

Aula	Building 1343	Building 1324		Building 1333
Auditorium 1	Auditorium Room 2	Auditorium Room 3	Auditorium Room 4	Auditorium Room 5

### Wednesday, January 7th

#### 13:30 to 14:30

Species Area Relationships (Chair: Nora Schlenker)	Paleoecology and change through time (Chair: Miguel Araujo)	Niches and co-occurrence (Chair: Naia Morueta-Holme)	Bird abundance change (Chair: Melanie Tietje)	Geodiversity (Chair: Carina Hoorn)
111. The island species-area relationship for plants globally (Robert J. Whittaker) 112. Diverging responses of taxonomic, functional, and phylogenetic plant diversity to island parameters in arid habitat islands of southern Africa (Alexander M. Bürger) 113. Multi-scale species richness estimation with deep learning (Victor Boussange) 114. The impact of new species discoveries on species-area relationship (Feng Lu)	121. Recent advances and current directions in the Neotoma Paleoecology Database (John W. Williams) 122. Lobal abundance and distribution of grasses over the last 50,000 years (Brody Sandel) 123. Out of equilibrium: energy, forest closure, and land use drive distinct diversity dynamics in arboreal and non-arboreal vegetation across Late Quaternary (Irena Simova) 124. Cradles, museums and biodiversity disequilibria: Reconciling global diversity dynamics using equilibrium theory (David Storch)	131. Climatic niche similarity and spatial co-occurrence in European dragonflies and damselflies: integrating biogeographic patterns and climatic niche similarity (Mónica Gómez Vadillo) 132. The functional diversity and trait complementarity of co-occurring plant species in patchy vegetation across two habitat types within an arid biodiversity hotspot (Pia Maria Eibes) 133. From niche theory to demographic realities: the demographic niche concept for understanding range-wide population dynamic (Sean E. H. Pang) 134. Co-occurrence-based measures of species habitat specialisation revisited (David Zelený)	141. Diversity regulation and local extinctions in bird communities (Eliska Bohdalkova) 142. What drives bird abundance? – Quantifying the importance of ecological and anthropo-genic drivers for Avian abundance patterns (Heléne Elisabeth Aronsson) 143. Assessing the impact of past climate and land use change on bird occupancy dynamics in North America (Katrin Schifferle) 144. Where have all the grassland birds gone? 50 years of range shifts across North America (Wendy Dorman)	151. Understanding multi-scale relationships between abiotic variables, geodiversity and plant biodiversity in a semi-arid ecosystem (Brittany Pugh) 152. Revisiting the Anti-Tropical Puzzle: 3D Models Through Deep Time (Hannah Lois Owens) 153. How can geology and biology help each other? The history of the cave fauna of the Mecsek Mountains, Hungary (Gergely Balázs) 154. Methods for measuring geodiversity at local and continental scales in biodiversity research (Helena Tukiainen)

