ATBC2012
49th Annual Meeting
Bonito-MS, Brazil

ORGANIZATION

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SUPPORT

- Universidade de São Paulo (USP)
- Universidade Federal de Mato Grosso do Sul (UFMS)
- Muséum National d'Histoire Naturelle, France (MNHN)
- Associação Brasileira de Ciência Ecológica e Conservação (ABECO)
- Tourism Secretariat of the State of Mato Grosso do Sul
- Bonito City Hall
- Embratur

SPONSORS

- Association for Tropical Biology and Conservation (ATBC)
- Instituto de Biociências of the Universidade de São Paulo (IB-USP)
- Programa de Pós-Graduação em Ecologia & Conservação of the Universidade Federal do Mato Grosso do Sul (PPGEC-UFMS)
- Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPQ)
- Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES)
- Fundação de Apoio ao Desenvolvimento do Ensino, Ciência e Tecnologia do Estado de Mato Grosso do Sul (FUNDECT)
- Vale S.A.
- Bette and Gordon Moore Foundation
- The Society for Tropical Ecology (GTOE)

EXHIBITORS SUPPORTING ATBC2012

- Associação Brasileira de Ciência Ecológica e Conservação (ABECO)
- bioGENSIS, a core project within DIVERSITAS
- Center for International Forestry Research (CIFOR)
- Fundação Boticário
- Neotrópica Instituto Homem Pantaneiro (IHP)
- Ofício das Letras
- Pensoft Publisher Springer SBM
- The University of Chicago Press Tropical Conservation and Development ProgramUniversity of Florida (UF)
- Tropical Forest & Climate Initiative, Union of Concerned Scientists
- Whitney R. Harris World Ecology Center
- University of Missouri-St. Louis (UMSL)
- União Sul-Americana de Estudos da Biodiversidade (USEB)
- Wiley-Blackwell - John Wiley & Sons, Ltd.

LOGISTICS

CONGRESSS SHUTTLE LINE

Running hours:	**18/06**	*16h00 - 18h00*	From the city to the convention center
		20h30 - 21h30	From the convention center to the city
	19 – 20 – 21/06	*07h30 - 8h30*	From the city to the convention center
		18h30 - 19h30	From the convention center to the city
	22/06	*07h30 - 8h30*	From the city to the convention center
		18h00 - 19h00	From the convention center to the city
		18h00 - 19h00	From the city to the convention center
		22h00 - 23h00	From the convention center to the city

VAN STOPPING POINTS

- Hotel Zagaia
- Pousada Olho D Água
- Supermarket Formoso – Coronel Pilad Rebuá street, 782
- Gas Station Aroeira Bandeira Taurus - Monte Castelo Street, 1684 (corner with Coronel Pilad Rebuá street)
- Bonito Main Square

SECRETARIAT

The meeting secretariat will open on the 18th June (Monday) at 2 PM. Please look for us if you have any questions.

TRAVEL AGENCY

The travel agency that handles tours, transfers, and hotels will have a Booth in the "Pantanal space," next to the Meeting Secretariat. **Please do not forget to confirm your transfer from Bonito to Campo Grande at our Booth.**

CURRENCY

The local currency in Brazil is the Brazilian "Real." Major credit cards (Visa, MasterCard, Amex, Diners and American Express) are accepted at most hotels, restaurants and stores. American Dollars or Euros can be exchanged at the "Banco do Brasil" in Bonito (Av. Dr. Alberto de Oliveira, 85; tel. (81) 3737-1274); Banking hours are from 10 AM to 6 PM (Monday through Friday). In addition, ATM machines are also available in Bonito; the 24 hour bank machines (red ones) accept international credit cards.

EXHIBITORS

Exhibitors are located in the Karuha space.

MEDIA DESK

Presentation materials should be brought to the Media Desk at least 2 hours prior to the beginning of your session. If your session is scheduled early in the morning, please deliver your file in the previous day. We will accept slides in PDF (preferred and safest), and Microsoft Power Point formats. Unfortunately, we will be unable to accept presentations in Apple's keynote format and you will NOT be able to use your own laptop; we apologize for this inconvenience. **The Media Desk will be open between 7:30AM and 6:30PM**.

POSTERS

Posters should be mounted at 7AM of the day assigned to your presentation, and removed at 7PM of that same day. Please make sure that your poster measures up to 1,4 m high and 0,9 m wide. Poster sessions will take place at the Karuha space.

CERTIFICATES

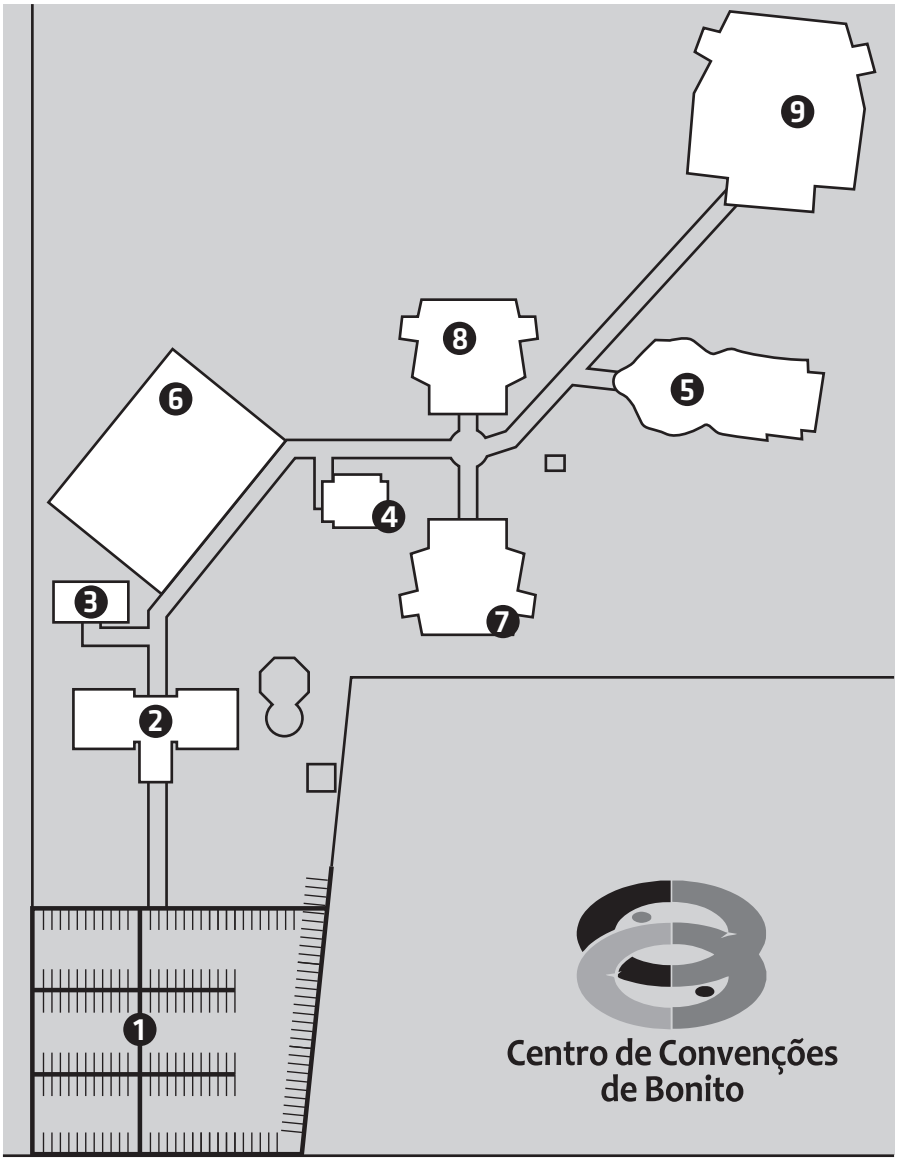
All certificates of attendance and paper presentation will be sent electronically to participants after ATBC2012.

OPENING CEREMONY AND MIXER

The Opening Ceremony will be held on the 18th June (Monday), at 6 PM at the Bonito Convention Center. This Ceremony will be followed by an Opening Mixer.

FAREWELL PARTY

The Farewell party will be held on the 22nd June (Friday), at 7 PM at the Bonito Convention Center.



1. Parking
2. Secretariat/ Tourism agency
3. Media Desk/ VIP Room
4. Toilets
5. Lunch area
6. Karuha Room, Posters, Exhibitors
7. Terena Room
8. Kadwéu 1 e Kadwéu 2 Room
9. Gaicurus Room

WELCOME

It is with great pleasure that we welcome you at the 49th Annual Meeting of the Association for Tropical Biology and Conservation (ATBC) here in Bonito, Mato Grosso do Sul, Brazil.

This meeting's theme is **"Ecology, Evolution and Sustainable Use of Tropical Biodiversity."** The meeting will focus on the interface between ecology and evolution, stimulating discussion on ecological questions from an evolutionary standpoint, as well as potential applications of individual studies for the sustainable use of tropical biodiversity. Symposia will cover a large range of topics, including pollination biology, animal-plant interactions, dispersal ecology, community ecology, biogeography, macroevolution, macroecology, forest fragmentation, and conservation, among others.

The meeting's program is organized around five main areas, as follows:

(1) Ecology and Evolution of Neotropical Organisms and Ecosystems
(2) Community Ecology & Function
(3) Species Interactions
(4) Conservation and Sustainable Development
(5) Capacity Building

Even though each day will focus in one particular area (with keynote talks and a higher number of sessions in that particular area), we will also have presentations in other topics running in parallel so that the contents of each day will include interesting topics to everyone.

Apart from a strong scientific program, Bonito is an ecological paradise that will provide participants with a great opportunity to explore one of the most stunning natural landscapes of Brazil. The region houses a very unique flora and fauna, including river otters, jaguars, armadillos, caimans, and a wide diversity of birds, as well as incredible landscapes ranging from dry forests to wetlands and crystalline water rivers.

ATBC2012 in Brazil will also represent a great opportunity for the international scientific community of Tropical Biologists to interact with Brazilians to foster scientific cooperation programs. Brazil houses a young and dynamic scientific community and a scientific program that is greatly increasing. In particular, the country produces half a million graduates and 10,000 PhDs a year, spends 1% of its GDP on research, and contributes with 2.7% of the world's scientific papers, 30% of which are published with foreign co-authors.

On behalf of the Academic and Local Organizing Committee's of ATBC2012, we welcome you to ATBC2012. We hope that you will have an extremely rich week scientifically, as well as will have fun enjoying Bonito's natural landscapes.

All the very best,

Lúcia G. Lohmann
Pierre-Michel Forget
Erich Fischer

PRE-MEETING WORKSHOPS (13-18th June)

Workshops will be held prior to ATBC2012, mostly at the Bonito Campus of the Universidade Federal of Mato Grosso do Sul, expect for one field course, which will be held in the Pantanal. Except for the field-course, all other workshops will follow the following format:

Time	Activity
09h00 - 10h30 hrs	Lecture
10h30 - 11h00 hrs	Coffee break
11h00 - 12h30 hrs	Lecture
12h30 - 13h30 hrs	Lunch break
13h30 - 15h00 hrs	Lecture
15h00 - 15h30 hrs	Coffee break
15h30 - 17h00 hrs	Lecture

Workshop 1: Pantanal Field Ecology

Organizers: **Erich Fischer** (Universidade Federal de Mato Grosso do Sul, Brazil) and **Inara Leal** (Universidade Federal de Pernambuco, Brazil).
Instructors: **Alan Andersen** (CSIRO, Australia), **Erich Fischer** (UFMS, Brazil), **Inara Leal** (UFPE, Brazil), **Marcelo Tabarelli** (UFPE, Brazil), **Marco Mello** (Universität Ulm, Germany), and **Rainer Wirth** (University of Kaiserslautern, Germany).
Sponsors: Programa de Pós-Graduação em Ecologia and Conservação of the Universidade Federal de Mato Grosso do Sul (PPGEC-UFMS).
Dates: 13-18 June
Venue: Field station of the Universidade Federal de Mato Grosso do Sul
Description: This workshop will focus on logical and practical steps of scientific field-studies, including: sampling designs, data collection, data analyses, oral presentation, and scientific writing. In addition, the workshop will lead to a further understanding of the Pantanal ecosystem and biodiversity through the individual field projects and talks.

Schedule:

Date	Morning	Afternoon	Evening
June 12	Reception of participants in Campo Grande and accommodation for overnight. Participants can stay in hotels (expenses not covered) or in houses of UFMS students		
June 13	Travel to the Pantanal	Field orientation	Class/talks Project 1 (discussion)
June 14	Project 1 (data collection)	Project 1 (analysis and oral presentations)	Class/talks Project 2 (discussion)
June 15	Project 2 (data collection)	Project 2 (analysis and oral presentations)	Class/talks Projects 1 and 2 (reports)
June 16	Projects 1 and 2 (reports)	Projects 1 and 2 (reports)	Class/talks Project 3 (discussion)
June 17	Project 3 (data collection)	Project 3 (analysis and oral presentations)	General evaluation
June 18	Travel to Bonito		

Workshop 2: bioGENESIS-ATBC2012 Training Workshop Evolutionary Approaches to Biodiversity Science

Organizers: **Susana Magallón** (Universidad Nacional Autónoma de México) and **Lúcia G. Lohmann** (Universidade de São Paulo, Brazil).
Instructors: **Elena Conti** (Insitut für Systematische Botanik, Switzerland), **Joel Cracraft** (American Museum of Natural History, USA), **Christopher Dick** (The University of Michigan, USA), **Daniel Faith** (The Australian Museum, Australia), **Félix Forest** (Royal Botanic Gardens Kew, UK), **R. Geeta** (University of Delhi, India), **Andrew Hendry** (McGill University, Canada), **Carlos Jaramillo** (Smithsonian Tropical Research Institute, Panama), **Lúcia Lohmann** (Universidade de São Paulo, São Paulo, Brazil), **Susana Magallón** (Universidad Nacional Autónoma de México, Mexico), **Cam Webb** (Arnold Arboretum of Harvard University, USA), and **Rafael Zardoya** (Museo Nacional de Ciencias Naturales, Spain).
Sponsors: bioGENESIS (DIVERSITAS), CNPq, Society for Systematic Biologists, Universidad Autónoma de México, Universidade de São Paulo, and University of Michigan.
Dates: 16-18 June
Venue: Universidade Federal do Mato Grosso do Sul, Bonito Campus
Description: This training workshop will provide a current outlook on some of the most relevant evolutionary approaches for the study of biodiversity. The workshop will exemplify the types of questions that can be addressed, including their general theoretical and methodological background, as well as basic practical examples. It will consist of 12 lectures, presented in four daily sessions, during three days. Each session will include: (a) A lecture describing the types of questions that can be addressed by each method, including a theoretical framework and basic methodological implementation; (b) An exercise that will allow students to follow the steps necessary to implement basic analyses using different softwares; and (c) A list of background literature for each topic (available beforehand).

Schedule:

		TOPIC	INSTRUCTOR
1	*Sat, June 16, 09h00 - 10h30*	Phylogenetic methods, including approaches to combine morphological and molecular data. Session 1. Data (morphological and molecular), primary homology (alignments); data mining; phylogeny estimation (parsimony).	• R. Geeta, Botany Department, University of Delhi, India.
2	*Sat, June 16, 11h00 - 12h30*	Phylogenetic methods, including approaches to combine morphological and molecular data. Session 2: Substitution models; phylogeny estimation (ML and Bayesian inference) and hypothesis testing.	• Rafael Zardoya, Museo Nacional de Ciencias Naturales, Madrid, Spain.
3	*Sat, June 16, 13h30 - 15h00*	Population genetics, population structure and phylogeography	• Christopher Dick, The University of Michigan, Ann Arbor, USA.
4	*Sat, June 16, 15h30 - 17h00*	Measuring selection and predicting adaptation	• Andrew Hendry, McGill University, Montreal, Canada.
5	*Sun, June 17, 09h00 - 10h30*	Speciation and hybridization	• Elena Conti, Insitut für Systematische Botanik, Zürich, Switzerland.
6	*Sun, June 17, 11h00 - 12h30*	Comparative method, evolution of morphological/ ecological traits, and ancestral character state reconstructions	• Lúcia Lohmann, Universidade de São Paulo, São Paulo, Brazil.
7	*Sun, June 17, 13h30 - 15h00*	Phylogenetic community structure and Beta Diversity measures	• Cam Webb, Arnold Arboretum of Harvard University, USA.
8	*Sun, June 17, 15h30 - 17h00*	Phylogenetic and functional diversity (including PD) and phylogenetic conservation planning	• Daniel Faith, The Australian Museum, Sydney, Australia.
9	*Mon, June 18, 09h00 - 10h30*	Biodiversity informatics (including data mining) and biodiversity measures (EDGE, PE)	• Félix Forest, Royal Botanic Gardens Kew, Richmond, UK.
10	*Mon, June 18, 11h00 - 12h30*	Biogeography	• Joel Cracraft, American Museum of Natural History, New York, USA.
11	*Mon, June 18, 13h30 - 15h00*	The fossil record and the evolutionary process	• Carlos Jaramillo, Smithsonian Tropical Research Institute, Panama.
12	*Mon, June 18, 15h30 - 17h00*	Molecular clocks, including fossil calibrations	• Susana Magallón, Universidad Nacional Autónoma de México, Mexico City, Mexico.

Workshop 3: Automated Species Identification of Birds, Frogs, Insects, and Monkeys from Audio Recordings Using ARBIMON Software

Organizers & Instructors: **T. Mitchell Aide** (University of Puerto Rico), **Carlos J. Corada-Bravo** (University of Puerto Rico), **Carlos Milan** (University of Puerto Rico), **Marconi Cerqueira** (INPA, Manaus).
Dates: 17-18 June
Venue: Universidade Federal de Mato Grosso do Sul, Bonito Campus
Description: Automated recording devices have improved our ability to simultaneously monitor biodiversity in many sites. This has resulted in millions of audio recordings, but it is often difficult to extract useful data from these recordings. Many researchers have collected thousands of recordings, but they have no way to manage or process the files, let along automate species identification. In the end, their studies are often based on listening to a subset of the recording. To help solve this problem the Automated Remote Biodiversity Monitoring Network (ARBIMON) project (arbimon.net) has developed a database and analytical tools that integrate file management, audio processing, sonogram evaluation, species-specific identification modeling and verification in a web-based application. The major objectives of this workshop will be: 1) introduce the participants to the hardware, software, and on-going projects/collaborations of ARBIMON, 2) learn how to use the species identification interface, 3) create species specific identifications models, and 4) apply these models to the participant's recordings. We will dedicate approximately ½ day to each of these objectives.

Workshop 4: Tips on Fund-raising and Grant-writing

Organizer: **Bette A. Loiselle** (University of Florida, USA)
Date: June 18
Venue: Universidade Federal de Mato Grosso do Sul, Bonito Campus
Description: Experts from funding agencies will be joined by experienced investigators and NGO professionals to discuss the strategies of achieving success with grant-writing and fund-raising. The afternoon will be divided into two sessions – one focusing on grant-writing and the other on fund-raising. The expert panelists in each session will first give a short presentation on their "tips to success" which will be followed by an interactive exchange with the participants. Participants are encouraged to present to the panelists specific challenges and obstacles they have experienced in achieving their goals. Participants from all stages in their career are invited.

Workshop 5: Applying Landscape Ecology for Biodiversity Conservation

Organizers & Instructors: **Jean Paul Metzger** (Universidade de São Paulo, Brazil), **Alexandre Uezu** (Instituto de Pesquisas Ecológicas, Brazil), **Alexandre Camargo Martensen** (Taki Ambiental, Brazil).
Dates: 16-17 June
Venue: Universidade Federal de Mato Grosso do Sul, Bonito Campus
Description: This workshop will provide a current view on some of the most relevant potentialities of applying landscape ecology concepts and principles for biodiversity conservation in practice. We will tackle different questions for which landscape ecology could give a solid base for conservation and restoration decisions. The general theoretical aspects will be discussed, but the focus will be in how to apply this background in practical examples. The workshop will consist of 5 lectures and 3 practical classes, divided in four sections, during two consecutive days. Each session, except the first one, will include a lecture, followed by demonstrations of potential applications, and also software demonstrations and simulations.

Schedule:

	TOPIC	INSTRUCTOR
1	Basic landscape ecology principles and general applications	• Jean Paul Metzger and Alexandre Camargo Martensen
2	Spatial metrics	• Alexandre Uezu
2b	Calculating spatial metrics	• Alexandre Uezu
3	Applying landscape principles	• Alexandre Camargo Martensen
3b	Practice	• Alexandre Camargo Martensen
4	Site selection for conservation and restoration	• Jean Paul Metzger
4b	Practice	• Alexandre Uezu

Workshop 6: Human Ecology and its Applications to Sustainable Use and Conservation of Biodiversity

Organizers & Instructors: **Renato A. M. Silvano** (Universidade Federal do Rio Grande do Sul, Brazil), **Juarez C. B. Pezzuti** (Universidade Federal do Pará, Brazil).
Dates: June 17 and 18, 2012 (Sunday, and Monday)
Venue: Universidade Federal of Mato Grosso do Sul, Bonito Campus
Description: There is an increasing consensus that satisfactory sustainable use, resources management and biodiversity conservation can only be achieved if managers and scientists actively work with and involve local people, who ultimately are responsible for the use (or abuse) of natural resources. However, notwithstanding the overwhelming recent evidence (mostly published after 2000) of the benefits derived from research and collaborative work with local human communities, still many biologists are skeptical or ill prepared to include socio-economic aspects in their research. Human Ecology jointly addresses ecological and socio-economic approaches. We aim to present and to discuss recent and applied topics in Human Ecology science, highlighting its many applications to biological conservation, natural resources management and sustainability. We also want to emphasize practical and methodological issues, as well as to promote discussion and exchange of ideas and experiences among the audience. The activities will be organized in four modules, spanning two days.

Schedule:

17th June (morning):	Introduction, theoretical basis of Human Ecology and Ethnoecology.
17th June (afternoon):	Study cases on Ethnoecology, Common based management and Ecological Economics. We will comment on surveys (including our own research, both published and original) that apply local (or traditional) ecological knowledge of resource users to improve our current ecological knowledge and management strategies. We will address some useful tools of Ecological Economics, such as ecosystem services, compensation schemes and payments for ecological services (PES). We will also discuss study cases of co-management of natural resources with an emphasis on fisheries and faunal resources.
18th June (morning):	main methodological approaches currently used in Human Ecological research, with an emphasis on interviews. We will address interview techniques (structured questionnaires, group interviews, among others), selection of informants, sampling design and the benefits and shortcomings of quantitative and qualitative approaches. We will provide some examples of quantitative analyses that can be made with interview based data, such as frequency analyses (chi-square), correlations and multivariate analyses (ordinations). We will also comment on approaches to interpret and analyze qualitative interview data, to devise participatory mapping of natural resources' use and to conciliate interview data with geographic information system (GIS).
18th June (afternoon):	overall discussion of participants' own experiences and expectations related to Human Ecology research and applications. Participants should voluntarily comment on their own concerns and questions related to topics addressed in the Workshop and how they could be applied in their current research activities. The study cases posed by some of the participants would then be briefly discussed among the organizers and the other participants. In doing that, we want to approximate the workshop topics to the reality of participants' professional activities, besides reinforcing the advantages provided by research on Human Ecology.

KEYNOTE TALKS

* Detailed bios for each keynote speaker are available at http://www.atbc2012.org/

Opening Session (18th June):

Functioning of savanna ecosystems – local, regional and global interactions. *Mercedes Bustamante, Brazilian Ministry of Science and Technology & Ecology Department, Universidade de Brasilia, Brasilia, Brazil.*
Savanna ecosystems cover extensive areas of South America, Africa and Australia, and also occur in Central America, India, and North America. In particular, tropical savanna ecosystems cover an area nearly 30% larger than the area of tropical forests and present high biological diversity at different levels and scales. Savanna ecosystems are controlled by the interactions between water and nutrient availability and fire frequency. In spite of its ecological relevance, these ecosystems are experiencing an intense process of land cover conversion mainly due to agricultural activities. Interactions between local and global environmental changes pose new challenges for the understanding of the functioning of savanna ecosystems and their responses. The Cerrado is one of the most diverse savannas in the world and is undergoing a rapid loss of habitats due to changes in fire regimes and intense conversion of native areas to agriculture. Variation in temperature extremes and in total amount of rainfall and altitude throughout the Cerrado determines marked differences in the composition of species. Typical cerrado ecosystems function as C sinks on an annual basis, although they work as source of C to the atmosphere close to the end of the dry season. Predicted changes in temperature, amount and distribution of precipitation vary according to Cerrado sub-regions with more marked changes in the northeastern part of the biome. Higher temperatures, decreases in rainfall with increase in length of the dry season could shift net ecosystem exchanges from C sink to source of C and might intensify burning, reducing nutrient stocks. Interactions with the heterogeneity in the composition and abundance of biological communities throughout the biome and with current and future changes in land use make it difficult to project the impacts of future climate scenarios at different temporal and spatial scales and new modeling approaches are needed.

The Pantanal: South-America's hydrological, biogeochemical and biogeographical turntable. *Karl M. Wantzen, University of Tours, CNRS UMR CITERES, France.*
The Pantanal is a large seasonal floodplain in the center of South America. Formed by Upper Paraguay River and its tributaries in Brazil, Bolivia, and Paraguay, it is one of the largest contiguous wetlands in the world. It harbors a great diversity of organisms and it is an ark for large populations of species that are rare in the Americas. The Pantanal fulfills a large range of ecosystem services that are essential for humanity, e.g. the flood retention of 3 months and thus a desynchronisation of the floods of the Paraguay and Paraná Rivers above their confluence. Due to the wet-and-dry climate of this seasonal floodplain system, plants, animals, and local human populations show an impressive range of adaptations to the floodpulse, drought, and even fire. Organic matter is processed and transferred very quickly in the aquatic-terrestrial interface at biotic and biogeochemical hot spots and hot moments. The adaptive traits are expressed by a high biological and cultural diversity and a high degree of ecological sustainability of traditional land use types. However, the geopolitical setting of the Pantanal makes it an object of transcontinental development projects (roads, waterways, and gas pipelines) and regional industrial projects (agroindustry, iron ore processing) that threaten its ecological integrity. Major impacts also result from the land use change in the strongly fragmented agroscapes and the increasing number of hydropower dams in the Upper Paraguay Basin that disconnect the migratory pathways of fish and terrestrial animals between the Pantanal and the Cerrado and that change the hydrological and sedimentary budget of the floodplain. Further development of regional and transregional integrative land use strategies in the Pantanal, including a science-based conservation strategy are needed to warrant the future of one of the most impressive World Heritage Sites by UNESCO.

First Day (19th June): Evolution & Ecology of Neotropical Organisms and Ecosystems

Reconstructing the history of ecological assemblages at different spatiotemporal scales: an evolutionary approach. *Joel Cracraft[1,2], Brian Weeks[2], and Santiago Claramunt[1], 1. Department of Ornithology, American Museum of Natural History, New York, USA, 2. Department of Ecology, Evolution and Environmental Biology, Columbia University, New York, USA.*
Understanding how and why a given ecological assemblage has the taxonomic composition it does has become a topic of intense interest to ecologists as well as evolutionary biologists. Most of the recent approaches to this topic reflect an ecological perspective in which either the dynamics of biotic interactions, or the filtering action of ecological conditions of the region, are seen as the primary causal mechanisms structuring the taxonomic composition of the ecological units in question. At the same time, phylogenies, typically from concatenated supertrees, are sampled in order to test whether the taxa that are present in the assemblage represent a random sample across the tree or are "overdispersed" or "underdispersed" phylogenetically. We will propose an alternative approach to looking at species assembly, one that recognizes that clades of organisms, at all taxonomic scales, are nonrandomly distributed with respect to their history. This implies that species assemblages should be expected to be significantly constrained historically and that patterns of assembly should show hierarchically, phylogenetic structure. By understanding this history, one can better tease apart the influences of "nonhistorical" local, or temporally-short factors, such as biotic interactions. Some of these approaches will be illustrated by considering the evolution of the South American avifauna.

