worldwide</td>
<td>Karger, Dirk</td>
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<tr>
<td>03:15 pm</td>
<td>Conservation prioritization in the European Alps: The Mediterranean and Alpine Flora at risk</td>
<td>Chauvier, Yohann</td>
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<td>03:30 pm</td>
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### Session 10
**Paleoecology & Paleobiogeography**
**Room 8**

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<th>Time</th>
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<tr>
<td>02:00 pm</td>
<td>Spatio-temporal distribution of pollen traits to interpret long-term changes in plant communities</td>
<td>Nogué, Sandra</td>
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<tr>
<td>02:15 pm</td>
<td>Expanding ecometric analyses to explore geographic patterns of faunal responses to change</td>
<td>Short, Rachel</td>
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<td>02:30 pm</td>
<td>How long does it take for related species to coexist? Biodiversity gradients in species coexistence, the space and time of diversity accumulation.</td>
<td>Henao Diaz, Francisco</td>
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<tr>
<td>02:45 pm</td>
<td>Variation in the productivity-diversity relationship in during last 21,000 years indicate both equilibrium and disequilibrium dynamics</td>
<td>Šímová, Irena</td>
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<td>03:00 pm</td>
<td>Survivors of the Ice Age: Rancho La Brea mesocarnivores from late Pleistocene to modern-day</td>
<td>Balisi, Mairin</td>
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<td>03:30 pm</td>
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### Session 11
**Historical Biogeography**
**Room 8**

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<th>Time</th>
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<tbody>
<tr>
<td>02:00 pm</td>
<td>Blooming on the roof of the world -- The origin and assembly of the alpine biodiversity in the Tibeto-Himalaya-Hengduan region</td>
<td>Ding, Wenna</td>
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<td>02:15 pm</td>
<td>Stability of knowledge about mammal-pathogen interactions through time and space</td>
<td>Robles Fernández, Ángel Luis</td>
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<td>02:30 pm</td>
<td>Do the small-ranged species of mammals diversify slower?</td>
<td>Smyčka, Jan</td>
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<td>02:45 pm</td>
<td>The interaction of climate history and evolution impacts alpine biodiversity assembly differently in freshwater and on land</td>
<td>Jardim de Queiroz, Luiz</td>
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<td>03:00 pm</td>
<td>Life-history traits mediate avian demographic responses under past climate change</td>
<td>Nogués-Bravo, David</td>
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### Session 12
**Biodiversity Patterns, Species Distributions & Maintenance**
**Ballroom C**

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<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>02:00 pm</td>
<td>Analysing the Drivers of Speciation in the Hengduan Mountains, China</td>
<td>Yuan, Zili</td>
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<tr>
<td>02:15 pm</td>
<td>Species distribution models affected by positional uncertainty in species occurrences can still be ecologically interpretable</td>
<td>Gabor, Lukas</td>
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<td>02:30 pm</td>
<td>The links between larval and adult fish diversity</td>
<td>Lazarus, Mai</td>
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<td>02:45 pm</td>
<td>Drivers of past ecological change in Tonga and Vanuatu.</td>
<td>Strandberg, Nichola</td>
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<td>03:00 pm</td>
<td>Diversity dynamics in birds of New World</td>
<td>Machac, Antonin</td>
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<td>03:15 pm</td>
<td>Chemical properties of key metabolites determine the global distribution of lichens</td>
<td>Schweiger, Andreas</td>
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### Session 13
**Conservation Biogeography**
**Rooms 2&3**

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<tr>
<td>04:00 pm</td>
<td>Modeling the biodiversity enhancement value of seagrass beds</td>
<td>McHenry, Jennifer</td>
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<td>04:15 pm</td>
<td>Classification and biogeography of Antarctic ice-free ecosystems</td>
<td>Toth, Aniko</td>
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<td>04:30 pm</td>
<td>Predicting the present and uncertain future for Canada’s terrestrial vertebrates and plants</td>
<td>Pollock, Laura</td>
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<tr>
<td>04:45 pm</td>
<td>Iterative ecological niche modeling and field surveys of the rare Ivesia webberi</td>
<td>Borokini, Israel</td>
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<td>05:00</td>
<td>Setting priorities for long term conservation: A flexible selection approach</td>
<td>Voskamp, Alke</td>
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<tr>
<td>05:15 pm</td>
<td>Biogeography and conservation of marine crabs</td>
<td>Maureaud, Aurore</td>
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### Session 14
**Functional Biogeography**
**Room 8**