#### 14:40 to 15:40

Island Biogeography (Chair: Manuel Steinbauer)	Faunal Paleontology (Chair: Jessica Blois)	Human impacts and conservation (Chair: Reina Warnert)	Macroecological Drivers of Avian Community Assembly and Change (Chair: Christian Hof)	Impacts of Hunting (Chair: Pablo Villalva)
211. Loss of dispersibility in the flora of the Andean Sky Islands (Diana Libeth Aparicio Vasquez) 212. Homogenization of plant communities on islands globally (Anna Johanne Walentowitz) 213. Renaturalisation dynamics on Mediterranean small islands detected by plant community resurvey (Alessandro Chiarucci) 214. Island biogeography in the Anthropocene (Tom Matthews)	221. Temporal uncertainty can mischaracterize ecological niches during periods of climatic instability (Jessica L. Blois) 222. Biotic interactions are more important than climate for shaping animal niches (Inger Greve Alsos) 223. Mammalian carnivore guilds respond differently to the terminal Pleistocene extinction (Felisa A. Smith) 224. Carrying capacity of the Pleistocene mammoth steppe (Wolfgang Traylor)	231. What species are used by restoration projects and what does that mean for the Sahel: a north Nigerian case study (Joao de Deus Vidal) 232. Urban fungal diversity shaped by legacy effects of historical meadows (Oscar Zarate Martnez) 233. CamtrapReport: An R Package for Automating Camera-Trap Data Reporting for Wildlife Monitoring (Elham Ebrahimi) 234. Spatial biodiversity indicators and a composite index for conservation prioritization in Switzerland (Antoine Adde)	241. Large-scale co-occurrence dynamics in bird assemblages (Melanie Tietje) 242. Replacing extinct birds with similar extant birds using a functional trait-based method (David Pereira) 243. Unpacking species richness anomalies: The interplay of regional history and local abundance in Nearctic and Palearctic temperate forest birds (Vladimir Remes) 244. Contrasting mechanisms of African raptor colonization in Europe via climatic favourability and assisted vagrancy (Antonio Román Muñoz Gallego)	251. Translating ecological models into genomic simulations: a spatially-explicit reconstruction of muskox genomic data responding to climate change and human hunting (Elisabetta Canteri) 252. Uncovering the cryptic vulnerability of tropical birds and mammals to hunting (Martin Philippe-Lesaffre) 253. Size-biased defaunation reshapes biomass and body mass distributions of wild mammals across tropical forests (Iago Ferreira-Arias) 254. What's on the menu and what's good? Understanding spatiotemporal variation in zooarchaeological assemblages using ecological niche models (Peter Yaworsky)

### Thursday, January 8th

#### 14:30 to 16:00

Rewilding, Herbivores, and the Future of Ecosystem Function (Chair: Liesbeth Bakker)	Linking Evolution, Traits, and Ecosystem Function in Birds (Chair: Ferran Sayol)	Mapping and Remote Sensing (Chair: Rob Buitenwerf)	Biodiversity, Dark Diversity, and Anthropogenic effects (Chair: Riin Tamme)	Invasive Species (Chair: Franz Essl)
311. Northwest Shift in Suitable Climate Expected for North American Bison by the Year 2100 (Alex B. Shupinski) 312. Plants and large mammals have historically tracked climate with high fidelity in North America, then diverged after the arrival of Europeans (Corentin Gibert Bret) 313. Parallels between hemiparasitic plants and large herbivores: implications for rewilding of European landscapes (Jakub Těšitel) 314. Food web similarity increases with productivity similarity at a continental scale (Lydia Beaudrot) 315. The walking forest: how palatable trees regenerate in the presence of large herbivores (Liesbeth Bakker) 316. Trophic Rewilding as a Biogeographic Strategy for the Anthropocene (Jens-Christian Svenning)	321. From Core to Periphery: Mapping Evolutionary Potential Across Species Ranges (Anna Brüniche-Olsen) 322. Contrasting Evolutionary and Environmental Drivers of Avian Niche Diversification Worldwide (Chia Hsieh) 323. Global patterns of trait divergence and speciation rates in birds (Melina Forgiarini Maxwell) 324. Functional distinctiveness of the world's Avian resident and migratory avifauna (Raymond Miyajima) 325. Loss of morphologically unique Avian frugivores diminishes seed dispersal function and natural restoration potential pan-tropically (Jun Ying Lim) 326. Disentangling the Evolutionary and Ecological Determinants of Avian Specialization (Axel Arango)	331. Bugs from Space: Linking Remote Sensing to High Throughput Sequencing of Arthropod Communities to Assess Signatures of Ecosystem Integrity in Hawaiian Forests (Rosemary Gillespie) 332. Clustering biomes from space (Elena Plekhanova) 333. Investigating 4-D microclimate change across African biodiversity hotspots (Brittany Trew) 334. In the Shade or in the Sun? Unveiling European Forest Light Regimes (Wanben Wu) 335. Mapping functional and response diversity can reveal the geographic distributions of ecosystem services (Jamie M. Kass)	341. Dark diversity reveals hidden and lagged species loss from regional and local human disturbance (Meelis Pärtel) 342. Filling the blank space in indicators to track (and understand) biodiversity change from local to biogeographical scales (Katherine Hebert) 343. Dark diversity affinity in plants: Global consistency and variability in drivers of suitable yet absent species (Junichi Fujinuma) 344. The velocity of biodiversity change: Applying the climate velocity framework to biodiversity metrics (Carmen Diana Soria) 345. The global disruption of plant biogeography (Lirong Cai) 346. Illuminating Africa's plant diversity dark spots: Addressing Linnean and Wallacean shortfalls through NaijaFLO and herbarium resources (Alexandra N. Muellner-Riehl)	351. Ancient invaders, Modern Warnings: Assessing environmental forces shaping biogeography of last Interglacial southern California molluscan fauna (Priyanka Soni) 352. Combining the anthropogenic road transport network with landscape resistance maps allows to forecast spread of invasive species on the European scale (Philipp Laeseke) 353. Empirical invasion biogeography European Database of Alien Flora: Towards a Harmo-nised Resource for Plant Invasion Research (Irena Axmanová) 354. Life history traits and functional trade-offs as predictors of invasion in plants (María Ángeles Pérez-Navarro) 355. Plant invasions reduce the degree of nestedness on warm temperate islands (Fabio Mologni) 356. Effects of modelling choices on early invasive risk assessments: lessons from the psyllid vectors of Citrus Huanglongbing (Christine N Meynard)