Responses of the tropical forest to stressful situations: past for future. *Marie-Pierre Ledru, Institut des Sciences de l'Evolution-Montpellier, France.*
The Quaternary, the past 2.6 million years, is characterized by changes in Earth's orbital geometry or orbital cycles, twenty ice age cycles, and significant reorganizations in ocean-atmosphere couplings at decadal to millenial time scales. All these events induced specific responses of the biomes, potentially influenced speciation and accounted for diversification. In function of the forcing agents involved, several types of responses can be distinguished, ecological succession, migration, community stability,

niche conservatism, extinction, etc. In the tropics, the nature of the climate changes displayed specific combination of climatic variables linked to species life history. Improving our knowledge in this field requires the integration of multiple approaches and perspectives. Results of recent climate and vegetation model predictions, plant fossil information, and genetic analyses will be examined to link past climate changes to their associated responses from tropical fauna and flora. We will present a revision of some of the most significant climate trends and shifts of the Quaternary and the associated plant responses using the pollen records. We will show how changes in ice volume and insolation influence the activity of the different monsoons at decadal, millennial and orbital scales, infer on rainfall distribution and induce significant patterns of forest movement. Our review questions the timescale and pace of diversification, the role of large and small refugial areas in forest dynamics and how species-level tolerances to climate change determined the patterns of range expansion and retraction. Different case studies will be analysed from South American, African, Australian rainforests but also small island patterns of changes with a focus on the impact on the evolution of the tropical biodiversity. Insights into the recent human impact will be compared to the past climatic change effects on the dynamism of the forest.

Second Day (20th June): Community Ecology & Function

The historical assembly of ecological communities. *Robert E. Ricklefs, Department of Biology, University of Missouri-St. Louis, USA.*
Local floras and faunas reflect large-scale evolutionary processes that produce the regional biota through evolutionary diversification and adaptive radiation, and ecological processes that sort the regional species pool into local assemblages. To understand patterns of diversity, it is first important to recognize that species populations are the primary unit of community ecology and biogeography. Thus, regional diversity depends on how regional properties influence species formation and extinction, and local diversity manifests factors that determine the distribution and abundance of populations within a region. Fossil records suggest that the diversity of major groups has been relatively stable, relative to species turnover, during the Tertiary, although it has been difficult to reconcile high extinction rates with analyses of diversification based on molecular phylogenetic reconstruction. Similarly, analyses of the distribution and abundance of species in a phylogenetic context exhibit inconsistencies with both niche-based and random assembly of communities. One promising approach to resolving conflicting evidence invokes coevolutionary relationships between host species and their specialized pathogens. These relationships are receiving increasing attention from ecologists and evolutionary biologists interested in patterns of biodiversity.

Historical assembly of communities: comparison of island vs. mainland lizard assemblages. *Jonathan Losos, Department of Organismic and Evolutionary Biology, Harvard University, USA.*
Caribbean Anolis lizards have become a model for studies of community ecology and adaptive radiation. Particularly notable is the evolutionary convergence among islands: essentially the same set of habitat specialists—termed ecomorphs—have evolved on each island. However, a little appreciated fact is that the anoles of Central and South America are equally as diverse as those on the islands. Nonetheless, anole evolution has traveled a very different course on the mainland: although ecologically diverse, continental anoles have not converged on the Caribbean ecomorphs. Why has adaptive evolution occurred so repeatedly on the islands and in a very different way on the mainland? Both historical and ecological perspectives are necessary to unravel this mystery.

Third Day (21th June): Species Interactions

Herbivory as a selective pressure and the diversity of tropical plant responses. *Rodolfo Dirzo, Universidad Autónoma de México, Mexico & Center for Latin American Studies and Biology Department, Stanford University, USA.*
The impact of herbivores on tropical plants is frequently indirect and even cryptic, and varies with plant ontogeny. However herbivory is omnipresent and evidence shows that at least in some cases it operates as an important selective pressure for tropical plants. Such selective pressure leads to a plethora of anti-herbivory responses, beyond the diversity of defensive (secondary) compounds. In this talk I will review the diversity of plant responses, which ranges from phenological disruptions, to associations with conventional and non-conventional biotic mutualistic defenders. Yet, as I will illustrate, distinguishing between proximal and ultimate responses remains an aspect in need of additional research. Beyond this, anthropogenic impact has become a major force of disruption of species interactions, including herbivory. I will illustrate how human impact threatens biodiversity not only via the extinction of species and populations, but via the extinction of ecological processes, including those that led to the exuberance of adaptations of plants to animals –and vice versa– that we see, or used to see, in tropical forests.

Ecological interactions between frugivores and fleshy-fruited plants: lessons from the past and a look to the future. *Bette A. Loiselle, Center for Latin American Studies and Department of Wildlife Ecology and Conservation, University of Florida, Gainesville, USA.*
Charles Darwin in the *Origin of Species* noted the dependence of mistletoe plants on birds for seed dissemination. Darwin used this ecological interaction as an example for his arguments on the "struggle for existence". Here mistletoes were said to be struggling with other fruit-bearing plants *"to tempt birds to devour and thus disseminate its seeds rather than those of other plants"*. Darwin also noted the importance of seed dispersal by animals to plant populations as these agents through their ingestion of seeds could disseminate seeds over long distances, sometimes hundreds of kilometers. Yet, among well-known plant-animal interactions, such as pollination and herbivory, studies of fruit-frugivore interactions received relatively little attention for much of the 20th century. However, in the early 1970's, several influential papers were published by Doyle McKey, David Snow, Daniel Janzen and Joseph Connell that established an evolutionary and theoretical framework from which to investigate fruit-frugivore interactions and their consequences to plant and animal populations. The rate of publications then soared and the field attracted a whole new generation of scientists, many of whom worked in tropical ecosystems where the diversity of

frugivores and fleshy-fruited plants was exceptionally rich. Over the next decades, the study of fruit-frugivore interactions has continued to develop and become more integrative. For example, research questions and approaches now integrate across the complex processes involved in seed dispersal (i.e., fruit choice, fruit removal and seed handling, seed deposition, seed survival and germination, seedling establishment, etc.). Such advances build on decades of observation and experimental work, plus technological (e.g., GIS, molecular genetics, radio-transmitters) and analytical (e.g., network analysis) developments that open new avenues of research. Today, understanding the importance of fruit-frugivore interactions to ecological functions, especially in diverse tropical environments, has generated new attention in light of current patterns of habitat destruction, biodiversity loss, and projected impacts of climate change. The complexities of these networks of interacting plant and animal species provide significant challenges to predicting their response to disturbance. Here, the ecological studies of this important plant-animal mutualism are reflected upon to reveal the significant lessons from the past that have shaped the field today and the challenges of the future that may direct further studies for the decade to come.

Fourth Day (22nd June): Conservation and Sustainable Development

Phylogeny and the sustainable use of biodiversity. *Daniel P. Faith, Division of Research and Collections, The Australian Museum, Australia.*
The ATBC-2012 meeting's thematic focus on sustainable use of biodiversity echoes the increased international attention to sustainable use problems. Examples include IPBES (the inter-governmental platform on biodiversity and ecosystem services) and the Convention on Biological Diversity's new 2020 biodiversity targets. Within DIVERSITAS (the international program for multidisciplinary biodiversity research), a core project "bioGENESIS" promotes the important roles of evolutionary biology in achieving conservation and sustainable use of biodiversity. Through bioGENESIS, we have explored the idea of evolutionary or "evosystem" services. Some services have been provided through evolution operating in the past, and a phylogenetic diversity measure, PD, can help us to quantify these current and potential future benefits derived from the tree of life. Effective sustainable use programs therefore should conserve overall phylogenetic diversity, in addition to the conventional focus on preserving species with known current benefits. Programs that try to justify biodiversity conservation and sustainable use based only on currently-perceived benefits may fail to effectively preserve future benefits. Recent work has demonstrated that a focus on conservation of currently recognised benefits (such as well-known ecosystem services) can mean a dramatic loss in the capacity for conservation of broader biodiversity values. Avoiding such undesirable "tipping points" may require balancing the conservation of currently-valued species and the conservation of overall phylogenetic diversity (PD). In this way, true "sustainable use" will preserve not only known uses but also the sustained capacity to find other uses, in other species. Brazil may provide good examples of successful phylogenetically-based sustainable use programs. The Biota-FAPESP Bioprospecta program makes effective use of phylogenies in identifying species with potential biologically active compounds. BIOTA programs may complement these efforts by also conserving overall phylogenetic diversity in the region – so achieving the goal of "sustainable use" by keeping options open for future discovery of useful products in other species.

Climate change in the tropics: the end of the world as we know it? *Richard T. Corlett (ATBC President) Department of Biological Science, National University of Singapore, Singapore.*
Until recently, many tropical biologists believed that significant climate change was too remote a concern to worry about in comparison with the more urgent threats from deforestation and overexploitation. This attitude has been largely replaced in the last few years by a widespread recognition that climate change is already happening in the tropics at a rate that is relevant to current and planned conservation action, as well as human livelihoods. However, the tropical literature on the biological impacts of anthropogenic climate change does not currently capture the full range of uncertainties inherent in the prediction process. In reality, the range of plausible tropical futures projected from realistic greenhouse gas scenarios and the best available climate models includes potentially catastrophic changes in tropical climates within the next few decades. Conversely, the simplifications inherent in current approaches to modeling impacts may tend to exaggerate the effects of climate change on tropical biodiversity by underestimating the capacities of tropical species for acclimation and rapid evolution, and ignoring the existence of refugia within heterogeneous landscapes. Combining the physical and biological uncertainties, it is clear that there is a potential for large under- or over-estimation of the risks. I will outline possible futures, consider the prospects for reducing the uncertainties, and discuss specifically tropical options for climate change adaptation and mitigation.

SCIENTIFIC PROGRAM OVERVIEW

ORAL COMMUNICATIONS ATBC2012

19th June - Ecology and Evolution of Neotropical Organisms and Ecosystems

08h00 - 08h55	**Plenary:** Joel Cracraft: *Reconstructing the history of ecological assemblages at different spatiotemporal scales: an evolutionary approach*.				
	Guaicurus (1000 People)	**Terena (300 People)**	**Karuha (200 People)**	**Kadiwéu 1 (150 People)**	**Kadiwéu 2 (150 People)**
09h00 - 10h30	The assembly and evolution of the Amazonian biota	Ecosystem function, ecology and evolution of bats: a tribute to the memory of Elisabeth K.V. Kalko	Social dimensions of tropical conservation	Past, present and future of tropical ecosystems	Ant ecology, behavior and conservation
11h00 - 12h30			Non-timber forest promises? Connections and disconnections between conservation and non-timber forest products (NTFP)		Seed dispersal, germination and establishment
14h00 - 15h30	Neotropical diversity dynamics: combining phylogeography, paleoecology, and eco-physiology		Human disturbances and novel ecosystems: prospects for tropical biodiversity and ecological services	Diversity and ecology of the Pantanal	Animal movement in tropical landscapes
16h30 - 18h00		Ecological and evolutionary studies on Piper: a key group for Neotropical Bats and Insects			Forest restoration
18h00 - 18h55	**Plenary:** Marie-Pierre Ledru: *Responses of the tropical forest to stressful situations: past for future?*				

20th June - Community Ecology and Function

08h00 - 08h55	**Plenary:** Robert E. Ricklefs: *The historical assembly of ecological communities.*				
	Guaicurus (1000 People)	**Terena (300 People)**	**Karuha (200 People)**	**Kadiwéu 1 (150 People)**	**Kadiwéu 2 (150 People)**
09h00 - 10h30	Ecosystem dynamics of Western Amazonia	Evolution, ecology, and conservation of the Cerrado: new directions, new approaches	Capacity building and empowerment in tropical ecology and conservation: how can we make tropical conservation research and practice more effective?	DNA barcodes and beyond: developing and utilizing community-wide DNA sequence data to understand ecology and evolution of tropical biodiversity	Maximizing the conservation value of tropical forests through sustainable forest management practices
11h00 - 12h30			Ecological research in Latin America: advances, critical gaps and prospects		
14h00 - 15h30	Understanding successional processes in tropical forests using long-term data: From populations to ecosystems	Ecology of Neotropical and Paleotropical dry forests	Research Priority Session (ATBC/OTS)	New approaches for the biotic inventory of hyperdiverse tropical forests	Environmental services in Amazonia
16h30 - 18h00			Womens' mentoring workshop	Marshalling existing biodiversity information to support tropical biology and conservation	Understanding fire regimes in tropical landscapes: climatic, ecological, and socio-economic considerations
18h00 - 18h55	**Plenary:** Jonathan Losos: *Historical assembly of communities: comparison of island vs. mainland lizard assemblages.*				

ORAL COMMUNICATIONS ATBC2012

21st June - Species Interactions					
08h00 - 08h55	**Plenary:** Rodolfo Dirzo: *Herbivory as a selective pressure and the diversity of tropical plant responses.*				
	Guaicurus (1000 People)	**Terena (300 People)**	**Karuha (200 People)**	**Kadiwéu 1 (150 People)**	**Kadiwéu 2 (150 People)**
09h00 - 10h30	Conservation, biology, and evolution of fig trees and their associated wasps	Ecology, evolution, conservation and restoration of the Brazilian Atlantic forest	Trophic downgrading in tropical terrestrial ecosystems	Measuring and predicting the impacts of drought across tropical forests in Africa and South America	Gentry Awards
11h00 - 12h30					
14h00 - 15h30	Network analysis in pollination and other mutualistic systems		Monitoring terrestrial game animal abundance for management and ecological knowledge	Understanding the increase in lianas in Neotropical forests	Baccardi Award
16h30 - 18h00		Species diversification in tropical and temperate mountains	Conservation at the EDGE: ecology and evolution of the largest mammals in Neotropical forests		
18h00 - 18h55	**Plenary:** Bette Loiselle: *Ecological interactions between frugivores and fleshy-fruited plants: lessons from the past and a look to the future.*				

22nd June - Conservation & Sustainable Development					
08h00 - 08h55	**Plenary:** Daniel P. Faith: *Phylogeny and the sustainable use of biodiversity.*				
	Guaicurus (1000 People)	**Terena (300 People)**	**Karuha (200 People)**	**Kadiwéu 1 (150 People)**	**Kadiwéu 2 (150 People)**
09h00 - 10h30	Changing drivers of deforestation	The ecology and evolution of plant defenses	Frontier governance in Mato Grosso, Brazilian Amazon: can market transformation and public policy tame agroindustrial expansion and postpone forest dieback?	Tree rings and climate change in the tropics: progress over the last decades	How tropical phenology can contribute to identify responses to human disturbance (climate change and fragmentation)?
11h00 - 12h30					
14h00 - 15h30	Management of tropical protected areas: responses to current and future threats		Opportunities and challenges facing conservation in the Brazilian Amazon: Human and ecological dimensions	Integrating plant eco-physiology into a whole vision of Tropical Forest function	Biodiversity of freshwater wetlands
16h30 - 18h00		Avian malaria as a model of host-parasite interactions in tropical Environments		Environmental controls and the evolution of water use strategies in tropical plants	Ichthyology
18h00 - 18h55	**ATBC Presidential Address:** Richard T. Corlett: *Climate change in the tropics: the end of the world as we know it?*				

POSTERS ATBC2012

19th June - Ecology and Evolution of Neotropical Organisms and Ecosystems					
15h30 - 16h30	Evolution and ecology of Neotropical organisms and ecosystems	Ecosystem function, ecology and evolution of bats: a tribute to the memory of Elisabeth K.V. Kalko	Social dimensions of tropical conservation	Past, present and future of tropical ecosystems	Ant ecology, behavior and conservation
	The assembly and evolution of the Amazonian biota		Non-timber forest promises? Connections and disconnections between conservation and non-timber forest products (NTFP)	Diversity and ecology of the Pantanal	Seed dispersal, germination and establishment
	Neotropical diversity dynamics: combining phylogeography, paleoecology, and eco-physiology		Human disturbances and novel ecosystems: prospects for tropical biodiversity and ecological services		Forest restoration
20th June - Community Ecology and Function					
15h30 - 16h30	Community Ecology & Function	Evolution, ecology, and conservation of the Cerrado: new directions, new approaches	Capacity Building	DNA barcodes and beyond: developing and utilizing community-wide DNA sequence data to understand ecology and evolution of tropical biodiversity	Maximizing the conservation value of tropical forests through sustainable forest management practices
	Ecosystem dynamics of Western Amazonia	Ecology of Neotropical and Paleotropical dry forests			Environmental services in Amazonia
	Understanding successional processes in tropical forests using long-term data: From populations to ecosystems			Marshalling existing biodiversity information to support tropical biology and conservation	Understanding fire regimes in tropical landscapes: climatic, ecological, and socio-economic considerations
21st June - Species Interactions					
15h30 - 16h30	Species Interactions	Ecology, evolution, conservation and restoration of the Brazilian Atlantic forest	Trophic downgrading in tropical terrestrial ecosystems	Measuring and predicting the impacts of drought across tropical forests in Africa and South America	
	Conservation, biology, and evolution of fig trees and their associated wasps		Conservation at the EDGE: ecology and evolution of the largest mammals in Neotropical forests	Understanding the increase in lianas in Neotropical forests	
	Network analysis in pollination and other mutualistic systems	Species diversification in tropical and temperate mountains		Pollination and breeding systems	
22nd June - Conservation & Sustainable Development					
15h30 - 16h30	Capacity Building	The ecology and evolution of plant defenses	Frontier governance in Mato Grosso, Brazilian Amazon: can market transformation and public policy tame agroindustrial expansion and postpone forest dieback?	Tree rings and climate change in the tropics: progress over the last decades	How tropical phenology can contribute to identify responses to human disturbance (climate change and fragmentation)?
	Changing drivers of deforestation	Avian malaria as a model of host-parasite interactions in tropical Environments	Opportunities and challenges facing conservation in the Brazilian Amazon: Human and ecological dimensions	Integrating plant eco-physiology into a whole vision of Tropical Forest function	Biodiversity of freshwater wetlands
	Management of tropical protected areas: responses to current and future threats	Avian ecology and conservation	Forest fragmentation	Environmental controls and the evolution of water use strategies in tropical plants	Ichthyology

ATBC 2012 – SCIENTIFIC PROGRAM

June 18 – Opening Session

Room Guaicurus

18h00 - 18h30	**Opening Session**
18h30 - 19h30	**Opening Conferences**
18h30 - 19h00	**Functioning of savanna ecosystems – local, regional and global interactions.** *Mercedes Bustamante*, Brazilian Ministry of Science and Technology & University of Brasilia, Brazil.
19h00 - 19h30	**The Pantanal: South-America's hydrological, biogeochemical and biogeographical turntable.** *Karl M. Wantzen*, University of Tours, CNRS UMR CITERES
19h30	***Welcome Cocktail***

June 19 - Evolution & Ecology of Neotropical Organisms and Ecosystems

Room Guaicurus

08h00 - 08h55 **Plenary Talk: Reconstructing the history of ecological assemblages at different spatiotemporal scales: an evolutionary approach.** Joel Cracraft, American Museum of Natural History, USA.

Room Guaicurus

09h00 - 10h30 ***(S04)*** **The Assembly and Evolution of the Amazonian Biota (Part I)**
Joel Cracraft (American Museum of Natural History, USA)
Lúcia G. Lohmann (Universidade de São Paulo, Brazil)
Amazonia is Earth's most iconic hotspot of diversity and endemism and, arguably, the most important terrestrial biome for its contributions to global systems ecology. To understand the importance and future of Amazonian biodiversity to Earth – Systems biology, it is crucial to place the present - day Amazonian biome in its historical context. Our understanding of how Amazonian biodiversity has been generated and assembled, taxonomically and ecologically remains surprisingly meager, as is knowledge about how Amazonian ecosystems have responded to historical environmental change. There are also major uncertainties about the paleogeography, age, and extent of its immense fresh - water and terrestrial ecosystems. Some models posit that these ecosystems were established in the Middle to Late Miocene, whereas others see them as being Plio - Pleistocene in age. Resolving these historical uncertainties, as well as addressing how biotas within Amazonia have responded to past paleogeographic and climatic events, have major implications for understanding past and present environmental change, for predicting the future of ecosystem structure and function at different spatiotemporal scales, and for understanding the generation and maintenance of biodiversity.

09h00 - 09h15 ***S04.OC.01***
Savanna development in northern South America during the Neogene
Jaramillo C, Romero I, Leite F, Restrepo A, Escobar J

09h15 - 09h30 ***S04.OC.02***
Molecular phylogenetics and the patterns and toming of diversification of Toucans (Family: Ramphastidae)
Weckstein JD, Patel S, Lutz HL, Patané JSL, Bates JM, Aleixo A

09h30 - 09h45 ***S04.OC.03***
Relating spatial and temporal patterns of bird diversification to landscape evolution in Amazonia
Ribas CC, Aleixo A, Capurucho JMG, Coelho LA, Ritter CD, Cracraft J

09h45 - 10h00 ***S04.OC.04***
Timing of avian diversification in the Amazon basin: role of large rivers as vicariant forces
Naka L, RTB

10h00 - 10h15 ***S04.OC.05***
Amazonia River Barriers: The Primates of the Rio Branco - Rio Negro Region
Boubli JP, Ribas C, Silva MNF, Farias I, Alfaro JL

10h15 - 10h30 ***S04.OC.06***
Historical biogeography of Amazonian and Atlantic Forest gladiator frogs (Hypsiboas)
Zeidler L, Carnaval A, Rodrigues MT, Fouquet A, Moritz C

Room Terena

09h00 - 10h30 ***(S23)*** **Ecosystem Function, Ecology and Evolution of Bats: A Tribute to the Memory of Elisabeth K.V. Kalko (Part I)**
Kevina Vulinec (Delaware State University, USA)
Marco A. R. Mello (University of Ulm, Germany)
Maria João Ramos Pereira (University of Aveiro, Portugal)
Paulo Estefano Dineli Bobrowiec (Instituto Nacional de Pesquisas da Amazônia, Brazil)
Thomas H. Kunz (Boston University, USA)
Ecosystem function and services are the ecological and economical benefits provided by biodiversity. Bats are recognized for their role in herbivore control, seed dispersal, and pollination. However, they have other important functions, such as hosts to several infectious agents that can affect human health. In this symposium, we will present state - of - the - art research on the ecological and economic impact of ecosystem functions and services rendered by bats in the tropics, aiming at discussing their role in a broad context and at pointing out new research directions. In addition, the symposium will also highlight the latest ecological vanguard in tropical bat research. In particular, a series of talks revolving around the ecology, evolution, and conservation of tropical bats will highlight the value of bats in human - altered ecosystems.

09h00 - 09h15 ***S23.OC.01***
The ornaments of life: evolution of bat - plant interactions
Fleming TH, Kress WJ

09h15 - 09h30 ***S23.OC.02***
Acoustic analysis of fruit bat activity in fragmented Central Amazonian forest
Vulinec K, Bobrowiec PE, Garcia Mayes I

09h30 - 09h45 ***S23.OC.03***
Are Neotropical bats good indicators of environmental disturbances?
Bernard E, Cunto G

09h45 - 10h00 ***S23.OC.04***
Bat diversity along a human disturbance gradient on Mount Kilimanjaro
Helbig M, Böhning - Gaese K, Tschapka M, Kalko EKV

10h00 - 10h15 ***S23.OC.05***
Fragmentation effects on Neotropical bats: lessons learned from Panamanian land - bridge islands
Meyer CFJ

10h15 - 10h30 ***S23.OC.06***
Monitoring program and conservation of the bat fauna associated to the Santo Antonio hydroelectric dam, western Brazil
Tavares V da C, Bobrowiec PED

Room Karuha

09h00 - 10h30 ***(S37)*** **Social Dimensions of Tropical Conservation**
Seline Meijer (ICRAF, Malawi & University College, Dublin)
Miguel Martínez - Ramos (Universidad Nacional Autónoma de México, México)
Traditionally, conservation initiatives have used the biological sciences to deal with conservation problems and design policy and conservation programmes. Biological sciences are important to understand the ecosystem properties and the ecological, physiological, and genetic factors affecting the viability of natural populations of plants and animals. As such, it provides an important theoretical and empirical background to conservation issues. However, social, cultural, political, and economical factors play a key role in both the origin of the conservation problems, as well as in determining novel initiatives for conservation interventions and their success. Therefore, conservation efforts require to include not only biological knowledge to reach the conservation goals but they necessarily require to include knowledge emerging from humanities and social sciences. There is increasing recognition by conservation practitioners as well as scientists that conservation is as much about people as it is about ecosystems and biological processes. Nevertheless, the human dimensions of conservation issues are often overlooked in conservation science and practice. This symposium invites talks that focus on socio - ecological dimensions of tropical conservation issues and will provide a platform for social scientists and biological scientists to interact and discuss the potential for integration and collaboration between the different disciplines. The symposium will include talks approaching theoretical/conceptual issues as well as representative study cases.

09h00 - 09h15 ***S37.OC.01***
Conservation of frankincense forests in Ethiopia needs integration of social and natural sciences
Bongers F

09h15 - 09h30 ***S37.OC.02***
Interdisciplinary studies on ecosystem services
Balvanera P, Avila P, Caballero K, Carpenter S, Castellarini F, Castillo A, Cotler H, Folke C, Lazos E, Maass M, Mazari M, Moreno AR, Norström A, Tejera B, Siebe C, Ernest

09h30 - 09h45 ***S37.OC.03***
Perceptions, behaviour and environmental conservation in Malawi
Meijer SS, Nieuwenhuis M

09h45 - 10h00 ***S37.OC.04***
Do mythical dragons, dancing animals, and nature spirits prevent deforestation? Case studies in the Gambia, West Africa, and Sabah, Malaysian Borneo
Massey AA

10h00 - 10h15 ***S37.OC.06***
The ecosystem assessment approach: narrowing the gap between science and policy
Urquiza - Haas T, Koleff P, Sarukhán J

Room Kadiwéu 1

09h00 - 10h30 ***(S01)*** **Past, Present and Future of Tropical Ecosystems (Part I)**
Ilham Bentaleb (ISEM, France)
Kathy Willis (University of Oxford, UK)
Richard Oslisly (IRD, Cameroon)
Marie - Pierre Ledru (ISEM, France)
This interdisciplinary symposium covers worldwide tropical forest fragmentation history. Tropical forest resources are generally associated with the monsoon climatic system which guarantees agriculture feeding a significant part of the world's population. The effect of climate change on the monsoon seasonal cycle such as alterations in water cycle will put a threat on the populations of the emergent countries (IPCC, 2007). In addition practices of intensive exploitation of soils, water and forests contribute to accelerate the destruction of these natural resources and strongly questioned the traditional agricultural practices in front of modern strategies of intensive monoculture. For instance, though it is difficult to quantify the extent to which palm oil has been a direct cause of deforestation, demand is predicted to continue increasing and globally, most of the remaining areas suitable for planting are forested (Fitzherbert et al., 2008). However our knowledge on both regional history of the traditional culture crops (invasive species, resilience, resistance) and the physiological needs for cultivated plants is poor. This is a key issue to characterize their responses to both man and climate pressure as well as estimating the future impacts on human health, society and the environment. The objectives of this session are to use the past as a key to the future by reconstructing and comparing the variable response (e.g. adaptation abandonment) of cultural, technological and agriculture practices within the tropical forest belt to climate change and by assessing the impact of environmental change on food production and health. This symposium will promote discussion on advances and current issues on methods and tools (archeobotany i.e. starch grains, archaeology, new stable isotope proxies...) for reconstructing environmental, climatic and cultural changes and regional synthesis of history, science and cultural interpretation during the last millennia.

