Island Biology 2016

Conference Guide

II International Conference on Island Evolution, Ecology, and Conservation



University of the Azores at Angra do Heroísmo

Terceira Island, Azores, Portugal

18-22 July 2016

Island Biology 2016 - Terceira - Azores

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Angra do Heroísmo, July, 18 to 22, 2016

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Foreword

Oceanic islands are at the core of research on biogeography and many other biological issues. Roughly halfway between Europe and North America, lies the archipelago of the Azores, the most remote archipelago of the North Atlantic Ocean. Composed of nine islands, divided into eastern, central and western groups, it is home to approximately 250.000 inhabitants and more than 6000 species (terrestrial and marine), including about 500 endemics.

Islands have long been recognized as of special scientific interest, especially in respect to their formation and development mechanisms, means of biotic colonization, evolution of unique biotas and ecosystems, and extensive loss of endemics, making island research and conservation an attractive and very active area of research.

The Island Biology 2016 international conference brings together the expertise of a wide spectrum of research fields, in order to expand knowledge and achieve a unified view of island biology. The conference includes poster presentations, plenary and regular sessions, and hosts 24 specialized symposia, aimed to accommodate in-depth discussions in topical areas in Island Biology.

Biodiversity, Global Changes, Conservation, Invasive Species, Evolutionary Biology, Species Interactions and Networks, Paleobiology and Biogeography are the key conference themes. We expect that the pioneering ideas, leading theories, novel methodological approaches and recent ground-breaking results presented at this conference will provide advances in island biology research and guidelines for the future development of this field.

In addition, the interdisciplinary expertise of participants is expected to contribute to inform decision-makers concerning effective conservation planning strategies in island ecosystems, following the inspiration provided by the Declaration of the Guadeloupe 2014 International Conference on Biodiversity and Climate Change.

We look forward to welcome you all in the Azores!

PAULO A.V. BORGES,

ROSALINA GABRIEL, RUI B. ELIAS, ISABEL R. AMORIM & ENÉSIMA MENDONÇA

Island Biology 2016: Practical matters

Welcome to the second Island Biology Conference, to the Azores and to the University of the Azores at Angra do Heroísmo (Terceira Island, Azores, Portugal). After a fantastic experience in Hawaii (2014) we hope you will enjoy yourself in the Azores and get the most out of participating in the Second Island Biology Conference.

The information below is provided to help you get around the city of Angra do Heroísmo and the University of the Azores *Campus* at Pico da Urze. A simplified <u>city map</u> is provided on page 43 of this Guide.

<u>Conference Office</u>: The Conference Office/Secretariat is located in the Conference Hall (*Centro Cultural e de Congressos de Angra do Heroísmo*) and will be open every day during the conference (July, 18-22) from 13:00 to 18:00. It may be reached by phone at +351.96.9877531 or +351.96.8933212.

<u>Emergencies</u>: In case of an emergency, please contact any of the organizers or staff; we will be identified with coloured tags. **In Portugal, the National Emergency Number is 112.**

<u>Payments</u>: Any payments you might need to make at the Conference Office, such as additional registrations, bookings, etc., can only be made in cash. There are plenty of ATM machines in the city centre, where you may withdraw money.

<u>Power outlets and Internet access</u>: Power outlets are available at designated points in the conference halls for charging electronic devices (NOTE: voltage 220-240 V, socket type Europlug and Schuko); Internet guest accounts will be set up for registered conference participants. To connect your devices to the available WiFi networks at "Centro Cultural e de Congressos de Angra do Heroísmo" please use the following credentials: Wireless SSID: Island Biology; Password: islandbiology

<u>Transportation</u>: All of you will arrive at Lajes Airport (Terceira Island). The best way to get to the city centre of Angra do Heroísmo is by taxi; it is a 20 minutes ride and should cost around 20-25 Euros.

<u>Arriving at the Conference Hall everyday</u>: Most of the conference will be held at the *Centro Cultural e de Congressos de Angra do Heroísmo (*Conference Hall), from 8:30 to 19:30, but there are exceptions – see below.

All the Hotels are within walking distance to the Conference Hall (*Centro Cultural e de Congressos de Angra do Heroísmo*). The maximum walking distance is 25 minutes for those staying in Hotel Caracol. In average, the distances are 10 to 15 minutes for the remaining Hotels. However, you may choose to use the safe and efficient public transportation system of Angra do Heroísmo, the white Mini-Buses. There are

several stops all around the city, including some of the major hotels and the University *Campus*; a one-way fare is 0.30 Euros. Taxis are also an option, a one-way fare from any hotel in Angra should be about 5 Euros.

On <u>Wednesday</u>, July 20, most of the talks will be held at the University of the Azores – *Campus* of Angra. So, if you are staying in the city centre, you will need about 20-30 minutes to reach it by foot, whereas people staying in Terceira Mar Hotel and Caracol Hotel will only need about 5 and 10 minutes, respectively. On <u>Thursday</u>, July 21, the Ev2 Symposium (Sy 21, Dynamics of speciation and diversification in island birds) will be hosted at *Academia da Juventude*, in Praia da Vitória. After the morning plenary talk, lecturers and participants who have signed up for this Symposium, will be driven to the city of Praia da Vitória, courtesy of the Praia da Vitória City Hall. After the presentations, there will be a short field visit to the Wetlands around Praia da Vitória, which are important bird refuges and are being restored within a LIFE project context.

<u>Field Trip</u>: On <u>Wednesday</u>, July 20, the organization offers to those who have booked this activity, three possible slots for visiting some natural sites around the island. You will be taken on a guided tour to the island's Natural Park, including a visit to the Show Cave ALGAR DO CARVÃO and a short hike into the Native Forest. Based on your preference, 104 participants will do a morning visit (8h30 to 12h00), and two additional groups will do an after lunch visit (13h45-16h45) and an evening visit (17h00-20h00). During these field trips you can participate in a photo context, the "RAVE - MISTÉRIOS NEGROS" (see more at https://www.docdroid.net/xYedst1/application-form.docx.html

<u>Car Parking</u>: There is free parking near the Conference Hall, and parking is also free in the University Campus (important on Wednesday). However, parking within the city limits is paid.

<u>Food</u>: Lunches and Refreshment Breaks are provided to all registered participants. Special meals are available for those who have answered the Doodle on food restrictions (vegetarians, vegan and those with food intolerances/allergies). During the evenings, you may take the opportunity to have a nice dinner in one of the many charming restaurants in the Angra do Heroísmo or in the villages around.

<u>Social events</u>: On Monday - July 18, we will have a Welcome reception at the *Museu de Angra do Heroísmo* (the city Museum) at 19h30. Everybody is welcome. For those who have registered, the conference dinner will be held at Hotel Caracol, on Thursday - July 21. The Cultural Services of Angra do Heroísmo organized special cultural events during this week. Every night there will be different music bands playing near the City Hall and on Friday the 22th the city will have a *Noite Branca* (white night) Festival, that should be fun.

<u>Island Biology Society Meeting</u>: On Tuesday evening and on Friday, during the "Discussion and conclusions section" we will discuss the possibility of the creation of a network of Island Biologists (Session Chairs: Christoph Kueffer, Donald Drake, José María Fernández-Palacios and Paulo A.V. Borges).

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<u>Companions</u>: All the people that have registered as "companion" are entitled to a special visit to the historical city of Angra do Heroísmo. The three hour visit will start at 9:30 on Praça Velha, just in front of the City Hall. It is advisable to bring comfortable shoes and water.

<u>Tourist information</u>: Basic tourist information will be provided with the registration materials. Near the Conference Hall there is a Tourist Kiosk and additional information can be obtained at http://www.visitazores.com/en

Presentation times and formats

<u>Oral Presentations</u>: There will be eight plenary talks, given by well-known researchers that will set the tone for the entire Conference. In addition, there will be 24 Specialized Symposia and three workshops (IUCN, iDigBio and Biological Invasions).

The Symposia organizers have allocated slots of 30 minutes (30') or 25 minutes (25') to main talks, 20 minutes (20') to regular talks and 5 minutes (5') to flash talks. If you are presenting at an Ordinary session, you will have 15 minutes (15') for to standard talks or 5 minutes (5') to flash talks. Because the discussion period is important, speakers are strongly encouraged to keep leave the last three minutes of their allotted time for questions.

In order to ensure that participants have enough time to move between concurrent sessions, the program schedule will be strictly observed. However, sessions are organized in different formats, so it is probably easier to select groups of talks in each time slot.

Presenters should prepare their talks in PowerPoint 2010 or PDF compatible formats and make them available on a pen drive. *Speakers will not be allowed to attach their own laptops to the projection system.*

Talks may be uploaded on Monday during business hours in the Conference office and in the day before the scheduled presentation for the other days. Monday talks may also be uploaded in the room in which they are scheduled to be presented, during the breaks before and after other sessions in that room.

<u>Poster presentations</u>: Posters will be displayed on boards placed in different locations in the Conference Hall. *The posters should not exceed 120 cm (height) by 90 cm (width), corresponding to A0 size*.

The poster sessions will take place during lunch time, from 13:00 to 14:00 hours, on July 18, 19, 21 and 22. Posters will be up only for one day. Please see the schedule in the end of this program for the specific times when individual posters will be attended by the presenters. Posters numbered from 1 to 12 will be placed inside the Auditorium while posters numbered 13 to 24 will be placed in Central Atrium. Posters should be

made available as soon as possible after your arrival at the Conference, since they will be setup by the meeting staff. At the end of the day, you should remove your own poster.

Publication of abstracts and papers

The abstracts of more than 300 oral and almost 100 Poster presentations are compiled in Supplement 9 of the Scientific Journal published by the University of the Azores, "Arquipelago – Life and Marine Sciences" (http://www.arquipelago.info). The reference is:

 Gabriel, R., R.B. Elias, I.R. Amorim & P.A.V. Borges (Eds) 2016. Conference program and abstracts of the 2nd International Conference on Island Evolution, Ecology and Conservation: Island Biology 2016, 18-22 July 2016, Angra do Heroísmo, Azores, Portugal. *Arquipelago*. Life and Marine Sciences. Supplement 9.

This abstract book will be made available online at the beginning of the Conference, at three websites: *Arquipelago* (www.arquipelago.info), the Azorean Biodiversity Group/cE3c website (<u>http://gba.uac.pt</u>) and the ISLANDLAB Infrastructure (<u>http://islandlab.uac.pt</u>).

An agreement was made with the Editors of three Journals for the publication of Special Issues related with the Specialized Symposia that will take place during the conference:

- **DIVERSITY** (<u>http://www.mdpi.com/journal/diversity/special_issues/island_biology_2016</u>), a journal mostly interested in the topic of "Island Biogeography"; Invited Editors: Paulo A.V. Borges, Rosalina Gabriel, Rui B. Elias and Isabel R. Amorim.

- **ISLANDS STUDIES JOURNAL** (<u>http://www.islandstudies.ca/journal</u>), a wide-scope journal, including social sciences; it is a SCI-indexed open access journal, with impact factor. Editor(s) to be decided.

- ARQUIPELAGO. LIFE AND MARINE SCIENCES (www.arquipelago.info), this open access journal, published since 1980, is dedicated to all biological aspects of islands, and it is a reference for Azorean studies. It is indexed in: Aquatic Sciences and Fisheries Abstracts (ASFA), Biological Abstracts, BIOSIS Previews, Zoological Record, ISI Web of Knowledge and Directory of Open Access Journals (DOAJ). Editor(s) to be decided.

Please do not forget to check the conference webpage (<u>http://www.islandbiology2016.uac.pt/</u>) for updates. Thank you!

Have a nice conference!

1	18 July 20	016			19 July 20	016			20 July 20)16		
	Auditorium	Small auditorium	Large Room	Small Room	Auditorium	Small auditorium	Large Room	Small Room	Auditorium	Small auditorium	UAz - main hall	UAz - room 2.4
	Regis	stration and mix	ker (<i>Central Atr</i>	ium)								
С	Opening				Plen III - Paulo	AV Borges			Sy 10a	Sy 11	Sy 12	Sy 13
Ρ	Plen I - Daniel S	Simberloff			WS - IUCN	Sy 5a Cv4_Vert	Sy 6 Bg4_Parasit	Sy 7 Cv2_Relat	Bg5_Paleo	Ec5_Pattern	Bd2_IslFor	Bd4_Subt
	Sy 1 Ec2_FD	Sy 2a Cv1_IsPlants	Ord 1 - Biological Invasions	Ord 2 - Biodiversity & Macroecol	WS - IUCN	Sy 5a Cv4_Vert	Sy 6 Bg4_Parasit	Sy 7 Cv2_Relat	Sy 10a Bg5_Paleo	Sy 11 Ec5_Pattern	Sy 12 Bd2_IslFor	Sy 13 Bd4_Subt
	Lunc	ch and posters,	P1 (Central Atr	ium)	Lune	ch and posters,	P2 (Central Atri	um)	I	unch (<i>Universit</i>	y of the Azores)
Ρ	Plen II - Susan	Clayton			Plen IV - Rober	t J Whittaker					Sv 16	Sy 2c
	Sy 3 Ev1_Mac	Sy 2b Cv1_IsPlants	Ord 3 - Ecology	Sy 4 Cv3_Invert	WS- iDigBio	Sy 5b Cv4_Vert	Sy 8 Cv5_Mdg	Sy 9 Ec1_Fresh	Sy 10b Bg5_Paleo		Ec3_Net	Cv1_IsPlant
	Sy 3 Ev1_Mac	Sy 2b Cv1_IsPlants	Ord 3 - Ecology	Sy 4 Cv3_Invert	WS- iDigBio	Sy 5b Cv4_Vert	Sy 8 Cv5_Mdg	Sy 9 Ec1_Fresh			Sy 16 Ec3_Net	Cv1_IsPlant
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	Welcome re	eception (<i>Muse</i>	um of Angra do	Heroísmo)	weeting o	Everybody	v welcome!	laitorium)				

Overview

Ord, Ordinary session; Plen, Plenary talk; PV, Praia da Vitória; Sy, Specialized Symposium; Uaz, University of the Azores; WS, Workshop

Conservation

Biol. Invasios



Biogeography

Evolution

Ecology



Conservation

Ecology

Biol. Invasios

Evolution

Overview cont.