<table>
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<tr>
<th>Time</th>
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<tr>
<td>04:00 pm</td>
<td>The Ecorichness - Area Relationship (ECAR) as a tool to explore community assembly</td>
<td>Sfenthourakis, Spyros</td>
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<td>04:15 pm</td>
<td>Global variation in avian functional traits: introducing AVONET, a new standard of morphological, ecological and geographical data for all birds</td>
<td>Fritz, Susanne</td>
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<td>04:30 pm</td>
<td>Predictive mapping of intraspecific trait variation among California’s grasses</td>
<td>Sandel, Brody</td>
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<tr>
<td>04:45 pm</td>
<td>Winegrape cold tolerance at the range edge: the influence of genetic variation and climate change</td>
<td>Jones, Faith</td>
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<td>05:00</td>
<td>What may shape local persistence of plant species on edaphic islands? Insights from a functional island biogeographic approach</td>
<td>Ottaviani, Gianluigi</td>
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<tr>
<td>05:15 pm</td>
<td>Drivers of Phylogenetic and Functional diversity of terrestrial mammals across biogeographic zones of India</td>
<td>Chatterjee, Nilanjan</td>
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### Session 15
**Invasion Biogeography/Species Distribution/Diversity**
**Room 11**

<table>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>04:00 pm</td>
<td>Ecological sampling cover estimation for dung beetles (Coleoptera: Scarabaeidae) in Turkey</td>
<td>Akkurt Gumus, Seda</td>
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<tr>
<td>04:15 pm</td>
<td>Introduced herbivores restore Late Pleistocene ecological functions</td>
<td>Lundgren, Erick</td>
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<td>04:30 pm</td>
<td>Landscape connectivity from the perspective of ectomycorrhizal fungi</td>
<td>Johnson, Liam</td>
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<td>04:45 pm</td>
<td>Birdlife range maps differ from statistically derived ones but not enough to alter conclusions on drivers of diversity</td>
<td>Aronsson, Heléne</td>
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<tr>
<td>05:00 pm</td>
<td>A global analysis of habitat change research in reptiles and amphibians: What have we done so far?</td>
<td>Tan, Nicholas Wei Cheng</td>
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<tr>
<td>05:15 pm</td>
<td>Mechanistic SDMs and connectivity models: The highly invasive African Clawed Frog (Xenopus laevis) in Europe</td>
<td>Ginal, Philip</td>
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### Session 16
**Biodiversity Patterns & Maintenance**
**Ballroom C**

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<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>04:00 pm</td>
<td>The clustering of spatially associated species to unravel patterns in species distributions</td>
<td>Pang, Sean</td>
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<tr>
<td>04:15 pm</td>
<td>Equilibrium Theory of Biodiversity Dynamics: Interplay between patterns of diversity, abundance and energy</td>
<td>Storch, David</td>
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<td>04:30 pm</td>
<td>Impact of geological and climate factors on plant biodiversity patterns in the Hengduan Mts, China</td>
<td>Chang, Yaquan</td>
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<td>04:45 pm</td>
<td>By land, air or sea: foraging in distinct media shapes the evolution of functional trait specialisation in birds</td>
<td>Sayol, Ferran</td>
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<td>05:00 pm</td>
<td>Ecological and evolutionary processes shape below-ground springtail communities along an elevational gradient</td>
<td>Chen, Ting-Wen</td>
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<tr>
<td>A1</td>
<td>Area vs. Environmental Heterogeneity: Scale-Dependence in Simulations</td>
<td>Malanson, George</td>
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<td>A2</td>
<td>Arkansas Pimple Mounds as a Study System to Test How Plant Community Assembly Mechanisms Change across a Landscape.</td>
<td>Benton, Ben</td>
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<td>A3</td>
<td>Bayesian biogeographic analysis of squirrel evolution suggests and Asian origin</td>
<td>Anna Banks</td>
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<td>A4</td>
<td>Complex structure creates complex communities: How 3D vegetation drives understudied patterns in avian communities.</td>
<td>Sweeney, Colin</td>
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<td>A5</td>
<td>Global drivers of mountain plant biodiversity</td>
<td>Liu, Yi</td>
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<td>A6</td>
<td>Influence of seasonal flooding on plant reproductive phenology on Buck Island, a Lower Mississippi River island</td>
<td>Sims, Caity</td>
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<td>A7</td>
<td>On modeling susceptibility of host parasite interactions through machine learning from only presence data</td>
<td>Robles Fernández, Ángel Luis</td>
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<tr>
<td>A8</td>
<td>Plant community composition of six Lower Mississippi River islands</td>
<td>McCartha, Grace</td>
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<tr>
<td>A9</td>
<td>Roots in the tundra - belowground plant traits under varying environmental conditions at multiple Arctic and Alpine sites</td>
<td>Turner, Laura</td>
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<tr>
<td>A10</td>
<td>Synchronous populations as signals of biodiversity change</td>
<td>Hébert, Katherine</td>
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<tr>
<td>A11</td>
<td>The geography of metacommunity assembly: landscape heterogeneity and species pool attributes mediate the relative importance of assembly mechanisms</td>
<td>Khattar, Gabriel</td>
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</table>
### Climate Change, Conservation & Invasion Biogeography

