



10th Biennial Conference
VANCOUVER, CANADA



POCKET PROGRAM
June 2-6, 2022





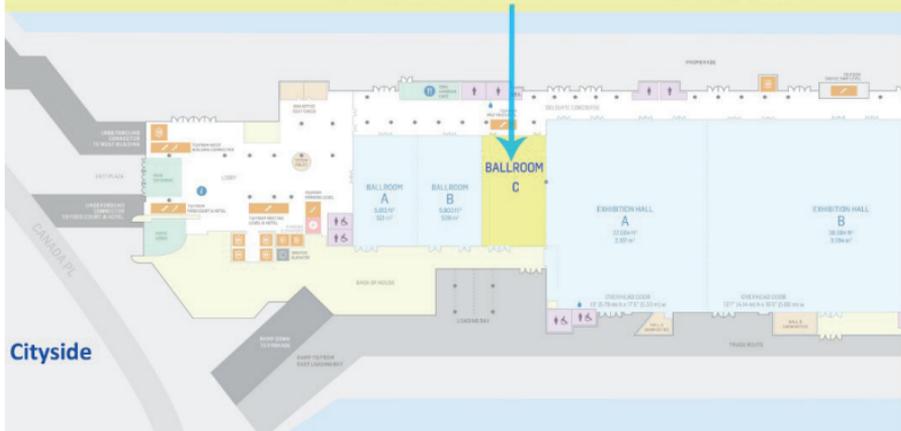
POCKET PROGRAM
June 2-6, 2022

Vancouver Convention Centre - East Building

Ground Level

Ballroom C: Opening/Closing/Awards

Symposia & Concurrent Sessions 4, 8, 12, 16 & 20



Vancouver Convention Centre - East Building

Upper Level

Remaining Concurrent Sessions, Poster Sessions & Breaks



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2022-2024

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SCHEDULE OVERVIEW

	2-JUNE	3-JUNE	4-JUNE	5-JUNE	6-JUNE
08:30 am					08:30 am
W		Welcome MacArthur & Wilson Award Talk	Wallace Award Talk	Dissertation Award talk	
O		09:20 am	09:00 am	09:00 am	
R		Innovation Biogeography Symposium	Changing Ocean Ecology and Biogeography Symposium	Conservation & Restoration Biogeography Symposium	
K		10:40 am	10:45 am	10:45 am	
S		Break	Break	Break	F
H		11:10 am	11:10 am	11:10 am	I
O		Innovation Biogeography Symposium	Changing Ocean Ecology and Biogeography Symposium	Conservation & Restoration Symposium	E
P		12:45 pm	12:45 pm	12:45 pm	L
S		Lunch Break	Lunch Break	Lunch Break	D
&		02:00 pm	02:00 pm	02:00 pm	T
F		Concurrent Sessions 1-4	Concurrent Sessions 9-12	Concurrent Sessions 17-20	R
I		03:30 pm	03:30 pm	04:00 pm	P
E		Break	Break	Break	S
L		04:00 pm	04:00 pm	04:30 pm	
D		Concurrent Sessions 5-8	Concurrent Sessions 13-16	Business Meeting/ Closing/Awards	
T		06:00 pm	06:00 pm		
R		Mentor Session/ Social	Break		
I			06:00 pm		
P			Poster session		
S					

PLENARIES & SYMPOSIA (BALLROOM C)

3 JUNE

Plenaries & Symposia
Ballroom C

	TITLE	SPEAKER
08:30 am	Welcome	
08:50 am	Speciation, extinction and the origins of the latitudinal diversity gradient	MacArthur & Wilson Award - Jason Weir
09:20 am	Introduction	Felisa Smith
09:25 am	Biogeography everywhere, all the time: remote sensing as a source of technological innovation	James Kellner
09:50 am	Drone ecology reveals the landscape context of Arctic global change.	Isla Myers-Smith
10:15 am	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.	Emma Elliott Smith
10:40 am	Break	
11:10 am	Advances in stable isotope analysis for paleoecology: a case study with sharks	Sora Kim
11:35 am	HumBug - an acoustic mosquito monitoring tool using budget smartphones	Marianne Sinka
12:00 am	Pathogeography - recent advances in biogeographical study of human infectious diseases	Kris Murray (Virtual)
12:25 pm	Panel Discussion	Panel/Concluding Remarks

4 JUNE

Plenaries & Symposia

Ballroom C

	TITLE	SPEAKER
08:30 am	Biogeography and macroecology of biological invasions: State of the art	Wallace Award - Petr Pyšek
09:00 am	Introduction	Mary O'Connor
09:05 am	Global drivers of marine predator diversity	John Grady
09:30 am	Thermal safety, environmental variability, and biodiversity change	Amanda Bates
09:55 am	Conservation biogeography and genomic restoration in the sunflower sea star	Lauren Schiebelhut
10:20 am	Beyond temperature and range shifts: Coastal ecosystems along the Southeastern Pacific are being transformed by changes in pelagic productivity	Sergio Navarrete
10:45 am	Break	
11:10 am	Temporal analysis of warming-driven distributional changes in macroalgae.	Rosa Chefaoui
11:35 am	The role of species interactions in mediating biogeographic responses to a changing climate	Chris Harley
12:00 am	The functional consequences of extinctions: From giant sharks to small mollusks	Catalina Pimiento (Virtual)
12:25 pm	Panel Discussion	Panel/Concluding Remarks