Biodiversity

Biogeography

Monday, July 18. 9h30

Daniel Simberloff

University of Tennessee, Knoxville, TN, USA.

The dynamic equilibrium theory of island biogeography: The origin, the legacy and the future

MacArthur and Wilson's equilibrium theory (ETIB) was an inevitable consequence of developments in mid-20th century ecology, as evidenced by independent, more narrowly focused conceptions. Publication of their 1967 monograph elicited a plethora of research on islands attempting to embed island data in an ETIB context, relegating criticisms to near-oblivion. Most early papers did not test key tenets of ETIB (immigration and extinction), rather depicting a species-area relationship consistent with the theory but also explicable on other grounds (notably habitat diversity). Nevertheless, the theory was extended quickly to other systems (e.g., habitat islands) and other directions (particularly trophic structure and refuge design). Initial excitement eventually yielded to sober reconsideration, with recognition that the ETIB probably applies only to a subset of small islands near source areas. However, the theory inspired metapopulation theory and focused attention on the importance of short-term, local population extinction. ETIB dealt only with species richness, and the monograph dealt cursorily with community composition, which became a major research focus and controversy a decade later. Similarly, the monograph treated priority effects briefly, and only recently has their influence on community richness and composition become a prominent research topic. MacArthur and Wilson touched on the influence of evolution on the predicted equilibrium at the end of the monograph. New and increasingly accessible tools of molecular genetics have brought the processes of speciation and gene flow to the forefront of island biogeography, only marginally in relation to the ETIB. Similarly, new technologies have made ecosystem function a key focus of ecology, including in island studies, but ties to ETIB are scant. Finally, invasion biology exploded on the scene in the 1980s, and the burgeoning literature continues to focus heavily on islands, but the biogeographic component has largely concerned determining invasion sources and routes rather than a relationship to the ETIB.

Monday, July 18. 14h00

Susan D. Clayton

The College of Wooster, Wooster, Ohio, USA.

The role of psychology in biodiversity conservation

Successful conservation of biodiversity depends on a number of factors, including the reactions and support of local communities as well as potentially a worldwide audience. This talk will review some of the psychological factors that might be influential. How do people think about biological conservation? What are some ways to encourage behavioural support? And how can we promote increased care and concern for biodiversity? I will present theory and research on experiences that might lead to greater environmental concern about the conservation of biodiversity. I focus in particular on the development of an environmental identity, defined as a stable sense of oneself as being connected to the natural world. I argue that conservation organizations need to consider the human factor as part of the system that supports or fails to support the protection of endangered species and habitats.

Tuesday, July 19. 8h30

Paulo A. V. Borges

cE3c, Centre for Ecology, Evolution and Environmental Changes/Azorean Biodiversity Group & University of Azores, Departamento de Ciências e Engenharia do Ambioente, PT-9700-042 Angra do Heroísmo, Azores, Portugal.

Long-term ecological research in Azores: what we have learned so far

Here I review ongoing long-term inventorying and/or monitoring initiatives in Azores ecosystems, focusing on arthropods. In Azores, BALA project (1999-2020) is an exemplary case in which occurrence and abundance data were gathered using standardized sampling techniques in the soil and canopy of 100 plots in seven Azorean Islands. With this large scale survey it was possible to overcome several biodiversity shortfalls, with the description of new taxa in new habitats (Linnean shortfall), the study of the distribution of species at different spatial scales and beta diversity (Wallacean shortfall), the study of species' relative abundances (Prestonian shortfall), the relationship between abundance and distribution and the knowledge of life history and niche of many species (Hutchinsonian shortfall). In addition, indicators of mountainous forest biotic integrity and selection of priority areas for arthropod conservation in the Azorean archipelago contributed for new strategies for conservation of Azorean native forests and inspired new visions for invertebrate conservation strategies worldwide. The same data has been used as proof-ofconcept for testing non-parametric biodiversity estimators, to evaluate beta diversity partition indices and to propose estimators of phylogenetic and functional diversity. More recently, within NETBIOME-ISLANDBIODIV project (2012-2020) a total of 24 SLAM traps were distributed in several native forest plots in seven Azorean Islands, aiming to investigate the seasonal and between year variations of the biomass and diversity of flying insects. With the current framework it will be possible to address the following objectives: 1) collect long-term ecological data to evaluate species distributions and abundance at multiple spatial and temporal scales; 2) identify pathways impacting oceanic indigenous assemblages under global change for conservation purposes. I will show that long-term observations are a necessity for two reasons: (i) to provide quantitative evidence of changes within island ecosystems, (ii) to allow scientists to disentangle general mechanisms from unique outcomes by using island systems as repeated 'natural experiments'.

Tuesday, July 19. 14h00

Robert J. Whittaker

School of Geography and the Environment, University of Oxford, South Parks Road, OX1 3QY, Oxford, UK and Center for Macroecology, Evolution and Climate, National Museum of Natural History, University of Copenhagen, Universitetsparken 15, 2100 Copenhagen, Denmark.

Oceanic island biogeography through the lens of the General Dynamic

Model macroscope

The general dynamic model of oceanic island biogeography (GDM) provides a theoretical framework incorporating the dynamics of island platforms alongside the key biological drivers of immigration, extinction and speciation. It provides an essentially non-equilibrium framework generating novel predictions for emergent diversity properties of oceanic islands and archipelagos. Based on efforts of the *biodynamics of islands* workshop group I review progress, both in testing the GDM's predictions and in developing and enhancing ecological—evolutionary understanding of oceanic island systems, through the lens of the GDM. In particular, I focus on four main themes: 1, macroecological tests using a space-for-time rationale; 2, extensions of theory to islands following different patterns of ontogeny; 3, the implications of GDM dynamics for lineage diversification and trait evolution; and 4, the potential for downscaling GDM dynamics to local-scale ecological patterns and processes within islands.

Thursday, July 21. 8h30

George Roderick

University of California, Berkeley, CA, USA.

Processes of ecology and evolution in the context of global change: modelling a complex island ecosystem

Accelerated global change, especially as a result of changes in climate and land use and the impact of invasive species, threaten not only the biodiversity of islands, but also the fundamental ecological and evolutionary processes that created and maintain this diversity. Addressing these issues and planning for a sustainable future requires requires a far better understanding of complex socio-ecological systems at local and national scales of management action. To that end, a key research goal is to build functioning whole ecosystem models, or, 'avatars', of model islands, cities, and eventually countries. The outcome: communities and countries managing their ecosystem wellness and avoiding the social consequences of ecological collapse. The Island Digital Ecosystem Avatars (IDEA) Project is inspired by efforts to digitize an entire island ecosystem from 'genes to satellites' and will harness and extend these efforts to build advanced computational models of a range of complex socio-ecological systems. Identifying clearly defined units of socio-ecological organization for study is essential: island systems are particularly attractive for sustainability science because they are clearly bounded (relatively closed) and ongoing studies at larger scales (e.g., global climate models) can help incorporate external influences simply and effectively. The Moorea Island Digital Ecosystem Avatar (http://mooreaidea.org/) is a multi-national collaborative effort that will incorporate observations, experiments, data, and theory across a coupled 3-D terrestrial-marine "ridge to reef" landscape to model how physical, chemical, biological, and social processes, interact to shape the island's phenotype. Moorea—a volcanic oceanic island about the size of San Francisco, 15 km northwest of Tahiti—has a well characterized biota and a significant scientific capacity through its two international research stations. The Moorea IDEA will support process-oriented research along with open data-sharing platforms to provide a wealth of science driven data. Combined with new analytical techniques and theory, this will develop a virtuous cycle whereby data driven discovery informs the design of mechanistic research, including experiments and further long-term observations. In this way, the project will be able to assess how alternate policy scenarios might influence biodiversity and ecosystem services, as well as the processes that sustain them.

Thursday, July 21. 14h00

Pedro Cardoso

Finnish Museum of Natural History, University of Helsinki, P.O.Box 17 (Pohjoinen Rautatiekatu 13), 00014 Helsinki, Finland and cE3c, Centre for Ecology, Evolution and Environmental Changes/Azorean Biodiversity Group & University of Azores, Azores, Portugal.

Applications of Artificial Intelligence to Island Ecology and Biogeography

Ecological systems are the quintessential complex systems, being composed of individuals and populations from different species, interacting and exchanging energy in multiple ways, and responding to (and influencing) the physical environment at different spatial and temporal scales in often difficult to describe non-linear relationships. As a consequence, ecology is dominated by idiosyncratic results and general principles and models are few. Two complementary approaches have been used in the study of ecology. The classical, top-down, approach primarily studies emerging patterns. Mechanistic, bottom-up, models directly study the processes, providing biological explanations of how the components work causally together. Yet, in both classical and mechanistic modelling, common statistical techniques can hardly reflect the complexity of ecological patterns and processes. Finding hidden relationships in complex data is now possible through the use of massive computational power, particularly by means of Artificial Intelligence (AI) methods, such as evolutionary computation. Among a plethora of methods, symbolic regression (SR) is proving to be particularly useful, as it searches for both the formal structure of equations and the fitting parameters simultaneously, hence providing the required flexibility to characterize complex ecological systems. I will demonstrate how SR can deal with complex datasets for modelling species richness and species spatial distributions on islands. I will also illustrate how SR can be used to find general models in ecology, by using it to develop new equations for the species-area relationship and the general dynamic model of oceanic island biogeography. All the examples suggest that evolving free-form equations purely from data, often without prior human inference or hypotheses, may represent a very powerful tool for ecologists and biogeographers to become aware of hidden relationships and suggest general theoretical models and principles. Finally, I will delve into the consequences of replacing or complementing humans with computers in all kinds of tasks, from daily chores to major advancements in science.

Friday, July 22. 8h30

Isabel Sanmartín¹ & Fredrik Ronquist²

¹ Real Jardín Botánico-CSIC, Madrid, Spain.

² Swedish Natural History Museum, Stockholm, Sweden.

Bayesian statistical approaches to island biogeography: progress and

challenges

Oceanic Islands have long fascinated biogeographers because of their geographical isolation, small size, and replicated nature, with islands within an archipelago serving as distinct ecological and evolutionary units. Since MacArthur & Wilson's Equilibrium Theory of Island Biogeography, there have been many important theoretical and empirical advances in understanding community assembly on islands. In general, this work has taken a profoundly ecological approach, using data on species richness and abundance to estimate the rate of relevant processes, such as immigration, speciation, and extinction, though lately there has been an effort to incorporate evidences such as the geological evolution of islands. In contrast, the historical signal of phylogenies and how these can contribute to our current understanding of the long-term dynamics of biotas has been largely ignored, despite the wealth of phylogenetic data made available by the popularization of genetic tools. Here, I explore the development of "island-centric" approaches that use phylogenetic data from multiple clades to extract generalities about the process of island community assembly. In particular, I focus on biogeographic stochastic models (BIB) that use Bayesian MCMC simulations to estimate dispersal rates and area carrying capacities (equilibrium frequencies) from DNA sequences and their geographic locations. Advantages of these models include: a spatially explicit approach that integrates the connectivity of islands within archipelagos; their relative mathematical simplicity which gives them flexibility to fit more complex scenarios; and the use of Bayesian hierarchical inference to integrate over clade-specific biological traits (e.g., dispersal ability) in the estimation of global biogeographic parameters, thus correcting the "ecological neutrality" of other approaches. Finally, I describe recent advances, including the development of time-heterogeneous models to incorporate the temporal dynamics of the dispersal process, partitioning the contribution of abiotic factors to migration rates and carrying capacities, or the modelling of mass extinction events through nonstationary models.

Friday, July 22. 14h30

Jens M. Olesen

Department of Bioscience, Aarhus University, Aarhus, Denmark.

Ecological networks on islands

"Insular food webs represent one endpoint of the marine web" (Polis & Hurd 1995). Inspired by this clever statement, I intend to bring the sea back to island biology and present ecological network models for different kinds of island. Island network structure and dynamics are shaped by different drivers, especially by colonization processes, sea-land interface dynamics and marine subsidies, global connectors, latitude and catastrophes.

Colonization is influenced by dispersal barriers, such as island isolation, and may result in species poverty, i.e. low species density. In addition, among-taxon variation in dispersal ability causes species disharmony. In addition, I explore how reduced island resources and high island isolation may restrict island establishment of large birds of prey and how this cascades down through an island network, causing competitive exclusion and density compensation in communities of potential prey.

Sea-land interface dynamics is determined by sea-land connectors (many seabirds and a few marine mammals), marine productivity and amount of shoreline detritus (subsidies).

Global connectors are migrant birds and their parasite and pathogen load, which arrive to islands seasonally, and may have a strong impact upon the synchrony of island and marine network dynamics.

Latitudinal effects are plenty, e.g. presence or absence of glaciations and seasonal ice cover of the sea surrounding islands. High-latitude islands, for example, have largely been ignored in general island biology.

Finally, catastrophes such as volcanic activity, hurricanes and fire influence island network structure and dynamics. These drivers are especially influenced by island area, isolation and geographic location, and primary and secondary marine productivity.

I build the ecological network models on available literature, unpublished/published data from several islands/archipelagos, and my colleagues' and my own fieldwork.