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<tbody>
<tr>
<td>B1</td>
<td>A comprehensive framework for modeling freshwater mussel invasion</td>
<td>Brownlee, Steven</td>
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<td>B2</td>
<td>Biogeographical insights into hitchhiking plant propagules on the exterior of refrigerated shipping containers at the Port of Savannah, Georgia, USA</td>
<td>Marsico, Travis</td>
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<tr>
<td>B3</td>
<td>Effects of delayed mowing on plant species diversity in cultivated grasslands</td>
<td>Baumann, Esther</td>
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<tr>
<td>B4</td>
<td>Nannorrhops ritchieana (Griff.) Aitch. is a gregarious Palm; shedding light on its associated chorotypes</td>
<td>Abdullah, Abdullah</td>
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<tr>
<td>B5</td>
<td>Severe recent bioclimatic shifts in the world’s biomes</td>
<td>Zimmermann, Niklaus</td>
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<tr>
<td>B6</td>
<td>The nonrandom introduction of alien species is largely reflected in the pattern in the naturalized flora of Southern Africa.</td>
<td>Omer, Ali</td>
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### Functional Biogeography

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<tr>
<td>C1</td>
<td>Deciphering the geographic and climatic effects on North American mammalian functional diversity</td>
<td>Loughlin, Nora</td>
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<tr>
<td>C2</td>
<td>Functional diversity of native bird communities on oceanic islands shows no evidence of preventing establishment of non-native bird species through competitive exclusion</td>
<td>Jørgensen, Maria</td>
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<td>C3</td>
<td>Persistent and cumulative impacts of drought on forest growth across a moisture gradient</td>
<td>Russell, Kaitlyn</td>
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<td>C4</td>
<td>Where are tropical birds more colorful? The eco-evolutionary drivers promoting color diversity in tropical bird assemblages.</td>
<td>Munoz, Gabriel</td>
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### Island & Marine Biogeography

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<tr>
<td>D1</td>
<td>Eurymixis: Chaos and Determinism in the Sea in the Age of Genomics and Big Data</td>
<td>Dawson, Michael</td>
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<td>D2</td>
<td>The influences of soil on plant communities on six Lower Mississippi River islands</td>
<td>Jones, Mathew</td>
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<tr>
<td>D3</td>
<td>The persistent cross-shelf bioregionalization of coastal oceans</td>
<td>Pata, Patrick</td>
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<td>D4</td>
<td>Vegetation change on the Atlantic’s highest oceanic volcano inferred from the raw data underlying Humboldt's Tableau Physique des Iles Canaries.</td>
<td>Renner, Susanne</td>
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<td>D5</td>
<td>When the genus seems to be “extinct” – the problem in the biogeographical distribution of marine species.</td>
<td>Matsumoto, Asako</td>
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### Models & Methods in Biogeography