5 JUNE

Plenaries & Symposia Ballroom C

	TITLE	SPEAKER
08:30 am	Spatial structure of biodiversity: local and regional patterns in an insular ecosystem	Dissertation Award - Antonia Salces-Castellano
09:00 am	Introduction	Kathy Willis
09:05 am	The biogeography of useful plants: reconciling biodiversity and humanity.	Samuel Pironon
09:30 am	Integrated macroecological-paleoecological perspectives on large-herbivore effects on ecosystems – implications for conservation and restoration	Jens-Christian Svenning
09:55 am	Restoring ecosystems and landscapes for multiple benefits	Robin Chazdon
10:20 am	Pining for home: assisted migration as a climate change adaptation strategy	Gregory O'Neill
10:45 am	Break	
11:10 am	The relevance of historical perspectives to species recovery	Loren McClenachan
11:35 am	Saving seahorses means saving ocean spaces	Amanda Vincent
12:00 am	Shifting the conservation paradigm: goals and options for managing biodiversity and ecosystems	Suzanne Prober (Virtual)
12:25 pm	Panel Discussion	Panel/Concluding Remarks

3 JUNE IN-PERSON CONCURRENT SESSIONS (afternoons) & - Detail

Session 1

Climate Change Biogeography
Rooms 2&3

CATEGORY TITLE

15 min talks

TITLE

SPEAKER

02:00 pm	Body-size and food-web interactions mediate species range shifts under warming	Pinsky, Malin
02:15 pm	Rising minimum temperatures due to climate change contributed to 50-years of butterfly community shifts in high-latitude, western North America	Shirey, Vaughn
02:30 pm	Tree productivity and thermophilization across a latitudinal forest gradient	Perez, Timothy
02:45 pm	Tree-ring records reveal that climate-envelope approaches underestimate population vulnerability to recent climate change	Perret, Daniel
03:00 pm	Biotic and Climate Velocities from the Last Glacial Maximum to present: Can the Trees Keep Up?	Dawson, Andria
03:15 pm	Integrating physiology and biogeography: spatial variation of thermal tolerances of different insect taxa in central Europe and Pakistan	Hof, Christian

Session 2

Species Distributions
Room 8

CATEGORY TITLE

15 min talks

TITLE

SPEAKER

02:00 pm	Birds on the Move: Forty Years of Breeding Range Shifts of Migratory Birds in Illinois	Dorman, Wendy
02:15 pm	Changes in small mammal species distributions following the terminal Pleistocene megafauna extinction	Lyons, Kathleen
02:30 pm	Mapping known and undiscovered ant biodiversity across the globe and assessing agreement and mismatch with vertebrates	Kass, Jamie
02:45 pm	Multi-species distribution models and bias adjustments for large biodiversity datasets: an application to >10 000 species of the European Flora	Jones, Abbie Gail
03:00 pm	Distributions are more than habitat amount: the metapopulation structure is a vital element to distribution change	Cameron, Victor

3 JUNE IN-PERSON CONCURRENT SESSIONS (afternoons) & - Detail

		Session 3
		Biodiversity Patterns & Maintenance Room 11
CATEGORY TITLE	TITLE	SPEAKER
<i>15 min talks</i>		
02:00 pm	Unpacking patterns in mammal functional and phylogenetic diversity in the Anthropocene	Hedberg, Carson
02:15 pm	Evolutionary history, paleo- and contemporary abiotic filters drive tropical mammal community structure	Hsieh, Chia
02:30 pm	Extending trait-based inferences of ecological assembly processes to multitrophic communities	Lessard, Jean-Philippe
02:45 pm	Developing methods for invertebrate macroecology on the continental scale using the NEON pitfall network	Marshall, Katie
03:00 pm	Deep learning in ecology and biogeography: making the most of temporal data	Cela-Hasse, Ana
03:15 pm	Borrowing predictive strength across species to map more of biodiversity	Winner, Kevin

		Session 4
		Island Biogeography Ballroom C
CATEGORY TITLE	TITLE	SPEAKER
<i>15 min talks</i>		
02:00 pm	Dissecting dynamicity of fish communities in island-like marine lakes	Carlson, Bailey
02:15 pm	How Invaded are Hawaiian Forests? Top-down and Bottom-up Views Provide Contrasting Assessments of Degradation by Non-native Plants	Potter, Kevin
02:30 pm	Source Areas and Dispersal Patterns within the Macaronesian Flora	Price, Jonathan
02:45 pm	Threatened and extinct island endemic birds: distribution, threats and ecological function	Matthews, Thomas
03:00 pm	Schizomids: little arachnids, big implications for the generality of island diversity patterns in Palau (Micronesia)	Ames, Tahnee
03:15 pm	Fossil pollen sequences reveal changing biodiversity dynamics after human arrival on islands	Steinbauer, Manuel

3 JUNE IN-PERSON CONCURRENT SESSIONS (afternoons) & - Detail

CATEGORY TITLE		Session 5 Climate Change & Conservation Biogeography Rooms 2&3
<i>15 min talks</i>	TITLE	SPEAKER
04:00 pm	Climate change winners and losers among North American bumble bees	Jackson, Hanna
04:15 pm	Planted to thrive? Climatic viability of tree species in forest restoration plots under climate change	Barragan, Gabriela
04:30 pm	Geographic Range Dynamics of Māori and Moa	Lomolino, Mark
04:45 pm	A Mammoth buffet: resolving extinct herbivore community structure through multiproxy coprolite analysis	Mereghetti, Alessandro
05:00 pm	The effects of climate change on Australia's only endemic Pokémon: Measuring bias in species distribution models	Warren, Dan
05:15 pm	Genetic patterns and distribution of the worldwide invasive red-eared slider turtle and its native congeners	Vazquez, Ella
05:30 pm	Landscape fragmentation of the Natura 2000 network and its surrounding areas	Lawrence, Alexandra

CATEGORY TITLE		Session 6 Gradients & Range limits Room 8
<i>15 min talks</i>	TITLE	SPEAKER
04:00 pm	Living up to thermal potentials: Global patterns of thermal niche filling in ectotherms	Moore, Nikki
04:15 pm	How to get high: Positive and relaxed selection on mitochondrial genes at high elevation	Iverson, Erik
04:30 pm	Mathematically and biologically consistent framework for presence-absence pairwise indices of diversity	Keil, Petr
04:45 pm	The global drivers of tree range-edge hotspots	Lerner, David
05:00 pm	Physical constraints drive morphological evolution and geographical size gradients in bats	Rubalcaba, Juan
05:15 pm	Drivers of plant-pollinator interaction rewiring across a spatial gradient	Arrowsmith, Kaysee
05:30 pm	New tree-level temperature response curves document sensitivity, acclimatization, and adaptation to high temperatures	Gantois, Joséphine