09h00 - 09h15 ***S01.OC.01***
Last millennia of the Tropical Moist Forest of Central Africa: forest or savanna?
Bentaleb I, Moreau M, Angot C, Wonkam Njonang CJ, Tovar C, Bietrix S, Aleman J, Martin C, Willis K, Brncic T, Ledru MP, Debret M, Droissart V, Ngomanda A, Favier C, Brémond L, Sebag D, Nguetsop F, Freycon V, Fontugne M, Oslisly, Maley J, Stévart T, Simo M

09h15 - 09h30 ***S01.OC.02***
A multiproxy approach to study the impact of past fire regimes on tropical vegetation woody cover
Aleman JC, Bentaleb I, Bietrix S, Blarquez O, Bremond L, Brenac P.A., Brossier B, Carcaillet C, Favier C, Gourlet - Fleury S, Maley J, Martin C, Oslisly R, Sansilvestri R, Sutra J

09h30 - 09h45 ***S01.OC.03***
Human impact on the west central Africa rainforest during the last 3000 years
Oslisly R, Bentaleb I, Favier C, Fontugne M, Coforchange C

09h45 - 10h00 ***S01.OC.04***
Land change in Colombia: a multi – Scaled analysis between 2001 and 2010
Sanchez AM, Aide M, Clark M, Etter A

10h00 - 10h15 ***S01.OC.05***
Cenozoic imprints on the phylogenetic structure of palm species assemblages in the New and Old World
Kissling WD, Eiserhardt WL, Baker WJ, Borchsenius F, Couvreur, TLP, Balslev H, Svenning J - C

10h15 - 10h30 ***S01.OC.06***
Predicting biome distribution responses to climate change: implications of savanna and forest as alternative stable states
Staver AC, Levin SA

Room Kadiwéu 2

09h00 - 10h30 ***(FS05)*** **Ant Ecology, Behavior and Conservation**
Chair: Paulo S. Oliveira (UNICAMP, Brazil)

09h00 - 09h15 ***FS05.OC.01***
Why do *Pheidole oxyops* ants place feathers around their nests?
Gomes IJMT, Santiago DF, Vasconcelos HL

09h15 - 09h30 ***FS05.OC.02***
Ant - preying dipteran larvae exploit a facultative mutualism between ants and *Qualea grandiflora* (Vochysiaceae)
Vidal MC, Sendoya SF, Oliveira PS

09h30 - 09h45 ***FS05.OC.03***
Vertical stratification of ant interactions within a panamanian tropical forest canopy mosaic
Ribeiro SP, Espírito Santo NB, Delabie JHC, Majer J

09h45 - 10h00 ***FS05.OC.04***
The effect of different fire regimes on arboreal ant diversity in a Neotropical savanna
Maravalhas J, Vasconcelos HL

10h00 - 10h15 ***FS05.OC.05***
Small – scale habitat fragmentation effects on litter - dwelling ants
Paolucci LN, Solar RRC, Sobrinho TG, Sperber CF, Schoereder JH

10h15 - 10h30 ***FS05.OC.06***
How much are the protected riparian forest areas effective for ant biodiversity conservation?
Campos RBF, Louzada J, Schoereder JH

10h30 - 11h00 ***Coffee Break***

Room Guaicurus

11h00 - 12h30 ***(S4)*** **The assembly and evolution of the Amazonian Biota (Part II)**
Joel Cracraft (American Museum of Natural History, USA)
Lúcia G. Lohmann (Universidade de São Paulo, Brazil)

11h00 - 11h15 ***S04.OC.07***
Timing and biogeography of *Bignonia* L. (Bignoniaceae): A predominantly Amazonian Clade
Zuntini AR, Lohmann LG

11h15 - 11h30 ***S04.OC.08***
The Brazil Nut family: a symbol of the Amazon
Mori SA, Dick C

11h30 - 11h45 ***S04.OC.09***
Origin and evolution of the Chrysobalanaceae family: insights into the evolution of plants in the Neotropics
Bardon L, Chamagne J, Dexter KG, Sothers CA, Prance GT, Chave J

11h45 - 12h00 ***S04.OC.11***
Ecological correlates of diversification rates amongst neotropical trees
Baker TR, Pennington T, Magallon S, Phillips O, Andrade A, Arroyo L, Bonal D, Brienen R, Feldpausch T, Honorio E, Huamantupa I, Laurance S, Arets E, Laurance W, Marimon B, Marimon Junior B, Monteagudo A, Prieto A, Amaral I, Ramirez F, Ramirez H, Rudas A

12h00 - 12h15 ***S04.OC.12***
Just how badly do we know the Amazon Flora?
Hopkins MJG

Room Terena

11h00 - 12h30 ***(S23)*** **Ecosystem Function, Ecology and Evolution of Bats: A Tribute to the Memory of Elisabeth K.V. Kalko (Part II)**
Kevina Vulinec (Delaware State University, USA)
Marco A. R. Mello (University of Ulm, Germany)
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Paulo Estefano Dineli Bobrowiec (Instituto Nacional de Pesquisas da Amazônia, Brazil)
Thomas H. Kunz (Boston University, USA)

11h00 - 11h15 ***S23.OC.07***
Bat - plant networks: small mutualistic worlds
Mello MAR

11h15 - 11h30 ***S23.OC.08***
Bats as pollen and seed vectors in the Pantanal, Brazil
Fischer E, Gonçalves F, Munin R

11h30 - 11h45 ***S23.OC.09***
Seed dispersal by bats in French Guiana and the Neotropics
Geiselman CK, Lobova TA, Mori SA

11h45 - 12h00 ***S23.OC.10***
Interindividual variations in use of space and fruit preferences of the bat *Sturnira lilium* (Chiroptera: Phyllostomidae) in a Cerrado area
Muylaert RL, Rogeri PK, Mello MARM

12h00 - 12h15 ***S23.OC.11***
Bat assemblages and parasites under different cattle ranching intensities on Pantanal, Brazil
Santos CF, Fischer E

12h15 - 12h30 ***S23.OC.12***
Differences in bat fly prevalence and mean intensities between Cerrado and Pantanal
Eriksson A, Fischer E, Graciolli G, Longo JM

Room Karuha

11h00 - 12h30 ***(S34)*** **Non - Timber Forest Promises? Connections and Disconnections between Conservation and Non - Timber Forest Products (NTFP)**
Terry Sunderland (CIFOR, Indonesia)
Cristina Baldauf (Universidade Federal do Semi - Árido, Brazil)
Non - timber forest products (NTFP) harvesting has been historically considered as an effective way to conciliate objectives of biodiversity conservation and livelihood enhancement. However, a recent review of NTFP studies showed that the ecological sustainability of harvesting is not the norm. The development of sustainable management systems for NTFP requires knowledge about both the ecology as well as the effects of management activities on natural populations. Literature has been vastly expanding in the past 15 years, but ecological aspects still remain understudied. In the symposium we will highlight the main gaps in scientific knowledge and discuss whether or not traditional ecological knowledge can provide valuable information in order to fill in the gaps and support the development of management plans for NTFP. Ecological knowledge is just one of the aspects to be considered, as the other dimensions of sustainability need to be taken into account as well. People who harvest forest products usually include NTFP as part of their subsistence strategies which can lead to the domestication of species and landscapes. Agroforestry systems are examples of cultural landscapes where NTFP can contribute to the food security of local communities. It is also imperative to understand the macroeconomic processes within harvesting activities operate, since management systems are influenced by market pressures that frequently, but not always, lead to resource depletion. Furthermore, the complexity of the issue also calls for a participatory approach with collaboration between multiple stakeholders. Developing a sustainable management plan for any NTFP will require the understanding of the synergies and trade - offs between different stakeholder opinions and also conservation objectives. For this reason, we are proposing this interdisciplinary symposium, which aims to discuss strategies to improve livelihoods and reduce anthropogenic pressure on harvested species.

11h00 - 11h15 ***S34.OC.01***
Non - timber forest products and conservation: what prospects?
Sunderland T, Ndoye O, Harrison – Sanchez S

11h15 - 11h30 ***S34.OC.02***
Not by scientists alone: scientific (des) information and the contribution of traditional ecological knowledge to forest management
Baldauf C, Nogueira DS, Troian L, Sunderland T

11h30 - 11h45 ***S34.OC.03***
Products of socio - biodiversity in southern Brazil: contribution to the debate on the political and economic dimension
Coelho de Souza G, Vieira da Silva C

11h45 - 12h00 ***S34.OC.04***
The effects of processing non - timber forest products and trade partnerships on people's well - being and forest conservation in Amazonian societies
Morsello C, Mallén IR, García VR

12h00 - 12h15 ***S34.OC.05***
Subsistence and commercialization: contributions of NTFPs to food security and nutrition
Powell B

12h15 - 12h30 ***S34.OC.06***
Opportunities and challenges in NTFP use, management, and conservation in the Brazilian Amazon
Shanley P, Serra M

Room Kadiwéu 1

11h00 - 12h30 ***(S01)*** **Past, present and future of Tropical Ecosystems (Part II)**
Ilham Bentaleb (ISEM, University of Montpellier, France)
Kathy Willis (University of Oxford, UK)
Richard Oslisly (IRD, Cameroon)
Marie - Pierre Ledru (ISEM, France)

11h00 - 11h15 ***S01.OC.07***
Tropical forest type affects aquatic ecosystem structure and function in Borneo
Yule CM, Jinggut T

11h15 - 11h30 ***S01.OC.08***
Reaching the forest canopy: towards mechanistic models for vascular epiphyte dynamics
Petter G, Cabral JS, Kreft H, Zotz G

11h30 - 11h45 ***S01.OC.09***
Tropical forest carbon balance in a warmer world: a critical review spanning microbial - to ecosystem – scale processes
Wood TE, Cavaleri MA, Reed SC

11h45 - 12h00 ***S01.OC.10***
Soil physical and chemical characteristics affect the structure and composition of secondary forests on Amazonian anthropogenic soils
Junqueira AB, Peña - Claros M, Jakovac ACC, Clement CR

12h00 - 12h15 ***S01.OC.11***
Comparative chloroplast DNA phylogeography of four tree species in western Amazonia
Honorio Coronado EN, Pennington RT, Dexter KG, Phillips OL

12h15 - 12h30 ***S01.OC.12***
Management, drought and fire interact to pre-adapt an eastern Bolivian forest to disturbance
Shenkin A, Putz FE

Room Kadiwéu 2

11h00 - 12h30 ***(FS06)*** **Seed Dispersal, Germination and Establishment**
Chair: Pierre - Michel Forget (Muséum National d'Histoire Naturelle, France)

11h00 - 11h15 ***FS06.OC.01***
Seed and fruit tradeoffs – the economics of seed packaging in Amazon pioneers
Bentos T, Mesquita R, Camargo J, Williamson B

11h15 - 11h30 ***FS06.OC.02***
Contribution of pollen and seed dispersal to gene flow of an understory herb across a heterogeneous landscape
Cortes M, Uriarte M, Bruna E, Kress WJ

11h30 - 11h45 ***FS06.OC.03***
Anthropogenic disturbance reduce seed dispersal quality of myrmecochorous plants in the Brazilian Caatinga
Leal LC, Leal IR

11h45 - 12h00 ***FS06.OC.04***
Farming the forest: positive feedbacks between food plants, hornbill abundance and seed arrival
Naniwadekar R, Datta A

12h00 - 12h15 ***FS06.OC.05***
Ecology of seed dispresal of the Palm *Oenocarpus bataua* in a forest of the eastern lowlands in Colombia
Rojas RMR, Franco QJN

12h15 - 12h30 ***FS06.OC.06***
Seedling assemblages and alternative successional trajectories in a fragmented landscape of tropical forest
Santo – Silva EE, Almeida WR, Melo FPL, Zickel CS, Tabarelli M

12h30 - 14h00 ***Lunch***

Room Guaicurus

14h00 - 15h30 ***(S02)*** **Neotropical Diversity Dynamics: Combining Phylogeography, Paleoecology, and Ecophysiology (part I)**
Craig Moritz (UC - Berkeley, USA)
Ana Carnaval (CUNY, USA)
Integration of paleoecological and phylogeographic perspectives are generating new insights into responses of species to late Quaternary climate change and how this has shaped current patterns of diversity. These studies also point to considerable heterogeneity in response among species and biomes, which presumably relate to differences in eco - physiological limits of species. These, in turn should inform projections of response to future climate change in now heavily modified landscapes. This symposium explores the developing connections across ecophysiology, paleo - ecology and phylogeography with emphasis on eastern Brazil, especially the Cerrado and Atlantic forest and connection to Amazonia.

14h00 - 14h15 ***S02.OC.01***
Slowly but surely, paleoecologists and phylogeographers integrate fossil, climate, and genetic data to understand diversity in the Atlantic forest hotspot
Carnaval AC, Ledru MP

14h15 - 14h30 ***S02.OC.02***
Last glacial and Holocene Atlantic and Amazon rainforest dynamics
Pessenda L, de Oliveira PE, Buso Jr. AA, Cohen MCL, Lorente FL, Borotti MA, Lima FTW

14h30 - 14h45 ***S02.OC.03***
Climatic stability in the Brazilian Cerrado: implications for biogeographical connections of South American savannas, species richness and conservation in a biodiversity hotspot
Costa GC, Werneck FP, Nogueira C, Colli GR, Sites JW

14h45 - 15h00 ***S02.OC.04***
Connections between the Atlantic and the Amazonian forest avifaunas represent distinct historical events
Batalha Filho H, Fjeldså J, Fabre PH, Miyaki CY

15h00 - 15h15 ***S02.OC.05***
Historical biogeography of the Antbirds (Thamnophilidae): investigating the splendid isolation of South America
Belmonte - Lopes R, Bravo GA, Reinert BL, Bornschein MR, Pie MR, Brumfield RT

15h15 - 15h30 ***S02.OC.06***
Phylogeography of an Atlantic Forest montane bird: genetic structure and population expansion
Ribeiro T da S, Maldonado - Coelho M, Silveira LF, Miyaki CY

Room Terena

14h00 - 15h30 ***(S23)*** **Ecosystem Function, Ecology & Evolution of Bats: A Tribute to the Memory of Elisabeth K.V. Kalko (Part III)**
Kevina Vulinec (Delaware State University, USA)
Marco Mello (University of Ulm, Germany)
Maria João Ramos Pereira (University of Aveiro, Portugal)
Paulo Estefano Bobrowiec (INCT, Brazil)
Thomas Kunz (Boston University, USA)

14h00 - 14h15 ***S23.OC.13***
Spatial variation in Amazonian bat and bird assemblages under contrasting flooding regimes
Ramos Pereira MJ, Beja P, Marques JT, Santos CD, Santana J, Palmeirim JM

14h15 - 14h30 ***S23.OC.14***
Frugivore and nectarivore ensambles in riparian habitats in Tropical Dry Forest: implications for conservation
Stoner KE, Zarazúa MC, Malvido JB, Cabadilla DLA, Añorve MYA, Herrera GLH, Arita HTW

14h30 - 14h45 ***S23.OC.15***
Use of space by the bat *Sturnira lilium* (Chiroptera: Phyllostomidae) in a heterogeneous Cerrado area
Rogeri PK, Muylaert RL, Mello MAR

14h45 - 15h00 ***S23.OC.16***
Why do females hang loose?
Condon MA

15h00 - 15h15 ***S23.OC.17***
Phyllostomid bats protein gut analysis by SDS - PAGE and their implication on feeding ecology
Gonçalves F, Fischer E, Macedo MLR

15h15 - 15h30 ***S23.OC.18***
Global patterns of phylogenetic turnover in bats
Peixoto FP, Braga PHP, Brito D, Diniz - Filho JAF

Room Karuha

14h00 - 15h30 ***(S29)*** **Human Disturbances and Novel Ecosystems: Prospects for Tropical Biodiversity and Ecological Services (Part I)**
Inara Leal (Universidade Federal de Pernambuco, Brazil)
Marcelo Tabarelli (Universidade Federal de Pernambuco, Brazil)
Tropical forest landscapes are subjected to unprecedented rates of human - induced environmental changes resulting in the proliferation of highly - modified species assemblages and ecosystems. Such novel ecosystems have emerged in response to biological invasion, proliferation of native species, species loss due to habitat fragmentation and species overexploitation, among other forces. In fact, novel ecosystems may be the predominant habitat across tropical regions even in the presence of net forest gain (i.e. forest transition). This perspective poses many questions relative to long - term persistence of tropical biodiversity and provision of ecological services in human - modified landscapes. While much has been elucidated about species loss and biological invasion in human - modified landscapes, the ultimate nature of novel ecosystems, as well as the threats and opportunities they represent remain obscure. In a nutshell key issues are: (1) the novel ecosystem concept: scope and relevance; (2) the forces driving the emergence of highly modified assemblages and altered ecosystems; (3) novel ecosystem: eradication, control or valorization; and (4) threats versus opportunities for native biodiversity and ecosystems services in human - modified landscapes. The symposium is offered as a cross section of researchers addressing these questions from various perspectives to develop new theoretical and applied insights required for a better understanding of the successional trajectory experienced by tropical ecosystems in human - modified landscapes and the future of tropical biodiversity.

14h00 - 14h15 ***S29.OC.01***
Human disturbances and novel ecosystems: prospect for tropical biodiversity and ecological services
Tabarelli M, Wirth R, Leal I

14h15 - 14h30 ***S29.OC.02***
Not all forests are created equal: tree species composition in primary, unplanted secondary, and communally restored cloud forests in Northwest Andean Ecuador
Wilson SJ, Coomes O

14h30 - 14h45 ***S29.OC.03***
Do novel forests have similar functioning to native secondary forests?
Fonseca da Silva J

14h45 - 15h00 ***S29.OC.04***
Prospects for modified forest ecosystems: selectively logged forests - and not secondary forests – Sustain high levels of tropical biodiversity
Gibson L, Lee TM, Koh LP, Brook BW, Gardner TA, Barlow J, Peres CA, Bradshaw CJA, Laurance WF, Lovejoy TE, Sodhi NS

15h00 - 15h15 ***S29.OC.05***
Effects of road paving and land tenure on forest value in the tri - national frontier region of southwestern Amazonia
Baraloto C, Barnes G, Duenas H, Kenji D, Rocha K, Rockwell C, Salimon C, Shenkin A, Silveira M, Southworth J, da Souza H, de Souza Moll I, Vasquez G, Perz S

15h15 - 15h30 **S29.OC.06**
Maintenance of tree species diversity in a strongly fragmented rainforest
Arroyo - Rodríguez V, Escobar F, Santos BA, Melo FPL, Tabarelli M

Room Kadiwéu 1

14h00 - 15h30 ***(S06)*** **Diversity and Ecology of the Pantanal (Part I)**
Pia Parolin (University of Hamburg, Germany)
Catia Nunes da Cunha (INAU Cuiabá, Brazil)
The Pantanal is the largest contiguous wetland in the world. It bears an immense diversity of organisms which are adapted to the extreme hydric changes in the annual cycle. Plants and animals have to cope with a regular change between flooding and drought, and even fire. A wide range of functional traits and adaptations has been evolved. Furthermore, this wetland fulfills many ecosystem services which are essential for the local people, mostly farmers, and the surrounding areas. The present symposium aims at giving insights into the status quo of the knowledge about the ecology of the Pantanal, and at highlighting the diversity of species and functions of this unique ecosystem.

14h00 - 14h15 ***S06.OC.01***
Floristic and structural aspects of seasonally flooded forests in the Pantanal and relations with flood pulse and fire
Damasceno - Junior GA, Pott A

14h15 - 14h30 ***S06.OC.02***
Environmental and spatial effects in the richness of trees and shrubs in meso – Scale spatial, Pantanal, Brazil
Costa CP, Cunha CN, Silva Júnior MC, Felfili JM

14h30 - 14h45 ***S06.OC.03***
Distribution, richness and turnover patterns of Poaceae in the Pantanal of Poconé, Mato Grosso
Rebellato L, Figueira JEC, Nunes da Cunha C

14h45 - 15h00 ***S06.OC.04***
Dendroecological studies of *Tabebuia aurea* and *Tabebuia heptaphylla* at the Pantanal of Mato Grosso State, Central - West Brazil
Leite PTP, Cunha CN, Schöngart J

15h00 - 15h15 ***S06.OC.05***
Phylogenetic structure of Southern Pantanal plant communities
Cunha NL, Santos BA, Delatorre M, Eriksson AF, Costa - Pereira R, Fischer E, Silveira M, Monteiro ECS, Lima JS, Nonato LM, Souza PR

15h15 - 15h30 ***S06.OC.06***
Cattle impacts on forest understory plant communities of the Pantanal
Santos MCA, Eaton DP, Damasceno - Junior GA, Keuroghlian A

Room Kadiwéu 2

14h00 - 15h30 ***(S38)*** **Animal Movement in Tropical Landscapes**
Cintia Cornelius (Universidade Federal do Amazonas, Brazil)
Jean Paul W. Metzger (Universidade de São Paulo, Brazil)
Movement is a key ecological process that is essential for the successful completion of many activities performed by animals during their life cycle, such as acquiring food, finding mates or suitable habitats. Movement patterns have also important evolutionary implications connecting populations in heterogeneous landscapes. Empirical knowledge about the movement process is essential to answer some important questions such as why, when, where and how animals move. Moreover, several behavioral processes such as dispersal or habitat selection are much better understood if movement behavior is studied in a spatially explicit framework. The goal of our symposium is to assemble a group of scientists working in tropical landscapes with a common interest in movement ecology that have used different approaches and tools to address questions related to how animals move in heterogeneous landscapes. During our symposium we intend to cover four main approaches for the study of movement: 1) movement behavior using telemetry and/or mark - recapture data (behavioral landscape ecology); 2) genetic and/or demographic approaches (landscape genetic approaches); and 3) statistical analysis and Bayesian modeling for the study of animal movement. Our final objective will be to identify research gaps in the movement ecology discipline and to identify elements that may significantly improve our understanding of animal population dynamics in heterogeneous landscapes in the Neotropical region.

14h00 - 14h15 ***S38.OC.01***
Functional connectivity quantified by demographic and genetic data explains species diversity in fragmented landscapes
Pardini R, Püttker T, Balkenhol N, Sommer S

14h15 - 14h30 ***S38.OC.02***
The role of sex, corridors and experience with fragmented landscapes on inter - patch dispersal movements
Awade M, Cornelius C, Candia - Gallardo C, Metzger JP

14h30 - 14h45 ***S38.OC.03***
What does 'being there' mean? Using individual - bird movements to help interpret site - occupancy results
Ferraz G, Rodriguez A, Straatmann T

14h45 - 15h00 ***S38.OC.04***
A population - level approach to dynamic modeling of movement between habitats
Rodriguez MA, Espírito Santo HMV

15h00 - 15h15 ***S38.OC.05***
How do Central Amazonian understory birds use a heterogeneous landscape? One picture from different angles
Mokross K, Stouffer PC, Powell LP, Wolfe JE

15h15 - 15h30 ***S38.OC.06***
Population connectivity in a naturally fragmented landscape: genetic structure and diversity in a white – Sand vegetation specialist bird species of the Amazon region
Cornelius C, Capurucho JM, Ribas CC, Borges SH, Metzger JP

15h30 - 16h30 ***Poster Session and Coffee Break***

(FS2) **Evolution and Ecology of Neotropical Organisms and Ecosystems**

FS02.P.01
Divergence and the evolution of reproductive isolation within the Hawaiian endemic tree, *Metrosideros polymorpha*
Stacy E, Johansen J, Morrison K, Sakishima T, Pillon Y

FS02.P.02
Life - history variation in long - lived cycad species from contrasting tropical forests
Gallego CL

FS02.P.03
Neotropical habitat transitions and evolution of morphological traits: A case study with *Anemopaegma* Mart. ex. Meisn. (Bignonieae, Bignoniaceae)
Calió MF, Winkworth RC, Lohmann LG

FS02.P.04
Efficacy of *Paullinea* sp. (Sapindaceae), in the alternative control of gastrointestinal nematodes, Minas Gerais state, Brazil
Morais - Costa F, Queiroz IR, Vasconcelos VO, Fonseca, LD, Paiva AV, Costa, MAS, Vieira TM, Martins MAD, Duarte ER, Lima WS

FS02.P.05
Canopy forest community structure in semideciduous montane forest dominated by *Eremanthus erythropappus* (DC.) MacLeish (Asteraceae)
Campos NR, Ribeiro SP

FS02.P.06
Neutral mean of deterministic samples: different individuals in similar species
Costa - Pereira R, Piatti L, Souza FL

FS02.P.07
Small scale genetic structure in *Euterpe edulis* Mart. (Arecaceae), a rainforest palm tree
Ramos RF, José J, Solferini VN

FS02.P.08
Using procrustes - based geometric morphometrics to detect dispersion patterns in *Erythrodiplax fusca* Rambur 1842 (Odonata: Libellulidae)
Meira AQ, Queiroz CS, Yotoko KSC

FS02.P.09
Seasonal flooding structuring small mammal communities in the Amazonia - Cerrado Ecotone
Fonseca C, Rocha RG, Ferreira E, Ramos Pereira MJ

FS02.P.10
Diet of the frog *Diaglena spatulata* in different succesional stages of a tropical dry forest
Ordoñez - Ifarraguerri A, Suazo - Ortuño I, Alvarado - Díaz J, Benítez - Malvido J

FS02.P.11
Community of amphibians and reptiles in the private reserve of Natural Heritage Cabeceira do Prata, Mato Grosso do Sul, Brazil
Duleba S, Ferreira VL

FS02.P.12
The geological influence on vascular epiphytes communities
Kersten RA, Waechter JL

FS02.P.13
Calcium and Thorns
Blumler MA

FS02.P.14
Demographic history of *B. pauloensis* reveals stable area in southeast of Brazil
Françoso E, Arias MC

FS02.P.15
The demography of *Araucaria angustifolia* in a grassland landscape
Paludo GF, Mantovani A, Reis MS, Bernardi AP, Cristofolini C, Montagna T, Steiner F, Duarte RI, Figueiredo LGU

FS02.P.16
Karyotype diversification in legumes of Dalbergieae tribe from several Brazilian plant formations
Forni - Martins ER, Polido CA, Moraes AP

FS02.P.17
Richness of endophyte fungi along a rain forest altitudinal gradient
Silva JM, Ladeira FA, Arruda Macedo HC, Oki Y, Fernandes GW

FS02.P.18
Differencial survival and recruitment of native and endemic species in retored fields: a long term study
Silva, ACDRS, Le Stradic S, Negreiros D, Pires ACV, Gatti R, Fernandes, GW

FS02.P.19
Nesting of *Podocnemis expansa* (Testudines: Podocnemididae) in the middle Solimões river, Amazonas, Brazil
Camillo CS

FS02.P.20
High intraspecific variability in Peccaries, *Pecar itajacu* (Artiodactyla: Tayassuidae) from Northernmost Amazonia and its importance for conservation
Luna MO, Silva Júnior AP, Da Silva NDV, Souza Junior HG, Knapp L, Chivers DJ, Cysneiros FJA, Mendes Pontes AR

FS02.P.21
Climatic fluctuations as motor for speciation processes in flightless *Saltatoria* (Insecta: Orthoptera): study on the flightless grasshopper genus *Parepistaurus*
Hemp C, Kehl S, Waegele JW, Hemp A

FS02.P.22
Leaf growth dynamics of two woody species in the Brazilian Cerrado
Dalmolin AC, Silva PR, Lobo FA, Antunes - Junior MZ, Dalmagro HJ, Rodríguez - Ortíz CE

FS02.P.23
From Brazil to the world: how *Eichhornia crassipes* conquered the planet
Parolin P, Rudolph B, Bartel S, Bresch C, Poncet C

FS02.P.24
Ecological aspects of *Langsdorffia hypogaea* Mart. (Balanophoraceae) in a Tropical Wet Forest
Guimarães CDC, Cornelissen TG

FS02.P.25
List of useful species of Cerrado in family farm in four cities in the State of Goiás, Brazil
Souza FM, Oliveira LSB, Encinas JMI

FS02.P.26
Morphological variation of banded Malayan coral snake (*Calliophis intestinalis*, Laurenti 1768) in Indonesia
Noer MI

FS02.P.27
Phylogeny of *Pteronymia* (Lepidoptera: Nymphalidae: Ithomiini) based on morphological characters
Mota LL, Willmott KR

FS02.P.28
The genus *Lippia* (Verbenaceae) in the neotropical region: patterns of geographical distribution and conservation
Salimena FRG, Múlgura ME

FS02.P.29
Urticaceae diversity and conservation in the State of São Paulo, Brazil
Gaglioti AL, Romaniuc - Neto S

FS02.P.30
Population structure and geographical distribution of the genus *Cecropia* (Urticaceae) in Sub - Amazon region of Brazil
Bueno PAA, Kim CE, Pie MR, Muschner VC