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<tr>
<td>E1</td>
<td>A Bayesian methodology to estimate local extinction events using spatial information</td>
<td>Casabona i Amat, Clara</td>
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<td>E2</td>
<td>Deriving Accurate Water Thermal Maps From UAV-Mounted Thermal Camera.</td>
<td>Redana, Matteo</td>
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<tr>
<td>E3</td>
<td>Ecological Niche Modeling for Conservation of Native Species (Diospyros rhodocalyx) in Rajamangala University of Technology Isan, Nakhonratchasima, Thailand</td>
<td>Jantakat, Yaowaret</td>
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<tr>
<td>E4</td>
<td>Using Planning Green Space Network for Forest Restoration</td>
<td>Jantakat, Yaowaret</td>
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<tr>
<td>E5</td>
<td>Effects of eigenfunction-based spatial variables on the prediction of species distribution model.</td>
<td>Jeon, Cheongok</td>
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<td>E6</td>
<td>Fingerprints of recent climate change in ecological niche models: the case of the Mexican small-eared shrew</td>
<td>Pinilla-Buitrago, Gonzalo E.</td>
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<tr>
<td>E7</td>
<td>Incorporating Genotypic Variability of Plant Populations in Continental-Scale Phenological Models</td>
<td>Liang, Liang</td>
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<td>E8</td>
<td>Mapping Climate-Associated Risk for Cholera in Bangladesh</td>
<td>Kruger, Sophia</td>
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<td>E9</td>
<td>Towards a standardization and unification of global terrestrial biome classifications</td>
<td>Fischer, Jan-Christopher</td>
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<td>F1</td>
<td>Tropical paleoecology data mobilization in Neotoma to study</td>
<td>George, Adrian</td>
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<td>ecoclimatic sensitivity of tropical ecosystems to glacial-interglacial</td>
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<td>A neighborhood approach for using remotely sensed data to post-process</td>
<td>Johnson, Bethany</td>
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<td>species distribution models: results for a threatened Mexican mammal</td>
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<td>(Handleyomys chapmani)</td>
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<td>G2</td>
<td>A Sky Island Perspective: New England, USA Alpine Plant Community</td>
<td>Tirrell, Andrea</td>
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<td>Change Through Space and Time</td>
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<td>G3</td>
<td>Assessing species distribution models’ abilities to locate unknown</td>
<td>Kosnik, Brendan</td>
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<td>populations of rare sedges in eastern Arkansas</td>
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<td>G4</td>
<td>Biodiversity Distribution Index: Tracking spatial and temporal</td>
<td>Bellavance,</td>
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<td>trends in species ranges</td>
<td>Vincent</td>
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<td>G5</td>
<td>Current dung beetle distributions as indicators of abiotic and</td>
<td>Blades, Bryony</td>
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<td></td>
<td>biotic changes in the African continent: a case study using</td>
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<td>Catharsius Hope, 1837 (Scarabaeidae, Scarabaeinae)</td>
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<td>G6</td>
<td>Molecular markers and ecological niche modeling uncover migration</td>
<td>Konowalik, Kamil</td>
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<td>routes of the Carpathian endemic round leaved ox-eye daisy</td>
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<td></td>
<td>(Leucanthemum rotundifolium)</td>
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<td>G7</td>
<td>Oh, the places they’ll go!: Examining Contemporary Tree Range</td>
<td>McLaughlin,</td>
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<td></td>
<td>Shifts</td>
<td>Bailey</td>
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<td>G8</td>
<td>Phylogenetic Niche Modeling</td>
<td>McHugh, Sean</td>
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<td>G9</td>
<td>Potential decline in the distribution and food provisioning services</td>
<td>Shen, David</td>
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<td>of the mopane worm (Gonimbrasia belina) in southern Africa</td>
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<td>G10</td>
<td>Range-wide and regional distribution of the Western Tragopan</td>
<td>Shah, Akbar</td>
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<td>(Tragopan melanocephalus) and effects of disturbance on local</td>
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<td>G11</td>
<td>Resolution in species distribution models shapes spatial patterns</td>
<td>Chauvier, Yohann</td>
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<td>of plant multifaceted diversity</td>
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<td>Wolf in the Central Europe - geographic and genetic crossroads</td>
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<td>Anthropocene Biogeography</td>
<td>Rooms 2&amp;3</td>
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<td>15 min talks</td>
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<td>02:00 pm</td>
<td>Assessing biodiversity changes across a continuum of spatio-temporal scales</td>
<td>Leroy, François</td>
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<td>02:15 pm</td>
<td>Humans are disrupting a longstanding trophic-size structure in vertebrates</td>
<td>Gearty, William</td>
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<td>02:30 pm</td>
<td>Do vertebrate species traits influence species’ responses to land-use and climate change?</td>
<td>Etard, Adrienne</td>
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<td>02:45 pm</td>
<td>Towards a predictive biogeography of crop-pests and pest control: integrating experiments, large temporal datasets, and models.</td>
<td>Morales-Castilla, Ignacio</td>
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<td>03:00 pm</td>
<td>Three thousand years of island insect decline inferred with community genomics</td>
<td>Economo, Evan P.</td>
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<td>03:15 pm</td>
<td>Human-driven speciation could counter global species losses but not losses in phylogenetic diversity</td>
<td>Faurby, Soren</td>
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<td>03:30 pm</td>
<td>Fast or slow? Rates of climate changes of multiple variables over the last decades</td>
<td>Ordonez, Alejandro</td>
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<td>03:45 pm</td>
<td>80 years of anthropogenic change and its impact on Canadian butterfly taxonomic and phylogenetic diversity</td>
<td>Lewthwaite, Jayme</td>
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<td>04:00 pm</td>
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<thead>
<tr>
<th>CATEGORY TITLE</th>
<th>Paleocology &amp; Paleobiogeography</th>
<th>Room 8</th>
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<tbody>
<tr>
<td>15 min talks</td>
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<tr>
<td>02:00 pm</td>
<td>Past spatio-temporal variability of boreal forest carbon storage: an Alberta case study</td>
<td>Crowchild-Fletcher, Jo-Mary</td>
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<td>02:15 pm</td>
<td>Using global climate data and the fossil record to determine the driving factors in the late-Quaternary megafauna extinctions</td>
<td>Lemoine, Rhys</td>
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<td>02:30 pm</td>
<td>Changes in small mammal community composition over the last 25,000 years across multiple western North American cave localities</td>
<td>Schap, Julia</td>
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<td>02:45 pm</td>
<td>Holocene history of mangrove distribution and migration along the Gulf of Mexico coast, U.S.A.</td>
<td>Liu, Kam-biu</td>
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<td>03:00 pm</td>
<td>Quantifying Holocene albedo change from paleoecological land cover for northern North America</td>
<td>Morillo, Ruby</td>
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<tr>
<td>03:15 pm</td>
<td>A novel tool to detect non-random time trends in assemblages</td>
<td>Sizling, Arnost</td>
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<td>03:30 pm</td>
<td>The time-integrated host diversity hypothesis for geographic variation in the species pool richness of mycorrhizal fungi</td>
<td>Pither, Jason</td>
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<td>03:45 pm</td>
<td>Global phanerozoic biodiversity - can variation be explained by spatial sampling intensity?</td>
<td>Czekanski-Moir, Jesse</td>
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### Session 19
**Biodiversity/Richness/Species Distributions**  
**Room 11**