GENERAL PROGRAM – ORAL PRESENTATIONS

Monday, July 18

time			room
08:00- 08:55	Registration and mixer	Central Atrium	
09:00- 09:30	Opening, Welcome and Announcen	nents	Auditorium
09:30- 10:25	Plen I - The dynamic equilibrium th e and the future Daniel Simberloff	eory of island biogeography: The or	igin, the legacy Auditorium
10:30- 11:00	Refreshment Break		Central Atrium
11:00- 13:00	Sy 1. Ec2 - Functional diversity on islands Chairs: François Rigal & Pedro Cardo	: Challenges and opportunities for the second se	future research Auditorium
	 Functional diversity on islands: Challenges and opportunities for future research (15') <u>François Rigal</u>, Carvalho, JC & Cardoso, P 	2. Global patterns of functional diversity and assemblage structure of island parasitoid faunas (20') <u>Ana MC Santos</u> , Cianciaruso, MV & Marco Jr, P	3. Functional island biogeography: evaluating functional diversity patterns in fragmented landscapes (20') <u>Thomas J Matthews</u> & Whittaker, RJ
	4. Functional diversity and composition of bryophyte communities along an elevational gradient in Terceira Island, Azores (20') <u>Débora SG Henriques</u> , Rigal, F, Borges, PAV & Gabriel, R	5. Patterns and drivers of functional diversity of epiphytic liverworts communities along an elevational transect in La Réunion (Mascarenes) (20') <u>Claudine Ah-Peng</u> , Meek, S, Hedderson, TAJ, Wilding, N, Strasberg, D & Flores, O	6. Geological age and host polymorphism affect functional diversity and community composition in plant-insect interactions across a space-for-time chronosequence on the Hawaiian Islands (20') <u>Elske K Tielens</u> & Gruner, DS
11:00- 13:00	Sy 2a. Cv1 - Biodiversity and conservation Chairs: Mónica Moura, Luís Silva & J	of island plants uli Caujapé-Castells	Small auditorium (1-5 / 20)
	1. Oceanic island plant conservation in a changing world: Lagging or leading? (30') <u>Juli Caujapé-Castells</u>	2. Faial Botanic Garden – Nature conservation into practice (20') <u>Pedro Casimiro</u> , Melo, J & Freitas, C	3. Isolation patterns affect the conservation of the critically endangered Lactuca watsoniana (20') <u>Elisabete F Dias</u> , Moura, M, Schaefer, H & Silva L
	4. Patterns of plant diversity in Cape Verde Islands: from genes to ecosystems (20') <u>Maria M Romeiras</u>	5. Seed Bank of Azores: Preserving the Azorean flora (20') <u>Cátia Freitas</u> , Casimiro, P & Melo, J	

time			room
11:00- 11:45	Ord 1 - Biological invasions <i>Moderators</i> : Christoph Kueffer & Iola	anda Silva Rocha	Large Room
	 Global patterns in extinction and threats to vertebrates by biological invasions in islands (15') <u>Céline Bellard</u>, Blackburn, T, Genovesi, P, Cassey, P & Jeschke, JM 	2. Invasive rat population dynamics and management by trapping in island tropical forests (15') <u>Quiterie Duron</u> , Ruffino, L, Cornulier, T & Vidal, E	3. What is the role of vacant niches for alien species establishment on isolated islands? (15') <u>Bernd Lenzner</u> , Essl, F, GloNAF core team, Capinha, C, Guénard, B, Economo, E, Seebens, H & Moser, D
	 4. Introduced marine species in the Island Nation of Indonesia (15') <u>P Joana Dias</u>, Huhn, M, McDonald JI & Maduppa, H 	5. Alien reptiles on Mediterranean Islands: A biogeographic framework to aid conservation management (15') <u>Iolanda Silva-Rocha</u> , Salvi, D, Carretero MA & Ficetola, GF	6. The red-vented bulbul: Extreme pest or extreme prejudice? (15') <u>Martin Thibault</u> , Vidal, E, Potter, M & Brescia, F
	7. Natural history of a snake invasion in a Mediterranean island: The case of <i>Hemorrhois hippocrepis</i> (Reptilia, Colubridae) in the Island of Ibiza (15') <u>Elba M Montes</u> , Hinckley, A, Ayllón, E & Pleguezuelos, JM	8. Biogeographic reconstruction and dispersal dynamics of the carabid beetle <i>Merizodus soledadinus</i> invading subantarctic Kerguelen Islands (15') <u>Tiphaine Ouisse</u> , Renault, D & Hendrickx, F	
11:00- 13:00	Ord 2 - Biodiversity & macroecology <i>Moderators</i> : Holger Kreft & Luís Borc	Small room	
	 Dissecting global turnover in vascular plants (15') <u>Christian König</u>, Weigelt, P & Kreft, H 	2. Mosses and liverworts growing on bark in different archipelagos: A study of alpha and beta diversity patterns (15') <u>Rosalina Gabriel</u> , Borges, PAV, Cardoso, P, Flores, O, González- Mancebo, J, Hedderson, T, Aranda, SC, Coelho, MCM, Henriques, DSG, Hernandez-Hernandez, R, Marline, L, Wilding, N & Ah-Peng, C	3. Dispersal ability determines the scaling properties of species abundance distributions (15') <u>Luís Borda-de-Água</u> , Pereira, HM & Borges, PAV
	4. Are reduced dispersal abilities in island floras fact or fiction? Global cross-species relationships between plant traits and dispersal distance offer new insights (15') <u>Fiona J Thomson</u> , FJ, Auld, TD, Kingsford, RT & Moles, AT	5. The niche variation hypothesis and its relationship to lizard population density (15') <u>Maria Novosolov</u> , Rodda, GH, Gainsbury, A & Meiri, S	
13:00- 14:00	Lunch & Poster Session (P1)		Central Atrium and Auditorium

time			room		
15:00- 18:45	Sy 3. Ev1 Diversification, colonisation a macroevolutionary perspective Chairs: Luís Valente & Josselin Cornu	n d ecological limits on islands: A ault	Auditorium		
	 Equilibrium and non-equilibrium dynamics on islands: insights from birds and bats (20') <u>Luís Valente</u>, Illera, JC, Dávalos, L, Phillimore, A, Havenstein, K, Tiedemann, R & Etienne, R 	2. Diversity-dependent diversification on islands (30') <u>Rampal Etienne</u>	(30') Refreshment Break [16:00-16:30]		
	3. Isolated islands untangle universal patterns at the nexus of macroevolution and macroecology (30') <u>Andy J Rominger</u> , Lim, JY, Goodman, KR, Harte, J, Gruner, D & <u>Rosemary G Gillespie</u>	 4. An ecological and evolutionary framework for the analysis of insular biomes (20') <u>Brent Emerson</u>, López, H, Perez-Delgado, A, Oromí, P, Fernández-Palacios, JM, Caujapé- Castells, J, Cardoso, P, Strasberg, D, Thébaud, C, & Borges, PAV 	5. Testing landscape effects on the evolution of island arthropod assemblages (5') <u>Antonia S Castellano</u> , López, H, Perez-Delgado, A, Oromí, P & Emerson, BC		
	6. Comparing the accumulation of species across multiple lineages and islands (20') <u>Josselin Cornualt</u> & Thébaud, C	 7. Late Quaternary climate change shapes island biodiversity (20') <u>Patrick Weigelt</u>, Steinbauer, MJ, Cabral, JS & Kreft, H 	8. Disentangling the drivers of species richness in island floras (20') <u>Jonathan P Price</u> , Borregaard, MK, Whittaker, RH, Kreft, H, Weigelt, P, Valente, L & BIG Working Group		
	9. Geology and ecology interact to drive evolutionary radiations and declines on Hawaii (20') <u>Jun Ying Lim &</u> Marshall, C	 10. Island is the limit: Observing species turnover in bat species record from Siberut Island, Indonesia (5') Sabhrina G Aninta, Noerfahmy, S, Wiantoro, S & Iskandar, DT 			
15:00- 17:10	Sy 2b.Cv1 - Biodiversity and conservation of island plantsauditChairs: Mónica Moura, Luís Silva & Juli Caujapé-Castells(6-14)				
	6. Threat analysis and conservation plans for selected Azorean endemic plants on Corvo Island (20') <u>Julie A Weissmann</u> & Schaefer, H	7. Phylogenetic and biogeographic patterns in the endemic flora of the Juan Fernández Islands, Chile (20') <u>Tod F Stuessy</u> , Crawford, DJ & Ruiz, E	8. Reproductive biology in the Canarian flora: Guidelines for the recovery and conservation of natural populations of threatened endemics (20') Julia Pérez de Paz, Febles, R, Acosta, OF-P & Corral, MO		
	(30') Refreshment Break [16:00-16:30]	9. Conservation genetics of the highly endangered Azorean endemics <i>Euphrasia azorica</i> and <i>Euphrasia grandiflora</i> using new SSR data (20') <u>Mónica Moura</u> , Dias, EF, Silva, L & Maciel, MGB	10. Towards a more holistic research approach to plant conservation: the case of rare plants on oceanic islands (20') <u>Luís Silva</u> , Dias, EF, Sardos, J, Azevedo, EB, Schaefer, H & Moura, M		

time

room

time			room
17:10- 18:30	 11. Case study of the Critically Endangered island endemic Roussea simplex: Crucial need to quantify and hierarchise threats (20') <u>Claudia Baider</u>, Graepel, V, Trotzer, S, Couttee, V, Karghoo, MAA, Bissessur, P & Florens, FBV 	12. Population genetic structure in the tetraploid Viola cheiranthifolia (Teide violet), a high mountain endemic from the Canary Islands (20') <u>Priscila Rodríguez-Rodríguez</u> , Saro, I, Naranjo, A & Sosa, PA	 13. Specific threats connected with climate change impacts on oceanic islands (20') Carl Beierkuhnlein, Harter, DEG, Provenzale, A, Irl, SDH, Kienle, D, Schweiger, AH, Gillespie, R, Fernández-Palacios, JM, Triantis, KA, Steinbauer, MJ & Jentsch, A
	14. Analyses of Multiplexed-Shotgun-G biodiversity in Macaronesian <i>Tolpis</i> (20') <u>Mark E Mort</u> , Archibald, JK, Gibson, LB, Sequeira, MM, Moura, M, Santos-Gu Caujapé-Castells, J & Crawford, DJ	enotyping (MSG) data reveal cryptic , MJS, Bontrager, H, Hauber, DP, Silva, Jerra, A, Kelly, JK, Gruenstaeudl, M,	
15:00- 18:30	Ord 3 - Ecology <i>Moderators</i> : Donald Drake & Helena	Serrano	Large Room
	1. Patterns of flower visitation and nectar feeding in Hawaiian honeycreepers and lobeliads (15') <u>Donald R Drake</u> & Thompson, KAP	2. Pollination of <i>Cneorum tricoccon</i> L. by the opportunistic nectar- feeder lizard <i>Podarcis lilfordi</i> (Günther, 1874) in an insular ecosystem (15') <u>Francisco Fuster</u> & Traveset, A	3. Seasonal and interannual variation in forest flowering and fruiting in a two-decade record from Puerto Rico: Global climate drivers and hurricane effects (15') Jess K Zimmerman, Hogan, JA, Nytch, CJ & Bithorn, J
	4. Anticipating effects of climate change in the Hawaiian Islands: Defining plant community and climatic variation across the treeline ecotone (15') <u>Alison Ainsworth</u> & Drake, D	(30') Refreshment Break [16:00-16:30]	5. Peri-urban forest fragments as islands: The response of plants and lichens diversity to habitat fragmentation (15') Rosati, L, Potenza, G, Fascetti, S & <u>Michela Marignani</u>
	6. Cross-taxon and environmental surrogacy of bryophytes and lichens in a natural forest: Implications for conservation (15') Ruas, S, Bergamini, A, Carvalho, P, Fontinha, S, Lobo, C, Reis, F, Martins, A & <u>Manuela Sim-Sim</u>	7. Micro-endemism in New Caledonia: Estimating the distribution range of animal species by controlling for sampling effort (15') <u>Maram Caesar</u> , Grandcolas, P & Pellens, R	8. Linking soil biogeochemistry and plant-plant interactions during long- term succession (15') <u>Fernando D Alfaro</u> , Abades, S, Villca, H, Pugnaire, FI, Gaxiola, A & Marquet, PA
	 9. Geochemical Islands: Promised land or unintended refuge? (15') <u>Helena C Serrano</u>, Martins- Loução, MA & Branquinho, C 	 10. Where is iodine? Seeking iodine bioavailability in the Azores (15') <u>Patrícia V Garcia</u>, Linhares, DPS, Almada, A, Ferreira, T, Queiróz, G, Cruz, JVC & Rodrigues, AS 	 11. The microbiological toolbox: Assessing soil health in metal polluted agricultural volcanic soils (15') <u>Carolina Parelho</u>, Rodrigues, AS, Barreto, MC, Ferreira, NGC & Garcia, PV
15:00- 16:30	Sy 4. Cv3. Conservation of invertebrates i Chairs: Vicky Kindemba & Paulo AV E	n mid-Atlantic islands Borges	Small room (1-5 / 5)
	1. IUCN Red Lists - adaptations to invertebrates and new tools under development (30') <u>Pedro Cardoso</u>	2. How can we transform the criterion B of IUCN' Red List in a useful tool for setting conservation priorities with Invertebrates of island regions? (30') José Luis Martín-Esquivel	(30') Refreshment Break [16:00-16:30]

time			room
16:30- 18:00	3. What we know and what we don't know about the conservation status of island endemic invertebrates (20') <u>Axel Hochkirch</u>	4. Golden, Spiky and Blushing - establishing invertebrate conservation on the Atlantic island of St Helena (20') <u>Vicky Kindemba</u>	5. Planning for a long-term monitoring program for island forest mountain spiders and beetles: A simplified COBRA Protocol for monitoring beta diversity (20') <u>Paulo AV Borges,</u> Cardoso, P, Oromí, P, Thébaud, C, Strasberg, D & Emerson, BC
19:30- 20:30	Welcome reception (wine, cheese and	d music)	Museu de Angra do Heroísmo