3 JUNE IN-PERSON CONCURRENT SESSIONS (afternoons) & - Detail

		Session 7
		Phylogeography/Biodiversity Room 11
<i>15 min talks</i>	TITLE	SPEAKER
04:00 pm	Modeling genetic divergence and mapping phylogeographic breaks using machine learning	Mascarenhas, Rilquer
04:15 pm	Climatic instability through time shaped the global distribution of polyploid diversity in flowering plants	Hagen, Eric
04:30 pm	Biogeographic inferences across spatial and evolutionary scales	Wishingrad, Van
04:45 pm	Is the Tongue of the Ocean a phylogeographic barrier for Bahamian reef fishes?	Ilves, Katriina
05:00 pm	Integrating fossils and phylogenies reveals a boreotropical origin of the tea family (Theaceae)	Yan, Yujing
05:15 pm	Detecting the phylogenetic signal of glacial refugia in a biodiversity hotspot outside the tropics	Wu, Ernest
05:30 pm	Diversification cradles in the Sahara-Sahel: contrasting evolutionary histories in functional groups urges a reassessment of priority conservation zones	Liz, André Vicente

		Session 8
		Models & Methods in Biogeography Ballroom C
<i>15 min talks</i>	TITLE	SPEAKER
04:00 pm	A joint SDM to study different observational data sets and account for their sampling designs	Makinen, Jussi
04:15 pm	Niche Divergence Plane: New conceptual framework to classifying and quantifying ecological niche divergence between taxa	Ascanio, Alfredo
04:30 pm	From tropics to treeline: Drivers of global variation in plant mortality rates	Borrego, Isaac
04:45 pm	Null models suggest that mammalian endemism is constrained by geography, not species niche breadth	Shiple, Benjamin
05:00 pm	New survey data might be key to understanding limitations of species distribution and abundance models for arctic shrubs	Chardon, Nathalie
05:15 pm	Using herbarium specimens to quantify changes in insect herbivory in northeast North America over the past century	Kharouba, Heather
05:30 pm	Continuous land cover change detection in Subtropical Thicket ecosystems	Mahlasi, Craig

4 JUNE

IN-PERSON CONCURRENT SESSIONS (afternoons) & POSTER SESSION - Detail

CATEGORY TITLE		Session 9 Climate Change Biogeography Rooms 2&3
<i>15 min talks</i>	TITLE	SPEAKER
02:00 pm	Using standardized genomic offsets to add an evolutionary perspective to climate change biogeography	Lachmuth, Susanne
02:15 pm	Trends in shifting phenologies and asynchrony in response to recent changes in climate	Loughnan, Deirdre
02:30 pm	Natural and dammed rivers: which is better for salmon's summer?	Redana, Matteo
02:45 pm	Climate change drives mountain butterflies towards the summits	Rödder, Dennis
03:00 pm	Limited protection and ongoing loss of tropical cloud forest biodiversity and ecosystems worldwide	Karger, Dirk
03:15 pm	Conservation prioritization in the European Alps: The Mediterranean and Alpine Flora at risk	Chauvier, Yohann
03:30 pm	Break	

CATEGORY TITLE		Session 10 Paleoecology & Paleobiogeography Room 8
<i>15 min talks</i>	TITLE	SPEAKER
02:00 pm	Spatio-temporal distribution of pollen traits to interpret long-term changes in plant communities	Nogué, Sandra
02:15 pm	Expanding ecometric analyses to explore geographic patterns of faunal responses to change	Short, Rachel
02:30 pm	How long does it take for related species to coexist? Biodiversity gradients in species coexistence, the space and time of diversity accumulation.	Henao Diaz, Francisco
02:45 pm	Variation in the productivity-diversity relationship in during last 21,000 years indicate both equilibrium and disequilibrium dynamics	Šímová, Irena
03:00 pm	Survivors of the Ice Age: Rancho La Brea mesocarnivores from late Pleistocene to modern-day	Balisi, Mairin
03:30 pm	Break	

4 JUNE

IN-PERSON CONCURRENT SESSIONS (afternoons) & POSTER SESSION - Detail

CATEGORY TITLE		
		Session 11 Historical Biogeography Room 8
<i>15 min talks</i>	TITLE	SPEAKER
02:00 pm	Blooming on the roof of the world -- The origin and assembly of the alpine biodiversity in the Tibeto-Himalaya-Hengduan region	Ding, Wenna
02:15 pm	Stability of knowledge about mammal-pathogen interactions through time and space	Robles Fernández, Ángel Luis
02:30 pm	Do the small-ranged species of mammals diversify slower?	Smyčka, Jan
02:45 pm	The interaction of climate history and evolution impacts alpine biodiversity assembly differently in freshwater and on land	Jardim de Queiroz, Luiz
03:00 pm	Life-history traits mediate avian demographic responses under past climate change	Nogués-Bravo, David
03:30 pm	Break	

CATEGORY TITLE		
		Session 12 Biodiversity Patterns, Species Distributions & Maintenance Ballroom C
<i>15 min talks</i>	TITLE	SPEAKER
02:00 pm	Analysing the Drivers of Speciation in the Hengduan Mountains, China	Yuan, Zili
02:15 pm	Species distribution models affected by positional uncertainty in species occurrences can still be ecologically interpretable	Gabor, Lukas
02:30 pm	The links between larval and adult fish diversity	Lazarus, Mai
02:45 pm	Drivers of past ecological change in Tonga and Vanuatu.	Strandberg, Nichola
03:00 pm	Diversity dynamics in birds of New World	Machac, Antonin
03:15 pm	Chemical properties of key metabolites determine the global distribution of lichens	Schweiger, Andreas
03:30 pm	Break	