<table>
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<tr>
<th>15 min talks</th>
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<th>SPEAKER</th>
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<tbody>
<tr>
<td>02:00 pm</td>
<td>Spatial range traits drive plant exposure to climate and land use change in the California Floristic Province</td>
<td>Rose, Brooke</td>
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<tr>
<td>02:15 pm</td>
<td>Dynamics of the Northern Humboldt Current System pelagic fish community structure under El Niño Southern Oscillation scenarios</td>
<td>Galoso Sanchez, Paola Lisset</td>
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<tr>
<td>02:30 pm</td>
<td>GreenMaps: a Tool for Addressing the Wallacean Shortfall in the Global Distribution of Plants</td>
<td>Daru, Barnabas</td>
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<tr>
<td>02:45 pm</td>
<td>How plant dispersal syndromes shape the relationship of species richness with area and isolation</td>
<td>Walentowitz, Anna</td>
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<tr>
<td>03:00 pm</td>
<td>Pacific eDNA Coastal Observatory: how to capture biogeography with a simultaneous and systematic snapshot of biodiversity</td>
<td>Sheridan, Kate</td>
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<tr>
<td>03:15 pm</td>
<td>Can we propose more laws for biogeography?</td>
<td>Costello, Mark</td>
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<tr>
<td>03:30 pm</td>
<td>What controls plant richness on mountainous oceanic island: area, productivity, or water and energy?</td>
<td>Vetaas, Ole</td>
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<tr>
<td>03:45 pm</td>
<td>Geography and timeline of the initial domestication and spread of Persian walnuts: Early Bronze Age or Silk Road?</td>
<td>Renner, Susanne</td>
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<td>04:00 pm</td>
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### Session 20
**Paleocology & Paleobiogeography**  
**Ballroom C**

<table>
<thead>
<tr>
<th>15 min talks</th>
<th>TITLE</th>
<th>SPEAKER</th>
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<tr>
<td>02:00 pm</td>
<td>An integrated high-resolution mapping shows congruent biodiversity hotspots of Fagales and Pinales</td>
<td>Lyu, Lisha</td>
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<tr>
<td>02:15 pm</td>
<td>Biogeographical patterns and dynamics emerging from low-level eco-evolutionary models</td>
<td>Sarmento Cabral, Juliano</td>
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<tr>
<td>02:30 pm</td>
<td>Global plant-frugivore trait matching is shaped by climate and biogeographic history</td>
<td>McFadden, Ian</td>
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<tr>
<td>02:45 pm</td>
<td>The drivers of global plant diversity</td>
<td>Tietje, Melanie</td>
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<td>03:00 pm</td>
<td>Integrating traits and networks: the geography of functional diversity in multitrophic assemblages</td>
<td>Munoz, Gabriel</td>
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<tr>
<td>03:15 pm</td>
<td>Mycorrhiza-mediated plant species interactions between forest layers in western USA</td>
<td>Thomsen, Corrina</td>
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<td>03:30 pm</td>
<td>Evidence of introgression, distributional shifts and selection in North Atlantic Asterias sea stars</td>
<td>Giakoumis, Melina</td>
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<tr>
<td>04:00 pm</td>
<td>Break</td>
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<td>Business meeting, Closing and Awards Ceremony</td>
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**VIRTUAL TALKS* – LIVE WITH Q&A**