Personal notes:

time			room		
08:30- 09:25	Plen III - Long-term ecological rese Paulo AV Borges	arch in Azores: What we have learn	ned so far Auditorium		
09:30- 13:00	WS – IUCN, Strategies for the cons Chair: Thomas Brooks	ervation of island biodiversity	Auditorium		
	1. Strategies for the Conservation of Island Biodiversity (5') <u>Paulo AV Borges</u>	2. IUCN and Island Conservation (20') <u>Thomas Brooks</u>	3. Species Conservation Profile (SCP): A streamlined workflow for collaborative authoring, peer- review and scholarly publication serving the IUCN Red Data List (20') Lyubomir Penev, Stoev, P, Georgiev, T, Senderov, V & Cardoso, P		
	 4a. Comments from IUCN SSC leaders (15') Colin Clubbe, Axel Hochkirch, Kristine Westergaard & Paulo AV Borges 	(30') Refreshment Break [10:30-11:00]	 4b. Comments from IUCN SSC leaders (10') Pedro Cardoso, Tigga Kingston, Vicky Kindemba 		
	5. Eight breakout discussion groups led by IUCN SSC leaders (45')	6. Eight x 3-minute reports back from breakouts (25')	7. General discussion and close (25') Chairs: Paulo AV Borges & Thomas Brooks (5') Close: Paulo A.V. Borges		
09:30- 13:00	Sy 5a.Small auditorieCv4. Biodiversity and conservation of island vertebratesSmall auditorieChairs: Christian E Vincenot & Sophie Petit(1-7 / 2)				
	1. Cracks in island keystones: Threat synergies and life history traits push island flying foxes (<i>Pteropus</i> spp.) to the brink (30') <u>Tigga Kingston</u>	2. Prioritization frameworks for island vertebrate conservation (30') <u>Franck Courchamp</u> , Bellard, C, Bertelsmeier C, Bull, LS, Gregory, SD & Harris, DB	(30') Refreshment Break [10:30-11:00]		
	3. Overabundance of a parakeet on a Caribbean island threatens a keystone bat-cactus mutualism (20') <u>Sophie Petit</u> , Rojer, A & Pors, L	4. Conservation challenges in the Ryukyu Archipelago: Public perception of an endemic fruit bat and ongoing conflicts (20') <u>Christian E Vincenot</u>	5. Mass culling of a globally threatened island flying fox: What lessons can we draw? (20') <u>François BV Florens</u>		
	6. Island restoration through invasive mammal eradication (20') <u>James Russel</u> , Holmes, N & Jones, H	7. Novel insights on cost-effective ways to protect island vertebrates from the impacts of invasive non- native carnivores (20') <u>Lise Ruffino</u> , Cornulier, T, Oliver, MK, Fraser, EJ & Lambin, X			

time			room			
09:30- 11:00	Sy 6. Bg4. Islands within islands: Parasi Chairs: Ricardo J Lopes & Robert E	tes on insular host populations Ricklefs	Large room			
	1. Galapagos birds and their parasites: Arrival and host relationships (30') <u>Patricia Parker</u>	2. Why blackbirds are the main avian host of <i>Haemosporidia</i> in Azores and how they cope with infections (20') <u>Ricardo J Lopes</u> , Ramos, JA & Rodrigues, P	(30') Refreshment Break [10:30-11:00]			
	3. Patterns of diversification of parasites infecting reptiles in the Canary Islands: Different parasites, same answers? (20') <u>Ana Perera</u> , Tomé, B, Sousa, A, Pereira, A, Carretero, MA, Harris, DJ, Roca, V & Jorge, F	4. Do island species experience lower parasite pressure than mainland ones? Diversity, prevalence and host specificity of avian <i>Haemosporidia</i> in the Gulf of Guinea (West Africa) (20') <u>Claire Loiseau</u> , Covas, R, Lobato, E, Beadell, JS, Fleischer, RC, Reis, S, Doutrelant, C & Melo, M	5. Loss, gain and exchange: Avian malaria in naturally colonising hosts and related insular endemics (20') <u>Farah Ishtiaq</u> , Sheldon, BC, Owens, IPF, Clark, NJ & Clegg, SM			
	6. Forest fragmentation and parasite diversity in an insular system (20') <u>Antón Pérez-Rodríguez</u> , Khimoun, A, Ollivier, A, Eraud, C, Faivre, B & Garnier, S	 7. Haemogregarines in Canarian reptiles: A distribution and diversity study (5') <u>Beatriz Tomé</u>, Pereira, A, Jorge, F, Carretero, M, Harris, DJ & Perera, A 				
09:30- 12:30	Sy 7.Cv2. Biodiversity and place: Exploring relationships from a psychological perspectiveSmall roomChairs: Ana Moura Arroz, Luísa Lima, Susan Clayton & Juan Ignacio AragonésSmall room					
	1. The impact of environmental condition and identity on emotional responses to environments (30') <u>Susan D Clayton</u>	2. Using place identity and social norms to promote biodiversity (30') <u>Luísa Lima</u> & Branco, C	(30') Refreshment Break [10:30-11:00]			
	3. Representations of nature, environmental identity and connectedness with nature (20') Juan Ignacio Aragonés	4. From local to global: Bonds between values and place identity (20') <u>Isabel Estrela Rego</u> , Amorim, IR, Gabriel, R & Arroz, AM	5. Is nature a central concept in Azoreans' place identity? (20') <u>Ana Moura Arroz</u> , Gabriel, R, Rego, IE & Amorim, IR			
	6. Place identity and biodiversity conservation in the Azores (20') <u>Isabel R Amorim</u> , Arroz, AM, Lima, ML, Borges, PAV & Gabriel, R					
13:00- 14:00	Lunch & Poster Session (P2)		Central Atrium and Auditorium			
14:00- 14:55	Plen IV- Oceanic island biogeograg Model macroscope Robert J Whittaker	ohy through the lens of the General	Dynamic Auditorium			

time			room
15:00- 19:00	WS – iDigBio, Digitized natural his island biodiversity, biogeography, Chair: Shelley A James	tory collections: Research uses for and communities	understanding Auditorium
	1. Integrated digitized biocollections (iDigBio): Mobilizing natural history collections for understanding island biodiversity (20') <u>Shelley A James</u> , Paul, D, Collins, M & Nelson G	2. Biological collections data: Best practices and trends for standards, digitization, and biodiversity informatics literacy for research use of collections data (20') <u>Deborah L Paul</u> & Seltmann, KC	3. Collecting experiences in Melanesia: Best practices for efficient digitization (20') <u>Shelley A James</u>
	(30') Refreshment Break [16:00-16:30]	4. Accessing digital collections data sources for research: A tour of iDigBio data services (20') <u>Matthew Collins</u> & Paul, DL	5. The Guam Ecosystem Collaboratorium's biorepository project (20') <u>Terry J Donaldson</u> , Lindstrom, DP, Peterson, JA & Biggs, JS
	6. Digitizing the Azorean bryophyte, vascular plant and arthropod' collections: The Azores Bioportal initiative (20') <u>Rosalina Gabriel</u> , Mendonça, E, Elias, RB, Amorim, IR, Pereira, F & Borges, PAV	7. HOLOS: Integrating biological and environmental data to assess ecological and evolutionary response to change (20') <u>Rosemary G Gillespie</u> , Hiller, A, Koo, M, Kelly, M, Koy, K, Marshall, CM, Rapacciuolo, G	 8. An insight about species turnover from bat species records on Siberut Islands, Indonesia (5') Sabhrina G. Aninta, Noerfahmy, S, Wiantoro, S & Iskandar, DT
	9. The role of niche differentiation and conservatism in the diversification of island plant clades (5') <u>Jun Ling Lim</u>	10. Documenting and digitizing specimens from a weird and scenic landscape: Utilizing and enhancing collections to understand patterns of biodiversity (5') <u>Katie L Peterson</u> & Parent, CE	11. Harnessing biocollections data with hierarchical models to understand homogenization of island biotas (5') <u>Andy J Rominger</u>
	12. The role of herbaria in research on Pacific Island floras (20') <u>Jonathan P Price</u>	13. Herbarium data mining to assess invasion risks and trace invasion histories of nuisance Algae in tropical Pacific Islands (20') <u>Tom Schils</u> , Boedeker, C, Simeon, A & Leliaert, F	
15:00- 16:00	Sy 5b.Cv4. Biodiversity and conservation of island vertebratesaudiChairs: Christian E Vincenot & Sophie Petit(8-1)		
	8. Management of rare and endemic species within a dynamic natural disturbance regime and among anthropogenic threats in the Commonwealth of the Mariana Islands (20') Jim Keany & Zarones, L	9. Interactive effects of marine subsidies, herbivory and predation on the ecology of Mediterranean island reptile populations (20' <u>) Johannes Foufopoulos</u> , Gizicki, Z & Pafilis, P	10. A conservation strategy for the amphibians of Madagascar: an overview of the main threats and of the planned conservation activities (20') <u>Angelica Crottini</u> , Dawson, J, Lewis, JP, Rabemananjara, F, Rabibisoa, N, Rakotonanahary, T &

Andreone, F

time			room			
16:00- 18:15	(30') Refreshment Break [16:00-16:30]	11. The masked owls of Lord Howe Island - consequences of the introduction of a top-order predator to an oceanic island (20') <u>David Milledge</u>	12. Please don't eat the birds! - Wildlife hunting in São Tomé Island (20') <u>Mariana Carvalho</u> , Palmeirim, JM, Lima, RF, Rego, FC & Fa, JE			
	13. Conservation of Macaronesian sparrowhawk and Laurissilva habitat in Madeira Island (20') <u>Cátia Gouveia</u> , Castello, L, Fagundes, AI, Costa, LT, Hervias, S, Nunes, M, Gonzalez, C, Lorenzo, JA, Menezes, D, Coelho, N, Medeiros, C, Freitas, P, Martins, A & Serralha, N	 14. Praia Islet: Two decades of ongoing seabird conservation (20') <u>Verónica Neves</u>, Aguiar, L, Bolton, M, Magalhães, MC, Nava, CP, Palou, LF, Picanço, C, Raposo, P & Bried, J 	15. Using ancient DNA to inform conservation of Caribbean land mammal fauna (20') <u>Roseina Woods</u> , Barnes, I, Brown, MJF & Turvey, ST			
15:00- 19:00	Sy 8.Cv5. From extinction to restoration: Madagascar, the Mascarenes and the SeychellesLarge roomChairs: Erik de Boer & David BurneyLarge room					
	1. Extinction and restoration from Madagascar to Rodrigues: Conservation paleobiology on the eighth continent and the last place on Earth (30') <u>David A Burney</u>	2. Restoring and conserving the remains of the ecosystem of the Dodo: Lessons from a 4200 year old multitaxic bone bed (20') <u>Kenneth F Rijsdijk</u> , De Louw, PGB, Meijer, HJM, Claessens, LPAM, Florens, FBV, Baider, C, Porch, N, Tataya, V, Janoo, A & De Boer, EJ	(30') Refreshment Break [16:00-16:30]			
	3. Historical land use change and soil loss on Mauritius (Indian Ocean) (20') <u>Sietze J Norder</u> , Seijmonsbergen, AC, Rughooputh, SDDV, Van Loon, EE, Tatayah, V, Kamminga, AT & Rijsdijk, KF	 4. Revisiting patterns of habitat transformation and extinction in La Réunion (Mascarene Islands) (20') <u>Dominique Strasberg</u>, Flores, O & Ah-Peng, C 	5. Introduced mammals on western Indian Ocean islands (20') <u>James Russell</u> , Cole, N, Zuël, N & Rocamora, G			
	6. Incorporating evolutionary and ecological traits of the iconic coco de mer palm in forest restoration (20') <u>Christopher N Kaiser-Bunbury</u> , Edwards, PJ, Fleischer-Dogley, F, Latorre Piñero, L & Bunbury, N	7. Achievements and challenges in conserving and restoring native terrestrial ecosystems on Mauritius (30') <u>François BV Florens</u> & Baider, C	8. Future directions for island rewilding in the Western Indian Ocean (20') <u>Dennis M Hansen</u>			

time

time			room
15:00-	Sy 9. Ec1. F reshwater systems in ocean Chairs: Pedro Raposeiro, Vítor Gon	ic islands içalves & Ana C Costa	Small room
	1. Are the food-web dynamics in species poor Island lakes different from those in the more species rich mainland lakes? (30') Vidal, N, Amsinck, SL, Gonçalves, V, Azevedo, JMN, Johansson, LS, Christoffersen, KS, Lauridsen, TS, Søndergaard, M, Bjerring, R, Landkildehus, F, Brodersen, KP, Meerhoff, M & <u>Erik</u> Jeppesen	 2. Islands within islands: The Azorean lakes (20') <u>Ana Cristina Costa</u>, Gonçalves V & Raposeiro PM 	(30') Refreshment Break [16:00-16:30]
	3. Cyanotoxins in Azorean lakes: Introducing molecular methods for the awareness of production potential (20') <u>Rita IP Cordeiro</u> , Luz, R, Silva, V, Pacheco, DM, Gonçalves, V & Fonseca, A	4. Effects of prolonged drought on rainforest streams in the Luquillo Mountains, Puerto Rico (20') <u>Alan P Covich</u> , Crowl, TA & Perez-Reyes, O	5. Environmental drivers of change in macroinvertebrate assemblages on isolated oceanic island streams: Madeira Island as case study (20') Julie-Camille Riva, Gonçalves, V, Costa, AC, Hughes, SJ & Raposeiro, PM
	6. Stream biota in remote oceanic islands: The role of local, regional and geographical factors in structuring diatom and macroinvertebrate communities (20') <u>Vítor Gonçalves</u> , Raposeiro, PM, Marques, HS & Costa, AC	7. Leaf litter decomposition in Atlantic Islands is driven by microbes and depends on litter quality and environmental conditions (20') <u>Verónica Ferreira</u> , Raposeiro, PM, Pereira, A, Cruz AM, Costa, AC, Graça, MAS & Gonçalves, V	8. Allometric relationships, feeding preferences, growth and survival of the endemic stream shredder Limnephilus atlanticus (Trichoptera, Limnephilidae) (20') <u>Ana Balibrea</u> , Gonçalves, V, Ferreira, V & Raposeiro, PM
	9. Network analysis of tropical draina among migrating species (20') <u>Alan P Covich</u> , Crowl, TA & Perez		
19:00- 20:00	Meeting of the "Island Biology So	ciety" - everybody welcome!	Auditorium