FS02.P.31
Landscape genetics of *Eremanthus erythropappus* (DC.) Macleish (Asteraceae)
Pádua JAR, Carvalho D

FS02.P.32
Genetic structure and diversity in two populations of polyploid *Tibouchina pulchra* Cogn. (Melastomataceae) in an altitudinal gradient in the southeast of Brazil
Brito VLG, Vigna BBZ, Souza AP, Sazima M

FS02.P.33
Evolution of South American Crop Domesticates: a Bolivian Center?
Blumler MA

***(FS5)* Ant Ecology, Behavior and Conservation**

FS05.P.01
Ant genera richness, abundance and composition among different successional stages in a Montane Forest in Southeastern Brazil
Leite AC, Castro FS, Souza RF, Campos RBF, Ribeiro SP

FS05.P.02
The role of plant cover and density in an arboreal ant community of rupestrian field
Queiroz ACM, Ribas CR

FS05.P.03
Ant (Hymenoptera: Formicidae) fauna of Panga Ecological Station: richness, habitat preference and geographic distribution.
Camacho GP, Vasconcelos HL, Pacheco R, Frizzo TLM, Campos RI, Powell S

FS05.P.04
Immediate effects of interspecific competition on ant assemblages: an exclusion experiment of two dominant species contrasting Australia and Brazil
Gomes IJMT, Campos, RI, Vasconcelos, HL, Andersen, AN

FS05.P.05
Canopy ant fauna along a natural succession gradient of Tropical Montane Forest
Silva PBG, Campos RBF, Fagundes R, Ribeiro SP

FS05.P.06
Correlates of ant species richness and composition in natural remnants of semideciduos forest in Central Brazil
Araujo B, Vasconcelos H, Camarota F

FS05.P.07
Initial responses of ant - fauna of Montane Forests to the passage of fire
Anjos DVS, Fagundes R, Ribeiro SP

FS05.P.08
Elaiosome traits influence the diaspore removal by keystone mutualist ants in the Caatinga vegetation
Leal LC, Correia M, Oliveira AFM, Leal IR

FS05.P.09
Interactions between ants and non - myrmecochorous fruits in species of *Miconia* (Melastomataceae) in a Neotropical savanna
Lima MHC, Silveira FAO, Oliveira EG

FS05.P.10
Efects of environmental complexity on predation risc exerted by ants
Leal CRO, Queiroz PS, Santos KCPS, Fonseca MB, Neves FS, Campos RI, Ribeiro SP

***(FS6)* Seed Dispersal, Germination and Establishment**

FS06.P.01
Presence of ambrosia beetles in mistletoe seeds: pre - or post - dispersal seed predation?
Ghizoni LP, Fadini RF, García AM

FS06.P.02
Microhabitat niche differentiation driven by germination traits and seed dispersal modes contributes to the maintenance of Neotropical high diversity communities
Silveira FAO, Robles NC, Sales NM, Godoy O, Fernandes GW, Valladares F, Lemos - Filho JP

FS06.P.03
Dispersion syndromes and life forms of herbaceous species as tools for the evaluation of resilience in dry forest areas
Silva ACCP, Ferreira EVR, Fabricante JR, Siqueira - Filho JA

FS06.P.04
***Attalea phalerata* inhibits seedling establishment?**
Monteiro ECS, Aranda R, Santos BA, Demczuk SDB, Carosini A, Labre JCC

FS06.P.05
Influence of anthropogenic disturbance on seedling establishment in nests of a keystone mutualist ant int the Caatinga vegetation
Arcoverde GB, Leal IR

FS06.P.06
Differential contribution of frugivores to seedling recruitment and the influence of microsite preference
Razafindratsima OH, Dunham AE

FS06.P.07
Survival and growth in response to prolonged submersion in tree seedlings of flooded Amazonian forests
Carmo WS, Franco AC

FS06.P.08
Germination and seedling development under water of nine tree species from Central Amazonian floodplains
Melo RB, Franco AC, Piedade MTF, Ferreira CS

FS06.P.09
Are all fruits the same? Fruit lipids and fruit choice by birds
Pizo MA, Guimarães Jr. PR, Vidal MM

FS06.P.10
Isolated native trees in tropical pastures: center of arrival of seeds
Carreira DC, Penha AS, Ferraz KMPMB

FS06.P.11
Seed predation and germination of *Peltogyne gracilipes* (Ducke) in three forest types on Maracá Island, Roraima, Brazil
Carvalho LCS, Nascimento MT, Barbosa RI, Castilho CV

FS06.P.12
Consumption of fruits by birds in tropical dry forests, Southeastern Brazil
Siqueira PR, Leite LO

FS06.P.13
Concentration of resources and attack of bruchineos in seeds of *Acrocomia aculeata* (Arecacea) in the Minas Gerais Cerrado
Pereira ACF, Mota GR, Faria ML, Cangussu LMB

FS06.P.14
A comparative study of germination responses of semiarid sandy coastal plain plants to different temperature and water regimes
Souza AC, Andrade ACS

FS06.P.15
High temperatures influence germination of four Fabaceae species in South Brazil
Silveira FS, Overbeck G

FS06.P.16
Effects of parasitism *Struthanthus flexicaulis* (Mart.) Mart. (Loranthaceae) on the germination of *Mimosa calodendron* Mart. (Fabaceae)
Gontijo ML, Mourão FA, Jacobi CM

FS06.P.17
Effect of pre - germination treatments and size on the germination of *Cobretum mellifluum* Eichler var. *mellifluum*
Veloso VHS, Nunes YRF, Veloso MDM, Dantas IM, Veloso JG

FS06.P.18
Germination of two Amazonian tree legumes (*Parkia multijuga* Benth. and *Parkia nitida* Miq.) based on a thermal time model
Moraes JN, Daibes LF, Frigeri RBC, Amoêdo SC, Cardoso VJM

FS06.P.19
Germination of *Theobroma cacao* L. as described by a thermal time model
Rosa D, Daibes LF, Frigeri RBC, Amoêdo SC, Cardoso VJM

FS06.P.20
The role of granivorous birds and rodents in post - dispersal seed removal in six Atlantic forest fragments
Menezes GR, Hasui E, Christianini AV

FS06.P.21
Stand structure and light, but not soil resources, drive the assembly of seedling communities in Tropical secondary forests through multivariate causal relationships
Breugel MV, Hall JS, Craven DJ

***(FS09)* Forest Restoration**

FS09.P.01
Landscape - level regeneration of landslides in the Sierra de Las Minas of Guatemala
La Quay - Velázquez G, Restrepo C

FS09.P.02
Soil restoration potential of four tree species in a seasonal tropical dry forest in Morelos, Mexico
Ceccon E

FS09.P.03
Restoration of Coastal sand dune vegetation degraded by buggys in Brazil
Pinto LHT, Ganade G

FS09.P.04
Short - term natural regeneration in restoration areas in southern Brazil
Ettrich DE, Silva MG, Bergamin RS, Zanini KJ, Machado RE, Santos AB, Rolim HM, Müller SC

FS09.P.05
Litter influence on nutrient dynamics and regeneration of native species under eucalipt plantations
Villela DM, Camara R, Duncan V, Nascimento MT

FS09.P.06
Tree community regeneration along an environmental gradient in a montane Araucaria forest in southern Brazil
Higushi P, Silva AC, Buzzi Junior F, Bento MA, Ferreira TS, Negrini M

FS09.P.07
Diameter structure of *Cupania vernalis* Cambess (Sapindaceae) regenerating compartment in a Montana Semideciduous Forest in Lavras – MG
Oliveira CDC, Higuchi P, Souza SCA, Fontes MAL, Oliveira - Filho AT, Medeiros CO, Souza JPM

***(S01)* Past, Present, and Future of Tropical Ecosystems**

S01.P.01
Intercontinental spatiotemporal variations in tropical tree mortality regimes
Groot NE, Gloor M, Phillips OL, Lewis SL, Purves DW, Vanderwel MC

S01.P.02
Species spectral signature: a new tool for discriminating species in the Amazon forest
Durgante FM, Higuchi N, Vicentini A

S01.P.03
The carbon balance of a rubber plantation in tropical China
Song Q, et al.

S01.P.04
Fossil and modern pollen from Madeira river basin in the area of influence of the Ahe Jirau, Rondônia State (Brazil)
Meneses MENS, Pires EF, Da Rosa AAS, Mendes LAS, De Paula MJ, Ferreira FE, Benício JRW

S01.P.05
Spatial heterogeneity of soil respiration in a 20 - ha tropical rainforest plot
Zhang YP et al.

S01.P.06
Vegetation, biodiversity, fire and climate dynamics in tropical and subtropical South American ecosystems during the late Quaternary
Behling H

S01.P.07
Biodiversity partitioning of Tropical communities: comparing savanna and rainforest in Brazil and Indonesia
Schmidt FA, Ribas CR, Sobrinho TG, Clough Y, Schoereder JH, Tscharntke T

S01.P.08
Palynological study of Holocene sediments from Bananal Island, Tocantins State, Brazil
Mendes LAS, Meneses MENS, Pires EF, Rodrigues AK, Behling H

S01.P.09
History of paleofires associated with past human disturbances in the lowland semi - deciduous forests of Central Africa
Gillet JF, Doucet JL

S01.P.10
***Pericopsis elata* (Harms) Meeuwen in Cameroon: ecological check - up of an endangered timber species**
Bourland N, Kouadio YL, Lejeune P, Sonké B, Feteke F, Gillet JF, Doucet JL

S01.P.11
Multi – scale factor effects in ant diversity
Schmidt FA, Ribas CR, Schoereder JH

S01.P.12
Factors driving altitudinal richness gradients of plant species in tropical mountains
Cabral JS, Kreft H

***(S02)* Neotropical Diversity Dynamics: Combining Phylogeography, Paleoecology, and Eco - physiology**

S02.P.01
Phylogeographic structure of *Leptolobium dasycarpum* (Leguminosae, Papilionoideae) in the Brazilian Cerrado
Fava WS, Macedo MLR, Lorenz - Lemke AP

S02.P.02
Transferability of nuclear and chloroplast microsatellite markers for conservation genetic studies of the inselberg bromeliad species *Vriesea botafogensis* Mez.
Salgueiro F, Vergueiro A, Wasserman A, Travassos BG, Menezes – Salgueiro AD

S02.P.03
Drivers of diversity per genus in South - American crickets (Orthoptera: Grylloidea)
Sperber CF, Mól AP, Kloss TG

S02.P.04
Study of the critical temperature maximum in arthropods biomes
da Silva AC, Ribeiro PL, Navas CA

S02.P.05
Phylogeographic study of *Araneus guttatus* and *A. omnicolor* (Araneae: Araneidae)
Peres EA, Solferini VN

S02.P.06
Testing ecological niche models to predict the anuran species occurrence in fragmented landscape
Sacramento M, Hasui E, Coelho MTP, Silva VX

***(S04)* The Assembly and Evolution of the Amazonian Biota**

S04.P.01
Aspects of richness and biogeography of *Euglossini* (Hymenoptera: Apidae) in Brazil
Mesquita - Neto JN, Moreno MIC

***(S06)* Diversity and Ecology and the Pantanal**

S06.P.01
Visitors of a saline lake in the Pantanal - Nhumirim Reserve Experimental Station
Labre JCC, Pena JCC, Labbé - Bellas R, Aranda R

S06.P.02
Analysis of relatedness of white - lipped peccary (*Tayassu pecari*) herds from the Brazilian Pantanal
Rufo DA, Biondo C, Keuroghlian A, Miyaki CY

S06.P.04
Dynamics of Cambarazal - a monodominant flooded forest of *Vochysia divergens* Pohl (Vochysiaceae) - in North Pantanal, Mato Grosso State, Brazil
Santos JM, Nunes da Cunha CF, Pedroni

S06.P.05
General aspects of breeding biology in Vespertilionidae species (Chiroptera; Mammalia)
Vicente EC, Taddei VA, Jim J, Versute EM

S06.P.06
Phenology and diversity of Amphibians in a region of the Southern Pantantal, Brazil
Ferreira VL, Strüssmann C

S06.P.07
Interspecific relations between hematophagous bats *Diaemus youngi*, (*Anodorhynchus hyacinthinus*) and *Ramphastos toco* in macaw nest cavity sites
Vicente EC, Silva GF, Fontoura FM, Guedes NMR

S06.P.08
Fish species richness in marginal lakes of Miranda River, MS, Pantanal
Labre JCC, Guimarães T F R, Hukama DL, Pena JCC, Labbé - Bellas R

S06.P.09
Nucleation process promoted by mistletoe in the Brazilian Pantanal and Caatinga
Ribeiro EMS, Meiado MV

S06.P.10
Experimental evaluation of *Attalea phalerata* seed predation along a gradient of palm density in the Brazilian Pantanal.
Andreazzi CS, Cordeiro JLP, Abreu AVG, Fragoso JMV, Oliveira LFB

S06.P.11
Pantanal flooding pulse affects metazoan parasite assemblages of two host fishes
Campião KM, Cruz DA, Baraldi LR, Costa - Pereira R, Tavares LER

S06.P.12
Visibility and rate predation of artificial nests in Southern Pantanal
Araújo TG

S06.P.13
Metazoan endoparasite communities of *Leptodactylus chaquensis* and *L. fuscus* (Anura: Leptodactylidae) in Pantanal, Mato Grosso do Sul, Brazil
Paiva F, Dias OT, Tavares LER

S06.P.14
How well adapted are cleaning birds to cattle in the Pantanal, Brazil?
Dainezi DIS, Laps RR

S06.P.15
Evaluation of niche and neutral effects on anuran communities in the southern Pantanal, Brazil
Sugai JLMM, Terra JS, Ferreira VL, Raizer J

S06.P.16
Effect of sampling quality on patterns in community structure: a case of lizards in the Pantanal, Brazil
Terra JS, Sugai JLMM, Ferreira VL, Raizer J

S06.P.17
Community structure of tadpoles in the Pantanal, Nhecolândia region
Hokama DL, Souza FL, Lemos AA, Leão TRF, Rossa - Feres DC

S06.P.18
Do foreign mammals contribute to maintain populations of the tick *Amblyomma cajennense* in the Brazilian Pantanal?
Ramos VN, Piovezan U, Franco AHA, Szabó MPJ

S06.P.19
Fitness and reproductive system of two *Dyckia* species from ironstone outcrops, Pantanal, Brazil
Paggi GM, Brandão BB, Alves DF, Ignácio FCS, Miranda GM, Arruda KCR, Ishii IH, Lorenz - Lemke AP

S06.P.20
Flower number and bird florivory in *Inga vera* (Fabaceae) trees in the Pantanal
Leonel B

S06.P.21
Use of artificial nests by Hyacinth macaws (*Anodorhynchus hyacinthinus*) in the Pantanal: fourteen years of management for conservation
Guedes NMR, Silva GF, Fontoura FM, Toledo MCB

S06.P.22
Nesting behavior of the Neotropical coati (Carnivora: *Nasua nasua*) in southern Pantanal.
Saab JL, Mourão GM

S06.OC.08
Richness and abundance of birds and terrestrial small mammals in Cambarazal forests of different ages
Aragona M, Pinho JB

***(S23)* Ecosystem Function, Ecology, and Evolution of Bats: A Tribute to Elisabeth K.V. Kalko**

S23.P.01
Preliminary assessment of the long - term impacts of fragmentation upon Neotropical bats
Rocha R, et al.

S23.P.02
Are caves the dead ends for seeds dispersed by frugivore bats?
Castro AB, Fadini RF

S23.P.03
Predation risk effects of predator identity on the foraging behaviours of frugivorous bats
Piccoli GCO, Breviglieri CPB, Uieda W, Romero GQ

S23.P.04
Bats ensure pollination of *Bauhinia rufa* (Bong.) Steud. (Leguminosae) in fragmented landscape of Cerrado in São Paulo State, Southeastern Brazil
Santos RA, Uieda W, Galetto L, Guimarães E

S23.P.05
Bats contribute to the germination of *Cecropia pachystachya* seeds
Carvalho N, Raizer J, Fischer E

S23.P.06
The use of Phyllostomids bats as indicators of habitat disruption in a Tropical Dry Forest
Falcão LAD, Leite LO, Espírito – Santo MM

S23.P.07
Feeding habits divergence and the composition of Phyllostomid bat assemblages in the Cerrado - Pantanal savannas
Munin RL, Fischer E

S23.P.08
Influence of vegetation structure on a bat community in the South Pantanal floodplain, Brazil
Silveira M, Tomas W, Bordignon M

S23.P.09
Diversity of bats in the western edge of the Pantanal floodplain, Brazil
Silveira M, Inforzato I, Tomas W, Bordignon M

S23.P.10
Resource shared between frugivorous bat (Chiroptera) in urban Cerrado fragments
Carvalho N, Raizer J, Dai GM, Ferreira MMF

S23.P.11
Bat fauna in an urban forest fragment in the Juiz de Fora municipality, Minas Gerais State, Brazil
Nobre PH

S23.P.12
Identification of suitable areas in Brazilian Atlantic Forest for the rare and threatened nectar bat *Lonchophylla bokermanni*
Teixeira TSM, Weber M, Lorini ML, Vale MM

S23.P.13
Sexual dimorphism and allometry in fruit bats
Francisco AL, Santos CF, Fischer E

(S29) **Human Distrubances and Novel Ecosystems: Prospect for Tropical Biodiversity and Ecological Services**

S29.P.02
Phytoremediation and biomonitoring of water contaminated by chromium: symptoms and internal morphology evaluation of *Polygonum punctatum* Elliot.
Marra NNS, Lembi RC, Marques AR, Guimarães AMF

S29.P.03
Patch area and micro - topography importance for microclimatic expressivity of small fragments at fragmented Atlantic rainforest landscape, Brazil
Mendes MGF, Pinto SRR, Tabarelli M

S29.P.04
Plant species diversity and the desertification process at Caatinga northeast Brazil
Mazzochini GG, Costa GC, Ganade G, Fonseca CR

S29.P.05
Percentage of impervious surface soil as indicator of urbanization impacts in Neotropical streams.
Fogaça FNO, Gomes LC, Higuti J

S29.P.06
Higher litter species richness does not enhances litter decomposition
Muscardi DC, Schoereder JH, Sobrinho TG, Sperber CF

S29.P.07
The use of biodegradable geotextile in degraded areas: assessment of the seeds and fiber characteristics for application
Marques AR, Santos FS, Urashima DC, Rodrigues CS

S29.P.08
Effect of Amazon Dark Earth on the composition, diversity and density of herbs, ferns, and palms on an amazonian forest in Bolivia
Quintero - Vallejo EM, Klomberg Y, Bongers F, Poorter L, Toledo M, Peña - Claros M

S29.P.09
Effects of human disturbance on seasonally dry tropical forests
Ribeiro Neto JD, Sousa LC, Arcoverde GB, Pereira KRF, Leal IR

S29.P.10
Abundance and richness of tomato pollinators in different landscape contexts
Franceschinelli EV, Elias MAS, Bergamini LL, Moreira GL, Morais JM, Bergamini BAR, Silva Neto CM

S29.P.11
Land use and the recovery of a Caatinga tropical dry forest: from plant species composition to assemblage functional diversity
Sobrinho M, Machado I, Tabarelli M, Lopes A

S29.P.12
Patch attributes and the functional profile of tree assemblages in a fragmented landscape of Atlantic forest
Mendes MGF, Arroyo - Rodríguez V, Almeida WR, Pinto SRR, Pillar VD, Tabarelli M

S29.P.13
Mesuring the rarity of tree species of Myrtaceae in Santa Catarina
Fontana C, Custodio T, Boudreault CG, Sevegnani L, Meyer L

S29.P.14
Biometry, foliar and root anatomy of *Aspilia grazielae* Santos from mined and preserved areas of Urucum Complex, Corumbá, MS, Brasil
Avanci Jr. JA, Pinho AP, Pott A, Scremin - Dias E

S29.P.15
Evaluation of seed bank favoring the natural regeneration of mined areas in Corumbá, Mato Grosso do Sul, Brasil
Avanci Jr. JA, Pinho AP, Pott A, Abreu NF

S29.P.16
Silvicultural potential for the management of secondary forests in Bajo Calima (Colombian Biogeographical Chocó)
Melo O, Rodríguez N

S29.P.17
Information about invasive alien plants In Brazil: a nonrestrictive revision on academic works
Dias J, Mantoani MC, Baptista R, Fonte MAAM, Torezan JMD

S29.P.18
Human disturbances and the proliferation of plant diseases: Part II
Benitez - Malvido J

S29.P.19
Impact of human pressure on cacti populations from Brazilian Caatinga
Ribeiro EMS, Leal IR

S29.P.20
Pre - Colombian human transformation of forest landscapes of the Purus - Madeira interfluve, Central Amazonia
Levis C, Clement CR, Costa FRC

S29.P.21
Anthropogenic disturbance do not influence seed protection in nests of a keystone mutualist ant in the Caatinga vegetation
Arcoverde GB, Leal IR

S29.P.22
Effects of anthropogenic disturbances on ant species and functional composition in Caatinga vegetation
Oliveira FMP, Leal IR

S29.P.23
Anthropogenic actions decrease amphibian populations
Franco - Belussi L, Leite GB, Freitas JS, Oliveira C

S29.P.24
Ecological, evolutionary and anthropogenic determinants of the distribution of threatened amphibians in the Western Hemisphere ecoregions
Brum FT, Gonçalves LO, Bastazini VAG, Cappelatti L, Carlucci MB, Debastiani VJ, Salengue EV, Seger GDS, Both C, Bernardo – Silva JS, Loyola RD, Duarte LDS

S29.P.25
Human - managed savanna woodlands can contribute to biodiversity conservation and human well - being in the Western Ghats biodiversity hotspot, India
Mandle L, Ticktin T

***(S34)* Non - Timber Forest Promises? Connections and Disconnections Between Conservation and Non - Timber Forest Products (NTFP)**

S34.P.01
Effect of bark collection on population structure of *Enantia chloranta* (syn *Anninckia chloranta*.) (Oliv.) Setten & P.J.Maas in a Tropical lowland rainforest of southwestern Nigeria
Amusa T, Jimoh S

S34.P.02
Conservation status and abundance of the endemic palm *Butia capitata* (Mart.) Becc.: a non timber forest product of the Cerrado
Sá D, Scariot A

S34.P.03
The effects of land use, management and ecological gradients on population regeneration and density of *Caryocar brasiliense*, a neotropical savanna tree specie
Giroldo AB, Scariot A

S34.P.04
The ecological effects of Harvesting non - timber forest products from natural forests: a review of the evidence
Brites A, Morsello C

S34.P.05
Assessment of ecological potential for management of non - timber forest products in Central Amazonian floodplain forests
Sposito RC

S34.P.06
Inter - annual variation in *Carapa guianensis* seed production: implications for the management of an important non - timber forest product
Castilho C, Tonini H, Pereira MRN, Marques IL

***(S37)* Social Dimensions of Tropical Conservation**

S37.P.01
Threats of urbanisation to indigenous biological diversity: assessment of impacts on the remaining Iroko (*Milicial excelsa* Welw C.C. Berg.) in Ibadan, Oyo State, Nigeria
Babalola FD, Borokini TI, Onefeli AO

S37.P.02
How much worth is a jaguar alive? Alternatives to conflicts between livestock and large cats in the Brazilian Pantanal
Concone HVB, Azevedo FCC

S37.P.03
Conflicts between traditional populations and parks in a Tropical Dry Forest region of Brazil: are conservation units of restricted use effective for conservation?
Anaya F, Barbosa RS, Espírito – Santo MM

S37.P.04
Belief systems, land tenure and customary conservation in Malaysian Borneo
Massey AA

Room Guaicurus

16h30 - 18h00 ***(S02)*** **Neotropical Diversity Dynamics: Combining Phylogeography, Paleoecology, and Eco - Physiology (Part II)**
Craig Moritz (UC - Berkeley, USA)
Ana Carnaval (Citu University of New York, USA)

16h30 - 16h45 ***S02.OC.08***
Narrow endemism in the central corridor of the Atlantic forest
Moritz C, Carnaval A, Damasceno R, Waltari E, Sass C, Oza, A, Tonione, M, Zeidler, L, Strangas, M, da Silva, C, Amaro, R, Pellegrino, K, Geurgas, S, Zamudio, K, Velo - Anton, G, Rodrigues, M

16h45 - 17h00 ***S02.OC.09***
Adjustments of physiology on long and short timescales: implications for species distribution
Navas CA

17h00 - 17h15 ***S02.OC.10***
Integrating physiology, modeling and phylogeography of Atlantic forest lizards at multiple scales
Damasceno RP, Carnaval AC, Rodrigues M, Rocha P, Sass C, Moritz C

17h15 - 17h30 ***S02.OC.11***
A mechanistic model linking niche theory, community ecology and biogeographical patterns in tropical ecosystems
Cabral JS, Wiegand K, Kreft H

17h30 - 17h45 ***S02.OC.12***
Climate change and temperature tolerance in endemic Hawaiian picture - winged *Drosophila* on the slopes of Mauna Loa Volcano, Hawaii Island
Price DK, Uy K, Eldon J

17h45 - 18h00 ***S02.OC.07***
Atlantic forest plant phylogeography
Freitas LB

Room Terena

16h30 - 18h00 ***(S24) Piper*: a Model Genus for Tropical Ecology and Evolutionary Studies**
M. Alejandra Jaramillo (CIMAD, Colombia)
Eloisa Lasso (Smithsonian Tropical Research Institute, Panamá)
Piper, is one of the largest genera of flowering plants and a prominent element in tropical forests. *Piper* is unique presenting high species richness at a global, regional and local level. *Piper* species have been largely studied by ecologists that take advantage of their conspicuity in the understory providing: large numbers for statistical analysis and ease of collection and experimentation. More recently phylogenetic analyses of the whole genus have provided an important evolutionary framework to study the evolution of species. Following the initiative taken by Lee Dyer in 2004 with the book: *Piper. A model genus for studies of evolution, chemical ecology, and trophic interactions.* We would like to offer an update on the topics covered in the book, provided a recent growth in studies in the group. New studies continue focusing in the importance of chemistry in the ecology of *Piper* but extend in their geographic coverage, and focus on the importance of chemistry for fruit dispersal as well as herbivore defense. Besides those we have a set of emerging evolutionary studies using phylogenetics and population genetics approaches. During the symposium we will highlight the importance of *Piper* for understanding ecological and evolutionary processes in the tropics. Furthermore this symposium will provide the opportunity for many researchers working on the group to plan joint and more comprehensive studies as well inspire others, especially students.