3 JUNE  
*All times shown are in Pacific (Vancouver, Canada) time

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<tr>
<th>CATEGORY TITLE</th>
<th>TITLE</th>
<th>SPEAKER</th>
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</table>
| **Virtual Session 1**  
*Island Biogeography* | **15 min talks** | |
| 01:15 pm | Climate controls plant life-form and functional trait patterns on the Canary Islands | Irl, Severin |
| 01:30 pm | Functionally equivalent? Birds of the world’s islands say no | Bastidas Urritia, Ana Maria |
| 01:45 pm | Assembly of functional diversity of an oceanic island flora | Barajas, Paola |
| 02:00 pm | A Review of Island Syndromes in Animals | Whittaker, Robert |
| 02:15 pm | Island Biogeography and Species’ Pools | Soberon, Jorge |
| 02:30 pm | Do subtropical montane cloud forests in Taiwan act as insular systems for woody species? | Tseng, Yu-Pei |

<table>
<thead>
<tr>
<th>CATEGORY TITLE</th>
<th>TITLE</th>
<th>SPEAKER</th>
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</table>
| **Virtual Session 2**  
*Biodiversity Patterns & Maintenance/Species Distributions* | **15 min talks** | |
| 03:30 pm | Tetrapod diversity hotspots in jeopardy under global change | Tordoni, Enrico |
| 03:45 pm | Sharks in the oceans of tomorrow – assessing shifts in habitat suitability under climate change | Pereira Santos, Catarina |
| 04:00 pm | Aridity emerges as the main factor driving variation in rodent diversity across 49 elevational gradients | Kohli, Brooks |
| 04:15 pm | Same process different patterns: pervasive effect of evolutionary time on species richness in freshwater fish orders | Garcia-Andrade, Ana Berenice |
| 04:30 pm | Not all traits influence hummingbird diversification, but their evolutionary rates do | Barreto, Elisa |
| 04:45 pm | Do animals influence the distribution of net primary productivity via mutualistic interactions with plants? | Sales, Lilian |
| 05:00 pm | Camera trapping as an expanded view into global biodiversity and its change | Oliver, Ruth |
| 05:15 pm | New species richness estimation methods help to clarify biogeographic patterns | Alroy, John |
### Virtual Session 3
**Anthropocene Biogeography**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>01:00 pm</td>
<td>Seafood biogeography: diversity, distribution and extinction risk of exploited marine bivalves</td>
<td>Huang, Shan</td>
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<tr>
<td>01:15 pm</td>
<td>The Island Biogeography of Humans</td>
<td>Mologni, Fabio</td>
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<tr>
<td>01:30 pm</td>
<td>Evolutionary imbalance, colonial history, and the global biogeography of naturalized alien plants</td>
<td>Fristoe, Trevor</td>
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<tr>
<td>01:45 pm</td>
<td>Understanding the biogeographic patterns of Colombian edible plants.</td>
<td>Gori, Benedetta</td>
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<tr>
<td>02:00 pm</td>
<td>Climate vulnerability of mountain biota revisited</td>
<td>Chen, Yi-Hsui</td>
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<tr>
<td>02:15 pm</td>
<td>Diversity erosion of Neotropical mountain amphibian communities in the Anthropocene</td>
<td>Menéndez-Guerrero, Pablo</td>
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<td>02:30 pm</td>
<td>Main process driving functional diversity of urban avian assemblages varies among cities with different development levels</td>
<td>Tsai-Chen, Yu</td>
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### Virtual Session 4
**Biodiversity Patterns & Maintenance/Species Distributions**

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<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tr>
<td>04:00 pm</td>
<td>Inferring how regional features influence biogeographical diversification</td>
<td>Landis, Michael</td>
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<tr>
<td>04:15 pm</td>
<td>Trait equilibria on islands</td>
<td>Schrader, Julian</td>
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<tr>
<td>04:30 pm</td>
<td>Using Geographical Overlaps to Track Temporal Changes in Species Interactions and Community Coexistence Instability</td>
<td>Yin Zheng Lai</td>
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<tr>
<td>04:45 pm</td>
<td>Areas of endemism of selected seed plant species in southwestern U.S.A.</td>
<td>Saghatelyan, Anna</td>
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<tr>
<td>05:00 pm</td>
<td>SSE models for biogeography: prospects and challenges</td>
<td>Matzke, Nicholas</td>
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### Virtual Session 5
**Climate Change / Conservation Biogeography**