4 JUNE

IN-PERSON CONCURRENT SESSIONS (afternoons) & POSTER SESSION - Detail

	Session 13	
CATEGORY TITLE	Conservation Biogeography	
	Rooms 2&3	
<i>15 min talks</i>	TITLE	SPEAKER
04:00 pm	Modeling the biodiversity enhancement value of seagrass beds	McHenry, Jennifer
04:15 pm	Classification and biogeography of Antarctic ice-free ecosystems	Toth, Aniko
04:30 pm	Predicting the present and uncertain future for Canada's terrestrial vertebrates and plants	Pollock, Laura
04:45 pm	Iterative ecological niche modeling and field surveys of the rare <i>Ivesia webberi</i>	Borokini, Israel
05:00	Setting priorities for long term conservation: A flexible selection approach	Voskamp, Alke
05:15 pm	Biogeography and conservation of marine crabs	Maureaud, Aurore
06:00 pm	POSTER SESSIONS	

	Session 14	
CATEGORY TITLE	Functional Biogeography	
	Room 8	
<i>15 min talks</i>	TITLE	SPEAKER
04:00 pm	The Ecorichness - Area Relationship (ECAR) as a tool to explore community assembly	Sfenthourakis, Spyros
04:15 pm	Global variation in avian functional traits: introducing AVONET, a new standard of morphological, ecological and geographical data for all birds	Fritz, Susanne
04:30 pm	Predictive mapping of intraspecific trait variation among California's grasses	Sandel, Brody
04:45 pm	Winegrape cold tolerance at the range edge: the influence of genetic variation and climate change	Jones, Faith
05:00 pm	What may shape local persistence of plant species on edaphic islands? Insights from a functional island biogeographic approach	Ottaviani, Gianluigi
05:15 pm	Drivers of Phylogenetic and Functional diversity of terrestrial mammals across biogeographic zones of India	Chatterjee, Nilanjan
06:00 pm	POSTER SESSIONS	

4 JUNE

IN-PERSON CONCURRENT SESSIONS (afternoons) & POSTER SESSION - Detail

		Session 15
CATEGORY TITLE	Invasion Biogeography/Species Distribution/Diversity Room 11	
<i>15 min talks</i>	TITLE	SPEAKER
04:00 pm	Ecological sampling cover estimation for dung beetles (Coleoptera: Scarabaeidae) in Turkey	Akkurt Gumus, Seda
04:15 pm	Introduced herbivores restore Late Pleistocene ecological functions	Lundgren, Erick
04:30 pm	Landscape connectivity from the perspective of ectomycorrhizal fungi	Johnson, Liam
04:45 pm	Birdlife range maps differ from statistically derived ones but not enough to alter conclusions on drivers of diversity	Aronsson, Heléne
05:00 pm	A global analysis of habitat change research in reptiles and amphibians: What have we done so far?	Tan, Nicholas Wei Cheng
05:15 pm	Mechanistic SDMs and connectivity models: The highly invasive African Clawed Frog (<i>Xenopus laevis</i>) in Europe	Ginal, Philip
06:00 pm	POSTER SESSIONS	

		Session 16
CATEGORY TITLE	Biodiversity Patterns & Maintenance Ballroom C	
<i>15 min talks</i>	TITLE	SPEAKER
04:00 pm	The clustering of spatially associated species to unravel patterns in species distributions	Pang, Sean
04:15 pm	Equilibrium Theory of Biodiversity Dynamics: Interplay between patterns of diversity, abundance and energy	Storch, David
04:30 pm	Impact of geological and climate factors on plant biodiversity patterns in the Hengduan Mts, China	Chang, Yaquan
04:45 pm	By land, air or sea: foraging in distinct media shapes the evolution of functional trait specialisation in birds	Sayol, Ferran
05:00 pm	Ecological and evolutionary processes shape below-ground springtail communities along an elevational gradient	Chen, Ting-Wen
05:15 pm		
06:00 pm	POSTER SESSIONS	

4 JUNE IN-PERSON POSTER SESSIONS

4-JUNE (06:30 pm - 08:30 pm)
Room 1 & South Foyer

CODE	TITLE	PRESENTER
Biodiversity Patterns & Maintenance		
A1	Area vs. Environmental Heterogeneity: Scale-Dependence in Simulations	Malanson, George
A2	Arkansas Pimple Mounds as a Study System to Test How Plant Community Assembly Mechanisms Change across a Landscape.	Benton, Ben
A3	Bayesian biogeographic analysis of squirrel evolution suggests and Asian origin	Anna Banks
A4	Complex structure creates complex communities: How 3D vegetation drives understudied patterns in avian communities.	Sweeney, Colin
A5	Global drivers of mountain plant biodiversity	Liu, Yi
A6	Influence of seasonal flooding on plant reproductive phenology on Buck Island, a Lower Mississippi River island	Sims, Caity
A7	On modeling susceptibility of host parasite interactions through machine learning from only presence data	Robles Fernández, Ángel Luis
A8	Plant community composition of six Lower Mississippi River islands	McCartha, Grace
A9	Roots in the tundra - belowground plant traits under varying environmental conditions at multiple Arctic and Alpine sites	Turner, Laura
A10	Synchronous populations as signals of biodiversity change	Hébert, Katherine
A11	The geography of metacommunity assembly: landscape heterogeneity and species pool attributes mediate the relative importance of assembly mechanisms	Khattar, Gabriel

CODE	TITLE	PRESENTER
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Climate Change, Conservation & Invasion Biogeography

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

CODE	TITLE	PRESENTER
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Functional Biogeography

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

CODE	TITLE	PRESENTER
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Island & Marine Biogeography

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

CODE	TITLE	PRESENTER
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Models & Methods in Biogeography