### Friday, January 9th

#### 11:25 to 12:55

Extinction (Chair: Søren Faurby)	Climate change and boreal regions (Chair: Julia Kemppinen)	Spatio-temporal modelling (Chair: Sean Pang)	Biomes, Mapping and Macroecology (Chair: Lirong Cai)	Aquatic Distributions (Chair: Miguel Matias)
411. Pleistocene sea-level change as a driver of island extinction and trait selection: a novel research framework in biogeography (Kenneth F Rijdsdijk) 412. Assessing extinction risks of island trees using process-informed neural networks (Vincent Wilkens) 413. Quantifying the unrecorded loss of Avian phylogenetic diversity (Søren Faurby) 414. Hotspots of diversity at continental scales: predicting evolutionary Hotspots following the next mass extinction (Andrew J. Gregory) 415. Adapting land use to climate change mitigates global biodiversity decline (Dirk Nikolaus Karger) 416. Dark extinctions in a rapidly changing world (Franz Essl)	421. The global geography of snowbed habitats and their microclimatic change (Pekka Oskari Niittynen) 422. The asynchronous rise of alpine floras reveals general responses of biotic assembly to orogeny and climate change (Wen-Na Ding) 423. Expedition to the past: historical surveys to understand 70 years of Arctic vegetation change (Naia Morueta-Holme) 424. Impacts of borealization on biodiversity and carbon balance (Heidi Kristiina Mod) 425. Impacts of climate change on bryophyte distribution: a comprehensive assessment at fine spatial resolution across Europe (Adèle Fleur Hotermans) 426. Six decades of biodiversity and composition changes in European plant communities (Gabriele Midolo)	431. Spatiotemporal dynamics of diebacks in the world's largest bamboo forest (Kalle Ruokolainen) 432. Direct integration of population genetic diversity into dynamic species distribution modeling to reconstruct the postglacial history of Piper nigrum (Michael P. Nobis) 433. Forecasting future disequilibrium through species distribution models in a quasi-permanent non-equilibrium state (Etienne Lalechère) 434. Formalizing and expanding the Constraint-based model of Dynamic Island Biogeography via a Markov chain, trait-space plots, and simulations (Robert P. Anderson) 435. Temporal change and drivers of multiple facets of biodiversity at mesoscales (Florencia Grattarola) 436. Is exclusive competition a realistic expectation at macroecological scales? (Armand Rausell-Moreno)	441. A concept of biome biogeography (Niklaus E. Zimmermann) 442. A hierarchical framework for mapping ecosystem extent using Earth Observation data (Borja Jimenez-Alfaro) 443. Climate contiguity, niche breadth and their roles in shaping global patterns of species richness (Pascal Title) 444. Global vulnerability of seed dispersers to human modification of habitats (Emma-Liina Marjakangas) 445. Geographic range shapes influence species richness in global hotspots (Jesper Sonne) 446. Body mass-abundance relationships reveal uneven global energy distribution across size classes (Luis Camacho)	451. Lessons from recent advances in marine biogeography (Mark John Costello) 452. Incorporating coral genus distributions as predictors in modelling distributions of coral reef fishes (Yi-Shiuan Horng) 453. Oceanic Islands as Seasonal Aggregation Sites: Partial Migration and Restricted Home Ranges Short-Finned Pilot Whale (Marc Fernandez) 454. Beyond land: a framework for modelling aquatic species distributions (Georgios Vagenas) 455. Resolving tuna-prey overlap with trophic species distribution models (Damiano Righetti)