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<th>Speaker</th>
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<tr>
<td>01:00 PM</td>
<td>Marine biogeography is limited by available oxygen habitat</td>
<td>Shi, Zhiyuan</td>
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<tr>
<td>01:15 PM</td>
<td>Highly heterogeneous data reveal the drivers of past occupancy changes in Central European insects</td>
<td>Engelhardt, Eva Katharina</td>
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<td>01:30 PM</td>
<td>Species distributions in the light of the Law of the Minimum</td>
<td>Villén-Pérez, Sara</td>
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<td>01:45 PM</td>
<td>Scale-dependence of climate change vulnerability of birds in the Western Hemisphere</td>
<td>Lu, Muyang</td>
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<tr>
<td>02:00 PM</td>
<td>Expanding Wallace species distribution modeling software to calculate biodiversity change indicators for conservation management and planning</td>
<td>Blair, Mary</td>
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<tr>
<td>02:15 PM</td>
<td>Continental risk assessment for understudied taxa post catastrophic wildfire indicates severe impacts on the Australian bee fauna</td>
<td>Dorey, James</td>
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<td>02:30 PM</td>
<td>Projecting the impacts of climate change on traditional food species for Arctic indigenous peoples</td>
<td>Zhang, Zhixin</td>
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### Virtual Session 6
**Paleobiogeography & Historical Biogeography**

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<tr>
<td>03:30 PM</td>
<td>Pantropical plant dispersal out of Madagascar’s forests</td>
<td>Hackel, Jan</td>
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<td>03:45 PM</td>
<td>The Invasion Hierarchy: Quantifying long-term ecological and evolutionary consequences of invasions using the fossil record</td>
<td>Stigall, Alycia</td>
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<td>04:00 PM</td>
<td>Climate- and extinction-driven ecological shifts in Onychomys grasshopper mice over 22,000 years at Hall’s Cave, TX</td>
<td>Keller, Jonathan</td>
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<td>04:15 PM</td>
<td>Magnetic reversals and their relationship with speciation and extinction events in bony fish</td>
<td>Ferrera, Mariana</td>
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<tr>
<td>04:30 PM</td>
<td>Plant migrations maintain climate fidelity in the face of dynamic climate change</td>
<td>Wang, Yue</td>
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<td>04:45 PM</td>
<td>Uncovering the biogeographic history of the Neotropical Tillandsia subgenus Tillandsia</td>
<td>Vera Paz, Sandra</td>
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<tr>
<td>05:00 PM</td>
<td>Regionalization and evolution of the West Palearctic ant fauna: tackling the Wallacean shortfall through integrative and collaborative approaches</td>
<td>Wang, Runxi</td>
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## Virtual Talks* – On Demand

### Anthroponocene Biogeography

<table>
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<th>Title</th>
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<tr>
<td>A global assessment of human influence on niche shifts and risk</td>
<td>Cardador, Laura</td>
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<td>predictions of bird invasions</td>
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<td>Biogeography of human cultural diversity</td>
<td>Norder, Sietze</td>
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<td>Fisheries enhance pressure on Mediterranean regions and pelagic</td>
<td>Ouled-Cheikh Bonan, Jazel</td>
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<td>species already impacted by climate forcing</td>
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<td>Landscape connectivity among island-dwelling caribou – where ice and</td>
<td>Jenkins, Debbie</td>
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<td>human activity amplify habitat discontinuity</td>
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<td>Biodiversity trends amidst intensification and abandonment of land</td>
<td>Daskalova, Gergana</td>
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<td>the world</td>
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<td>What predicts location and intensity of human impacts on global</td>
<td>Jenkins, David</td>
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<td>terrestrial ecosystems?</td>
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### Biodiversity Patterns & Maintenance