16h30 - 16h45 ***S24.OC.01***
Molecular phylogenetics and the role of ecology and geography in species diversification of Neotropical *Piper* subgenus *ottonia*
Molina - Henao YF, Jaramillo MA

16h45 - 17h00 ***S24.OC.02***
Chemical ecology of seed dispersal and fruit defense in *Piper*
Whitehead SR

17h00 - 17h15 ***S24.OC.03***
Evaluating pollen flow in *Piper*; are their pollinators lazy or is clonality interfering with mating success?
Lasso E, Bermingham E

17h15 - 17h30 ***S24.OC.04***
Linking community phylogenetic and functional diversity with herbivory in a tropical ecosystem
Room zar D, Marquis JR

17h30 - 17h45 ***S24.OC.05***
Complex relationships between host use and diversification across three trophic levels in two Neotropical forests
Wilson JS, Forister ML, Dyer LA, O'Connor JM, Burls K, Feldman CR, Jaramillo MA, Miller JS, Rodriguez - Castaneda G, Tepe EJ, Whitfield JB, Young B

17h45 - 18h00 ***S24.OC.06***
Metabolic puzzles in *Piper* species
Kato MJ

Room Karuha

16h30 - 18h00 ***(S29)*** **Human disturbances and novel ecosystems: prospects for tropical biodiversity and ecological services (Part II)**
Inara Leal (UFPE, Brazil)
Marcelo Tabarelli (UFPE, Brazil)

16h30 - 16h45 ***S29.OC.07***
Conserving biodiversity in secondary tropical forests: constrains and possibilities
Martinez - Ramos M, Balvanera P, Bongers F

16h45 - 17h00 ***S29.OC.08***
Old and novel ecosystems in the southern Brazilian grassland biome
Pillar VD

17h00 - 17h15 ***S29.OC.09***
Can a single herbivore species make a difference? Leaf - cutting ants as promoters of novel neotropical forests.
Wirth R, Leal IR

17h15 - 17h30 ***S29.OC.10***
Interactive effects of anthropogenic disturbance and invasion: fire, invasive ants and native ant diversity in New Caledonia
Andersen AN, Berman M

17h30 - 17h45 ***S29.OC.11***
Effects of habitat fragmentation on avian disease and vector communities in tropical rainforests
Laurance S

17h45 - 18h00 ***S29.OC.12***
Ecological restoration efforts to mitigate biotic homogenization in human - modified tropical landscapes
Brancalion P

Room Kadiwéu 1

16h30 - 18h00 ***(S06)*** **Diversity and ecology of the Pantanal (Part II)**
Pia Parolin (University of Hamburg, Germany)
Catia Nunes da Cunha (INAU Cuiabá, Brazil)

16h30 - 16h45 ***S06.OC.07***
Cattle impacts on native mammals and birds visiting fruiting trees in southern Pantanal forests
Keuroghlian A, Eaton DP, Santos MCA, Desbiez A, Sada D

16h45 - 17h00 ***S06.P.03***
Structure of two monodominant communities and association with soil and flooding in the Pantanal, Brazil
Amador GA, Damasceno - Junior GA, Shibuya PS

17h00 - 17h15 ***S06.OC.09***
Drivers of mammalian diversity in the northern Pantanal
Bastazini VAG, Luz XBG, Hoffman GS, Oliveira LFB, Kindel A

17h15 - 17h30 ***S06.OC.10***
Conservation benefits of rotational grazing for Pantanal wetlands
Eaton DP, Keuroghlian,A, Santos, MCA, Lima, JVB

17h30 - 17h45 ***S06.OC.11***
Pasture management and maintenance of habitat and species diversity: perspectives for the conservation of the Pantanal
Nunes da Cunha C, Junk WJ

17h45 - 18h00 ***S06.OC.12***
Behavioral responses to simulated predator presence on black howler monkeys (*Allouata caraya*) in southern Pantanal
Araújo, TG, Demczuk SDB, Hokama DL, Leonel B

Room Kadiwéu 2

16h30 - 18h00 ***(FS09)*** **Forest restoration**
Chair: Julieta Benitez - Malvido (UNAM, Mexico)

16h30 - 16h45 ***FS09.OC.01***
Gender matters! A clue to untangle regeneration processes and mechanisms in tropical dry forests
Benitez - Malvido J, Méndez - Troribio M, Gónzalez - DiPierro AM, Quesasa M

16h45 - 17h00 ***FS09.OC.02***
Nurse plant effect is driven by shade in a subtropical coastal dune: implications for restoration practices
Castanho CT, Prado PI

17h00 - 17h15 ***FS09.OC.03***
Short - term vegetation regeneration after fire in tropical and subtropical grasslands
Fidelis A, Silva DR, Blanco CC, Pivello VR

17h15 - 17h30 ***FS09.OC.04***
Nurse plants are not enough: insights on restoration of Brazilian Semi - Arid vegetation
Paterno GBC, Ganade GMS, Basso FA, Filho JAS

17h30 - 17h45 ***FS09.OC.05***
Restoration of *Mauritia flexuosa* swamps in the Peruvian Amazon
Miller C

17h45 - 18h00 ***FS09.OC.06***
Multitaxa diversity in restored rainforests
Ganade G, Corso G, Fonseca CR

Room Guaicurus

18h00 - 18h55 **Plenary Talk: Responses of the tropical forest to stressful situations: past for future?** Marie - Pierre Ledru, IRD Institut des Sciences de l'Evolution - Montpellier, France.

June 20 – Community Ecology & Function

Room Guaicurus

08h00 - 08h55 **Plenary Talk: The historical assembly of ecological communities.** Robert E. Ricklefs, University of Missouri – St. Louis, USA.

Room Guaicurus

09h00 - 10h30 ***(S10)* Ecosystem Dynamics of Western Amazonia (Part I)**
Dr. Imma Oliveras (University of Oxford, UK)
Prof. Yadvinder Malhi (University of Oxford, UK)
Western Amazonia has been shown be different from Central and Eastern Amazonia in many aspects. For example, there are differences in edaphic and geological patterns between Western and Eastern Amazonia (Higgins et al. 2011; Quesada et al. 2011), which result in differences in forest composition, dynamics and productivity. However, most Amazonian research on ecosystem processes has been focused on Central and Eastern Amazonia (Peres et al. 2010), and, although research in Western Amazonian forests has increased over the last decade, published results are still scarce. The goal of this Symposium is to bring together different expertise working on the Western Amazon with the aim of highlight recent advances in the understanding of Western Amazonian ecosystem processes, understanding the state of current scientific knowledge, identifying research challenges and enhancing multidisciplinary scientific collaboration. We hope to synthesise the talks in a Special Issue in an international journal.

09h00 - 09h15 ***S10.OC.01***
Long - term Andean uplift controls productivity in Amazonian forests
Higgins M, Asner G, Perez E, Elespuru N, Tuomisto H, Ruokolainen K, Alonso A

09h15 - 09h30 ***S10.OC.02***
Is the Amazon rainforest adequately represented in terrestrial biosphere models?
Galbraith DR, Malhi Y, Doughty C, Castanho A, Quesada B, Levine N, Christoffersen B, Imbuzeiro H, Costa MH, Moorcroft P, Phillips O

09h30 - 09h45 ***S10.OC.03***
The impact of drought on carbon dynamics in Western Amazonian forests
Doughty C, del Aguila Pasquel AJ, Metcalfe DB, Halladay K, Girardin CAJ, Amezquita FFF, Malhi Y

09h45 - 10h00 ***S10.OC.04***
Carbon productivity, allocation and cycling in lowland and montane forests in Amazonia and the Andes
Malhi Y, Doughty C, Metcalfe DB, Girardin CAJ, Aragão LEOC, Silva Espejo JE, Salinas N, Huaraca Huasco W, Zimmerman M, Meir P

10h00 - 10h15 ***S10.OC.05***
Spatial and seasonal variation of above ground net primary productivity along an elevation transect, Peruvian Andes
Girardin CAJ, Malhi Y, Mamani M, Feeley K, Rapp J, Aragão LEOC, Silva - Espejo JE, Silman M, Salinas N, Metcalfe DB

10h15 - 10h30 ***S10.OC.06***
Ecosystem exchange of CO2 and CH4 between West Amazonian fertile forest and the atmosphere
Domingues TF, Zaragoza - Castells, J, Rocha, HR, Grace, J, Meir, P

Room Terena

09h00 - 10h30 ***(S08)*** **Evolution, Ecology, and Conservation of the Cerrado: New Directions, New Approaches (Part I)**
Emilio Bruna (University of Florida, USA)
Isabel Belloni Schmidt (IBAMA, Brazil)
Heraldo Vasconcelos (Universidade Federal de Uberlândia, Brazil)

The South American savannas known as the *Cerrado* are a globally - recognized biodiversity hotspot and have also played a pivotal role in Brazil's emergence as a global economic power. The *Cerrado's* historical importance for agriculture, coupled with Brazil's increasing prominence in the global soy and biofuels markets, has also made the *Cerrado* one of the most threatened ecosystems in South America - - over 50% has been converted to agriculture or pastures and the remainder is highly fragmented. The upsurge in national and international interest in the *Cerrado*, coupled with the large number of participants expected at ATBC 2012 that live and conduct research in the region, makes the Bonito meeting the ideal forum in which to prominently highlight cutting - edge research by Cerrado biologists and conservationists. We are proposing a symposium highlighting cutting - edge research on the evolution, ecology, and conservation of the *Cerrado*. The scientists and practitioners listed below are notable for moving the study of the *Cerrado* in new directions with their advanced and multi - disciplinary approaches. Furthermore, because they are addressing questions that are relevant throughout the tropics – the maintenance of species diversity, climate change, the effects of nitrogen deposition, protected area management – we expect that their presentations will also interest the many ATBC attendees working outside of the Cerrado region. In light of the symposium's focus and the location of ATBC 2012, we felt it was particularly important to highlight the efforts of Brazilian scientists (8 of the 12 speakers are from Brazil). We also made an effort to include scholars at the early stages of promising careers (6 of the 12 speakers are recent PhD's) and from a diversity of institutions including NGO's, government agencies, and universities.

09h00 - 09h15 ***S08.OC.01***
The evolutionary history of the Cerrado flora
Simon MF, Pennington T

09h15 - 09h30 ***S08.OC.02***
Small - mammal diversity in the Brazilian Cerrado: patterns of alpha and beta diverstiy across habitat types
Vieira EM, Mendonça AF, Palma ART

09h30 - 09h45 ***S08.OC.03***
Plant demography in political, agricultural, and biological hotspot
Bruna EM

09h45 - 10h00 ***S08.OC.04***
Leaf herbivory and decomposability in cerrado plants
Vasconcelos H, Silva LVB, Costa AN, Bruna EM

10h00 - 10h15 ***S08.OC.05***
Temporal patterns of fruit color and contrasts in a cerrado – Savanna plant community
Camargo MGG, Cazetta E, Schaefer HM, Morellato LPC

10h15 - 10h30 ***S08.OC.06***
Rainfalls does not explain nutritive plant status differences between two communities from the core and periphery of the Brazilian savanna vegetation
Souza MC, Habermann G, Morellato LPC, Menzel A, Franco AC, Haridasan M, Araújo JF

Room Karuha

09h00 - 10h30 ***(S41)*** **Capacity Building and Empowerment in Tropical Ecology and Conservation: How Can we Make Tropical Conservation Research and Practice more Effective?**
Beth A. Kaplin (Antioch University New England, USA)
Kayla Cranston (Antioch University New England, USA)
Adriana Bravo (American Museum of Natural History, USA)

Biodiversity conservation in tropical countries has been going on for decades, with millions of dollars coming from western countries to support conservation initiatives. Most of these activities are initiated by international organizations, and often are managed by individuals from foreign countries. Recent research suggests that while protected areas have succeeded at slowing tropical deforestation rates, biodiversity loss continues despite these efforts. Although many international conservation organizations have the stated mandate or mission to build local capacity for biodiversity conservation, many tropical countries still rely primarily on expertise from abroad to initiate and manage biodiversity conservation projects and initiatives. Furthermore, relatively few conservation research publications are first authored by individuals from tropical countries, and few projects are initiated by local individuals or organizations. Why is this situation persisting after so many years? Would tropical conservation be more effective and sustainable if capacity were greater in these countries? What is capacity building actually? This symposium brings together individuals involved in various aspects of capacity building and empowerment for the goal of enhancing conservation in tropical ecosystems. Presentations in this symposium will explore the meaning of capacity building and empowerment, implementation approaches and methods, case studies, and evaluation. There will be time allotted following presentations for a discussion among presenters and audience members in a panel format to explore the ideas raised in the presentation, and to come to some consensus about the role and implementation of capacity building efforts.

09h00 - 09h15 ***S41.OC.01***
Why do we need more emphasis on capacity building for effective biodiversity conservation? A call to action
Kaplin BA

09h15 - 09h30 ***S41.OC.02***
Strengthening training for biodiversity conservation through partnerships of educators and practitioners
Porzecanski AL, Bravo A, Valdés - Velásquez A, Sterling E, Bynum N, Cortez C, Aguilera G, Aguirre L, Arellano MA, Arnillas C, Arrascue A, Arteaga L, Castañeda L, Dávila B, Domic E, Galarza I, Grados J, Grybowski S, Huici S, La Torre MA, Martinez J, Mendez F

09h30 - 09h45 ***S41.OC.03***
Fostering human wellbeing to effectively conserve biodiversity
Cranston KA

09h45 - 10h00 ***S41.OC.04***
Building capacity from the ground up: a place - based collaborative conservation case study from Indonesia
Parker JP

10h00 - 10h15 ***S41.OC.05***
The Tropical Conservation & Development Program: an innovative training platform to address multi – Scalar and multi - disciplinary challenges of conservation and development in the Tropics
Loiselle B, Sampaio PD

10h15 - 10h30 ***S41.OC.06***
Documenting 50 Years of Tropical Biology through the Eyes of OTS and ATBC
Losos EC

Room Kadiwéu 1

09h00 - 10h30 ***(S16)*** **DNA Barcodes and Beyond: Developing and Utilizing Community - Wide DNA Sequence Data to Understand Ecology and Evolution of Tropical Biodiversity (Part I)**
Andrew Jones (Oregon State University, USA)
Nathan Swenson (Michigan State University, USA)
The global revolution in high throughput DNA sequencing proposes many challenges and opportunities for tropical biologists. The low cost and feasibility of generating genome scale data now makes it practical to consider sequencing genomes for any given species and, as a result, entire communities. What kinds of questions can be answered using molecular genetic data from entire communities and how will this change our understanding of the ecological and evolutionary mechanisms that give rise to and maintain tropical diversity? How does incorporating evolutionary information about phylogenetic relatedness of species within a community improve our understanding of tropical diversity? How will molecular data help us to understand extremely complex networks of food webs and ecological interactions found in tropical ecosystems? We propose to bring together a group of early career and established ecologists and evolutionary biologists working at the interface of the lab and field who are using molecular genetic data from *entire species assemblages* to address questions regarding to origin and maintenance of tropical biodiversity. The proposed symposium is clearly in strong agreement with the theme of this year's ATBC meeting "Ecology, Evolution, and Sustainable use of Tropical Biodiversity" as it will directly address both ecological and evolutionary questions within a single symposium, make connections between the two, and offer insight into conservation issues facing tropical biodiversity. We have contacted 10 speakers who have accepted our invitation. This group is working with plants, animals, fungi and several talks will explore interactions between groups. These researchers are working in Central American, South American, African, and Asian tropics.

09h00 - 09h15 ***S16.OC.01***
Plant DNA barcodes and community phylogenies: how highly - resolved evolutionary relationships aid the understanding of community assembly
Erickson D, Kress WJ

09h15 - 09h30 ***S16.OC.02***
The phylogenetic contribution to forest plot functional diversity: a study from neotropical and asian temperate and tropical forest plots
Swenson NG

09h30 - 09h45 ***S16.OC.03***
Phylogenetic turnover in tropical tree communities - testing evolutionary and ecological hypotheses on species assembly rules at contrasting spatial scales
Hardy OJ, Duminil J, Kuzmina M, Thomas DW, Kenfack D, Chuyong GB, Parmentier I, Couteron P, Munoz F, Ramesh BR, Pélissier R

09h45 - 10h00 ***S16.OC.04***
eDNA metabarcoding: high throughput taxa identification
Taberlet P

10h00 - 10h15 ***S16.OC.05***
Spatial structure of the plant community at Nouragues, French Guiana: preliminary insights from a metabarcoding survey
Chave J, Schimann H, Taberlet P

10h15 - 10h30 ***S16.OC.06***
Below ground tropical tree species and phylogenetic diversity accessed through DNA barcoding and massively parallel sequencing.
Jones FA

Room Kadiwéu 2

09h00 - 10h30 ***(S36)*** **Maximizing the Conservation Value of Tropical Forests Through Sustainable Forest Management Practices (Part I)**
Plinio Sist (CIRAD, France)
Marielos Peña Claros (Wageningen University, The Netherlands)
Over the past 50 years, deforestation of tropical forests has increased at such an alarming rate that the long term sustainability of these valuable resources is in question. The loss of one of the richest and most ecologically important ecosystems in the world has become a major international concern. Uncontrolled harvesting, including over harvesting and poor practices, has now been recognized as an important cause of forest degradation and deforestation. Sustainable forest management is, however, recognized as a major tool to conserve continuous and large area of forests. Sustainability is indeed central to conservation efforts in "working" landscapes where natural resource management, biodiversity conservation, and maintenance of ecosystem goods and services are shared priorities. In tropical forests from which scattered trees of marketable species are harvested selectively for their timber, attainment of the goal of sustainable management should include maintenance of the full range of ecosystem goods and services and biodiversity, as well as sustaining timber yields. It is now recognized that most of tropical forests harvested for timber will certainly not totally recover within the relatively short rotation cycle authorized in most of tropical countries forest policy. While some forest scientists believe that production forest can provide goods and services to both local actors and the society, others believe that only protected areas can ensure the full preservation of one of the richest ecosystem on earth. The truth might lay in between, depending on forests structural and environmental characteristics and management intensity, with some forests being probably more resilient to disturbance than others. In this symposium we bring together several study cases to assess how different are logged areas from primary forests in terms of biodiversity and provision of ecosystem services to assess if we are managing to maintain conservation values in selectively logged areas. This symposium aims to debate the following question: How are managed tropical forests different from primary ones?

09h00 - 09h15 ***S36.OC.01***
The effect of logging and silviculture on forest dynamics and biodiversity
Peña - Claros M, Toledo M, Carreño Rocabado G, Licona JC, Alarcón A, Ascarrunz N

09h15 - 09h30 ***S36.OC.02***
Long term Impact of logging on carbon storage and tree diversity in the Amazon Basin
Sist P, Mazzei L, Blanc L, Ruschel A, Rossi V, Kanshiro M

09h30 - 09h45 ***S36.OC.03***
The impacts of logging on carbon storage in SE Asia
Pinard MA

09h45 - 10h00 ***S36.OC.04***
Logging rules in tropical rainforests need considering the environmental context to limit their impact on biodiversity – Evidence from the CoForChange project in Central Africa
Gourlet - F S, Fayolle A, Bayol N, Mortier F, Freycon V, Gillet JF, Doucet JL, Bentaleb I, Yongo O, Coste S, Engelbrecht B, Gond V

10h00 - 10h15 ***S36.OC.05***
The effect of selective logging on genetic diversity of two Amazonian species with contrasting ecological and reproductive characteristics
Vinson C, Kanashiro M, Azevedo VCR, Maues MM, Harris SA, Boshier DH

10h15 - 10h30 ***S36.P.01***
Adaptation of *Dipterocarp* species in logged over forest (LOA) of a tropical rainforest at Pt Sari Bumi Kusuma Forest, Central Kalimantan, Indonesia
Widiyatno W

10h30 - 11h00 ***Coffee Break***

Room Guaicurus

11h00 - 12h30 ***(S10)*** **Ecosystem dynamics of Western Amazonia (Part II)**
Imma Oliveras (University of Oxford, UK)
Yadvinder Malhi (University of Oxford, UK)

11h00 - 11h15 **S10.OC.07**
High - yield oil palm expansion spares land at the expense of forests in the Peruvian Amazon
Gutierrez - Velez VH, Defries R, Pinedo - Vasquez M, Uriarte M, Padoch C, Baethgen W, Fernandes K, Lim Y

11h15 - 11h30 ***S10.OC.08***
Changing fire regimes in the Peruvian Andes: implications for tropical montane cloud forests dynamics
Oliveras I, Malhi Y, Urquiaga E, Kala J, Quintana JA, Zamora F, Lizarraga N, Quispe - Roldan K, Roman - Cuesta RM

11h30 - 11h45 ***S10.OC.09***
Effects of different land - uses on soil organic C pools in the Peruvian tropical forests
Oliver V, Teh YA, Oliveras I

11h45 - 12h00 ***S10.OC.10***
Dung beetles as indicators of land use change and implications for conservation in the Brazilian Amazon
Solar RRC, Oliveira VHF, Frazão FS, Louzada JNC, Barlow J, Ferreira JN, Schoereder, JH, Gardner TA

12h00 - 12h15 ***S10.OC.11***
Allometric models for estimating above - and below - ground biomass in Amazonian forests at São Gabriel da Cachoeira in the upper Rio Negro, Brazil
Lima AJN, Suwa R, Ribeiro GHPM, Kajimoto T, dos Santos J, Silva RP, Souza CAS, Barros PC, Hideyuki N, Ishizuka M, Higuchi N

12h15 - 12h30 ***S10.OC.12***
Composition and structure of the herbaceous community in three areas of the Southern Amazon
Paixão E, Nunes da Cunha C, Costa FRC

Room Terena

11h00 - 12h30 ***(S08)*** **Evolution, Ecology, and Conservation of the Cerrado: New Directions, New Approaches (Part II)**
Emilio Bruna (University of Florida, USA)
Isabel Belloni Schmidt (IBAMA, Brazil)
Heraldo Vasconcelos (Universidade Federal de Uberlândia, Brazil)

11h00 - 11h15 ***S08.OC.07***
Carbon stocks estimates in Cerrado and Pantanal private reserves, Mato Grosso do Sul State, Brazil
Camargo G, Gonçalves F, Casarin JC

11h15 - 11h30 ***S08.OC.08***
Climate change, agriculture and conservation in the Cerrado and why it can be the next deforestation hotspot in Brazil
Lapola DM

11h30 - 11h45 ***S08.OC.09***
The effects of climate change on distribution and conservation of cerrado birds
Marini MA, Barbet - Massin M, Lopes LE, Jiguet F

11h45 - 12h00 ***S08.OC.10***
Demographic effects of road proximity and food availability on populations of a Neotropical herbivore in the Brazilian Cerrado
Vieira - Neto, EHM, Bruna, EM, Vasconcelos, HL

12h00 - 12h15 ***S08.OC.11***
Why the Cerrado needs prescribed fire
Hoffmann, WA

12h15 - 12h30 ***S08.OC.12***
Non - timber forest products and fire management as tools for Brazilian Cerrado conservation - research priorities
Schmidt IB

Room Karuha

11h00 - 12h30 ***(S42)*** **Ecological Research in Latin America: Advances, Critical Gaps and Prospects**
Thomas M. Lewinsohn (ABECO – Brazilian Association for Ecological Science and Conservation, Brazil)
This symposium is an overview of the current status of ecological research in the Neotropical region. We will bring together presidents of Latin - American ecological societies to present a succinct overview of ecology in their countries, addressing some common issues. Two further presentations will address patterns of international collaboration revealed by coauthorship networks of publications on Neotropical ecology, and collaborative research in Costa Rica. Speakers will consider questions such as: (1) key historical and institutional landmarks; (2) current institutional profile (universities / research institutes / NGOs etc); degrees awarded; production; key strengths, weaknesses, necessities (infrastructure, funding, etc); (3) key research themes, highlighting larger integrated / longterm projects; national or large – Scale regional mapping, surveys, collections, if any; (4) major national / international links; and (5) application of ecological research to national environmental problems and policy. Presentations will be selective in facts and figures; instead, the symposium is intended: (1) to offer an enlightening panorama of the development and current condition of ecological research in a representative cross – Section of the region; (2) to highlight both singularities and commonalities within the region; (3) to propose ways of strengthening intraregional collaborations based on common interests and also exploring complementary capacities; and (4) to consider possibilities of enhancing the quality, scope and applicability of Neotropical ecological research.

11h00 - 11h15 ***S42.OC.01***
Ecological science in Brazil – a brief overview and current issues
Lewinsohn TM

11h00 - 11h15 ***S42.OC.02***
Ecological science in Chile: current status and interfaces with society
Broitman BR

11h30 - 11h45 ***S42.OC.03***
Actions, challenges and perspectives from AsAE (Asociación Argentina de Ecología)
Galetto L

11h45 - 12h00 ***S42.OC.04***
Ecological science in Mexico – a brief overview and current issues
López - Portillo J

12h00 - 12h15 ***S42.OC.05***
Ecological science in Costa Rica: a meeting point for the Americas
Losos EC

12h15 - 12h30 ***S42.OC.06***
Cross - national patterns of productivity and collaboration by Latin American ecologists
Hahn W

Room Kadiwéu 1

11h00 - 12h30 ***(S16)*** **DNA barcodes and beyond: Developing and utilizing community - wide DNA sequence data to understand ecology and evolution of tropical biodiversity (Part II)**
Andrew Jones (Oregon State University, USA)
Nathan Swenson (Michigan State University, USA)

11h00 - 11h15 ***S16.P.02***
Fern phylogenetic differentiation in a tropical forest: the role of life forms structuring community
Mortara S, Talora DC, Amorim AM

11h15 - 11h30 ***S16.OC.08***
Testing the role of ecology and life history in structuring genetic variation across a landscape: A comparative ecophylogeographic approach
Paz A, Ibañez R, Lips KR, Crawford AJ

11h30 - 11h45 ***S16.P.03***
Phylogenetic diversity in rock outcrop plant communities in Southeastern Brazil
Colmenares STL, Rosado BHP, de Mattos EA

11h45 - 12h00 ***S16.OC.10***
Spider trait evolution: unraveling the role of habitat structure, spatial scale and phylogeny
Gonçalves – Souza T, Romero GQ, Cottenie K

12h00 - 12h15 ***S16.OC.11***
What do arthropods tell us about niche evolution in the neotropics?
Murienne J

12h15 - 12h30 ***S16.OC.12***
Untangling phylogenetic and geographic effects on host plant ranges of phytophagous insects
Jorge LR, Almeida - Neto M, Almeida AM, Prado PI, Lewinsohn TM

Room Kadiwéu 2

11h00 - 12h30 ***(S36)*** **Maximizing the Conservation Value of Tropical Forest Through Sustainable Management Practices (Part II)**
Plinio Sist (Cirad, France)
Marielos Peña Claros (Wageningen University, The Netherlands)

11h00 - 11h15 ***S36.OC.08***
Arrested succession of indigenous species in exotic tree plantations in a severely fragmented Afromontane landscape
Thijs KW, Aerts R, Van de Moortele P, Musila W, Pellikka P, Gulinck H, Muys B

11h15 - 11h30 ***S36.OC.09***
Effects of selective logging on forest structure and tree diversity in two eastern coastal rain forests of Madagascar
de Gouvenain R, Silander JA, Laurie H, Ratsirarson J

11h30 - 11h45 ***S36.OC.10***
Dung beetles respond to selective logging and land - use change in the tropical lowlands of Sri Lanka: implications for conservation
Kudavidanage EP

11h45 - 12h00 ***S36.OC.11***
Timber offtake and selectivity in logging operations of northern Amazonia
Laufer J, Michalski F, Peres CA

12h00 - 12h15 ***S36.OC.12***
Distribution of hollow trees in forest managed for timber in eastern Amazonia
Eleuterio AA

12h30 - 14h00 ***Lunch***

Room Guaicurus

14h00 - 15h30 ***(S11)*** **Understanding Successional Processes in Tropical Forests Using Long - Term Data: From Populations to Ecosystems (Part I)**

Robin Chazdon (University of Connecticut, USA)
Miguel Martínez - Ramos (Universidad Nacional Autónoma de México, México)

Chronosequence and long - term plot - based studies are complimentary research approaches to studying tropical forest succession. Understanding key successional processes such as species and stem turnover, species demography, and effects of dominant species on community structure, successional pathways and ecosystem properties require analysis of long - term data gathered from permanent plots. NeoSelvas is an international collaborative project that is developing novel ways of combining both approaches to enhance our understanding of ecological succession in abandoned pastures and agriculture fields, which are becoming dominant in tropical landscapes around the world. The project is based on continuing studies of long - term plots established in Manaus, Brazil, NE Costa Rica, and Chiapas, México. The first eight papers in this symposium present results from these long - term plots. Four posters address patterns and processes emerging from successional responses of tropical plant populations and communities to human and natural disturbances.

Oral presentations focus at three hierarchical levels: populations, communities, and ecosystems, examining patterns, processes and mechanisms of succession within and across these levels. Lohbeck and Boukili present studies on successional changes in functional traits of woody species in Mexican and Costa Rica sites. Finegan presents multi - decadal data on population trends of trees in relation to species differences in tree functional attributes, stem density, and phylogenetic relatedness. In the Manaus sites, Mesquita describes effects of climate variation on biomass dynamics, whereas Jakovak describes effects of light on seedling growth during succession. Longworth explores how land use history affects species dominance patterns and the long - term dynamics of tree communities. Norden describes a new modeling approach that merges chronosequence models with dynamic data in all three study areas to predict changes in stand - level community variables. Balvanera discusses changes in ecosystem functions and services during succession in wet and dry tropical secondary forests of Mexico. Four additional studies examine forest succession in large blowdowns in the Brazilian and Peruvian Amazon (Chambers), forest regeneration and restoration in Atlantic forests of Brazil (Rodríguez, Engelman Machado), and leaf litter patterns across a successional gradient of dry forest (Mendes Alves). Collectively, these presentations provide new insights into mechanisms and impacts of successional change and the diversity of successional pathways within and across tropical forest regions.