time			room
08:30- 11:30	Field trip I Star		Starting from UAz
08:30-13:00	Sy 10a. Bg5. Palaeobiogeography, palaeocology and palaeoclimatology in oceanic islands Chairs: Sérgio Ávila, Pedro Raposeiro & Vitor Gonçalves		
	1. Pleistocene glacial/interglacial contrasts in North-West North Atlantic prior vs after MIS 11 (30') <u>Claude Hillaire-Marcel</u> , Vernal, A, Téboule, O & Aubry, A	2. Transatlantic dispersal of the coral-dwelling barnacles belonging to <i>Ceratoconcha</i> and their Neogene spread to the North Atlantic islands (20') Baarli, BG, <u>Markes E Johnson</u> , Malay, MCD, Santos, A, Meco, J, Silva, CM, Mayoral, EJ & Cachão, M	3. Biodiversity and biogeographical patterns of the Pleistocene and Holocene littoral gastropod fauna from the Azores (20') <u>Ricardo Cordeiro</u> , Melo, C, Madeira, P & Ávila, SP
	 4. Biodiversity and biogeography of the recent echinoderms from the Azores (20') <u>Patrícia Madeira</u>, Cordeiro, R, Rebelo, AC, Melo, C, Kroh, A & Ávila SP 	5. The human colonization of islands: A paleo perspective (30') <u>Santiago Giralt</u>	(30') Refreshment Break [10:30-11:00]
	6. Marine island biogeography: testing large-scale biogeographic patterns of marine organisms in oceanic islands (Atlantic Ocean) (20') <u>Sérgio P Ávila</u> , Cordeiro, R, Madeira, P, Silva, L, Medeiros, A, Rebelo, AC, Melo, C, Neto, AI, Haroun, R, Monteiro, A, Rijsdijk, K & Johnson, M	7. The role of sea-level changes in oceanic island biodiversity: the Mis 5e in the Azores (20') <u>Carlos Melo</u> , Rebelo, AC, Cordeiro, R, Madeira, P, Raposo, V & Ávila, SP	8. Rhodolith beds on volcanic oceanic islands: Paleobiology and biogeography (20') <u>Ana Cristina Rebelo</u> , Rasser, MW, Melo, C, Madeira, P, Cordeiro, R, Neto, AI & Ávila, SP
	 9. Pleistocene area as predictor of species richness on volcanic islands (20') <u>Sietze J Norder</u>, Rijsdijk, KF, Van Loon, EE, Kissling, WD, Otto, R, Ávila, SP, Hengl, T, Stocchi, P & Fernández-Palacios, JM 	 10. Quantifying palaeogeographical rates of changes of continental islands in the Aegean Sea by sea level rise: Towards a novel framework for assessing biogeographical impli- cations of palaeogeographical change (20') <u>Stylianos M Simaiakis</u>, Rijsdijk, KF, Koene, EFM, Van Boxel, JH, Stocchi, P, Van Loon, EE, Hammoud, C, Norder, SJ, Georgopoulou, E, Triantis, K & Tjørve, E 	11. The last interglacial in northeastern North America and the northern North Atlantic: Evidence for warmer climate and ocean conditions than during the Holocene and possibly MIS11 (20') <u>Anne de Vernal</u> , Fréchette, B, Hillaire-Marcel, C & van Nieuwenhove, N

time			room	
08:30- 13:00	Sy 11.Ec5. Similarities and dissimilarities of biodiversity patterns on oceanic,Smallterrestrial and experimental islandsauditoriumChairs: Teja Tscharntke & Holger KreftSmall			
	1. Oceanic and terrestrial islands: biophysical similarities and differences and implications for theory (30') <u>Holger Kreft</u>	2. Toward a mechanistic understanding of edge effects in fragmented systems (30') <u>Raphael K Didham</u>	3. Revisiting species-area- relationships – the case of German barrier islands (20') <u>Hagen Andert</u> , Scherber, C & Tscharntke, T	
	4. Effects of habitat fragmentation on plant and animal diversity: research in a land-bridge island system (20') <u>Jiajia Liu</u> , Si, X, Hu, G, Wang, Y, Ding, P & Yu, M	5. Taxonomic and functional diversity of birds on subtropical fragment islands in China (20') <u>Xingfeng Si</u> & Ding, P	(30') Refreshment Break [10:30-11:00]	
	6. Springs: geographical isolates for the groundwater meiofauna? (20') <u>Simone Fattorini</u> , Fiasca, B, Di Cioccio, A, Di Lorenzo, T & Galassi, DMP	7. Islands within islands: arthropod diversity within a volcanically fragmented landscape on Hawaii island (20') <u>Daniel S Gruner</u>	8. Colonization of experimental islands in the Wadden Sea, Germany (20') <u>Michael Kleyer</u> , Balke, T & Lomus, K	
	9. Non-convergent mammal community diversity and assembly in shared ecoregions: A test in Madagascar and Australia (20') <u>Katherine H Bannar-Martin</u>	10. Fragmentation effects depend on biodiversity measure applied - examples on grassland plants and insects (20') <u>Peter Batáry</u> , Rösch, V & Tscharntke, T		
08:30- 11:00	Sy 12. Bd2. Island Forests: present stat Chairs: Luís Silva & Rui B Elias	us and future challenges	UAz - Main hall	
	1. Island forests, an overview (30') <u>Luís Silva</u>	2. Natural forests of the Azores: Conservation status, threats and guidelines for the future (20') <u>Rui B Elias</u>	3. Management of exotic woodland resources in the Azores: Biomass availability from <i>Pittosporum undulatum</i> stands (20') <u>Lurdes B Silva</u> , Teixeira, A, Azevedo, EB, Alves, M, Elias, RB & Silva, S	
	4. Restoration of the Azorean Laurel Forest in S. Miguel Island, home of the Azores Bullfinch: Lessons learned (20') <u>Rui Botelho</u> , Heleno, R, Ramos, J, Figueiredo, F, Peñil, L, Salvador, A, Silva, C, Coelho, R, Cruz, A, Teodósio, J & Costa, L	 5. Madeira natural forests: Current status and future prospects (20') Miguel Menezes de Sequeira, Jardim, R, Capelo, J, Góis Marques, CA, Figueiredo, A & Pupo-Correia, A 	(30') Refreshment Break [10:30-11:00]	

time			room
11:00- 12:00	6. Abandoned agricultural terraces in Madeira Island: A glimmer of hope for passive restoration? (20 ¹) <u>Aida Pupo-Correia</u> , Sequeira, MM & Aranha, JT	7. Invaded indigenous forests remnants of Mauritius: What lessons for island forest conservation? (20') <u>Claudia Baider</u> & Florens, FBV	8. Population structure of Juniperus brevifolia forests along an altitudinal gradient at the Special Protection Area of Pico da Vara - Ribeira do Guilherme, São Miguel, Azores (5') Lourdes Peñil, Gomez-Sanz, V, Merino-de-Miguel S, Botelho, R & Teodósio, J
08:30- 12:15	Sy 13. Bd4. Subterranean biology on is Chairs: Isabel R Amorim & Ana Se	lands ofia PS Reboleira	UAz - 2.4
	1. A review of the subterranean biology research performed in the Azores (30') <u>Isabel R Amorim</u> , Pereira, F, Gabriel, R & Borges, PAV	2. Cave-adapted faunas in volcanic islands vs. continental areas (30') <u>Ana Sofia PS Reboleira</u> & Oromí, P	3. Fossil birds from Graciosa island (Central Azores): A preliminary list (20') Josep Antoni Alcover, Pereira, F, Pieper, H & Rando, JC
	4. An unexpected vertebrate fossil assemblage on Mallorca (Balearic Islands, Western Mediterranean Sea) (20') <u>Enrique Torres Roig</u> , Alcover, JA, Bover, P, Bailon, S, Agustí, J & Rofes, J	5. The pyroclast deposits, an important subsurface habitat for troglobionts on recent volcanic islands (20') AJ Pérez, López, H & <u>Pedro</u> <u>Oromí</u>	(30') Refreshment Break [10:30-11:00]
	6. Sardinia, a hotspot of diversity for subterranean terrestrial isopods (Crustacea, Oniscidea) (20') <u>Stefano Taiti</u> , Marcia, P, Casu, M & Argano, R	7. Makauwahi Cave Reserve, Kauai: Limestone caverns on a volcanic island (20') <u>David A Burney</u> & Burney, LP	8. Variation of the subterranean fauna along an island chain (20') <u>Pedro Oromí</u> , Pérez, AJ & López, H
08:30- 12:00	Sy 14. Ec4. Polar Islands UAz - 2.5 Chair: Inger Greve Alsos		
	1. Biogeography, isolation and evolution in the peri-Antarctic islands (30') <u>Peter Convey</u>	2. Resilience of high latitude island ecosystems (30') <u>Ingibjörg S Jónsdóttir</u>	3. Dispersal and survival of disjunct arctic plant species (20') <u>Kristine B Westergaard</u>
	4. North Atlantic island insect faunas, from palaeoecology to conservation (20') <u>Eva Panagiotakopulu</u> , Buchan, A & Buckland, P	5. The aquatic fauna of the North Atlantic islands with emphasis on Iceland (20') <u>Gísli Már Gíslason</u>	(30') Refreshment Break [10:30-11:00]
	6. Patterns of vascular plant endemism in high latitude islands (20') <u>Thóra Ellen Thórhallsdóttir</u>	7. The role of sea ice for vascular plant dispersal in the Arctic (20') <u>Inger Greve Alsos</u> , Ehrich, D, Seidenkrantz, M-S, Bennike, O, Kirchhefer, A & Geirsdottir, A	

time			room
08:30- 12:15	Ord 4 - Conservation Moderators: Dominique Strasberg & Maria Teresa Ferreira		
	1. Biodiversity conservation in the Socotra Archipelago: Current challenges and future prospects (15') <u>Kay Van Damme</u> , Zajonz, U, Bensada, A & Zandri, E	2. Effects of climate change on the distribution of indigenous species in oceanic islands (Azores) (15') <u>Maria Teresa Ferreira</u> , Cardoso, P, Borges, PAV, Gabriel, R, Azevedo, EB, Reis, F, Araújo, MB & Elias, RB	3. Connecting pristine forest areas to face climate change effects under high uncertainty: A case study with arthropods in Terceira Island (15') <u>Bruno Aparício</u> , Cascalho, J, Cruz, MJ, Borges PAV & Ascensão, F
	4. Susceptibility to climate change by the laurel forests of Madeira Island: How changes on suitable area might promote floristic adjustments (15') <u>Albano Figueiredo</u> & Sequeira, MM	5. Conserving native insect communities on islands: Insights from management projects in Hawaii (15') <u>Paul D Krushelnycky</u> , Kawelo, K, Plentovich, S, King, C, Young, L & Drake, D	6. Galapagos giant tortoises and farmers: Coexistence or conflict? (15') <u>Giorgia Camperio-Ciani</u> , Benitez-Capistros, F, Hugé, J, Dahdouh-Guebas, F & Koedam, N
	7. First revision of the current status of seahorses (Syngnathidae) and their distribution throughout the Macaronesia (NE Atlantic) (15') <u>Francisco Otero-Ferrer</u> , González, JA, Freitas, M, Araújo, R, Azevedo, JMN, Holt, W & Haroun, R	8. Movement and activity drivers of an ecosystem engineer – the giant Aldabra tortoise (<i>Aldabrachelys gigantea</i>) on Aldabra Atoll (15') <u>Richard Baxter</u> , Schaepman- Strub, G, Ozgul, A, Postma, E, Turnbull, LA, Fleischer-Dogley, F, Bunbury, N, Falcon, W & Hansen, DM	(30') Refreshment Break [10:30-11:00]
	9. Comparing trace metal content in <i>Pachygrapsus marmoratus</i> from sites with different land uses and environmental attributes (15') <u>Nuno V Álvaro</u> , Azevedo, JMN, Rodrigues, A & Neto, Al	10. Landscape structure influences within-island gene flow in a forest specialist bird species (15') <u>Aurelie Khimoun</u> , Navarro, N, Faivre, B & Garnier, S	11. Land use and land cover assessment by using high resolution satellite imagery and landscape metrics – the Terceira Island (Azores) case-study (15') <u>Rita Godinho</u> , Borges, PAV, Calado, H & Elias, RB
	12. Social aspects to successful island conservation: Lessons from the proposed rodent eradication on Lord Howe Island (15') <u>Ian Hutton</u> , Kelly, D, Murray, C & Brice, L		
	Sy 15a. Ev4. Invertebrate evolution on is Chairs: Brent Emerson, Heriberto	slands D López & Christine Parent	UAz - 3.7 (1-10 / 14)
	1. Linking macro- and microevolutionary perspectives to evaluate the role of Pleistocene sea-level oscillations in driving island diversification patterns (30') <u>Anna Papadopoulou</u> & Knowles, LL	2. Adaptive radiation and parallel evolution in the sheet-weaving spiders (Linyphiidae) of the south Pacific Archipelago of Juan Fernández (20') <u>Miquel A Arnedo</u> & Hormiga, G	3. Phylogenetics of a Hyper- diverse Hawaiian moth radiation yield insight into the timing and tempo of adaptation in speciation (20') <u>Daniel Rubinoff</u>

time				room
09:40- 13:00	4. The role of allele sorting in a parallel speciation gradient of Calosoma beetles in the Galápagos archipelago (20') <u>Carl Vangestel</u> & Hendrickx, F	5. Near and Far: contrasting remote and near continent island radiations (30') <u>Diana M Percy</u>	(30') Refreshme [10:30-11:	ent Break 00]
	6. Galapagos land snail's metabolic rate: a relationship of shell morphology and environment (20') <u>Yannik Roell</u> , Voyles, J & Parent, CE	7. Flightless versus Winged – How dispersal ability shapes colonization and speciation processes of grasshoppers on the Canary Islands (20') <u>Axel Hochkirch</u>	8. What are we losin ecomorphology of de Galápagos land snail (20') Kraemer, AC & <u>C</u> Parent	g? The ecline in s Christine E
	9. The role of morphological evolution and prey specialization in adaptive radiations: the spider genus Dysdera in the Canary Islands (20') <u>Nuria Macías-Hernández</u> , Wangensteen, OS, Toft, S & Arnedo, M	10. The thin line between in-situ radiation and among island dispersal in the genesis of replicated species assemblages on the Galapagos (20') <u>Frederik Hendrickx</u> , De Busschere, C, Van Belleghem, SM, De Corte, Z & Vangestel, C		
13:00- 14:00	Lunch		University	of the Azores
13:45- 16:45	Field trip II		Start	ing from UAz
14:30- 16:00	Sy 10b. Bg5. Palaeobiogeography, palaeocology and palaeoclimatology in oceanic Islands Chairs: Sérgio Ávila, Pedro Baposeiro & Vitor Goncalves. (12-15 / 15)			Auditorium (12-15 / 15)
	12. Spatial distribution of subfossil diatom and chironomid assemblages' in surface sediments of a remote oceanic lake: The case of Lake Azul (Azores archipelago) (20') <u>Pedro M Raposeiro</u> , Saez, A, Giralt, S, Costa, AC & Gonçalves, V	 13. Lost ecosystems of Corvo Island, Azores (20') <u>Simon E Connor</u>, Gomes, A, Haberle, S, van der Knaap, WO, Kuneš, P, van Leeuwen, JFN, Lewis, T, Piva, S & Porch, N 	14. Reconstructing the palaeovegetation of Azores Islands: overve future perspectives (20') <u>Carlos Góis Mar</u> Nascimento, L, Seque Fernández-Palacios, J Madeira, J	ne Madeira and view and ques, de sira, MM, IM &
	 15. A first approach to the Canarian pine forest long-term ecology (20') Léa de Nascimento, Nogué, S, Criado, C, Whittaker, RJ, Willis, KJ & Fernández-Palacios, JM 			