#### 14:10 to 15:40

Evolution, Diversification, and Historical Biogeography (Chair: Jun Ying Lim)	Island diversity and trophic structures (Chair: Severin Irl)	Species distribution modelling (Chair: Kat Magoulick)	The Neotropics and Asia (Chair: Buntarou Kusumoto)	Aquatic biogeography (Chair: Damiano Righetti)
511. The evolution of ecosystem and Earth system engineering (S. Kathleen Lyons) 512. Climate, rather than geography, governs global patterns of speciation in vertebrates (Antonin Machac) 513. Global prevalence and evolution of animal-mediated seed dispersal (Francisco Rodriguez-Sanchez) 514. Evolutionary time and climatic stability as underlying drivers for floristic hyperdiversity across global biodiversity hotspots (Renske E. Onstein) 515. Latitudinal gradient of species diversification - decoding the enigma of different methods, definitions and datasets (Jan Smycka) 516. Global biogeographic disjunctions in seed plants (Jan Hackett)	521. Towards a Synthesis of Island Floras – New Insights and Resources for Island Biogeography (Holger Kreft) 522. Cradles and Graveyards of Biodiversity (Carl Beierkuhnlein) 523. From land to ocean: unraveling global patterns of beta diversity in archipelagos (Luiza Waechter) 524. Humans simplified trophic structures in island lake ecosystems (Miguel Matias) 525. Functional macroecology and island biogeography of Caribbean birds (Trevor Fristoe) 526. Plant-bird frugivore mutualistic networks on subtropical forested islands (Xingfeng Si)	531. Variation across species distribution models of the same species modeled by independent teams: Are we converging as a field? (Adam B. Smith) 532. Can Species Traits Predict Changes in Abundance and Area of Occupation? (Arthur Rodrigues) 533. Triple threats to tropical biodiversity: scenario-based assessments disentangling the impact of future climate change, disease and deforestation on vulnerable species range dynamics with RangeShiftR (Emma L. Underwood) 534. A trait-informed deep learning model to map species distributions and assemblages of Swiss flora (Nina van Tiel) 535. Spatially-nested hierarchical Species Distribution Models with sabinaNSDM (Teresa Goicolea) 536. Illusion of pseudo-absences: a call for non-informative backgrounds in species distribution modelling (Babak Naimi)	541. On the evolutionary assembly of the tree flora in the Cerrado biodiversity hotspot (Danilo Neves) 542. Unraveling diversity and vulnerability in Brazilian montane systems: insights from functional, phylogenetic, and spatial dimensions of Velloziaceae (Andressa Cabral) 543. The biogeography and evolution of derived woodiness in tropical and subtropical angiosperms (Alexander Zizka) 544. UV-B absorbing pollen compounds can reveal elevational histories of mountains (Sandeep Sen) 545. Dispersal, diversification, and distribution in tropical Asia: biogeography of Dissochaeteae (Melastomataceae) (Linde Wieringa) 546. Unraveling thermal tolerance patterns: a multi-level analysis of physiological traits of arthropods along elevational gradients in Southern Asia (Christian Hof)	551. Scale and Process of Coral Reef Fish Assemblages across Longitude, Latitude, and Depth (Chancey MacDonald) 552. Drivers of diversification in the northeastern Pacific rocky intertidal: a multi-species per-spective (Michael N Dawson) 553. Marine heatwaves amplify long-term impacts on warm-edge fish biomass decline (Shahar Chaikin) 554. Fuzzy biogeographic modelling reveals key factors driving the establishment, expansion, and saturation phases of a Pacific macroalgae invasion in the Mediterranean Sea (Raimundo Real) 555. The future of biodiversity in the Mediterranean Sea (Paolo G Albanò)