14h00 - 14h15 ***S11.OC.01***
Plant functional traits and the slow - fast continuum along successional gradients of Mexico: do dry and wet tropical forests show parallel trait continua?
Lohbeck M, Tauro A, van den Elzen E, Meave J, Lebrija - Trejos E, Romero E, Poorter L, Martínez - Ramos M, Paz H, Bongers F

14h15 - 14h30 ***S11.OC.02***
Successional convergence in functional traits and species composition of trees in Costa Rican wet forests
Boukili V, Chazdon R

14h30 - 14h45 ***S11.OC.03***
Successional age and light effects on seedling growth in alternative successional sequences in the Central Amazon
Jakovac ACC, Bentos TV, Mesquita RCG, Williamson GB

14h45 - 15h00 ***S11.OC.04***
Long - term tree population change in secondary rain forests and the effects of stand and population density, functional diversity and phylogenetic relatedness
Finegan B, Chazdon RL, Letcher SG

15h00 - 15h15 ***S11.OC.05***
Convergence and divergence in alternative successional pathways in Central Amazonia
Williamson GB, Mesquita RCG, Longworth JB, Bentos TV

15h15 - 15h30 ***S11.OC.06***
Beyond chronosequences: spatio - temporal models of successional vegetation change in three Neotropical forests
Norden N, Chazdon R, Bongers F, Finegan B, Martínez - Ramos M, Mesquita R, Williamson B

Room Terena

14h00 - 15h30 ***(S09)*** **Ecology of Neotropical and Pantropical Dry forests (Part I)**
Cristina Martínez - Garza (Universidad Autónoma del Estado de Morelos, México)
Eduardo Pérez García (Universidad Nacional Autónoma de México, México)
Geraldo Wilson Fernades (Universidade Federal de Minas Gerais, Brazil)

In the drier tropical areas around the World different tree and shrub communities are found, which are variously known as Miombo, Caatinga, Cerradão, Selva Baja Caducifolia, among others names. Many of these forest communities have been grouped under the concept of tropical deciduous forest (TDF or seasonally dry tropical forest). Among these TDFs, there are important differences not only in physiognomy, phenology and floristic composition, but also in their ecological drivers. For example, the occurrence of fire as well as the variation in precipitation levels and duration of the rainy season can be decisive in the particular ecology of each of these systems. However, few efforts have been made to comprehensively evaluate the main similarities and differences of these ecosystems for the correct drawing of conclusions regarding their ecology. The aim of this symposium is to present studies concerning the ecology and floristics of dry forests of Africa, Asia and the Americas in order to discuss the main similarities and differences. Particularly, this comparison is crucial in the context of the future climate changes and the accelerated rates of destruction of the original TDFs, to develop common strategies for conservation and restoration. In this symposium, we include research in several dry forests regarding floristics, reproductive biology, succession and restoration ecology. We will close the symposium with a discussion on the ecology that shares dry forests of the World.

14h00 - 14h15 ***S09.OC.01***
Analyzing the boundaries between Nearctic and Neotropical floras: biogeographical insights from the tropical dry forest of southern Mexico
Pérez - García EA, Meave JA

14h15 - 14h30 ***S09.OC.02***
Natural and manipulated succession in a Mexican dry forest: recovering functional biodiversity
Martínez - Garza C, Osorio M, Valenzuela D, Alcala R, Mariano N, Orozco L

14h30 - 14h45 ***S09.OC.03***
Fragmentation impacts on reproduction, pollination and genetic diversity in tropical forest's trees
Rosas F, Quesada M, Aguilar R, Ashworth L, Rosas - Guerrero V, Sayago R, Lobo J, Herrerias Y, Sanchez G

14h45 - 15h00 ***S09.OC.04***
The potential for the maintenance of native biological diversity in agricultural systems of a seasonally dry tropical region of Mexico
Meave JA, Pérez - García EA, Lebrija - Trejos E, Flores - Rodríguez C, Mena - Gallardo A, Heredia - Morales AC, Romero - Romero MA, Bongers F

15h00 - 15h15 ***S09.OC.05***
Arthropod communities, vegetation structure and seasonality in a Mexican Tropical Dry Forest
Illescas, J., Bonfil C.

15h15 - 15h30 ***S09.OC.06***
Plant communities in a forest – Savanna complex of north - central Nigeria, a comparison with dry deciduous forests of central India
Saha S, Rehila MY, Tiseer AF

Room Karuha

14h00 - 15h30 **Beyond Paradise II: Research Priorities for Tropical Biology and Conservation (2013 - 2022), a New Initiative Co – Sponsored by ATBC and OTS**
Chair: Richard Corlett, ATBC President (National University of Singapore, Singapore)

The tropical regions of the world support a large majority of the earth's terrestrial biodiversity and play a leading role in global carbon and water cycles. These areas also support more than 40% of the global human population and will account for most world population growth over the next few decades. Rising populations and per capita consumption threaten both biodiversity and carbon storage, with the tropics leading the world in extinctions and in greenhouse gas emissions from land - use change and ecosystem degradation, but also having the highest carbon uptake in both intact forests and regrowth. As tropical ecosystems are degraded, local people suffer from the loss of natural products and services, but may also benefit from new agricultural developments and employment opportunities. Anthropogenic climate change now threatens both people and ecosystems throughout the tropics. It is clear that understanding the diversity and function of tropical habitats should be a global research priority, but the relative poverty of most tropical nations has ensured that non - tropical species and ecosystems receive an overwhelming proportion of research effort and resources. These limitations make it crucial that policy - relevant research priorities in tropical biology are identified and supported.

At the annual meeting of the Association for Tropical Biology and Conservation (ATBC) in Miami, Florida, in 2004, a report was released on research priorities in tropical biology *(Beyond Paradise: Meeting the Challenges in Tropical Biology in the 21st Century)*. This widely acknowledged white paper made a plea for an expanded, interdisciplinary, participatory, and socially relevant research agenda to study and conserve human - impacted *as well as* pristine tropical ecosystems (Bawa et al., 2004a, 2004b). Three principles for guiding biological research were agreed: broadening the set of concerns for tropical biologists, integrating biological knowledge with the social sciences and traditional knowledge, and linking science to policy and action. From these guiding principles the report concluded with four primary recommendations for advancing the biological sciences in the tropics: 1) to complete the inventory and classification of life in the tropics, 2) to create a mega - network of tropical scientists through an expanded system of field stations, 3) to strengthen research and educational institutions in the tropics, and, 4) to increase interdisciplinary interactions for information exchange among parties concerned with tropical habitats.

Significant progress has been made on these recommendations, but the degradation of tropical ecosystems and loss of biodiversity continue unabated. This predicament is partly a reflection of the overwhelming magnitude of the threats, but also suggests a failure to target research at questions that will directly influence policy and management. The changing nature of the threats is an especially acute problem. Since 2004, climate change has emerged as an immediate peril for tropical biodiversity and ecosystems, and the expansion of biofuel production is a potentially an equally huge threat in the near future. Commercial crop monocultures, invasive species, emerging infectious diseases, and urbanization, have all increased in significance since the 2004 priorities report. Addressing these threats will require cross - disciplinary collaborations between biological and social scientists, as well as other disciplines, which are more clearly targeted at the needs of managers and policy makers. For this we need a new assessment of research priorities in tropical biology.

This session aims to contribute for the development of a program of tropical biology research priorities for the next decade (2013 - 2022) that will identify those research activities that have the greatest potential to benefit tropical people and ecosystems by influencing policy and management decisions. To achieve this goal, we will focus on the following objectives:

(1) Assess progress and evaluate success in achieving the goals of the 2004 *Beyond Paradise* report;
(2) Obtain broad input from the tropical biology community on the emerging and most critical scientific frontiers that should be addressed in the coming decade;
(3) Solicit input from a range of intersecting scientific disciplines on trends from outside tropical biology that will affect tropical ecosystems and biological research, and on their own needs for information from tropical biologists; and,
(4) Seek contributions from policy makers and managers as to the types of research that they most urgently need to make informed decisions.

Room Kadiwéu 1

14h00 - 15h30 ***(S14)*** **New Approaches for the Biotic Inventory of Hyperdiverse Tropical Forests**
Christopher W. Dick (University of Michigan, USA)
Alberto Vicentini (Instituto Nacional de Pesquisas da Amazonia, Brazil)

The Amazon basin is important to the world for climate, carbon and hydrological regulation, and recent studies have shown it is highly sensitive to natural and anthropogenic climate changes. While advances are being made in understanding linkages between Amazon biota and biogeochemical processes, less progress is being made in understanding the relationship between species - level biological diversity and large – Scale environmental changes. It is clear that we cannot project changes in the taxonomic composition (and consequently function) of Amazon forests without understanding what the species are, where they occur, and what drives their distributions and dynamics. On the one hand, the centuries - old task of cataloging species diversity in biologically diverse regions seems far from reach because of reduced efforts at training taxonomic specialists. On the other hand, there are many new tools available for identifying and classifying organisms that may help to accelerate biological inventory. This symposium features a discussion of these new approaches, including Image Identification Systems (IIS), crowdsourcing, remote audio monitoring, DNA barcoding and biodiversity informatics and analysis. The symposium speakers will consist of plant and animal specialists, working in the Amazon basin and elsewhere, in order to foster reciprocal illumination.

14h00 - 14h15 ***S14.OC.01***
Separating facts from species - new data and new tools require a different approach for recording and storing information about plant species – The WikiFlora Iniative
Vicentini A

14h15 - 14h30 ***S14.OC.02***
Using semantic web technology to build social networks for tropical plant identification
Webb CO, Triono T, Wiryana IM, Mathews S

14h30 - 14h45 ***S14.OC.03***
Models and estimators linking individual - based and sample - based rarefaction, extrapolation, and comparison of assemblages
Colwell RK, Chao A, Gotelli NJ, Lin SL

14h45 - 15h00 ***S14.OC.04***
An Automated Remote Biodiversity Monitoring Network (ARBIMON)
Corrada - Bravo CJ, Aide TM

15h00 - 15h15 ***S14.OC.05***
New approaches to DNA barcoding of tree diversity in Amazon forests
Dick C

15h15 - 15h30 ***S14.OC.06***
Leafsnap: A mobile application for plant identification using image recognition technology
Kress WJ, Belhumeur PN, Jacobs D

Room Kadiwéu 2

14h00 - 15h30 ***(S33)*** **Environmental Services in Amazonia**
Philip M. Fearnside (INPA, Brazil)
Rita C.G. Mesquita (INPA, Brazil)

The National Institute for Science and Technology of Environmental Services of Amazonia (INCT – Servamb), a research initiative funded by Brazil's Ministry of Science, Technology and Innovation, has been working to better quantify these services, their loss though environmental transformations underway in the Amazon region and the ways in which they can be protected and fostered by interventions in land - use change processes in the region. Modeling of land - use change under different scenarios is used to assess the effects of decisions regarding building roads, creating protected areas and implementing various public policy measures. Research groups participating in INCT – Servamb will present findings to date and their implications for development policy.

14h00 - 14h15 ***S33.OC.01***
Is REDD a good deal for conservation in Madre de Dios, Peru?
Soares - Filho B, Giudice R, Merry F, Oliveira A, Leles W

14h15 - 14h30 ***S33.OC.02***
Changes provoked by forest fragmentation in the Amazonian system
Camargo JLC

14h30 - 14h45 ***S33.OC.03***
Are environmental services affected by successional pathways in secondary Amazonian rain forests?
Mesquita RCG, Massoca P, Bentos TV, Williamson GB

14h45 - 15h00 ***S33.OC.04***
Expansion of oil palm cultivation in the Amazon: potential impacts on carbon fixation and water use
Carvalho CJ, Araujo AC, Santiago AV, Martorano LG, Venturieri A, Vasconcelos SS

15h00 - 15h15 ***S33.OC.05***
Land use intensity affects biomass accumulation in Amazonian secondary forests
Massoca PES, Nogueira CLB, Bentos TV, Wiener E, Mesquita RCG

15h15 - 15h30 ***S33.OC.06***
Avoiding greenhouse - gas emissions from land - use change in Brazilian Amazonia as an environmental service
Graça PMLA, Nogueira EM, Barbosa RI, Yanai AM, Vitel SMNC, Fearnside PM

15h30 - 16h30 ***Poster Session and Coffee Break***

(FS04) **Community Ecology and Function**

FS04.P.01
The effect of predator functional diversity on ecosystem function in bromeliad food webs
MacDonald AAM, Srivastava DS, Romero GQ

FS04.P.02
Broad scale distribution of Ferns and Lycophytes along environmental gradients in Central and Northern Amazonia, Brazil
Zuquim G, Tuomisto H, Costa FRC, Prado J, Magnusson WE, Pimentel T, Braga - Neto R, Figueiredo FOG

FS04.P.03
Biomass variation of *Chara indica* Bertero ex Spreng. (Charophyceae) in Caatinga springs of the Brazilian Northeast
Fernandes DS, Araújo ES, Sabino JHF, Cotarelli VM, Fabricante JR, Siqueira - Filho JA, Campelo MJA

FS04.P.04
A comparative study of aboveground allometries and biomass allocations between bamboos and trees in tropical rainforests of South East Asia
Fujinuma J, Kohyama TS, Potts MD, Kassim A

FS04.P.05
Revealing the causes and temporal distribution of tree mortality in Central Amazonia
Fontes CG, Chambers JQ, Higuchi N

FS04.P.06
***Handronathus spongiosus* (Rizzini) S. Grose (Bignoniaceae): a species on the bank of extinction?**
Ferreira, JVA, Fabricante J, Siqueira Filho J

FS04.P.07
Floristic similarity between semideciduous seasonal forests inserted in different agricultural matrixes, Southeastern Brazil
Sabino APS, Rodrigues RR, Lima LR, Ferraz KMPMB, Penha AS

FS04.P.08
Composition of the phanerogamic flora of APA Mata do Krambeck in the Botanical Garden of the Federal University of Juiz de Fora, Minas Gerais, Brazil
Silva CN, Salimena F, Pifano D

FS04.P.09
Aspects of the biological invasion of *Nicotiana glauca* Graham (Solanaceae) in the Brazilian Semi - Arid
Fabricante J, Ferreira JVA, Castro R, Siqueira Filho J.

FS04.P.10
Structural variations and functional groups composition of the shrub - tree component in palm swamps in southeastern Brazil
Bahia TO, Nunes YRF, Veloso MDM

FS04.P.11
How do primates respond to the effects of landscape change in islands formed by a hydroelectric dam?
Benchimol M, Venticinque EM

FS04.P.12
Environmental attributes and their influence on the amphibians species composition in an ecotourism area, Bonito, Mato Grosso do Sul State, Brazil
Rocha SB, Martins FI, Sabino J

FS04.P.13
The mesoscale distribution patterns of six abundant tree species on Maracá Island, Brazilian Amazonia: are monodominance of Peltogyne characterised by unusual soils?
Nascimento MT, Barbosa RI, Castilho CV, Villela DM

FS04.P.14
Maximized sampling of butterflies to detect temporal changes in tropical communities
Iserhard CA, Brown KS, Freitas AVL

FS04.P.15
Abiotic stress reduces the strength of the top - down effects of a terrestrial predator on an aquatic community
Machado RM, Gonçalves – Souza T, Srivastava DS, Romero GQ

FS04.P.16
Change in life Sclerophylly along successional gradient in a Tropical Dry Forest
Fonseca MB, Fernandes - Machado L, Silva HS, Espírito – Santo MM

FS04.P.17
Local plant species delimitation in a high - diverse Amazonian forest: do we all see the same species?
Gomes ACS, Andrade A, Barreto – Silva JS, Brenes - Arguedas T, Cárdenas D, Freitas CC, Lang C, Oliveira AA, Pérez AJ, Perez R, Silva JB, Silveira AMF, Vaz MC, Vendrami J, Vicentini A

FS04.P.18
Nematode community structure in a tropical forest remnant in Pernambuco, Brazil
Cardoso MO, Pedrosa EMR, Vicente TFS, Oliveira LSB, Rolim MM

FS04.P.19
Canopies sap – Sucking species richness and distribution along a natural succession gradient of Tropical Montane Forest
Lourenço GM, Campos NR, Barbosa BC, Neves FS, Campos RBF, Ribeiro SP

FS04.P.20
Vertical distance from drainage drives floristic composition changes in an Amazonian rainforest
Schietti J, Emilio T, Rennó CD, Drucker DP, Costa FRC, Nogueira A, Figueiredo F, Baccaro FB, Castilho CV, Kinupp V, Guillaumet JL, Garcia ARM, Lima AP, Magnusson WE

FS04.P.21
Community - level response to the exclusion of cattle grazing in a ecotone (tropical/temperate) grassland
Sánchez - Battenberg J, Bonfil C, Valverde T

FS04.P.22
Disentangling the role of edaphic variability, flooding regimes and topography of an Amazonian white – Sand forest
Damasco G, Nascimento HEM, Vicentini A, Castilho CV, Pimentel TP

FS04.P.23
Influence of seasonal variations in soil water availability on gas exchange of tropical canopy trees
Stahl C, Burban B, Wagner F, Goret JY, Bompy F, Bonal D

FS04.P.24
How do understory herbs respond to the water conditions in Amazonian forests and how this can affect their conservation in a climate change scenario?
Moulatlet GM, Costa FRC, Rennó CM, Emilio T

FS04.P.25
Water - table level limits the stocks of aboveground biomass in the Purus - Madeira interfluve
Schietti J, Sarmento K, Araújo RNO, Nunes ACG, Emilio T, Pinto JLPV, Magnusson WE

FS04.P.26
CO2 enrichment influences the spectral signature, development and endophyte community in a tropical wild shrub
Oki Y, Silva ACDR, Fernandes GW, Sanchez - Azofeifa A, Berbara R

FS04.P.27
Controls on foliar nutrient resorption of nine canopy tree species of a secondary wet tropical forest in Costa Rica
Wood TE, Lawrence D

FS04.P.28
Floristic composition and structure of the vascular epiphyte community in a swamp forest in Southeastern Brazil
Joanitti SA, Weiser V de L, Cavassan O

FS04.P.29
Floristic composition of different under – Sampled sites in the State of Amazonas
Amaral MRM, Gaui TD, Souza FC, Marra DM, Noguchi H, Chambers JQ, Higuchi N

FS04.P.30
Floristic composition of forest communitied in Bauru, São Paulo State, Southeastern Brazil
Weiser V de L, Cavassan O

FS04.P.31
Floristic composition of Andean forests in Cueva de Los Guacharos National Park (Colombia): Resilience and environmental gradients
Prada CM, Stevenson PR

FS04.P.32
Influence of historical and environmental factors on primate beta diversity in the Negro river basin, Northern Brazilian Amazonia
Silva Júnior AP, Luna MO, Silva PPL, Melo ERAM, Rodrigues CM, Luna RB, Galvíncio JD, Mendes Pontes AR

FS04.P.33
Ecological aspects, diversity and distribution of snakes in biotope preserved and anthropogenic Jamari National Forest – Rondônia – Western Amazon/Brazil
Anjos, MR, Araújo CS, Rohleder LAS

FS04.P.34
Richness, composition and abundance of insects associated with the crown of *Mabea Fistulifera* (Mart.) and *Byrsonima sericea* (D.C)
Carvalho RL, Leite AC, Barbosa BC, Ribeiro SP

FS04.P.35
Turnover of beetle assemblages in relation to seasonality in a tropical forest
Mercado Cárdenas A, Buddle CM, Anderson RS, Barrios H

FS04.P.36
Effect of disturbance frequency on aquatic macroinvertebrates composition in a neotropical stream
Gandolfo RS, Bertolucci MPB, Novaes MC, Bispo PC

FS04.P.37
The environmental integrity and stream size affect the diversity and abundance of Trichoptera (Insecta) in mountain streams
Novaes MC, Bispo PC

FS04.P.38
Recruitment limitation in a Mexican secondary dry tropical forest
Alba L, Nicolás A, Gamboa L, Martínez - Garza C

FS04.P.39
Factors affecting the structure of Coleoptera assemblages on Basidiomes of Polyporales and Hymenochaetales (Fungi: Basidiomycota).
Nogueira de Sá F, Graf - Peters LV, Moura LA, Reck MA, Silveira RMB

FS04.P.40
Powerful distance - dependent effects for a spatially aggregated tropical species
Souza FM, Franco GADC, Callaway RM

FS04.P.41
Is β - diversity higher at forest edges? A study of dung beetles in the Brazilian Amazon
Marsh CJ, Ewers RM

FS04.P.42
Forest metacommunity structure along an elevational gradient in the Luquillo Mountains, Puerto Rico
Zimmerman JK, Presley SJ, Willig MR

FS04.P.43
Controls on the carbon balance of African tropical forest
Lewis SL, AfriTRON Consortium

FS04.P.44
Abiotic drivers change during 18 years of landslide succession in Puerto Rico
Walker LR, Shiels AB, Bellingham PJ

FS04.P.45
Soil physical constraints as a limiting factor of palm and tree basal area in Amazonian forests
Emilio T, Quesada Q A, Costa F, Monteagudo A, Araujo A, Peña - Cruz A, Lezama A T, Castilho CV, Neill D, Vilanova E, Mendoza E M O, Alvarez E, Honorio E N, Alexander Parada G, ter Steege H, Ramirez - Angulo H, Chave J, Terborgh J W, Schietti J, Silveira M, Penuela - Mora M C, Schwarz M, Banki O, Philips O, Thomas R, Vasquez R, Brienen, Feldpausch T R, Killeen T J, Baker T R, Magnusson W E, Malhi Y

FS04.P.46
Habitat specialization in a hyper - diverse Amazonian forest
Oliveira AA, Vicentini A, Harms K

FS04.P.49
Testing species - habitat association by using toroidal randomization processes: a powerful method?
Vleminckx J, Hardy OJ

FS04.P.50
By shifting species and traits, soil controls biomass and dynamics of an Amazonian forest
Toledo JJ, Castilho CV, Magnusson WE, Nascimento HEM, Pimentel TP, Schietti J, Emilio T

FS04.P.51
Influence of soil physical properties on plant richness of the Mussununga ecosystem, Brazil
Neto JM, Júnior AS, Schaefer C

FS04.P.52
Effects of different cattle - ranching regimes on dung beetle communities in tropical Mexico
Andresen E, Escobar Sarria F, Escobar F

FS04.P.53
Primates in fragmented landscapes: a meta - analytical approach to understand drivers of local extinction in Neotropical forests
Benchimol M, Peres CA

FS04.P.54
An evaluation of different assemblage metrics for studies on wildlife recovery during forest succession
Pagotto CP, Pinotti BT, Pardini R

FS04.P.55
The impact of hunting on mammal community in a human settlement in the Northern Brazilian Amazon
Silva Júnior AP, Melo ERAM, Silva MND, Gadelha JR, Mendes Pontes AR

FS04.P.56
Small mammal population dynamics in a savanna - forest mosaic along the Caatinga - Atlantic Forest border
Palma ART, Silva ALV, Souza CV, Magnago AC

FS04.P.57
Environmental and historical drivers of small mammals communities in South America
Gonçalves LO, Cáceres NC, Duarte LS

FS04.P.58
Preliminary study of medium and large size mammals in the São João River Basin, Carambeí, Paraná – Brazil
Gabriel E, Christo SW

FS04.P.59
Ocurrence of *Puma Concolor* (Linnaeus, 1771) in the São João River basin located in the Municipality of Carambeí, Paraná – Brazil
Gabriel E, Christo SW

FS04.P.60
Evaluation of the proline content in rhizophores of *Vernonia herbacea* (Vell.) Rusby native region of campos rupestres in Minas Gerais.
Cangussu LMB, Pereira ACF

FS04.P.61
Role of groundwater depth and salinity in determining composition of tropical forest communities in coastal Everglades
Saha S, Sadle J

FS04.P.62
Growth and biomass allocation in three rupestrian field species at high and low soil fertility
Pires ACV, Negreiros D, Fernandes GW, Paiva AMO, Pereira MNA

FS04.P.63
Controls of soil organic carbon stability in old - growth forests across the Amazon Basin
Paz CP

FS04.P.64
Time of Activity of *Merosargus* Loew (Diptera: Stratiomyidae) in Parque Estadual do Rio Doce - MG, Brazil
Dueli GF, Fontenelle JCR

FS04.P.66
Preferences and spatiotemporal knowledge of food resources drive foraging movements in a Neotropical primate
Plante S, Colchero F, Calmé S

FS04.P.67
Population density and nesting patterns of the Western Chimpanzee, *Pan troglodytes verus*, in Lagoas de Cufada Natural Park, Guinea - Bissau
Carvalho J, Marques TA, Vicente L

FS04.P.68
Richness and abundance of mammals in a Terra Firme forest in Central Amazonia, Brazil
Da Silva LR, Layme VMG, Menin M

FS04.P.69
Estrogenic contaminants contribute to amphibian decline
Freitas JS

FS04.P.70
Reproduction of neotropical rodents: patterns and possible influences of climate changes
Barros CS, Puettker T, Pardini R

FS04.P.71
Singleton species of Odonata in a Neotropical stream survey
Martins CA, Rodrigues ME, Roque FO

FS04.P.73
Substratum particle size does not affect the relationship of biomass and abundance of aquatic insects in a neotropical stream.
Bertolucci MPB, Duarte AS, Bispo PC

S04.OC.10
Diversity and biogeographical affinities of *Machaerium* Pers. in the southern Amazon Basin
Vilela – Santos MC, Rodrigues DJ, Costa FRC, Burnham RJ

FS11.P.07
Effects of seaweed farming on the seagrass community of Panjang, Banten, Indonesia
Choesin DN, Lubis YZB

***(FS14)* Capacity Building**

FS14.P.01
Scientific climbing training in forest canopy and forestry research in Brazil and the World
Gontijo AB, Ribeiro SP, Rocha LEA, Rocha W, Espírito – Santo NB, Cortez A

***(S08)* Evolution, Ecology, and Conservation of the Cerrado: New Directions, New Approaches**

S08.P.01
Negative effect of fluctuating asymmetry for the restructuring of *Vochysia thyrsoidea* after burning
Barbosa B C, Fagundes R, Silva D M, Ribeiro F F, Carvalho R L, Ribeiro S P, Fernandes G W

S08.P.02
Nesting ecology of *Camponotus rufipes* and *Camponotus renggeri* (Hymenoptera, Formicidae) in cerrado savanna: nest structure and interhabitat differences
Ronque MUV, Oliveira PS

S08.P.03
Spatial distribution of *Calyptranthes brasiliensis* Spreg. in a palm swamp in the Environmental Protection Area of Pandeiros river, Minas Gerais State (Brazil)
Nunes YRF

S08.P.04
Vegetation structure and plant area index in a transition between Cerrado and Tropical Dry forest in northern Minas Gerais
Magalhães SF, Menino, G. C. O, Paula, D. C, Espírito – Santo, M. M., Nunes, Y. R. F., Sanchez - Azofeifa, G. A.