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14:00- 15:30	Sy 15b. Ev4. Invertebrate evolution on is Chairs: Brent Emerson, Heriberto	slands) López & Christine Parent	UAz - 3.7 (11-14 / 14)
	11. Community Assembly over Evolutionary Time: Application of next generation sequencing for high throughput assessment of Hawaiian arthropod diversity (20') <u>Henrik Krehenwinkel</u> , Kennedy, S, Henderson, J Russack, J, Simison, B & Gillespie, RG	 12. Island colonisation: Do species jump, or are they pushed? (20') <u>Brent C Emerson</u>, Olivares Garcia, V, <u>Heriberto López</u>, Patiño, J, Machado, A & Alvarez, N 	 13. A bottom up approach to understand the origins of an island superradiation (5') <u>Víctor Garcia Olivares</u>, López, H, Patiño, J, Lopez de Herredia, U, Báez, M, Machado, A, Seppy, M, Alvarez, N & Emerson, BC
	14. Relation between wing development and diversification in the Macaronesian Rhopalomesites beetles (Coleoptera: Curculionidae) (5') <u>David Hernández-Teixidor</u> , López, H, García, V & Oromí, P		
14:00- 17:30	Sy 16. Ec3. Network approaches to island biology UAz - Main Chairs: Anna Traveset, Ruben Heleno & Manuel Nogales		UAz - Main hall
	1. Spatiotemporal stability of island endemic plant-pollinator interactions (20') <u>Jeff Ollerton</u>	2. Spatiotemporal variation in pollinator species and functional diversity influences the structure of pollination networks in Japanese islands (20') <u>Atushi Ushimaru</u> & Hiraiwa, MK	3. Non-modular systems, dissimilarity and homogenization in Azorean pollinator communities (20') <u>Ana Picanço</u> , Rigal, F, Matthews, TJ, Cardoso, P, Olesen, JM & Borges, PAV ~
	 4. Habitat restoration improves functional resilience of plant- pollinator communities (20') <u>Christopher N Kaiser-</u> <u>Bunbury</u>, Whittington, AE, Mougal, J, Valentin, T, Gabriel, R, Olesen, JM & Blüthgen, N 	5. The dispersal of native and exotic seeds by São Tomé forest birds (5') <u>Ana Coelho</u> , Palmeirim, J, Heleno, R & Lima, RF	(30') Refreshment Break [15:25-16:00]
	6. Frugivory networks of nonnative birds across Hawaiian forest communities (15') <u>Amy M Hruska</u> , Kelley, JP, Gleditsch, JM, Tarwater, CE, Foster, JT, Sperry, JH & Drake, DR	7. Using the intact seed dispersal network of Aldabra Atoll as a baseline for the conservation of interactions in the Western Indian Ocean (20') <u>Wilfredo Falcón</u> , Kaiser- Bunbury, C, Bunbury, N & Hansen, DM	8. Predicting the consequences of disperser extinction in the Galapagos Islands: richness matters the most when abundance is low (20') Rumeu, B, Devoto, M, Traveset, A, Olesen, JM, Vargas P, Nogales, M & <u>Ruben Heleno</u>
	9. Frugivory and seed dispersal network realistic interpretation of interaction island community (20') <u>Aaron González-Castro</u> , Nogale	works: Should we look for a more in outcomes? Insights from an is, M & Traveset, A	

time			room
14:00- 17:00	Sy 2c. Cv1. Biodiversity and conservati Chairs: Mónica Moura, Luís Silva	on of island plants & Juli Caujapé-Castells	UAz - 2.4 (15-20 / 20)
	 15. Breeding and mating systems, and breeding relationships in Macaronesian <i>Tolpis</i>: Applications to the conservation of diversity (20') <u>Daniel J Crawford</u>, Hauber, DP, Silva, LB, Sequeira, MM, Moura, M, Santos-Guerra, A, Kelly, JK, Gibson, MJS & Mort, ME 	16. Phylogenetic evidence of wild beets (<i>Beta</i> s.l. Amaranthaceae) radiation as a putative consequence of the Messinian Salinity Crisis (20') <u>Maria M Romeiras</u> , Vieira, A, Silva, D, Moura M, Santos-Guerra, A, Batista, D, Duarte, MC & Paulo, OS	17. Conservation genetics of <i>Vachellia anegadensis</i> , a British Virgin Island endemic plant (20') <u>Sara Bárrios</u>
	18. Anagenetic speciation and gene (Müll Arg) Skottsb (Euphorbiaceae) Island, Juan Fernández Archipelago (20') <u>Patricio López-Sepúlveda</u> , Mon Peñailillo, P, Greimler, J, Crawford, E Stuessy, TF	etic variation in <i>Dysopsis hirsuta</i> , an endemic of Robinson Crusoe , Chile toya, H, Fuentes, G, Takayama, K, DJ, Baeza, M, Ruiz, E, Letelier, L &	(30') Refreshment Break [15:30-16:00]
	19. Phylogenetic diversity of the Campanulaceae in Macaronesia (20') <u>Tiago Menezes</u> , Romeiras, MM, Sequeira, MM & Moura, M	20. Genetic diversity and structure of the endemic Ammi populations in the Azores (20') <u>Ângela Vieira</u> , Dias, EF & Moura, M	
14:00- 17:00	Sy 17.Bg1. Biogeography of species interactions in the Japanese Izu IslandsUAz - 2.5Chairs: Masami Hasegawa & Harue AbeUAz - 2.5		
	1. Biogeography and evolution in the Japanese Izu Islands system, a unique geological setting of formation and collision/accretion dynamics of volcanic islands to mainland through tectonic movement (30') <u>Masami Hasegawa</u>	2. Colonization of two early successional plant species with different nitrogen usage affects abundance of soil animals and herbivorous insects, and ecosystem process on volcanic deserts in Miyake-jima Island, Japan (20') <u>Takashi Kamijo</u> , Mori, Y, Kadokura, Y, Hashimoto, H, Yamaji, K, Minamiya, Y & Kaneko, N	3. Impacts of volcanic activity on bird pollination system in an island ecosystem (20') <u>Harue Abe</u> & Hasegawa, M
	4. Is tetraploid <i>Clerodendrum</i> <i>trichotomum</i> in Japanese archipelago derived from hybridization of diploid ancestors? (20') <u>Leiko Mizusawa</u> , Fujii, S, Hasegawa, M & Isagi, Y	(30') Refreshment Break [15:30-16:00]	5. Low pollinator functional diversity in oceanic islands influences pollinators' floral niches (20') <u>Masayoshi K Hiraiwa</u> & Ushimaru, U
	6. Evolution of color pattern among island lizard populations with different predation regimes (20') <u>Takeo Kuriyama</u>	7. Prey-predator dynamics and ongoing co-evolution between lizard and snake on the Izu Islands (20') <u>Masami Hasegawa</u>	

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14:00-	Sy 18.Ev5. Patterns of adaptation on islands and the Insularity SyndromeUAz - 3.6Chairs: Rita Covas & Claire DoutrelantUAz - 3.6			
	 Life-history and morphological evolution in island birds (30') <u>Rita Covas</u>, Crochet, P-A & Doutrelant, C 	 2. Worldwide patterns of bird colouration on islands (20') <u>Claire Doutrelant</u>, Paquet, M, Lobato, E, Renoult, JP, Loiseau, C, Grégoire, A, Melo,M, Crochet, PA & Covas, R 	3. Island syndromes: What do we think we know (20') <u>Shai Meiri</u>	
	4. Immune function and the island syndrome (20') <u>Kevin D Matson</u>	(30') Refreshment Break [15:30-16:00]	5. Transcriptome analysis to infer about the Reversed Island Syndrome (5') <u>Martina Trapanese</u> , Maselli, V, Buglione, M, Petrelli, S, Maresca, V & Fulgione, D	
	6. The evolutionary shift from herbaceous towards woody flowering plants: a remarkable case of convergent evolution (20') <u>Frederic Lens</u> , Chacon, DL & del Arco, M	7. Tracking the effect of isolation time on morphological variation: Brandt's hedgehog (<i>Paraechinus</i> <i>hypomelas</i>) in Persian Gulf islands as a case study (20') <u>Gholam Hosein Yusefi</u> , Kiabi, BH & Monteiro, NM	8. Evolution of island life histories in lizards: Evidence from Mediterranean islands (20') Johannes Foufopoulos, Pafilis, P, Valakos, E, Donihue, C & Brock, K	
	9. Evolutionary patterns in deer on Mediterranean islands (5') <u>Leila D'Souza</u> , Lister, AM & Richards, DA			
17:00- 20:00	Field trip III		Starting from UAz	

Personal notes:

time			room
08:30- 09:25	Plen V - Processes of ecology and evolution in the context of global change: Modelling a complex island ecosystem George Roderick		
09:30- 12:45	SD a - Workshop on: Biodiversit Chairs: António Onofre Soares &	y and biological invasion on islan & Helen Roy	ds Auditorium (1-8 / 21)
	1. Biological invasions: the importance of collaborations and communication (25') <u>Helen Roy</u> & COST Action TD1209 ALIEN Challenge	2. Harmonia axyridis did not establish in the Azores: The role of species richness, intraguild interactions and resource availability (15') <u>António Onofre Soares,</u> Honěk, A, Martinkova, Z, Skuhrovec, J, Cardoso, P & Borges, I	3. Do gut symbionts play a role in the invasion strategies of subterranean termites? (15') <u>Sónia Duarte</u> , Nobre, T, Borges, PAV & Nunes, L
	(30') Refreshment Break [10:30-11:00]	SD - Workshop on: Biodiversity and biological invasion on islands Session chairs: Franz Essl & Ana Cristina Cardoso	4. The biogeography and macroecology of biological invasions on islands: what global databases have taught us? (25') <u>Franz Essl</u> , Capinha, C, Lenzner, B, Seebens, H & GloNAF core team
	5. Early warning and rapid response (25') <u>Ana Cristina Cardoso</u> , Tsiamis, K, Gervasini, E, D'Amico, E & Deriu, I	6. Harmonia axyridis (Pallas) (Coleoptera: Coccinellidae) did not invade the Azores (Portugal): Is invasibility to blame? (15') <u>Isabel Borges</u> , Magro, A, Gil, A & Soares, AO	7. Alien Species Profile (ASP): A streamlined workflow for collaborative authoring, peer- review and scholarly publication of information on invasive species (15') Lyubomir Penev, Stoev, P, Georgiev, T, Senderov, V & Cardoso, P
	8. The impact of invasive plant species on native communities in UK Overseas Territories (15') <u>Colin Clubbe</u>		
09:30- 10:30	Sy 19.SmallEv6. The role of topography and elevation in diversification on islandsSmallChair: Lawrence R Heaneyauditorium		
	1. The role of topography and elevation in biological diversification on islands (5') <u>Lawrence R Heaney</u>	2. The role of topography in speciation by mammals within a complex plate-margin island (30') <u>Lawrence R Heaney</u> , Balete, DS, Jansa, SA, Rickart, EA & Steppan, S	3. Islands within islands - a global perspective on within-island isolation and its effect on diversification (25') <u>Manuel J Steinbauer</u>