E1	A Bayesian methodology to estimate local extinction events using spatial information	Casabona i Amat, Clara
E2	Deriving Accurate Water Thermal Maps From UAV-Mounted Thermal Camera.	Redana, Matteo
E3	Ecological Niche Modeling for Conservation of Native Species (<i>Diospyros rhodocalyx</i>) in Rajamangala University of Technology Isan, Nakhonratchasima, Thailand	Jantakat, Yaowaret
E4	Using Planning Green Space Network for Forest Restoration	Jantakat, Yaowaret
E5	Effects of eigenfunction-based spatial variables on the prediction of species distribution model.	Jeon, Cheongok
E6	Fingerprints of recent climate change in ecological niche models: the case of the Mexican small-eared shrew	Pinilla-Buitrago, Gonzalo E.
E7	Incorporating Genotypic Variability of Plant Populations in Continental-Scale Phenological Models	Liang, Liang
E8	Mapping Climate-Associated Risk for Cholera in Bangladesh	Kruger, Sophia
E9	Towards a standardization and unification of global terrestrial biome classifications	Fischer, Jan-Christopher

CODE	TITLE	PRESENTER
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Paleoecology and Paleobiogeography

F1	Tropical paleoecology data mobilization in Neotoma to study ecoclimatic sensitivity of tropical ecosystems to glacial-interglacial climate change	George, Adrian
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CODE	TITLE	PRESENTER
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Species Distributions

G1	A neighborhood approach for using remotely sensed data to post-process species distribution models: results for a threatened Mexican mammal (<i>Handleyomys chapmani</i>)	Johnson, Bethany
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G2	A Sky Island Perspective: New England, USA Alpine Plant Community Change Through Space and Time	Tirrell, Andrea
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G3	Assessing species distribution models' abilities to locate unknown populations of rare sedges in eastern Arkansas	Kosnik, Brendan
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G4	Biodiversity Distribution Index: Tracking spatial and temporal trends in species ranges	Bellavance, Vincent
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G5	Current dung beetle distributions as indicators of abiotic and biotic changes in the African continent: a case study using <i>Catharsius Hope, 1837</i> (Scarabaeidae, Scarabaeinae)	Blades, Bryony
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G6	Molecular markers and ecological niche modeling uncover migration routes of the Carpathian endemic round leaved ox-eye daisy (<i>Leucanthemum rotundifolium</i>)	Konowalik, Kamil
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G7	Oh, the places they'll go!: Examining Contemporary Tree Range Shifts	McLaughlin, Bailey
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G8	Phylogenetic Niche Modeling	McHugh, Sean
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G9	Potential decline in the distribution and food provisioning services of the mopane worm (<i>Gonimbrasia belina</i>) in southern Africa	Shen, David
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G10	Range-wide and regional distribution of the Western Tragopan (<i>Tragopan melanocephalus</i>) and effects of disturbance on local abundances	Shah, Akbar
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G11	Resolution in species distribution models shapes spatial patterns of plant multifaceted diversity	Chauvier, Yohann
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G12	Wolf in the Central Europe - geographic and genetic crossroads	Romportl, Dusan
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5 JUNE

IN-PERSON CONCURRENT SESSIONS (afternoons) & - Detail

CATEGORY TITLE		Anthropocene Biogeography Rooms 2&3	Session 17
15 min talks	TITLE		SPEAKER
02:00 pm	Assessing biodiversity changes across a continuum of spatio-temporal scales		Leroy, François
02:15 pm	Humans are disrupting a longstanding trophic-size structure in vertebrates		Gearty, William
02:30 pm	Do vertebrate species traits influence species' responses to land-use and climate change?		Etard, Adrienne
02:45 pm	Towards a predictive biogeography of crop-pests and pest control: integrating experiments, large temporal datasets, and models.		Morales-Castilla, Ignacio
03:00 pm	Three thousand years of island insect decline inferred with community genomics		Economu, Evan P.
03:15 pm	Human-driven speciation could counter global species losses but not losses in phylogenetic diversity		Faurby, Soren
03:30 pm	Fast or slow? Rates of climate changes of multiple variables over the last decades		Ordonez, Alejandro
03:45 pm	80 years of anthropogenic change and its impact on Canadian butterfly taxonomic and phylogenetic diversity		Lewthwaite, Jayme
04:00 pm	Break		
04:30 pm	Business meeting, Closing and Awards Ceremony		

CATEGORY TITLE		Paleocology & Paleobiogeography Room 8	Session 18
15 min talks	TITLE		SPEAKER
02:00 pm	Past spatio-temporal variability of boreal forest carbon storage: an Alberta case study		Crowchild-Fletcher, Jo-Mary
02:15 pm	Using global climate data and the fossil record to determine the driving factors in the late-Quaternary megafauna extinctions		Lemoine, Rhys
02:30 pm	Changes in small mammal community composition over the last 25,000 years across multiple western North American cave localities		Schap, Julia
02:45 pm	Holocene history of mangrove distribution and migration along the Gulf of Mexico coast, U.S.A.		Liu, Kam-biu
03:00 pm	Quantifying Holocene albedo change from paleoecological land cover for northern North America		Morillo, Ruby
03:15 pm	A novel tool to detect non-random time trends in assemblages		Sizzling, Arnost
03:30 pm	The time-integrated host diversity hypothesis for geographic variation in the species pool richness of mycorrhizal fungi		Pither, Jason
03:45 pm	Global phanerozoic biodiversity - can variation be explained by spatial sampling intensity?		Czekanski-Moir, Jesse
04:00 pm	Break		
04:30 pm	Business meeting, Closing and Awards Ceremony		