S08.P.05
Aligning conservation of the Cerrado with conservation of the Amazon
Malhado ACM, Pires GF, Costa MH, Ladle RJ

S08.P.06
Does the use of herbicide in invaded areas favours the short - term regeneration of Cerrado?
Rissi MN, Fidelis AT, Cavassan O

S08.P.07
The effect of converting Cerrado vegetation into agro – systems over the functional structure of native ground - dwelling ant communities
Groc S, Pacheco R, Camacho GP, Frizzo TLM, Rodrigues LS, Vasconcelos HL

S08.P.08
Effect of increased nitrogen deposition on leaf litter decomposition and soil microbial activity in the Cerrado vegetation, Brazil
Silva LVB, Vasconcelos HL, Bruna EM, Ferreira AS

S08.P.09
Estimation of the speciation rate for the Cerrado biome
Moreira LCB, Gastauer M, Meira Neto JAA

S08.P.10
Ecological functions performed by dung beetles in Cerrado's pastures
Almeida S, Louzada JNC, Barlow J, Sperber CF

S08.P.11
The importance of tree maintenance in pastures for bird conservation at Bodoquena Mountains, Brazil
Gordon MN, Souza FL

S08.P.12
Floral resource availability and its use by hummingbirds in the Cerrado of Central Brazil.
Maruyama PK, Oliveira GM, Ferreira C, Oliveira PE

S08.P.13
Ixodids associated to small mammals in a forest fragment of the Cerrado biome, southeastern Brazil
Coelho MG, Ramos VN, Mota TD, Ergdomus GM, Szabó MPJ

S08.P.14
Floristic and dispersion syndrome in a cerrado sensu stricto 22 years after different treatments of deforestation
Oliveira LSB, Rezende AV, Buchmann HB, Cerdeira ALN

S08.P.15
Direct seeding of Cerrado tree species: testing nurse plants and fertilization
Vieira DLM, Oliveira DR, Rocha GPE da, Silva RRP

S08.P.16
Aclimatization of *Cyrtopodium* cf. *palmifrons* Rchb. F. & Warm (Orchidaceae) in different substrates
Boaretto AG, Campos GO, Almeida MPF, Torrezan MA, Benetão J, Paiva Neto VB

S08.P.17
Economic value of the biodiversity storage service provided by Brazilian quartz mountain ecosystems
Resende FM, Fernandes GW, Coelho MS

S08.P.18
The effect of land - use change in Brazilian savanna: comparing ant community structure between natural habitats and agro – Systems
Pacheco R, Groc S, Camacho GP, Frizzo TLM, Vasconcelos HL

S08.P.19
Arsenic effects on Baccharis dracunculifolia (Asteraceae): performance, toxicity, accumulation dn nutritional quality
Gilberti LH, Silva ACDRS, Menezes APA, Fernandes GW

***(S09)* Ecology of Neotropical and Paleotroipical Dry Forests (Part II)**

S09.P.01
Evaluation of the successional dynamics of Tropical Dry Forests of the inter - Andean valley of the Magdalena River for sustainable management (Colombia, South America)
Rodríguez N, Melo O, Fernandez F

S09.P.02
Human disturbance increases Euphorbiaceae populations and leads to high community similarity in Brazilian Caatinga
Rito KF, Leal IR

***(S10)* Ecosystem Dynamics of Western Amazonia**

S10.P.01
The sentivity of tropical leaf litter decomposition in Peruvian forest
Salinas N, Malhi Y, Meir P, Silman M, Roman R, Huaman J, Salinas D

S10.P.02
Floristic composition and diversity of a primary forest in the Eastern Amazon, Pará, Brazil
Carneiro VM, van den Berg E

S10.P.03
How does nutrient availability influence rates of photosynthesis and leaf respiration in Amazonian tropical forest?
Zaragoza - Castells J, Meir P, Atkins OK, Lloyd J, Bloomfield KJ, Rowland LM, Salinas N, Bonal D, Thurnbull MH, Domingues TF

S10.P.04
Litter as a filter of herbaceous seedlings and sporophytes emergence in central Amazonia
Rodrigues FRO, Costa FRC

***(S11)* Understanding Successional Processes in Tropical Forests Using Long - Term Data: from Populations to Ecosystems**

S11.P.01
Short - term effects of large wind - throws on structure and diversity of trees community in Central Amazon
Marra DM, Chambers J, Wirth C, Trumbore S, Santos J, Ribeiro GHPM, Negrón - Juárez RI, Higuchi N

S11.P.02
Changes in the herbaceous communities on the landslide of the Casita Volcano, Nicaragua, during early succession
Velazquez E, Gómez – Sal A

S11.P.03
Spatial dynamics characteristics of a native population of *Araucaria angustifolia*
Paudo GF, Bernardi AP, Bernardi PT, Mantvani A, Reis MS

S11.P.04
Recruitment success of pioneer tree species: importance of topography and gap micro – Sites conditions
Bentos TV, Nascimento HEM, Williamson GB

***(S15)* Marshaling Existing Biodiversity Information to Support Tropical Biology and Conservation**

S15.P.01
The importance of humans to data management
Pezzini FF, Magnusson WE

S15.P.02
Exsiccatae: an image service to e - taxonomy
Souza S, Marino A, Canhos DAL, Maia LC, Sousa - Baena MS, Garcia, LC

S15.P.04
The National Institute of Science and Technology virtual herbarium of plants and fungi of Brazil
Maia LC, Canhos D, Barbosa MR, Peixoto, AL

***(S16)* DNA Barcodes and Beyond: Developing and Utilizing Community - Wide DNA Sequence Data to Understand Ecology and Evolution of Tropical Biodiversity**

S16.P.01
Results of preliminary studies on the genetic diversity of two monkey species at the Boabeng Fiema and Tafi Atome Monkey Sanctuaries in Ghana
Amekugbe MSA, Owusu EH, Kayang B, Inoue - Murayama M

S16.P.04
DNA barcodes for the identification of the heavily logged Amazonian timber species, *Manilkara huberi*, and related Manilkara species
Inglis PW, Mata LR, Kanashiro M, Azevedo VCR

S16.P.05
Phylogenetic gradient of neotropical primate communities (Platyrrhini) is influenced by both spatial and environmental factors
Teixeira FZ, Gonçalves LO, Fagundes PB

S16.P.06
Discriminating the effects of phylogenetic hypothesis, tree resolution, and clade age estimates on phylogenetic signal measurements
Seger GDS, Duarte LS, Debastiani VJ, Kindel A, Jarenkow JA

S16.P.07
Drivers of the ecological and evolutionary structure of tree communities in southern Brazil
S Weege, ELH Giehl, JA Jarenkow

S16.P.08
Does functional or taxonomic diversity best predict ecosystem functioning in the Brazilian Amazon?
Griffiths HM, Barlow J, Louzada JNC, Bardgett RD

S16.P.09
Functional and phylogenetic turnover of tree assemblages on fine spatial scale in Atlantic forests
Silva IA, Ferreira FS, Rochelle ALC, Martins FR

S16.P.10
The interspecific abundance - body size relationship in Neotropical butterflies (Nymphalidae: Ithomiini)
Gallice G

S16.P.11
Spatial distribution of Scarabaeinae related to vegetation structure
Beiroz W, França F

S16.P.12
Structure and composition of the edaphic Arthropod community and its use as bioindicators in different land use systems
Rabello AM, Beiroz W, Audino LD, Queiroz ACM, Boratto IA, Silva Z, Ribas C

S16.P.13
Niche partitioning and habitat definition in a neotropical forest: a new detection approach
Costa FRC, Nogueira A, Castilho CV, Kinupp V., Guillaumet J - L, Mesquita AR, Landeiro V, Magnusson WE

S16.P.14
Integrating metacommunity processes with biogeography in the study of latitudinal gradients
Gonçalves – Souza T, Romero GQ, Cottenie K

S16.P.15
Distribution patterns of floristic composition in relation to soil gradient in the Central Amazon, Amazonas, Brazil.
Souza FC, Carneiro VMC, Gaui TD, Higuchi N, Ferraz JBS, Santos dos J

S16.P.16
Fine – Scale environmental variation drives harvestmen (Opiliones) diversity patterns
Bernabé T, Gonçalves – Souza T, Kury AB

S16.P.17
Spatial patterns on functional diversity of African mammals
Figueiredo MSL, Grelle CEV, Cerqueira R

S16.P.18
Species richness vs. phylogenetic diversity: assessing the conservation needs of the *Didymopanx* group of *Scheffera* (Araliaceae)
Fiaschi P, Plunkett GM

***(S33)* Ecosystem Dynamics of Western Amazonia**

S33.P.01
Managing an intensified Amazonia: estimating the effect of agricultural intensification of key commodities on ecosystem service delivery in Amazonia
O'Connell CS, Mueller ND, Foley JA, Polasky S, Gerber JS

S33.P.02
Agrobiodiversity of the Chacras at the Indigenous Kichwas of the Ecuadorian Amazon
Pila LA, Otálora JM, Guerra MP, Naranjo EJ

S33.P.03
Wood vegetation structure in a transitional forest of southeastern Amazonia, Brazil.
Mews CL, Cury RTS, Brando PM, Alencar A, Baccini A

***(S35)* Understanding Fire Regimes in Tropical Landscapes: Climatic, Ecological, and Socio - Economic Considerations**

S35.P.01
Post - fire regeneration of an invaded wet grassland in Brazilian Savanna
Barbosa EG, Zupo T, Rissi MN, Pivello VR, Baeza J, Bautista S, Fidelis A

S35.P.02
***Phoenix* plants: effects of fire on the reproduction of a herbaceous plant from a Neotropical Savanna**
Sanchez M, Pedroni F, Facure KG

S35.P.03
Fire evolution and vegetation dynamics of savannas on Ibity Massif (Madagascar) using analysis and interpretation of satellite imagery
Ramahefamanana N, Alvarado ST, Buisson E, Rajeriarison C, Birkinshaw C, Lowry II PP, Rabarison H

S35.P.04
What explains the poor regeneration of Amazonian blackwater forests after fire?
Flores BM, Nelson BW, Holmgren M, Attayde JL

S35.P.05
Species regeneration in burned forest sites in the southern Amazon basin, Brazil
Cury RTS, Oliveira CCC, Torezan ZMD, Bando PM, Balch Jk

S35.P.06
Characterization of environmental and anthropogenic impacts in the Park Estadual de Moura Altamiro Pacheco in the year 2010 (Goiás)
Santos AC, Vilas - Boas CP

S35.P.07
Fire selects autogamy in a treelet species in Cerrado: a case study in *Diplusodon oblongus* (Lythraceae) and *Styrax ferrugineus* (Styracaceae)
Danieli – Silva A, Varassin IG

S35.P.08
Does fire affect ant community in the rupestrian fields?
Lana TC, Anjos MC, Reis AC, Neves FS, Fernandes GW

S35.P.09
Post - fire regeneration of plant communities of campos rupestres, upland tropical grasslands in Brazil
Hernandez P, Le Stradic S, Buisson E, Fernandes GW

S35.P.10
Safer hydraulic conductivity, and protection against firest and strategies of Cerrado plants
Sonsin JO, Gasson P, Machado SR, Caum C, Marcati CR

S35.P.11
Bird functional diversity and wildfires in the Amazon forest
Hidasi - Neto J, Barlow J, Cianciaruso MV

***(S36)* Maximizing the Conservation Value of Tropical Forests Through Sustainable Management Practices**

S36.P.02
Seedling survival of four tropical timber species near conspecific adults: management implications
Gonzalez A

S36.P.03
Dynamics of the diameter distribution of a logged forest in Brazilian Amazon
Silva WFM, Mazzei L, Ruschel AR, Soares MHM, Bentes DS, Gouveia DM

S36.P.04
Phytosociological structure of an intensively logged forest in the Amazonian, Brazil
Machdado HB, Ruschel AR, Mazzei L, Soares MHM, Smoginski APA, Silva WFM, Yared JAG

S36.P.05
Incompatibility Systems and Pollination of Amazonian Trees
Maués, MM, Oliveira PEMA, Kanashiro, M

S36.P.06
Impacts of logging on fungi communities associated with coarse woody debris in eastern Amazonia
Eleuterio AA, de Jesus MA

S36.P.07
Impact of timber exploitation in the genetic diversity and demography of *Manilkara huberi* (Ducke) A.Chev: generation of indicators for sustainable management
Azevedo VCR, Kanashiro M, Vinson CC, Ciampi AY

S36.P.08
Effects of reduced - impact logging on aquatic insects associated with submerged woody debris in Central Amazonian streams
Valente - Neto F, Roque FO, Escarpinati SC, Hamada N

Room Guaicurus

16h30 - 18h00 ***(S 11)* Understanding Successional Processes in Tropical Forests Using Long - Term Data: from Populations to Ecosystems (Part II)**
Robin Chazdon (University of Connecticut, USA)
Miguel Martínez - Ramos (Universidad Nacional Autónoma de México, México)

16h30 - 16h45 ***S11.OC.07***
Amazonian secondary forests respond to climatic variation: biomass dynamics
Mesquita RCG, Bentos TV, Jakovac AC, Massoca P, Williamson GB

16h45 - 17h00 ***S11.OC.08***
Successional changes in ecosystem services in wet and dry tropical forests
Balvanera P, Arreola F, Avila LD, Barragan F, Boege K, Bongers F, Flores - Hidalgo M, Gavito M, García - Frapolli E, Godinez MC, Hernández O, Lohbeck M, Martínez - Ramos M, Martínez - Yrizar A, Mora M

17h00 - 17h15 ***S11.OC.09***
Secondary forest succession and community assembly in natural blowdown gaps in the Brazilian and Peruvian Amazon
Chambers JQ, Negron - Juarez RI, Marra DM, Rifai S, Arévalo FR, Ribeiro GHPM, Fontes C, Higuchi N

17h15 - 17h30 ***S11.OC.10***
Potential of tree functional types for ecological restoration in Tropical Andean Forests of Colombia
Rodríguez N, Fernandez F, Melo O

17h30 - 17h45 ***S11.OC.11***
A predictive model of Atlantic rainforest recovery based on plant functional types
Machado RE, Müller SM, Zanini KJ, Leithead M, Pillar VD

17h45 - 18h00 ***S11.OC.12***
Patterns of tree leaf fall along a successional gradient in a tropical dry forest
Mendes AA, Faccion G, Guedes CR, Mota FMM, Dupin MG, Espírito – Santo MM

Room Terena

16h30 - 18h00 ***(S09)* Ecology of Neotropical and Paleotropical Dry Forests (Part II)**
Cristina Martínez - Garza (Universidad Autónoma del Estado de Morelos, México)
Eduardo Pérez García (Universidad Nacional Autónoma de México, México)
Geraldo Wilson Fernandes (Universidade Federal de Minas Gerais, Brazil)

16h30 - 16h45 ***S09.OC.07***
Tree floristic, structure and functional groups variations in relation to successional stages and soil properties in a tropical dry forests of southeastern Brazil
Nunes YRF

16h45 - 17h00 ***S09.OC.08***
Floristic composition and structure of a tropical dry forest at different successional stages in the Espinhaço Mountains, southeastern Brazil
Coelho MS, Quintino AV, Almada ED, Fernandes GW, Santos RM, Sánchez - Azofeifa GA, Espírito Santo MMD

17h00 - 17h15 ***S09.OC.09***
Spatio - temporal dynamics of insects in a Brazilian Tropical Dry Forest
Neves F, Espírito – Santo M, Fernandes GW

17h15 - 17h30 ***S09.OC.10***
Regeneration of ecosystem functions during succession in a Brazilian Tropical Dry Forest: comparative importance of plant community composition and leaf traits
Espirito-Santo MM, Faccion G, Alvez AM, Sanchez Azofeifa GA

17h30 - 17h45 ***S09.OC.11***
Alternative techniques to restore the Cerrado and Dry Forests of Brazil
Vieira DLM, Rocha GPE da, Silva RRP

17h45 - 18h00 ***S09.OC.12***
Challenges for the restoration of Dry Forest Caatingas
Siqueira Filho JA, Fabricante JR, Meiado MV, Siqueira AA, Socolowski F, Corrêa LC, Vieira DCM, Cotarelli VM, Ferreira EVR, Almeida NM, Onofre FF, Silva RA, Campelo MJA, Rodrigues RG

Room Karuha

16h30 - 18h00 **Womens' mentoring workshop**
Chairs: Beth A. Kaplin (Antioch University New England, USA) & **Seline Meijer** (ICRAF, Malawi & University College, Dublin)
Young female scientists starting off their careers in tropical biology and conservation come across various challenges including balancing careers and family with field work. The ATBC meeting offers a great opportunity for younger researchers and students to interact with more senior scientists to gain insight from their experiences. However, it can be quite daunting to approach a senior scientist in the short breaks between sessions, and the opportunities to talk at length about such challenges are often limited. This women's mentoring workshop aims to facilitate interaction among junior and senior female scientists. The structure of this workshop will center around a speed - mentoring session, in which participants will rotate and offer advice to the junior person they are paired with. After 5 minutes, we will ring a bell and people will move to the next partner.

Room Kadiwéu 1

16h30 - 18h00 ***(S15)*** **Marshalling Existing Biodiversity Information to Support Tropical Biology and Conservation**
A. Townsend Peterson (The University of Kansas, USA)
Vanderlei Perez Canhos (Centro de Referência em Informação Ambiental, CRIA, Brazil)
Tropical biodiversity and conservation have some very immediate objectives, centered on avoiding massive biodiversity loss over coming decades. Hundreds of years of biodiversity science have accumulated considerable information, yet this information is not readily available to science and conservation. Recent initiatives have begun to remedy this problem, with distributed biodiversity databases now providing improved access to primary biodiversity data in massive quantities. In this symposium, we gather experts and leaders in the field to discuss ways forward. We assemble biodiversity informatics efforts to provide base - level, research - grade, efficient and effective access to biodiversity data. and experts to provide insights into key 'next steps' in the future of this field. The presentations will cover the analysis and interpretation of data, addressing issues on how data initiatives can effectively interact with data users to maximize the efficacy of the initiatives. The symposium goal is to: (1) present the emerging field of biodiversity informatics to the ATBC community; and (2) provide a rich interchange of ideas and interlinking of efforts between data providers and data users in biodiversity informatics.

16h30 - 16h45 ***S15.OC.01***
The value of sharing primary, research - grade biodiversity data: applications to biodiversity inventories, understanding species' distributions, and effects of environmental change
Peterson AT

16h45 - 17h00 ***S15.OC.02***
Advances promoted by the INCT - Virtual Herbarium of Brazilian plants and fungi
Maia LC, Canhos D, Peixoto, AL

17h00 - 17h15 ***S15.OC.03***
e - infrastructure to support biodiversity research in Brazil
Canhos DAL, Souza S, Marino A, Giovanni R, Maia LC, Barione LH, Garcia LC, Baena MSS, Canhos VP

17h15 - 17h30 ***S15.OC.04***
Lacunas: a new tool to help identify taxonomic and distribution data gaps of plants
Canhos DAL, Souza S, De Giovanni R, Maia LC, Garcia LC, Sousa - Baena MS

17h30 - 17h45 ***S15.OC.05***
Taking biodiversity informatics into the cloud
Wieczorek J

17h45 - 18h00 ***S15.OC.06***
EU - Brazil open data and cloud computing e - Infrastructure to support the analysis and conservation of biodiversity
Canhos VP, Rebello VEF, Castelli D, Alexandrov V

Room Kadiwéu 2

16h30 - 18h00 ***(S35)*** **Understanding Fire Regimes in Tropical Landscapes: Climatic, Ecological, and Socio - Economic Considerations**
María Uriarte (Columbia University, USA)
Laura Schneider (Rutgers University, USA)

Fire has been used in tropical agriculture for millennia. Until recently the broader dangers of clearing and managing lands with fire received relatively little public, political, or research attention in tropical countries. However, the escaped fires that devastated large areas of Bornean forests during the ENSO event of 1982 - 83, producing enormous ecological and economic losses, with damaging smoke and haze spread throughout Southeast Asia, alerted the world to the issue. Subsequent events, especially the conflagrations of 1997 - 98, another ENSO year, confirmed that agriculture - related fires in the tropics had become a major and growing problem on a global level. It is estimated that in the exceptional drought event of 1997 - 98 twenty million hectares burned due to uncontrolled fires in Latin America and Southeast Asia, and cost the country of Indonesia almost 7.5 billion dollars in lost timber, crops, tourism revenues, as well as health care costs and ecological services, among other goods. Apart from its local and national impacts, the role of agriculture - related fire is now being assessed in the contexts of global climate change as well as of global deforestation trends. Around the tropics increased fire danger and devastation caused by fire reflects broad shifts in many aspects of development, including logging and fragmentation of forests, rapidly changing land use, new infrastructural development, shifts in population size and distribution, as well as changing patterns of drought and humidity. Since fires link many important aspects of environmental and social change in the tropics, understanding recent changes in their incidence and impact requires multi - disciplinary, multi – Scalar, and integrated approaches to research and to policy - formulation. The goal of the proposed symposium is to explore the interactive effects of climatic, ecological, and socio - economic factors in driving forest dynamics in tropical landscapes and to explore the consequences for ecosystem services. Addressing these interactive effects requires a comprehensive, multi – Scalar, and multi - disciplinary approach across different regions and landscapes. To this end, we will bring together scientists working on understanding forest dynamics in forested and savanna sites distributed throughout the tropics. Presentations will examine: (1) effects of fire on ecosystem services, with a focus on water and biogeochemical cycles; (2) effects of fire on the composition of landscape mosaics; and (3) impacts of management practices (e.g., agriculture, logging) on fire dynamics.

16h30 - 16h45 ***S35.OC.01***
Tipping points of a neotropical forest: fire - drought interactions
Brando PM, Balch JK, Nepstad DC, Morton D, Silvério D, Nóbrega C, Francis P

16h45 - 17h00 ***S35.OC.02***
Land use, climate, and fire activity in the Western Peruvian Amazon
Uriarte M, Pinedo M, Fernandes K, DeFries R, Gutierrez V, Padoch C

17h00 - 17h15 ***S35.OC.03***
Effect of hurricanes and land use on fire dynamics in Southern Yucatán, Mexico
Rogan J, Schneider L., Christman Z, Zager I, Schmook B, Mendez M

17h15 - 17h30 ***S35.OC.04***
Effects of high frequency understory fires on early plant succession in southeastern Amazonian forests
Balch JK, Brando PM, Massad TJ, Nepstad DC, Coe MT, Curran LM

17h30 - 17h45 ***S35.OC.05***
Fire disturbance in Amazonian blackwater forests
Flores BM, Nelson BW, Piedade MTF

17h45 - 18h00 ***S35.OC.06***
Congruence in indicator taxa and richness estimates: a study on biodiversity responses to fire disturbance in the Brazilian Amazon
Andrade RB, Barlow J, Louzada J, Mestre L, Silveira J, Vaz - de - Mello FZ, Cochrane MA

Room Guaicurus

18h00 - 18h55 **Plenary Talk: Historical assembly of communities: comparison of island vs. mainland lizard assemblages.** Jonathan Losos, Harvard University, USA.

June 21 – Species Interactions

Room Guaicurus

08h00 - 08h55 **Plenary Talk: Herbivory as a selective pressure and the diversity of tropical plant responses**.
Rodolfo Dirzo, Universidad Autónoma de México, Mexico & Stanford University, USA.

Room Guaicurus

09h00 - 10h30 ***(S21)*** **Conservation, Biology, and Evolution of Fig Trees and their Associated Wasps (Part I)**
Rodrigo A. S. Pereira (USP - Ribeirão Preto, Brazil)
Finn Kjellberg (CEFE - CNRS, France)

Fig trees *(Ficus)* are involved in ecological interactions with representatives of probably all class of living organisms. Especially, these plants are known due to the obligate mutualism with their pollinating wasps. Therefore fig trees and their associated organisms constitute a formidable system to assess ecological and evolutionary questions. Moreover, the approx. 750 *Ficus* species in the world comprise a singular opportunity to carry out comparative studies. This symposium will encompass recent findings on biology, conservation, diversity and evolution of fig and their associated wasps. In a wider evolutionary scale we will discuss the co - diversification between figs and their pollinating wasps and the diversification rate/key innovations among figs and theirs closest relatives. At population level, we will discuss genetic structuring and phylogeographic aspects of some fig species. In relation to biological conservation we will discuss data on community ecology of fig trees in fragmented landscapes in Brazil. Particularly on Neotropical fig species, we will discuss the current taxonomic status and host range of the associated wasps. In addition, we will discuss several aspects of fig wasp biology and fig reproductive biology, and their role on the fig – fig wasp evolution.

09h00 - 09h15 ***S21.OC.01***
An extreme case of plant - insect co - diversification: figs and fig - pollinating wasps
Cruaud A, Rønsted N, Rasplus J - Y

09h15 - 09h30 ***S21.OC.02***
Genetic structuring, variation in receptive fig odours and the phylogeny of the locally - associated pollinator species in Ficus septica, from Mindanao, Philippines to Taiwan
Rodriguez LJV, Conchou L, Bain A, Cruaud A, Gonzales RS, Chou L – S, Tzeng H - Y, Rasplus J - Y, Hossaert - McKey M, Kjellberg F

09h30 - 09h45 ***S21.OC.03***
Genetic structuring in six Asiatic Ficus species in Taiwan and at a broader geographic scale: biogeographic and biological insights
Bain A, Garcia M, Tzeng HY, Chou LS, Rodriguez LJ, Peng YQ, Hossaert - McKey M, Kjellberg F

09h45 - 10h00 ***S21.OC.04***
Fig trees and the fig - fig wasp mutualism in fragmented landscapes
Pereira RAS, Coelho LFM, Cerezini MT, Teixeira LMR, Ribeiro MC

10h00 - 10h15 ***S21.OC.05***
Host range and diversification of resource use in Neotropical fig wasps
Farache, FHA, Elias, LG, Jansen - G, S, Kjellberg, FP, Rasplus, J - Y, Teixeira, SP, Pereira, RAS

10h15 - 10h30 ***S21.OC.06***
Extended longevity in fig wasp in response to selection generated by its mutualistic partner
Zhang Y, Yang DA, Compton SG, Peng YQ

Room Terena

09h00 - 10h30 ***(S05)*** **Ecology, Evolution, Conservation and Restoration of the Brazilian Atlantic Forest (Part I)**
Márcia C. M. Marques (Universidade Federal do Paraná, Brazil)
Simone A. Vieira (Universidade Estadual de Campinas, Brazil)
André A. Cunha (Universidade de Brasília, Brazil)
Milton Ribeiro (Universidade Estadual de São Paulo– Rio Claro, Brazil)

The Atlantic Forest is the fourth world biodiversity hotspot and still maintains impressive numbers of vertebrate and plant species, many of them endemics. It also provide significant ecosystems services, such as maintenance and enhancement of natural carbon stocks, recreation and tourism, and water flow and regulation for more than 120 million people that live in the Atlantic Forest domain. However only about 20% of the native vegetation cover still remains, and its scattered in thousands of small fragments. Maintain and improve landscape connectivity is the only chance to conserve biodiversity and ecosystem services in the long term. The Brazilian Ministry of Environment is working with the PACTO pela Restauração da Mata Atlântica, universities and the German Development Agency – GIZ to develop a spatial strategy focused on the definition of priority sites for biodiversity conservation and habitat restoration and ecosystem services maintenance. In this symposium will be presented and discussed the results of a series of maps to achieve this spatial strategy and how they have been included in decision making process. Specific mappings were conducted to identify strategic areas for: (1) biodiversity conservation, integrating previous initiatives based mostly on species, mainly threatened and endemic ones, such as IBAs, KBAs, AZEs, federal and state exercises; (2) landscape connectivity, identifying areas for habitat restoration to enhance landscape connectivity; (3) potential and effective forest biomass; (4) eligible areas for restoration projects to Kyoto and voluntary carbon credits; (5) areas for habitat restoration focused on the maintenance and enhancement of water provision.

The Atlantic Forest, the second most widespread tropical forest in Brazil, is better recognized as a complex than as a single vegetation type. It comprises a range from rain to semi - deciduous forests as well as the marginal vegetation in high altitude and over marine sand deposits. Such complexity is derived mainly from the large geographical changes along its area of occurrence associated with climatic variations that cause differences in plant communities. This includes, approximately, latitudes ranging from 5o N to 33 o S, longitudes from 35 o W to 52 o W and altitudes from 0 to 2,200 m. This wide geographical variation determines a climatic gradient in annual rainfall approximately, from 800 to 4,000 mm) and mean annual temperatures (averages from 15 to 25o C) which influence species distributions. In addition, two main centers of plant endemism are usually recognized: the northern Atlantic Forest and the southern Atlantic Forest; the northern block (with floristic affinities with the Amazon Forest, Caatinga and inland forests and the southern block (influenced by the flora Andes and elements of the ancient southern Gondwana). Altogether, the two regions comprise about 15.000 vascular plants and 48% endemic species that is among the highest in the world.