time			room
10:30- 12:30	(30') Refreshment Break [10:30-11:00]	4. Patterns of plant endemism on a high elevation island - the role of climate and topography (25') <u>Severin DH Irl</u> , Harter, DEV & Beierkuhnlein, C	5. Island ontogeny, environmental heterogeneity, and the build-up of island diversity (25') <u>Joaquín Hortal</u> , Sarmento- Cabral, J, Meiri, S, Phillimore, AB, Santos, AMC & Violle, C
	 6. Arthropod diversity across gradients of elevation on Society and Hawaiian islands: Environmental and anthropogenic effects (25') George Roderick, Davies, N, Charlat, S, Ewing, PE, Oboyski, PT, Deck, J, Rominger, AJ, Cayetano, L, Graham NR, Krehenwinkel, H, Ramage, T, Gruner, DS & Gillespie, RG 		
00.20	C 20-		
12:30	Bd1. Biodiversity in the Gulf of (Chairs: Martim Melo, Ricardo Fa	Guinea Islands ustino de Lima, Robert C. Drewes	Large room (1-6 / 15) & Luis MP Ceríaco
	1. Endemism unsung: The California Academy of Sciences Gulf of Guinea Expeditions (30') <u>Robert C Drewes</u> , Melo, M & Ceríaco, LMP	2. Geological evolution of the Gulf of Guinea Islands – possible constraints on biodiversity (20') <u>Rita Caldeira</u>	3. Bird Speciation in the Gulf of Guinea (20') <u>Martim Melo</u> & Jones, P
	(30') Refreshment Break [10:40-11:00]	4. 170 years of herpetological studies on Gulf of Guinea: A review of our current knowledge on the amphibians and reptiles of the Islands of São Tomé & Príncipe (20') Luís MP Ceríaco & Marques, MP	5. Reed frog diversification in the Gulf of Guinea: land-bridges, overseas dispersal, and in situ speciation (20') <u>Rayna C Bell</u>
	6. The population genetics of a Drosophila hybrid zone (20') Daniel R Matute		
09:30- 10:45	Ord 5 - Biogeography <i>Moderators</i> : José María Fernández-Palacios & Kevin Burns Small room		
	1. Complex interactions between ecological, evolutionary, and environmental processes explain island biodiversity dynamics (15') Juliano Sarmento Cabral, Wiegand, K & Kreft, H	2. A theory of island biogeography for exotic species (15 ¹) <u>Kevin C Burns</u>	3. More than calibrating the tree: In search of fossils for deciphering the history of New Caledonian biota (15') <u>Philippe Grandcolas</u> , Nel, A, Maurizot, P, Folcher, N, Cluzel, D, Munzinger, J, Lowry, PP, Leslie, AB, Cantrill, D, Jourdan, H & Garrouste, R

time			room
10:45- 13:00	4. Islands, pleistocene climate change, and connectivity help to better understand current plant distributions (15') <u>Henry Hooghiemstra</u> , Flantua, SGA, Bogotá-Angel, RG, Groot, MHM, González-Carranza, Z, Berrio, JC, Boom, A & De Boer, EJ	(30') Refreshment Break [10:30-11:00]	5. Evolution, composition and historical biogeography of the flora in the Indian Ocean Biodiversity Hotspot (15') Joeri S Strijk & Le Péchon, T
	6. Isolation effects on island plant diversity: testing theoretical predictions with a biogeographical eco-evolutionary model (15') Juliano Sarmento Cabral, Whittaker, RJ, Wiegand, K & Kreft, H	7. Quantifying island isolation and its effect on insular fauna (15') <u>Yuval Itescu</u> , Foufopoulos, J, Panayiotis, P & Meiri, S	8. Tarsier tales: How the evolution of tiny primates portrays Sulawesi's turbulent past (15') <u>Stefan Merker</u> , Bohr, Y, Driller, C & Perwitasari-Farajallah, D
	9. Turnover dynamics of breeding landbirds on islands: 'True but trivial' over decadal time-scales? (15') <u>Duncan McCollin</u>	10. Proper taxonomy improves the biogeographic signal of austral rove beetles (Coleoptera: Staphylinidae: Staphylinini) (15') <u>Josh Jenkins Shaw</u> & Solodovnikov, A	11. Rove beetles (Coleoptera: Staphylinidae) as a model group for describing biogeography of the Aegean archipelago (5') <u>Line Kræmer</u> , Solodovnikov, A & Brunke, A
10:00- 13:00	Sy 21a. Ev2. Dynamics of speciation and Chairs: Borja Milá & Christophe	l diversification in island birds Thébaud	PV - Academia da Juventude (1-8 /)
	1. Taxon cycles and diversification of Lesser Antillean birds (30') <u>Robert Ricklefs</u>	2. Microevolution in white-eyes of southwest Pacific islands (20') <u>Sonya M Clegg</u> , Oatley, G, & Robertson, BC	3. Montane bird speciation and conservation across oceanic sky islands (20') <u>Chris E Filardi</u> , Andersen, MJ & Moyle, RG
	(20') Refreshment Break [11:10-11:30]	4. Genomic insights into speciation in widespread Pacific island bird lineages (20') <u>Robert G Moyle</u> , Manthey,	5. What are we learning about speciation and extinction from the Canary Islands? (20') Juan Carlos Illera
		JD, Andersen, MJ, Oliveros CH & Filardi, CE	
	6. Genetic and morphological differentiation in an island bird, the Azorean Woodpigeon (<i>Columba palumbus azorica</i>) (5') <u>Pedro AM Andrade,</u> Rodrigues, TM, Fontaine, R, Neves, V, Fonseca A, Alves, PC, Carneiro, M & Gonçalves, D	 JD, Andersen, MJ, Oliveros CH & Filardi, CE 7. Genomic approaches to assess phylogeny and adaptation in the Hawaiian honeycreeper radiation (20') <u>Robert C Fleischer</u>, Sackett, LC, Callicrate, T, Campana MG & James, HF 	8. The genetic basis and genomic consequences of plumage divergence in incipient flycatcher species of the Solomon Islands (20') <u>J Albert C Uy</u>

time			room
14:00- 15:00	Plen VI - Applications of Artificial Intelligence to Island Ecology and Biogeography Pedro Cardoso		
15:00- 19:05	SD - b Chairs: George Roderick & Danie	el Simberloff	Auditorium (9-21 / 21)
	9. Eradication of island invasives: Major incremental improvements and dramatic new possibilities (15') <u>Daniel Simberloff</u>	10. Invasions facilitation: Novel mutualisms between alien plants and native insects (15') <u>Maria Rosa Paiva</u> & Almeida, M	11. Effectiveness of seed dispersal of fleshy fruits by <i>Turdus</i> and wind on Robinson Crusoe Island, Chile (15') <u>Cecilia Smith-Ramírez</u> & Zapata, V
	 12. Final stage of the mongoose eradication project on Amami- Oshima Island, Japan (15') <u>Yuya Watari</u>, Fukasawa, K, Hashimoto, T, Morosawa, T, Komine, H, Yamada, F, Iwamoto, C & Abe, S 	(20') Refreshment Break [16:00-16:30]	13. Listen to the crickets: An innovative approach to improving tropical island biodiversity monitoring in context of invasive spread and biodiversity crisis. Insights from the New Caledonian biodiversity hotspot (15') Jérémy Anso, Desutter- Grandcolas, L, Bourguet, E & <u>Herve Jourdan</u>
	SD [14-21] Chairs: Jan Pergl & Angeliki F Martinou	14. Harmonization and integration of databases: Linking impact and pathways (25') <u>Jan Pergl</u>	15. Analysis of the impacts of invasive alien species in an island context. Implications for management (25') <u>Angeliki F Martinou</u>
	16. When invasive ants are more efficient than natives ones to disperse seeds. Implications for restoration of highly pertubated shrublands in New Caledonian biodiversity hotspot (15') <u>Maureen Cateine</u> , Gayral, I, Blight, O, Provost, E & Jourdan, H	 17. Marine invasions in offshore islands – a perspective from the Macaronesia region (15') João Canning-Clode, Chainho, P, Marques, T, Haroun, R, Fofonoff, P, McCann, L, Carlton, JT, Ruiz, G & Santos, RS 	 18. Marine protected areas as biotic resistance hot-spots against non-indigenous species invasions (15') Ignacio Gestoso, Ramalhosa, P, Oliveira, P & Canning-Clode, J
	19. The role of plant fidelity and habitat disturbance on the species richness of indigenous and exotic canopy spiders on an oceanic island (15') <u>Margarita Florencio</u> , Rigal, F, Borges, PAV, Cardoso, P, Santos, AMC & Lobo, JM	20. Ancient DNA and microfossil analysis of ancient rat faeces reveals new insights into the impact of the introduced Pacific rat (Rattus exulans) on the prehistoric New Zealand biota (15') Janet M Wilmshurst	

time			room	
15:00- 19:00	Sy 20b. Bd1. Biodiversity in the Gulf of Guinea Islands Chairs: Martim Melo, Ricardo Faustino de Lima, Robert C. Drewes & Luis MP Ceríaco			
	8. Biodiversity conservation in São Tomé and Príncipe: An overview (30') <u>Ricardo Faustino de Lima</u>	 9. Bird conservation in São Tomé and Príncipe: Islands for biodiversity and people (20') <u>Luís T Costa</u>, Sampaio, H, Buchanan, GM, Lima RF & Ward- Francis, A 	10. Ecology and distribution of endemic pigeons in São Tomé: potential implications of hunting (20') <u>Jorge M Palmeirim</u> , Carvalho, M, Lima, RF & Fa, JE	
	(30') Refreshment Break [16:00-16:30]	11. Adopting an integrated approach to island-wide conservation and sustainable development in the Island of Príncipe, São Tomé & Príncipe (20') <u>Felipe A Spina</u> , Bollen, A, Marques Garro, A, Alves, R & Matilde, E	12. Studying cetaceans in a small archipelago: Challenges and perspectives in the conservation of highly mobile top predators on São Tomé and Príncipe (20') <u>Inês Carvalho</u> , Pereira, A, Picanço, C, Loloum, B & Brito, C	
	 13. Sea turtle research and conservation at Príncipe Island, West Africa (20') <u>Rogério NL Ferreira</u>, Borges, TC & Bolten, AB 	14. Inferring the migratory connectivity and habitat use of the sea turtles occurring in São Tomé Island using genetics and stable isotopes (5') Joana M Hancock, Rebelo, R, Vieira, S & Ferrand, N	15. Improving marine biodiversity and livelihoods of coastal communities in Príncipe (5') <u>Ana Nuno</u> , Metcalfe, K, Godley, BJ & Broderick, AC	
13:45- 16:00	Sy 21b.PV - AcademiEv2. Dynamics of speciation and diversification in island birdsda JuventudChairs: Borja Milá & Christophe Thébaud(9-12 / 12)			
	9. Eastern Polynesian landbirds did not follow hotspot diversification models (20') <u>Alice Cibois</u> & Thibault, J-C	10. Sympatric speciation in an island giant involves isolation, hybridization and selection (20') <u>Martin Stervander</u> , Melo, M, Jones, P & Hansson, B	 11. Intra-island variation in the Réunion grey white-eye: what we know 50 years after Frank Gill's classic study? (20') <u>Christophe Thébaud</u> & Mila, B 	
	12. Diverse evolutionary histories of endemic avian taxa on Guadalupe Island, Mexico (20') <u>Borja Milá</u> & Hernández- Montoya, J	Field trip: visit to "Paul da Praia da Vitória" [15:05-16:00]		
15:00- 16:10	Sy 22. Ev3. Evolutionary processes in t Chair: Hanno Schaefer	he Macaronesian Island Flora	Small auditorium	
	1. Speciation processes in the Macaronesian fern flora (30') <u>Fred Rumsey</u>	2. Why do different oceanic archipelagos harbour contrasting levels of species diversity? Diversification processes in the Macaronesian archipelago floras (20') Mark Carine	3. Homoploid hybrid speciation in Argyranthemum (Asteraceae) (20') <u>Oliver White</u> , Carine M & Chapman, M	

time			room
18:15-	(30') Refreshment Break [16:10-16:30]	4. Hybridization to explain the diversification pattern of island taxa: Using codominant markers to investigate the "surfing syngameon" and alternative hypotheses in <i>Micromeria</i> (20') <u>Harald Meimberg</u> , Curto, M & Puppo, P	 5. Postzygotic isolating barriers, divergence and speciation in Macaronesian <i>Tolpis</i> (20') <u>Daniel J Crawford</u>, Hauber, DP, Borges Silva, L, Sequeira, MM, Moura, M, Santos-Guerra, A, Kelly, JK, Mort, ME, Kerbs, B, Ressler, J & Gibson, MJS
	 6. The utility of Multiplexed-Shotgun-Genotyping (MSG) for resolving phylogenetic relationships within and among oceanic archipelagos: An example from Macaronesian <i>Tolpis</i> (Asteraceae) (20') <u>Mark E Mort</u>, Archibald, JK, Gibson, MJS, Bontrager, H, Hauber, DP, Borges Silva, L, Sequeira, MM, Moura, M, Santos-Guerra, A, Kelly, JK, Gruenstaeudl, M, Caujapé-Castells, J & Crawford, DJ 		7. From single lineages to entire floras: What are the main evolutionary processes forming the Macaronesian flora? (30') Hanno Schaefer
20:30- 22:30	Conference dinner		Hotel Caracol

Personal notes:

Friday, July 22

time			room
08:30- 09:25	Plen VII - Bayesian statistical approaches to island biogeography: progress and challenges Isabel SanMartin & Fredrik Ronquist		
09:30- 12:30	Sy 23a.Bg3. How Macaronesia influenced our perspective on island systemsAuditoriumChairs: Ana MC Santos, Anna Traveset, Jairo Patiño, Margarita Florencio, Sandra(1-8 / 12)Nogué & Paulo AV BorgesSantosSantos		
	1. The Island Biology Interest Group (IBIG) (5') <u>Ana MC Santos</u>	2. The outstanding contribution of Macaronesia to the development of island sciences: past, present and future (30') José María Fernández- Palacios	3. Colonization and speciation of an invader: the western house mouse (<i>Mus musculus</i> <i>domesticus</i>) in Madeira Island (20') <u>Sofia Gabriel</u> , Searle, JB & Mathias, ML
	4. The impact of edge effects on arthropod Beta spatial and temporal variation in an Azorean native forest (5') <u>Rui M Nunes</u> , Cardoso, P, Rigal, F & Borges, PAV	(30') Refreshment Break [10:30-11:00]	5. Snipe in the Azores: Assessing gene flow in the middle of the North Atlantic (20') <u>Tiago M Rodrigues</u> , Andrade, P, Rodrigues, M & Gonçalves, D
	6. The evolutionary origin of the Macaronesian flora: Lessons from bryophytes (20') <u>Jairo Patiño</u> & Vanderpoorten, A	7. The signatures of Anthropocene defaunation: Cascading effects of the seed dispersal collapse on islands (20') <u>Alfredo Valido</u> , Pérez- Méndez, N, Jordano, P & García, C	8. Combined effects of altitude and invasive herbivores on a vulnerable, endemic violet species in an oceanic high mountain ecosystem (20') Jaume Seguí, López, M, Pérez, AJ, Nogales, M & Traveset, A
09:30- 12:30	Sy 24.SmallCv6. Protected areas in islands: Are we doing everything wrong?AuditoriunChair: Artur GilAuditoriun		
	1. The Opens Standards for the Practice of Conservation: Strategically planning and adaptively managing island biodiversity (30') <u>Andrew S. Bridges</u>	2. Improving conservation education strategies in integrating totally protected area with their surroundings: Scientific evidence and theoretical approaches of Lambir Hills National Park (20') Januarie Kulis	3. Vulnerability assessment of Azorean marine resources to climate change (5') <u>Cristiana A Brito</u> , Cruz, MJ, Sousa, A & Pinho, MRR
	(30') Refreshment Break [10:30-11:00]	4. Conservation projects by external partnerships as success stories for management of Macaronesian Protected Areas (20') <u>Luís T Costa</u> , Teodósio, J, Fagundes, AI, Gouveia, C & Geraldes, PL	5. Combining genetic and landscape tools for reserve design on islands: The reptiles of Socotra as a model study (20') <u>Raquel Vasconcelos</u> & Tarroso, P
	6. The vulnerability to climate change of the forest in the protected areas of Tenerife (Canary Islands) (20') José Luis Martín-Esquivel	7. Key biodiversity areas and conservation priorities in Macaronesia: The BEST III initiative (20') <u>Francisco W Macedo</u> , Madruga, LMC & Azevedo, JMN	