5 JUNE

IN-PERSON CONCURRENT SESSIONS (afternoons) - Detail

		Session 19	
		Biodiversity/Richness/Species Distributions Room 11	
CATEGORY	TITLE	TITLE	SPEAKER
<i>15 min talks</i>			
02:00 pm	Spatial range traits drive plant exposure to climate and land use change in the California Floristic Province		Rose, Brooke
02:15 pm	Dynamics of the Northern Humboldt Current System pelagic fish community structure under El Niño Southern Oscillation scenarios		Galloso Sanchez, Paola Lisset
02:30 pm	GreenMaps: a Tool for Addressing the Wallacean Shortfall in the Global Distribution of Plants		Daru, Barnabas
02:45 pm	How plant dispersal syndromes shape the relationship of species richness with area and isolation		Walentowitz, Anna
03:00 pm	Pacific eDNA Coastal Observatory: how to capture biogeography with a simultaneous and systematic snapshot of biodiversity		Sheridan, Kate
03:15 pm	Can we propose more laws for biogeography?		Costello, Mark
03:30 pm	What controls plant richness on mountainous oceanic island: area, productivity, or water and energy?		Vetaas, Ole
03:45 pm	Geography and timeline of the initial domestication and spread of Persian walnuts: Early Bronze Age or Silk Road?		Renner, Susanne
04:00 pm	Break		
04:30 pm	Business meeting, Closing and Awards Ceremony		

		Session 20	
		Paleocology & Paleobiogeography Ballroom C	
CATEGORY	TITLE	TITLE	SPEAKER
<i>15 min talks</i>			
02:00 pm	An integrated high-resolution mapping shows congruent biodiversity hotspots of Fagales and Pinales		Lyu, Lisha
02:15 pm	Biogeographical patterns and dynamics emerging from low-level eco-evolutionary models		Sarmento Cabral, Juliano
02:30 pm	Global plant-frugivore trait matching is shaped by climate and biogeographic history		McFadden, Ian
02:45 pm	The drivers of global plant diversity		Tietje, Melanie
03:00 pm	Integrating traits and networks: the geography of functional diversity in multitrophic assemblages		Munoz, Gabriel
03:15 pm	Mycorrhiza-mediated plant species interactions between forest layers in western USA		Thomsen, Corrina
03:30 pm	Evidence of introgression, distributional shifts and selection in North Atlantic Asterias sea stars		Giakoumis, Melina
03:45 pm			
04:00 pm	Break		
04:30 pm	Business meeting, Closing and Awards Ceremony		

VIRTUAL TALKS* – LIVE WITH Q&A

3 JUNE

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

Virtual Session 1

Island Biogeography

CATEGORY TITLE

15 min talks

TITLE

SPEAKER

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

Virtual Session 2

Biodiversity Patterns & Maintenance/Species Distributions

CATEGORY TITLE

15 min talks

TITLE

SPEAKER

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

3 JUNE

Virtual Session 3
Anthropocene Biogeography

CATEGORY TITLE

15 min talks

TITLE

SPEAKER

01:00 pm	Seafood biogeography: diversity, distribution and extinction risk of exploited marine bivalves	Huang, Shan
01:15 pm	The Island Biogeography of Humans	Mologni, Fabio
01:30 pm	Evolutionary imbalance, colonial history, and the global biogeography of naturalized alien plants	Fristoe, Trevor
01:45 pm	Understanding the biogeographic patterns of Colombian edible plants.	Gori, Benedetta
02:00 pm	Climate vulnerability of mountain biota revisited	Chen, Yi-Hsui
02:15 pm	Diversity erosion of Neotropical mountain amphibian communities in the Anthropocene	Menéndez-Guerrero, Pablo
02:30 pm	Main process driving functional diversity of urban avian assemblages varies among cities with different development levels	Tsai-Chen, Yu

Virtual Session 4

CATEGORY TITLE Biodiversity Patterns & Maintenance/Species Distributions

15 min talks

TITLE

SPEAKER

04:00 pm	Inferring how regional features influence biogeographical diversification	Landis, Michael
04:15 pm	Trait equilibria on islands	Schrader, Julian
04:30 pm	Using Geographical Overlaps to Track Temporal Changes in Species Interactions and Community Coexistence Instability	Yin Zheng Lai
04:45 pm	Areas of endemism of selected seed plant species in southwestern U.S.A.	Saghatelyan, Anna
05:00 pm	SSE models for biogeography: prospects and challenges	Matzke, Nicholas

Virtual Session 5

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

Virtual Session 6

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

VIRTUAL TALKS* – On Demand

ANTHROPOCENE BIOGEOGRAPHY

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

BIODIVERSITY PATTERNS & MAINTENANCE

TITLE	SPEAKER
A consistent hump-shaped pattern of diversity-elevation relationship observed at different grain scales: a case study using woody species in Taiwan	Zelený, David
A critical review of current species distribution model methods to guide greater reproducibility and accessibility	Bevan, Hannah
A decline in diversity explains the low species richness of dipodoid rodents	Rolland, Jonathan
A tale of two trees: Contrasting growth patterns at opposing range margins for two North American pine species.	Lesser, Mark
Assessing the relation between fine-scale geodiversity and species richness in mountain heaths and tundra	Salminen, Henriikka
Asynchrony outweighs population stability and diversity in stabilizing terrestrial communities	Tsang, Toby Pak Nok
Chorotypes and diversity patterns of human infectious diseases in Brazil	Winkelman, Stephanie
Divergent biogeographic trajectories: The need to integrate genetic, pollen, and occurrence data for robust inference	Castilla, Antonio
East or West, nests are best: Dramatically different dragonfly habitats have surprisingly similar nymphal nestedness	Gaines, Karen