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<tr>
<td>A consistent hump-shaped pattern of diversity-elevation relationship</td>
<td>Zelený, David</td>
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<td>observed at different grain scales: a case study using woody species</td>
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<td>in Taiwan</td>
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<td>A critical review of current species distribution model methods to</td>
<td>Bevan, Hannah</td>
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<td>guide greater reproducibility and accessibility</td>
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<td>A decline in diversity explains the low species richness of dipodoid</td>
<td>Rolland, Jonathan</td>
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<td>rodents</td>
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<td>A tale of two trees: Contrasting growth patterns at opposing range</td>
<td>Lesser, Mark</td>
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<td>margins for two North American pine species.</td>
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<td>Assessing the relation between fine-scale geodiversity and species</td>
<td>Salminen, Henriikka</td>
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<td>richness in mountain heaths and tundra</td>
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<td>Asynchrony outweighs population stability and diversity in stabilizing</td>
<td>Tsang, Toby Pak Nok</td>
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<td>terrestrial communities</td>
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<td>Chorotypes and diversity patterns of human infectious diseases in</td>
<td>Winkelman, Stephanie</td>
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<td>Brazil</td>
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<td>Divergent biogeographic trajectories: The need to integrate genetic,</td>
<td>Castilla, Antonio</td>
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<td>pollen, and occurrence data for robust inference</td>
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<td>East or West, nests are best: Dramatically different dragonfly</td>
<td>Gaines, Karen</td>
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<td>habitats have surprisingly similar nymphal nestedness</td>
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<tr>
<td>Ecological processes and the biogeography of speciation among endemic lizards of Madagascar</td>
<td>Pearson, Richard</td>
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<td>Estimating and conserving patterns of grasshopper diversity and richness in Western Australia</td>
<td>Hossain, Md Anwar</td>
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<td>Evidence of strong increase in demersal fish biodiversity across the Norwegian and Barents Seas in the last 31 years</td>
<td>Gordó-Vilaseca, Cesc</td>
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<td>Geographic patterns in artiodactyl richness and ecological diversity</td>
<td>Wang, Bian</td>
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<tr>
<td>Identifying the drivers of spatial taxonomic and functional beta-diversity of British breeding birds</td>
<td>Wayman, Joe</td>
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<td>Insights into biogeographical patterns in the Indo-Australian Archipelago from beta-diversity of bird assemblages</td>
<td>Prasetay, Audrey</td>
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<td>Islands in the mist: a systematic review of coastal llomas ecosystems</td>
<td>Gonzales, Fiorella</td>
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<td>Macroecological patterns of biotic interactions and their consequences in prey communities: Insights from elevational gradients in the equatorial Andes</td>
<td>Camacho, Luis</td>
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<td>Possible mechanisms explaining hump-shaped richness-elevation pattern of woody species in Taiwan</td>
<td>Lin, Po-Yu</td>
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<td>Regional co-occurrence patterns of Rhododendron species across spatiotemporal scales</td>
<td>Li, Qin</td>
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<td>Species diversity habitat analysis of owl in Tolipir National Park, Azad Jammu and Kashmir, Pakistan</td>
<td>Faiz, Abul</td>
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<td>Temporally and spatially decoupled evolution of mimicry in an iconic system</td>
<td>Kozak, Krzysztof</td>
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<td>Using a global dataset of country checklists to evaluate dragonfly data coverage</td>
<td>Sandall, Emily</td>
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<tr>
<td>Addressing the challenge of applying climate change refugia in forest management</td>
<td>Pradhan, Kavya</td>
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<td>Beyond heat waves: Human cities may be incompatible with prolonged maximum monthly temperatures</td>
<td>Hanberry, Brice</td>
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<td>Biogeographic patterns of root carbon and nitrogen and their controls across U.S.</td>
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<td>Biophysical effects of afforestation on land surface temperature in southern China</td>
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<td>Combining spores dispersal simulation and ecological niche models to evaluate climate change impact on Bryophytes in Europe</td>
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<td>Monitoring the Treeline shift of Himalayan birch in response to climate variability using Remote Sensing and GIS in parts of North-Western Indian Himalayan Region</td>
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<td>Natural niche truncation and the limits of our knowledge on of how species will respond and have responded to climate change</td>
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<td>Predicting potential suitable habitat for Olea europaea in Eastern Mediterranean from Last Glacial Maximum to the Future</td>
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<td>Revealing ecological mechanisms of range contraction for reindeers over the last 21,000 years</td>
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<td>Thermal niche traits of terrestrial ferns along an elevational tropical Andean gradient</td>
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<td>Comparison of benthic macrofauna sampling methods in the rocky intertidal zone of Guadalupe Island, Mexico.</td>
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<td>Factors influencing effectiveness of wildflower compensation areas in Schleswig Holstein, Germany</td>
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<td>Hotspots for the conservation of evolutionary heritage and their exposure to land use impacts and climate change</td>
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<td>How much of the worldwide marine habitats are we protecting? Two reproducible indexes to monitor the extent of marine habitats within protected areas.</td>
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<td>Identifying conservation corridors with the aid of cloud climatologies</td>
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<td>Mammal Species of the World Next: platform for curating taxonomic intelligence to extend biodiversity data</td>
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<td>The Biogeography of Disjunct Vascular Plants in the San Juan and Gulf Islands</td>
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<td>Patterns and drivers of avian taxonomic and functional α- and β-diversity in Quebec</td>
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<td>Variation in avian morphology with altitude in tropical montane systems</td>
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<td>Meta-analysis of local adaptation in spring phenology across Europe and North America</td>
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<td>Habitat but not topographic heterogeneity constrains the range sizes of African mammals</td>
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<td>The northern Philippines is characterized by ancient colonization and persistent diversification by small mammals</td>
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<td>Genome-wide SNP data unraveled phylogeography and cryptic divergence of living fossil coral across the Indo-West Pacific</td>
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<td>Podocarpus in the palaeogeographically complex island of Hispaniola: a stepping-stone colonization and conservation recommendations</td>
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<td>Biogeography of Monopelopia Fittkau, 1962 (Chironomidae: Tanypodinae)</td>
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<td>Diversity of wasp species (hymenoptera: vespidae) from the hazara region, pakistan</td>
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