Friday, July 22

time			room
09:30- 12:00	Ord 6 - Evolution and genetics <i>Moderators</i> : Rosemary G Gillespie & Ben Warren		Large room
	 Repeated evolution of large seeds on islands (15') Patrick Kavanagh & <u>Kevin C</u> <u>Burns</u> 	2. Integrating island assembly models and comparative population genetics (15') <u>Isaac Overcast</u> & Hickerson, MJ	3. A new evolutionary scandal: Asexual ladybirds (Coccinellidae: Coleoptera) in Macaronesia and the Mascarene Islands (15') <u>Alexandra Magro</u> , Dutrillaux, B, Soares, AO, Lecompte, E, Murienne, J, Dutrillaux, A-M, Fürsch, H & Hemptinne, J-L
	4. Eco-evolutionary feedbacks in fish-zooplankton communities on the Scottish island of North Uist (15') <u>Talib Chitheer</u> & MacColl, A	(30') Refreshment Break [10:30-11:00]	5. Understanding phylogenetic patterns of extinction in island settings (15') <u>Ben H Warren</u>
	6. Is insular woodiness in the genus Argyranthemum (Asteraceae) driven by drought? (15') Larissa Chacon Dória, del Arco, M, Delzon, S & Lens, F	7. Using phylogenomic approaches to study maintenance of morphologically identical species in <i>Micromeria</i> (Lamiaceae) from the Canary Islands (15') <u>Manuel Curto</u> , Puppo, P & Meimberg, H	8. Diversification and species assembly among Hawaiian arthropods: The play of adaptive radiation in four acts (15') <u>Rosemary G Gillespie</u>
12:30- 13:30	Lunch & Poster Session (P4)		Central Atrium and Auditorium
13:30- 14:30	Sy 23b.Bg3. How Macaronesia influenced our perspective on island systemsAuditoriumChairs: Ana MC Santos, Anna Traveset, Jairo Patiño, Margarita Florencio, Sandra(10-12/12)Nogué & Paulo AV BorgesAuditorium		
	10. Where are we in the parasite biogeography of land vertebrates in Macaronesia? (20') Juan Carlos Illera	11. Biogeography and conservation of the reptiles of the Cabo Verde Archipelago: Insights from diversity and distribution patterns (20') <u>Raquel Vasconcelos</u>	12. The butterflies of the Canary Islands and Madeira: Aspects of colonization, differentiation, ecology, and conservation (20') <u>Martin Wiemers</u>
14:30- 15:30	Plen VIII - Ecological networks o Jens M Oleson	n islands	Auditorium
15:30- 16:00	Refreshment Break		Central Atrium
16:00- 17:30	Discussion and conclusions		Auditorium
	Closing		Auditorium

GENERAL PROGRAM – POSTERS

Posters - Monday, July 18

Central Atrium

P1-01. First record of aquatic hyphomycetes associated with decomposing leaf litter in Azorean streams <u>Verónica Ferreira</u> , Pereira, A, Raposeiro, PM & Gonçalves, V	P1-02. Biodiversity ecology function across marine and terrestrial ecosystems (BEFmate): Linking microbial diversity and dispersal with function Simone Hanekamp, Wemheuer, B & Daniel, R	P1-03. Positive relationship between genetic- and species diversity on a mainland archipelago <u>Anna Maria Csergő</u> , Hufnagel, L & Höhn, M
P1-04. Isolation, production and maintenance of axenic cultures of freshwater species of Cyanobacteria from the Azorean Islands Luz, R, <u>Rita IP Cordeiro</u> , Fonseca, A & Gonçalves, V	P1-05. A new combination and status in Andryala (Asteraceae) from Madeira Island (Portugal) <u>Maria Zita Ferreira</u> , Jardim R, Fernández IÁ & Sequeira MM	P1-06. Mangroves of São Tomé Island: A preliminary assessment <u>Ricardo Faustino de Lima</u> , Chainho, P, Félix, PM, Costa, JL, Almeida, AJ, Domingos, I, Silva, T, Beltrán, C, Carvalho, F, Oquiongo, G, Soares, E, Gonçalves, M & Brito, AC
P1-07.The dragonflies of the Azores and Madeira <u>Virgílio Vieira</u> & A. Cordero-Rivera	P1-08.Freshwater diatoms from Desertas Islands (Madeira, Portugal) <u>Vítor Gonçalves</u> , Marques, HS, Teixeira, D & Raposeiro, PM	P1-09.Preliminary study of bryophytes from Azorean wetlands I: Bryophytes from "Paul do Belo Jardim" (Praia da Vitória, Terceira Island, Azores) <u>Cecília Sérgio</u> , Claro, D, Diaz Castillo, J & Gabriel, R
P1-10. Preliminary study of bryophytes from Azorean wetlands II: Bryophytes from "Paul da Pedreira do Cabo da Praia" (Praia da Vitória, Terceira Island, Azores) <u>Rosalina Gabriel</u> , Pimentel, C, Brito, MR & Sérgio C	P1-11. Preliminary study of bryophytes from Azorean wetlands III: Bryophytes from "Paul da Praia da Vitória" (Praia da Vitória, Terceira Island, Azores) <u>César Pimentel</u> , Gabriel, R, Brito, MR & Sérgio C	P1-12. Bryophyte functional groups along an elevational gradient: response to climatic conditions Hernández-Hernández, R, Rodríguez- Romero, A, Kluge, J, <u>Claudine Ah-Peng</u> & González-Mancebo, JM
P1-13. Exploring effects of climate and habitat disturbance on endemic, native and invasive species along an elevation gradient on an oceanic island González-Mancebo, JM, Hernández- Hernández, R, Klüge, J, Jairo Patiño, Steinbauer M, & Del Arco, M	P1-14. Pollen-transport: Which plants do wild insects prefer to interact in Azores? <u>Ana Picanço</u> & Borges, PAV	P1-15. Tree age determination at laurel forest remains in São Miguel Island, Azores Câmara, M, Silva, LB, <u>Rui Bento Elias</u> & Silva, L
P1-16. Leaf litter decomposition on insular lentic systems: Effects of macroinvertebrate presence, leaf species and environmental conditions <u>Pedro M Raposeiro</u> , Ferreira, V, Florensa, RG, Gonçalves, V & Martins, GM	P1-17. Testing neutral vs. niche species assembly in Azorean canopy arthropod communities after defaunation: Preliminary results Rui M Nunes, Cardoso, P, Soares, AO & Borges, PAV	P1-18. Water retention pathways in bryophytes: A characterization and quantification study in native vegetation of the Azores <u>Márcia CM Coelho</u> , Pereira, F, Ah-Peng, C & Gabriel, R
P1-19. Spatiotemporal variation in macroinvertebrate assemblages on an oceanic island: The singular ponds of the Azorean island of Terceira <u>Margarita Florencio</u> , Lamelas-López, L, Gonçalves, V, Serrano, L & Borges, PAV	P1-20. The effect of geological origin of islands on soil microbial communities during long-term succession <u>Fernando D Alfaro</u> , Manzano, M, Marquet, PA & Gaxiola, A	P1-21. Cloud layer, trade wind inversion and cloud water interception by bryophytes on an oceanic island <u>Claudine Ah-Peng</u> , Flores, O, Leclair de Bellevue, J, Jeamblu, F, Moureau, E, Piteau, A, Staménoff, P, Strasberg, D & Duflot, V
P1-22. The dynamics of Ocotea foetens (Lauraceae) on current laurel forests of Macaronesia <u>Albano Figueiredo</u> , Arozena Concepción, ME & Panareda, JM	P1-23. Interaction networks over time: Using next generation sequencing to determine changes in predation and competition across substrates of different age in Hawaii <u>Martha Alexandra Rueda</u> , Kennedy, S, Krehenwinkel, H & Gillespie, RG	P1-24. Taxonomic and functional diversity of phytophagous insects associated with trees from the Azorean native laurel forests <u>Carla Rego</u> , Boieiro, M, Rigal, F, Ribeiro, SP, Cardoso, P & Borges, PAV

Posters - Tuesday, July 19

Central Atrium

P2-01. Epilithic biofilms diversity and assembly across the three domains of life in island tropical rivers (Guadeloupe) submitted to chlordecone contamination pressure Hubas, C, <u>François Rigal</u> , Monti, D, Pennarun, S, Carbon, A, Budzinski, H, Duran, R & Lauga, B	P2-02. BEST: Fostering biodiversity conservation and sustainable development in regions of the world <u>Carole Martinez</u> , Wallenstein, F & Azevedo, JMN	P2-03. Volunteer tourism for island conservation: Case of Lord Howe Island <u>lan Hutton</u>
P2-04. From null to full protection: Challenges and novel approach in implementing a new sea turtle protection legislation in Gulf of Guinea <u>Sara Vieira</u> , Jiménez, V, Besugo, A, Hancock, J, Lima, H, Oliveira, L & Loloum, B	P2-05. Islands in interdisciplinary education: Balancing connectivity and isolation <u>Sietze J Norder</u> & Rijsdijk, KF	P2-06. Constraints to species' elevational range shifts as climate changes; insights from an oceanic high mountain violet (Viola cheiranthifolia) using niche modeling and genetic diversity data Fernández de Castro, AG, <u>Priscila</u> <u>Rodríguez-Rodríguez</u> , Seguí Colomar, J, Sosa, PA & Traveset, A
P2-07. Using species distribution modelling for IUCN Red Listing Emad Kaky & Gilbert, F	P2-08. Mauritius on fire: a charcoal record of the last thousand years shows the human destruction of an oceanic island <u>Erik J De Boer</u> , De Kruif, J & Gosling, WD	P2-09. Improving the monitoring of fish communities in Azorean freshwater lakes <u>Vítor Gonçalves</u> , Prestes, ACL, Dallaire, A, Gea, G, Riva, JC, Pacheco, DM, Matias, M, Fonseca, A, Raposeiro, PM & Azevedo, JMN
P2-10. Insular frugivore communities: extinction and its consequences for functional diversity Julia H Heinen, Hansen, DM & Kissling, WD	P2-11. Updates on whole-dataset analyses ausing Spark and the GUODA Data Service <u>Matthew Collins</u> , Poelen, J & Thompson, A	P2-12. Habitat characteristics and population dynamics of the endangered species Lotus kunkelii in the Protected Scientific Site of Jinámar (Gran Canaria- España) <u>Agustín Naranjo Cigala</u> , Arévalo Sierra, JR, Salas Pascual, M, Díaz Peña, F, González García, AM, Santana Vega, S & Ramos Martínez, A
P2-13. Feeding preferences, growth and survival of the endemic stream shredder <i>Limnephilus atlanticus</i> (Trichoptera, Limnephilidae) when offered leaf litter conditioned in stream water naturally contaminated with heavy metals <u>Ana Balibrea</u> , Gonçalves, V, Ferreira, V & Raposeiro, PM	P2-14. Factors limiting the establishment of canopy-forming algae on artificial structures <u>Eva Cacabelos</u> , Martins, GM, Thompson, R, Prestes, ACL, Azevedo, JMN & Neto, Al	P2-15. The conservation status of the endemic flora of French Polynesia: La maison brûle (the house is burning)! Jean-Yves Meyer
P2-16. The Cabo Verde islands as important biogeographical refuge areas for some remarkable bryophytes <u>Cecília Sérgio</u> , César Augusto Garcia & Manuela Sim-Sim	P2-17. Effects of land use on macroinvertebrate communities on oceanic island streams (Azores archipelago) Soued, C, Gonçalves, V, <u>Ana Cristina</u> <u>Costa</u> & Raposeiro, PM	P2-18. Makauwahi Cave Reserve, Kauai: Research, conservation, and tourism David A Burney & Burney, LP
P2-19. Rewilding Rodrigues Island with Aldabra giant tortoises: An experimental assessment of soft- and hard-release methods Pfister, NX, Falcón, WL & <u>Dennis M</u> <u>Hansen</u>	P2-20. Conservation status of Príncipe Island biodiversity: A preliminary assessment of its herpetofauna <u>Estrela Matilde</u> & Abreu, A	P2-21. Genetic structure of the red- headed wood pigeon <i>Columba janthina</i> <i>nitens</i> , an endangered subspecies endemic to the Ogasawara Islands, Japan <u>Haruko Ando</u> , Ogawa, H, Suzuki, H, Horikoshi, K, Seki, S-I, Nakahara, F, Takayanagi, M, Kawakami, K & Isagi, Y
P2-22. Island Studies Journal' special section environmental conservation in the Outern Artur Gil	on on sustainable development and nost European Regions	

Posters - Thursday, July 21

Central atrium

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