BIODIVERSITY PATTERNS & MAINTENANCE

TITLE	SPEAKER
Ecological processes and the biogeography of speciation among endemic lizards of Madagascar	Pearson, Richard
Estimating and conserving patterns of grasshopper diversity and richness in Western Australia	Hossain, Md Anwar
Evidence of strong increase in demersal fish biodiversity across the Norwegian and Barents Seas in the last 31 years	Gordó-Vilaseca, Cesc
Geographic patterns in artiodactyl richness and ecological diversity	Wang, Bian
Identifying the drivers of spatial taxonomic and functional beta-diversity of British breeding birds	Wayman, Joe
Insights into biogeographical patterns in the Indo-Australian Archipelago from beta-diversity of bird assemblages	Prasetay, Audrey
Islands in the mist: a systematic review of coastal lomas ecosystems	Gonzales, Fiorella
Macroecological patterns of biotic interactions and their consequences in prey communities: Insights from elevational gradients in the equatorial Andes	Camacho, Luis
Possible mechanisms explaining hump-shaped richness-elevation pattern of woody species in Taiwan	Lin, Po-Yu
Regional co-occurrence patterns of Rhododendron species across spatiotemporal scales	Li, Qin
Species diversity habitat analysis of owl in Tolipir National Park, Azad Jammu and Kashmir, Pakistan	Faiz, Abul
Temporally and spatially decoupled evolution of mimicry in an iconic system	Kozak, Krzysztof
Using a global dataset of country checklists to evaluate dragonfly data coverage	Sandall, Emily

CLIMATE CHANGE BIOGEOGRAPHY

TITLE	SPEAKER
Addressing the challenge of applying climate change refugia in forest management	Pradhan, Kavya
Beyond heat waves: Human cities may be incompatible with prolonged maximum monthly temperatures	Hanberry, Brice
Biogeographic patterns of root carbon and nitrogen and their controls across U.S.	Zhang, Andrew
Biophysical effects of afforestation on land surface temperature in southern China	Shen, Wenjuan
Combining spores dispersal simulation and ecological niche models to evaluate climate change impact on Bryophytes in Europe	Zanatta, Florian
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	Ghosh, Sayanta
Natural niche truncation and the limits of our knowledge on of how species will respond and have responded to climate change	Smith, Adam
Predicting potential suitable habitat for <i>Olea europaea</i> in Eastern Mediterranean from Last Glacial Maximum to the Future	Ustaoglu, Beyza
Revealing ecological mechanisms of range contraction for reindeers over the last 21,000 years	Canteri, Elisabetta
Thermal niche traits of terrestrial ferns along an elevational tropical Andean gradient	Salazar, Laura
Trends in Geographic Sensitivity of Marine Fishes Over Decades in the North Sea	Ko, Chia-Ying

CONSERVATION BIOGEOGRAPHY

TITLE	SPEAKER
Amazonian areas of endemism for <i>Pachira</i> Aubl. (Bombacoideae: Malvaceae)	Yoshikawa, Vania
Biological Spectrum and Phytogeographic Elements of the Wildlife Park Bansra Gali, Murree – an example from Moist Temperate Ecosystem	Khan, Shujaul Mulk
Coloniality, conservation and Indigenous peoples: a critical exploration of the World Heritage programme	Fogarty, Irene
Comparison of benthic macrofauna sampling methods in the rocky intertidal zone of Guadalupe Island, Mexico.	Ortiz-Sartorius, Alfredo
Factors influencing effectiveness of wildflower compensation areas in Schleswig Holstein, Germany	Bennett, David
GIS Supported - Evaluation of the Interrelationship between Urbanization and Wildlife Species Loss in Osogbo, Nigeria	Oyegbami, Akinleye
Hotspots for the conservation of evolutionary heritage and their exposure to land use impacts and climate change	Nipperess, David
How much of the worldwide marine habitats are we protecting? Two reproducible indexes to monitor the extent of marine habitats within protected areas.	Kumagai, Joy
Identifying conservation corridors with the aid of cloud climatologies	Douglas, Michael
Identifying geographical hotspots to guide conservation action for Colombia's useful plants	Kor, Laura
Mammal Species of the World Next: platform for curating taxonomic intelligence to extend biodiversity data	Upham, Nathan
Phytogeographical element and vegetation of wildlife park Bansra Gali, Murree	Khalid, Ateeqa
Selection of sampling sites for biodiversity inventory: effects of environmental and geographic considerations	Cobos, Marlon
The Biogeography of Disjunct Vascular Plants in the San Juan and Gulf Islands	Martin, R. Adam
Using recent baselines as benchmarks for megafauna restoration places an unfair burden on the Global South	Monsarrat, Sophie

FUNCTIONAL BIOGEOGRAPHY

TITLE	SPEAKER
Extending nestedness to functional and phylogenetic perspectives: study on amphibian metacommunities within China largest archipelago	Chen, Chuanwu
Patterns and drivers of avian taxonomic and functional α - and β -diversity in Quebec	Lazarina, Maria
Variation in avian morphology with altitude in tropical montane systems	Lele, Abhimanyu

GRADIENTS & RANGE LIMITS

TITLE	SPEAKER
Determinants of plant species richness along the Himalayan elevational gradient	Rana, Suresh
Exploring signatures of differential selection and local adaptation across climate and habitat in the chisel-toothed kangaroo rat (<i>Dipodomys microps</i>)	Farleigh, Keaka
Floristic change along an ecological gradient in a hummock campo-Brasilia/Brazil using indirect gradient analysis	Laranja, Ruth
Macroecology in Depth: Estimating Marine Fish Biodiversity in Three Dimensions	Owens, Hannah
Meta-analysis of local adaptation in spring phenology across Europe and North America	Zeng, Alina
Habitat but not topographic heterogeneity constrains the range sizes of African mammals	Lauer, Daniel

INVASION BIOGEOGRAPHY

TITLE	SPEAKER
Dark diversity at home describes the success of cross-continent tree invasions	Paganeli, Bruno
The influence of fire and land use on breaking the grassland-tree barrier in North America, creating novel assemblages of eastern and western tree species	Hanberry, Brice
Transboundary range expansion, spatial structure in abundance, and the influence of environmental filtering on a marine invasive species	Ma, Kevin C.K.

ISLAND BIOGEOGRAPHY

TITLE	SPEAKER
Extinction drives a discontinuous temporal pattern of species-area relationships in a microcosm system	Deng, Wei
Historical biogeography of <i>Maesa</i> (Primulaceae) with an emphasis on Malesian archipelago	Sumanon, Pirada
Impacts of forest fire on understory species diversity in Canary Pine ecosystems on the island of La Palma	Weiser, Frank
Island ontogeny, endemic species and the missing link between climatic rarity and functional traits	Cutts, Vanessa
Land use change through the lens of macroecology: new insights from Azorean arthropod communities	Brush, Micah
The northern Philippines is characterized by ancient colonization and persistent diversification by small mammals	Rowsey, Dakota
The biogeography of island elephants: when does Jumbo shrink?	Van der Geer, Alexandra
Reconstructing pre-anthropoc vegetation patterns of St Helena island, South Atlantic Ocean	Paajanen, Mikko

MARINE BIOGEOGRAPHY

TITLE	SPEAKER
Changing latitudinal distribution and body size of marine fishes across Norwegian waters	Lavin, Charles
Diversity and dynamics of bull kelp niches in the Salish Sea	Mora Soto, Alejandra
Drivers of Change in Haida Gwaii Kelp Forests: Combining Satellite Imagery with Historic Data to Understand Spatial and Temporal Variability	Gendall, Lianna
Evidence of depth partitioning in <i>Provanna</i> (Gastropoda: Provannidae) from the Costa Rica Margin	Bettters, Melissa

MODELS & METHODS IN BIOGEOGRAPHY

TITLE	SPEAKER
A novel modelling framework to quantify phylogenetic signal in ecologically-relevant variables	Sharma, Shubhi
Biogeographical modelling of the species competitive interactions: a fuzzy logic approach	Romero, David
Detecting spatially-dependent trait evolution in biological communities	Pereira Braga Pedro Henrique
DynamicGrids.jl: fast, concise and extensible spatial modelling in Julia.	Schouten, Rafael
Fauxcurrence: simulating multi-species occurrences for null models in species distribution modelling and biogeography	Adam, Algar
How species range size affects distance-decay shape and a novel test for parameters comparison	Martin-Devasa, Ramiro
How well do available methods quantify the importance of assembly processes in ecological community data: a simulation approach	Huang, Ching- Lin
Inferring Evolutionary Rates in a Geographic Context: Incorporating Region Features	Swiston, Sarah
How far can I extrapolate my species distribution model? Comparing established and novel methods	Velazco, Santiago
Using experimentally measured temperature limits of Orthoptera in Bavaria (Germany) to inform a mechanistic range model and predict the impact of future climate change on them	Fallert, Stefan

NEOTROPICAL BIOGEOGRAPHY

TITLE	SPEAKER
Bioregions and regional biotic interchanges of New World monkeys	Löwenberg- Neto, Peter
On the relationship between environmental suitability and habitat use for three neotropical mammals	Contreras-Díaz, Rusby G.

PALEOECOLOGY AND PALEOBIOGEOGRAPHY

TITLE	SPEAKER
"Out-of-India" or "In-to-India" dispersal of tropical flora? Biotic interchange between India and Asia in deep time	Chandra, Kajal
Ancient DNA of narrow-headed voles reveals common features of Late Pleistocene population dynamics in cold-adapted small mammals.	Baca, Mateusz
Gondwanan origin of Dipterocarpaceae and the rise of lowland rainforests of Southeast Asia	Bansal, Mahi
Re-examining moisture balance control of forest-grassland boundaries in North America	Hanberry, Brice
Taxonomic composition, and biochronologic framework of Tragulidae from the Napak region	Musalizi, Sarah
Trinidad and Tobago (Caribbean-South American) Geogenomics: Reconciling and synthesizing published genetics data into a comprehensive geologic, paleogeographic, and geomorphic model	Weber, John
Taxonomic and Functional Beta Diversity of North American Mammal Paleocommunities are...	Shupinski, Alex
FAMM: A database of Fossil Arctic Marine Mammals for use in Pattern-Oriented Modeling	Freymueller, Nicholas
Volcanism and Rodent Evolution: hypotheses and results from a workshop.	Arroyo-Cabrales, Joaquin

PHYLOGEOGRAPHY

TITLE	SPEAKER
A time-calibrated multi-gene phylogeny of key groups of aquatic insects for assessing global patterns of phylogenetic diversity	García-Girón, Jorge
Genome-wide SNP data unraveled phylogeography and cryptic divergence of living fossil coral across the Indo-West Pacific	Taninaka ,Hiroki
Podocarpus in the palaeogeographically complex island of Hispaniola: a stepping-stone colonization and conservation recommendations	Nieto Blazquez, Maria Esther

SPECIES DISTRIBUTIONS

TITLE	SPEAKER
Biogeography of <i>Monopelopia</i> Fittkau, 1962 (Chironomidae: Tanypodinae)	Mondal, Debarshi
Biogeography of Oriental species of <i>Polypedilum</i> Kieffer, 1912 (Diptera: Chironomidae)	Mukherjee, Tuhar
Butterfly Communities in China: Distribution, Diversity, and Environmental Correlates	Liao, Hengyi
Diversity of wasp species (hymenoptera: vespidae) from the hazara region, pakistan	Shah, Muzafar
Estimating the fundamental climatic niche of species with occurrence data, physiological tolerances and accessible areas	Jiménez, Laura
Old Messinian modelled landscape still shapes the distribution of short-lived Mediterranean grasses	Ortiz, Maria A.
<i>Pulsatilla vernalis</i> is losing its range	Michalska, Ewa
Soil effects on plant distributions and migration in Eastern North America	Ni, Ming
The animals of the concrete jungle: urban fauna of the Metropolitan Region of São Paulo, Brazil	Rocha, Yuri
What controls species distributions? A demographic test and a new hypothesis	Evans, Margaret
Dissonance in predictions from species distribution models and pollen density models across the previous 21,000 years	Jenkins, Lauren



POCKET PROGRAM
June 2-6, 2022



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