In this situation, plant demography and species distribution were probably influenced by a range of niche based and neutral processes that influenced the assembly rules, leading plant communities to very diverse structure and functioning. In this symposium we aim to discuss some of these processes in a variety of evolutive and ecological perspectives.

09h00 - 09h15 ***S05.OC.01***
Species, landscape and ecosystem services, why we need an integrative approach: the spatial strategy for biodiversity conservation and restoration of the Brazilian Atlantic Forest
Cunha A, Guedes FB

09h15 - 09h30 ***S05.OC.02***
Methodological framework to optimize restoration efforts based on landscape connectivity and resilience
Tambosi LR, Metzger JP, Ribeiro MC, Martensen AC

09h30 - 09h45 ***S05.OC.03***
Collapse of the medium and large – Sized mammals of the mega - fragmented north - eastern Atlantic forest of Brazil
Mendes Pontes AR, Beltrão ACM, Normande IC, Malta AJR, Jordani RA, Ramalho CB, Silva Jr AP, Santos AMM

09h45 - 10h00 ***S05.OC.04***
Carbon storage capacity of a fragmented landscape in the Atlantic Forest Dominion of Rio de Janeiro and its implications for future landscape management and conservation
Sattler D, Thier O, Engelmann RA, Naegeli FE, Fidalgo ECC, Peixoto RTG, Balieiro FC, Kirchner A, Wesenberg J, Heinrich J

10h00 - 10h15 ***S05.OC.05***
The control of the invasive jackfruit tree (Moraceae) at Ilha Grande and its effects in small mammal community and seed dispersal
Bergallo HG, Mello JHF, Raíces DSL, Moura CJ, Ferreira PM

10h15 - 10h30 ***S05.OC.06***
Integrating initiatives for biodiversity conservation in the Brazilian Atlantic Forest
Paglia AP

Room Karuha

09h00 - 10h30 ***(26)*** **Trophic Downgrading in Tropical Terrestrial Ecosystems (Part I)**
Mauro Galetti (UNESP, Brazil)
Rodolfo Dirzo (Stanford University, USA)
Local and global extinction of large vertebrates in terrestrial ecosystems has called the attention to researchers for more than 30 years. Both fragmented and continuous landscapes are suffering from the local extinction of large vertebrates, with special impact on mammals and birds. The extinction of this charismatic megafauna has strong implications for ecosystem functioning but may also translate into global changes, such as carbon storage and the persistence of key ecosystem processes (seed dispersal, predation, herbivory, nutrient cycling, etc). The aim of this Symposium is to convene an international group of experts on the impact of trophic downgrading in terrestrial ecosystems.

09h00 - 09h15 ***S26.OC.01***
The myriad consequences of defaunation on trophic cascades: beyond islands and fragments
Galetti M, Hortenci L, Brocardo C, Schmaedecke G, Zipparro V, Moreira J, Rocha - Mendes F, Luiza Jorge M, Neves CL, Sanches A, Biondo C, Rodarte R, Bueno R, Norris D, Lima R, Galbiati L, Bovy E, Culot L, Siqueira T, Guevara R

09h15 - 09h30 ***S26.OC.02***
Large - bodied vertebrates stabilize long - term flow of ecosystem services in faunally intact neotropical forests
Peres CA

09h30 - 09h45 ***S26.OC.03***
Community - level effects of vertebrate defaunation on forest composition and regeneration dynamics across a western Amazonian river basin
Swamy V

09h45 - 10h00 ***S26.OC.04***
Human - induced modifications of the frugivore community translate into reduced seed dispersal at the community level in a Neotropical rainforest
Boissier O, Feer F, Caubère A, Forget PM

10h00 - 10h15 ***S26.OC.05***
Ecological erosion of an Afrotropical forest and potential consequences for tree recruitment and forest biomass
Poulsen JR, Clark CJ, Palmer TM

10h15 - 10h30 ***S26.OC.06***
Ecological consequences of the rapid loss of Asian megafauna – Neotropicalization in the 21st century?
ACA

Room Kadiwéu 1

09h00 - 10h30 ***(S17)*** **Measuring and Predicting the Impacts of Drought Across Tropical Forests in Africa and South America (Part I)**
Christopher Baraloto (INRA, French Guiana)
Sabrina Coste (CIRAD, France)
Vincent Freycon (CIRAD, France)
Many tropical forests are exposed to severe drought episodes (seasonal patterns and/or ENSO events), and climate models predict increasing severity of these episodes in the near future. Understanding the response of species and forest stands to drought will be important to predict impacts of global change on forest biodiversity and biogeochemical cycles. Yet the impact of drought episodes varies tremendously within and across forests. Such variation may be explained by (i) spatiotemporal variation in soil water availability, and/or (ii) interspecific differences in drought tolerance. Our understanding of how these two components influence the consequences of drought for tropical forests are still limited, and recent evidence suggests that the impacts of drought may differ between continents. This Symposium will discuss current knowledge on tropical tree response to drought, with a particular emphasis to compare results across continents. Three research themes will be emphasized: (1) Quantifying the drought resistance of focal species, focused on contrasting species functional response to drought and links with their distribution across climatic gradients; (2) Forest dynamics under drought, focused on modelling changes in tree growth and mortality events; (3) Predicting the response of tropical vegetation to future scenarios, focused on modelling approaches that integrate species differences to project forest response to future land use and climate change scenarios.

09h00 - 09h15 ***S17.OC.01***
Spatial and temporal variability of plant - available soil water in Congo Basin and its relationship with tree species distributions
Rabaud S, Freycon V, Gond V, Mortier F, Fayolle A, Gourlet - Fleury S

09h15 - 09h30 ***S17.OC.02***
Drought resistance of tree species in the Congo Basin: interspecific variation of seedling responses and traits
Coste S, Swaine MD, Toto M, Yongo OD, Engelbrecht BMJ

09h30 - 09h45 ***S17.OC.03***
Effects of drought on species composition and distribution of tropical forests in West Africa and Bolivia; the underlying mechanisms
Poorter L, Markesteijn L

09h45 - 10h00 ***S17.OC.04***
Environmental filtering and species distributions across lowland South American forests
Fortunel C, Fine PVA, Baraloto C

10h00 - 10h15 ***S17.OC.05***
Determinants of tree distribution in tropical forests: assessing the impact of dry season intensity and soil species by species
Engelbrecht B, Turner B, Pino D, Perez R, Condit R

10h15 - 10h30 ***S17.OC.06***
Drought - induced shifts in the floristic and functional composition of tropical forests in Ghana
Fauset S, Baker TR, Lewis SL, Feldpausch TR, Affum - Baffoe K, Foli EG, Hamer KC, Swaine MD

Room Kadiwéu 2

09h00 - 10h30 ***(FS12)*** **Al Gentry Awards (Part I)**
Chair: Susan Laurence (James Cook University, Australia)

09h00 - 09h15 ***FS12.OC.01***
Barriers to invasion: what limits introduced plant spread?
JL Bufford, CC Daehler

09h15 - 09h30 ***FS12.OC.02***
Decreasing dung beetle diversity with changes in forest structure and diversity
Oliveira VHF, Solar R, Berenguer E, Louzada J, Barlow J, Ferreira J, Gardner T

09h30 - 09h45 ***FS12.OC.03***
Strength of plant - plant interactions among recruits varies over time in a wet tropical forest
Velazquez E, Wiegand T

09h45 - 10h00 ***FS12.OC.04***
A multilevel analysis of reproductive strategies of dioecious tropical trees: species, sexes, and individuals
Otárola MF, Sazima M, Solferini VN

10h00 - 10h15 ***FS12.OC.05***
All services are not equal: the context dependant nature of insect - mediated ecosystem services
Ramirez PM, Barlow J, Louzada J, Nichols E, Menendez R, Orwin K

10h15 - 10h30 ***FS12.OC.06***
Long - term monitoring of Rock Bee colonies in Biligiri Rangaswamy Temple Wildlife Sanctuary, India
Setty S, Rai N, Bawa K

10h30 - 11h00 ***Coffee Break***

Room Guaicurus

11h00 - 12h30 ***(S21)*** **Conservation, biology, and evolution of fig trees and their associated wasps (Part II), Rodrigo Pereira** (USP - Ribeirão Preto, Brazil)**, Finn Kjellberg** (CEFE - CNRS, France)

11h00 - 11h15 ***S21.OC.07***
Comparison of pollination biology in different forms of *Ficus auriculata*
Yang P, Li ZB, Peng YQ, Yang DR

11h15 - 11h30 ***S21.OC.08***
Non - wasp fauna of Neotropical fig tree species: new insights on the fig - insect associations
Palmieri L, Pereira RAS

11h30 - 11h45 ***S21.OC.09***
The genome of a fig pollinating wasp *Ceratosolen solmsi*
Xiao JH, Niu LM, Jia LY, Bian SN, He SM, Huang DW

11h45 - 12h00 ***S21.OC.10***
Host sanctions and pollinator cheating in the fig tree - fig wasp mutualism
Jandér KC, Herre, EA

12h00 - 12h15 ***S21.OC.11***
Fig chemistry explains a "lust for salt" in Western Amazonian stenodermatine bats
Bravo A, Harms KE, Emmons LH

12h15 - 12h30 ***S21.OC.12***
Using a phylogenetic framework to investigate the drivers of extant fig diversity: a comparison of figs and their closest relatives Castilleae (Moraceae)
Wendy C, George DW, Nina R

Room Terena

11h00 - 12h30 ***(S05)*** **Ecology, Evolution, Conservation and Restoration of the Brazilian Atlantic Forest (Part II)**
Márcia Marques (Universidade Federal do Paraná, Brazil)
Simone Aparecida Vieira (Universidade Estadual de Campinas, Brazil)
André Cunha (Universidade de Brasília, Brazil), Milton Ribeiro (Universidade Estadual de São Paulo – Rio Claro, Brazil)

11h00 - 11h15 ***S05.OC.07***
Effect of the width of riparian reforestation strips on the ecological restoration
Mota MC, Gonzaga GS, Silva VFA, Pereira HCB, Val RS, Silva GC, Torezan JMD

11h15 - 11h30 ***S05.OC.08***
Responses of a rainforest refugia to climate variability, the case of the Atlantic rainforest of Ceara, Brazil
Montade V, Ledru M. P., Burte J., Martins E. S.

11h30 - 11h45 ***S05.OC.09***
Effects of recent climate change over the structure of bird communities in the Brazilian Atlantic forest
Anjos L dos, Volpato GH

11h45 - 12h00 ***S05.OC.10***
Diet overlap between rodents and marsupials in four Atlantic forest areas
Rodarte R, Galetti M, Neves C, Moreira M

12h00 - 12h15 ***S05.OC.11***
Variation in the partitioning of carbon above and belowground in the Brazilian coastal Atlantic forest elevation gradient
Vieira SA, Alves LF, Scaranello M, Santos FAM, Camargo PB, Joly CA, Martinelli LA

12h15 - 12h30 ***S05.OC.12***
Phylogenetic links among forest types in the Southern Brazilian Atlantic rainforest complex
Duarte LDS, Bergamin R, Silva VM, Marques MCM

Room Karuha

11h00 - 12h30 ***(S26)*** **Trophic downgrading in tropical terrestrial ecosystems (Part II)**
Mauro Galetti (Universidade Estadual Paulista – Rio Claro, Brazil)
Rodolfo Dirzo (Stanford University, EUA)

11h00 - 11h15 ***S26.OC.07***
The equalizing effect of frugivory and seed dispersal networks
Carlo - Joglar T

11h15 - 11h30 ***S26.OC.08***
Ricocheting trophic and non - trophic cascade limits lianas and understory insectivorous birds in Central America
Michel NL, Sherry TW, Carson WP, Wright SJ

11h30 - 11h45 ***S26.OC.09***
Thieving rodents as substitute dispersers of megafaunal seeds
Jansen PA, Hirsch BT, Kays R

11h45 - 12h00 ***S26.OC.10***
Cascading effects of defaunation on the recruitment dynamics of a large seeded tree in the Atlantic rainforest
Culot L, Galleti M

12h00 - 12h15 ***S26.OC.11***
Can defaunation affect plant diversity in the Atlantic Forest?
Schmaedecke G, Siqueira T, Galetti M

12h15 - 12h30 ***S26.OC.12***
Beetles as physical and biochemical ecosystem engineers: ecological and molecular evidence of trophic upgrading in a tropical arthropod community
Quesada M, Calderon - Cortes N

Room Kadiwéu 1

11h00 - 12h30 ***(S17)*** **Measuring and predicting the impacts of drought across tropical forests in Africa and South America (Part II)**
Christopher Baraloto (INRA, French Guiana)
Sabrina Coste (CIRAD, France)
Vincent Freycon (CIRAD, France)

11h00 - 11h15 ***S17.OC.07***
Impacts of long - term experimental drought on the physiology and ecology of an eastern Amazon rain forest
Meir P, da Costa ACL, Metcalfe D, Galbraith DR, Doughty CE, de Oliveira AR, de Athaydes J, Aragao LEOC, Almeida SS, Rowland LM, Malhi Y, Fisher R, Carvalho C

11h15 - 11h30 ***S17.OC.08***
Investigating and predicting the long - term effect of drought on the demography of tree species in Central Africa
Ouédraogo D - Y, Mortier F, Gourlet - Fleury S, Picard N

11h30 - 11h45 ***S17.OC.09***
Towards trait - based mortality models for tropical forests?
Aubry - Kientz M, Ayotte - Trépanier C, Hérault B, Rossi V

11h45 - 12h00 ***S17.OC.10***
Which climate indices are relevant for predicting the response of tropical forests to future climate scenarios?
Wagner F, Moore AL, Rossi V, Hérault B

12h00 - 12h15 ***S17.OC.11***
The response of dead wood respiration to seasonal drought in a neo - tropical forest
Rowland L, Stahl C, Bonal D, Williams M, Meir P

12h15 - 12h30 ***S17.OC.12***
Identification of areas susceptible to desertification in Caatinga using Landsat images
Pellegrini AM, Carvalho AR, Ganade GM

Room Kadiwéu 2

11h00 - 12h30 ***(FS12)*** **Al Gentry Awards**
Chair: Susan Laurence (James Cook University, Australia)

11h00 - 11h15 ***FS12.OC.07***
SharedS: a software to examine the influence of occasional and rare species on shared species metrics
Frazão F, Oliveira VHF, Louzada J, Barlow J

11h15 - 11h30 ***FS12.OC.08***
Tree growth in a seasonally dry tropical forest along a rainfall gradient in Southern India
Chitra Tarak R, Sukumar R

11h30 - 11h45 ***FS12.OC.09***
Spatial patterns of trees are related with species traits in a Bolivian tropical dry forest
Corrià R, Pélissier R, Camarero JJ, Toledo M

11h45 - 12h00 ***FS12.OC.10***
Losses of native species in a Brazilian savannah invaded by slash pine
Abreu RCR, Bruna EM, Durigan G

12h00 - 12h15 ***FS12.OC.11***
Forest structure and composition of one hectare permanent plot in Mount Papandayan, Indonesia
Sulistyawati E, Iqbal A, Choesin D N, Rozieanti S

12h15 - 12h30 ***FS12.OC.12***
The relationship between abundance and range – Size in Neotropical butterflies (Nymphalidae: Ithomiini)
Gallice G

12h30 - 14h00 ***Lunch***

Room Guaicurus

14h00 - 15h30 ***(S22)*** **Network Analysis in Studies of Pollination Ecology (Part I)**
Andréa Cardoso de Araujo (Universidade Federal de Mato Grosso do Sul, Brazil)
Ana M. Martín González (UC - Berkeley, USA & University of Copenhagen, Denmark)
Bo Dalsgaard (University of Copenhagen, Denmark)

The use of network theory in ecology has been fundamental to study entire communities of interacting species. The majority of species interact with a diverse array of mutualistic partners across space and time. However, the spatio - temporal variation in plant - pollinator networks, and associated ecological and evolutionary consequences, has received little attention and is still poorly understood. Moreover, species diversity and interactions are highly complex, varying on a landscape scale, and are sensitive to landscape alterations, such as fragmentation and habitat degradation. For instance, it is widely known that disturbed areas suffer from the loss of species and loss of functional processes such as mutualistic interactions. Interestingly, several structural properties of ecological interaction networks have been argued to confer robustness against perturbations such as species extinctions and habitat loss. Thus, understanding how the mutualistic relationship among plants and pollinators is shaped during the successional process, may give valuable insight into restoration actions. In this sense, the proposed symposium aims to discuss the latest studies on mutualistic networks, with special focus on spatio - temporal variation of plant - pollinator networks. The talks which form this symposium will start by covering the evolutionary and ecological drivers which determine the structural patterns in ecological networks (talk 1), then will present different aspects of spatio - temporal variability (talks 2 - 6) and of different stages of restoration (talks 7 - 9) in plant - pollinator network structure which will help us to identify the main drivers of change in network structure, and will conclude the symposium presenting different patterns in mutualistic network compartmentalization and discussing the effects of human disturbance and fragmentation on mutualistic networks (talks 10 - 12).

14h00 - 14h15 ***S22.OC.01***
Evolution of ecological networks
Fonseca CR, Corso G, Cruz CPT

14h15 - 14h30 ***S22.OC.02***
Geographic patterns in plant - hummingbird networks
Dalsgaard B, Martín González AM, Magård E, Fjeldså J, Rahbek C, Olesen JM, Ollerton J, Abrahamczyk S, Alarcón R, Araujo AC, Cerqueira A, Cotton PA, Glauco K, Lara C, Machado CG, Ornelas JF, Sazima I, Sazima M, Timmermann A, Watts S, Sandel B, Sutherland W

14h30 - 14h45 ***S22.OC.03***
Spatio - temporal dynamics in plant - pollinator interaction networks
Carstensen DW, Morellato LPC

14h45 - 15h00 ***S22.OC.04***
Plant - pollinator network interactions of four sympatric species of *Psychotria* L. (Rubiaceae)
Mesquita Neto JN, Franceschinelli EV

15h00 - 15h15 ***S22.OC.05***
Nested bird - flower networks: comparing different approaches
Rocca MA, Amorim FW, Sazima M

15h15 - 15h30 ***S22.OC.06***
Plant - pollinator networks in two Cerrado physiognomies
Barbosa-Filho WG, Cunha NL, Araujo AC

Room Terena

14h00 - 15h30 ***(S05)*** **Ecology, Evolution, Conservation and Restoration of the Brazilian Atlantic Forest (Part III)**

14h00 - 14h15 ***S05.OC.13***
Phylogenetic habitat filtering and phylogenetic structure across a successional gradient in Atlantic Rainforest
Zanini KJ, Bergamin RS, Duarte LS, Müller SC

14h15 - 14h30 ***S05.OC.14***
Different origins for functional and species diversity variation along a Southern Brazilian Atlantic rainforest tree metacommunity
Muelbert AE, Sevegnani L, Müller SC

14h30 - 14h45 ***S05.OC.15***
Ecohydrology of Brazilian Atlantic Cloud Forests from Southeastern Brazil
Oliveira RS, Eller C, Lima A, Brum M, Migueli C, Atique G, Bittencourt P

14h45 - 15h00 ***S05.OC.16***
Do density - dependent factors organize spatial tree species distribution in the Atlantic Rainforest?
Gastauer M, Meira Neto JAA

15h00 - 15h15 ***S05.OC.17***
Reproductive success of *Aechmea winkleri* (Bromeliaceae), an endemic endangered species of Southern Brazil
Büttow MV, Goetze M, Paggi GM, Zanella CM, Pinheiro FG, Bered F

15h15 - 15h30 ***S05.OC.18***
The ghost of spur evolution past: Match and mismatch in the pollination mechanisms of highly specialized long – Spurred orchids
Amorim FW, Moré M, Vieyra SB, Sazima M, Cocucci A

Room Karuha

14h00 - 15h30 ***(S39)*** **Monitoring Terrestrial Game Animal Abundance for Management and Ecological Knowledge**
José M.V. Fragoso (Stanford University, USA & Universidade Federal de Roraima, Brasil)
Assessing, describing, and managing the role of large vertebrate species in ecosystems and human livelihoods continues to be a vexing problem in the tropics. Questions such as how many animals are out there, how are they distributed and how is all this influenced by interactions with humans continues to be a major concern. We address concerns in assessing animal populations and how animal populations are affected by interactions with humans. We also discuss how novel advances in measuring animal populations are detecting novel forms of managing animals and ecological systems by humans living in environmentally "intact" areas, as well as ecological patterns.

14h00 - 14h15 ***S39.OC.01***
Chronic underestimation of vertebrate abundances in Amazonian ecosystems limits ecological understanding and innovation in conservation
Silvius KM, Fragoso JMV, Kurten EL, Levi T

14h15 - 14h30 ***S39.OC.02***
Occupancy and detection of medium and large vertebrates in a Neotropical landscape
Kurten EL, Fragoso JMV

14h30 - 14h45 ***S39.OC.03***
Competition and facilitation in the formation of interspecific primate groups
Levi T, Silvius KM, Oliveira LFB, Fragoso JM

14h45 - 15h00 ***S39.OC.04***
Monitoring mammals – a team effort
Magnusson WE

15h00 - 15h15 ***S39.OC.06***
Empowering local people through community - based resource monitoring: applications of the comparison between Amazonia and Namibia in a national Brazilian biodiversity monitoring program in protected areas
Constantino, PAL

15h15 - 15h30 ***S39.OC.05***
Complex interactions between biodiversity and indigenous Amazonian cultures
Fragoso JMV, Silvius KM, Oliveira LFB, Luzar JB, Read JM

Room Kadiwéu 1

14h00 - 15h30 ***(S12)*** **Understanding the Increase in Lianas in Neotropical Forests (Part I)**
Stefan Schnitzer (University of Wisconsin - Milwaukee, USA)
Frans Bongers (Wageningen University, The Netherlands)
Jennifer Powers (University of Minnesota, USA)
One of the most notable changes in neotropical forests is the increase in liana abundance and biomass (Schnitzer & Bongers 2011). This increase may be based on the unique architecture and physiology of lianas, which allows them to respond rapidly to climatic and local environmental changes. In this symposium, we will focus on the latest research on liana biology within the framework of understanding the drivers of increasing liana abundance and biomass, the potential ramifications of liana increases, and the factors that control liana distribution across broad environmental gradients. By assembling a diverse group of researchers we hope to develop informed and testable hypotheses for liana increases and liana distribution based on first principles that are founded in liana anatomy, biomechanics, physiology, functional traits, and phylogeny.

14h00 - 14h15 ***S12.OC.01***
Increasing liana abundance and biomass: potential ramifications for tropical forests
Schnitzer SA

14h15 - 14h30 ***S12.OC.02***
Liana abundance and tree crown re - infestation 10 - years after liana cutting in the semideciduous Atlantic Forest: was there opportunity for tree regeneration?
Campanello PI, Villagra M, Garibaldi JF, Ritter LJ, Araujo JJ, Goldstein G

14h30 - 14h45 ***S12.OC.03***
Tropical lianas and trees under elevated CO2: seasonal drought results in differing growth and physiological responses
Marvin DC, Winter K, Schnitzer SA, Burnham RJ

14h45 - 15h00 ***S12.OC.04***
Liana competition effects on tropical tree species
Alvarez - Cansino L, Schnitzer SA, Powers JS

15h00 - 15h15 ***S12.OC.05***
Effects of liana removal on soil water content in a Panamanian moist forest
Powers JS, Schnitzer S

15h15 - 15h30 ***S12.OC.06***
The role of abundance in liana - tree nested networks
Sfair JC, Martins FR

Room Kadiwéu 2

14h00 - 15h30 ***(FS13)*** **Bacardi Awards (Part I)**
Chair: Susan Laurence (James Cook University, Australia)

14h00 - 14h15 ***FS13.OC.01***
Nesting of black caiman in the Mamirauá Reserve, mid Solimões river, Brazil
Botero - Arias, R, Igor JR, Mariana SL

14h15 - 14h30 ***FS13.OC.02***
Effects of ENSO and temporal rainfall variation in the dynamics of regenerative communities over the old - field succession in a tropical dry forest
Maza S, Martínez M

14h30 - 14h45 ***FS13.OC.03***
The influence of structural contrast on beetle assemblages along tropical forest edges
Mercado Cárdenas A, Buddle CM, Anderson RS, Barrios H

14h45 - 15h00 ***FS13.OC.04***
Palm distribution along environmental gradients in Bolivian lowland forests
Toledo M

15h00 - 15h15 ***FS13.OC.05***
Relationships between vegetation composition and soil fauna in different grasslands physiognomies in subtropical Brazil
Silveira FS, Overbeck G, Hartz SA

15h15 - 15h30 ***FS13.OC.06***
Large mammals promotes diversity
Hortenci L, Siqueira T, Galetti M

15h30 - 16h30 ***Poster Session and Coffee Break***

(FS07) **Pollination and Breeding Systems**

FS07.P.01
Floral convergence and divergence of Caribbean Heliconia across a geographic mosaic of pollinators
Marten S, Kress WJ, Temeles EJ

FS07.P.02
Reassessing the relative importance of biotic and abiotic pollination in dioecious *Chamaedorea* palms in Costa Rica
Ríos LD, Fuchs EJ, Quesada M, Cascante A

FS07.P.03
Energy of nectar for hummingbirds in an area of Cerrado in central Brazil
Araújo FP, Sazima M, Oliveira PE

FS07.P.04
Breeding systems in Bromeliaceae: is selfing more common than we know?
Matallana G, Silva PR, Wendt T, Menezes LFT

FS07.P.05
Changes in the structure of the bee community (Hymenoptera: Apoidea) along a successional chronosequence in a Mexican tropical dry forest
Ramos - Fabiel M, Pérez - García EA, Meave JA, Yáñez - Ordoñez O

FS07.P.06
Does the distance from Natural habitat affects the re - establishment of plant - pollinator interactions in retored forests? Preliminary findings
Fragoso FP, Varanda E M

FS07.P.07
Effect of disturbance on the community of floral visitors of *Allionia incarnata* (Nyctaginaceae)
Figueroa - Castro DM, Ramírez - Morales MC, Castaño - Meneses G, Rivas - Arancibia SP

FS07.P.08
Influence of different matrix types surrounding forest fragments on floral visitors of *Psychotria vellosiana* (Rubiaceae)
Ferreira LFG, Ramos FN

FS07.P.09
Resin - producing floral structures of two *Clusia* species in a restinga habitat.
Sá - Haiad B, Machado SR

FS07.P.10
Broad - domain predators decrease pollinator visitation across ecosystem boundaries
Grisolia BB, Lourenço VT, Campos MJO, Romero GQ

FS07.P.11
Floral biology of the Neotropical Galipeinae (Rutaceae): morphology, pollination and flower specialization
El Ottra JHL, Pirani JR, Pansarin ER

FS07.P.12
Resource availability and flower visitation rate in hummingbirds of the seasonal semi - deciduous forest of Paraná, Brazil
Bueno RO, Varassin IG

FS07.P.13
Drymonia strigosa: transition from melitophily to ornitophily?
Ramirez E, Martén S, Ornelas JF

FS07.P.14
Mating system and conservation strategies for _Butia eriospatha_: a vulnerable palm species from the Brazilian Atlantic Forest
Alison G Nazareno, Maurício S Reis

FS07.P.15
Identification of the major pollen resurces by the stingless bee _Melipona quadrifasciata_ (Apidae)
Paulino Neto HP, Freita GS, Castro I, Fonseca VLI, Garófalo CA

FS07.P.16
Floral anatomy in _Bulbophyllum_ sect. _Didactyle_ Cogn. (Orchidaceae, Asparagales)
Nunes ELP, Smidt EC, Coan AI

FS07.P.17
Image is nothing: pollinators' frequency is not related with floral display on five _Tibouchina_ species (Melastomataceae)
Leite FB, Brito VLG, Sazima M

FS07.P.18
Effects of florivory on floral visitors and reproductive success in Sagittaria lancifolia (Alismataceae) in a Mexican wetland, Veracruz, Mexico
Morales DR, Jaimes AA, Franco JGG

FS07.P.19
The dark side of female flowers: sexual mimicry and pollination by deceit in a monoecious species
Amorim FW, Otárola MF, Sazima M

FS07.P.20
Pollinator limitation reduces reproductive success in _Bionia pedicellata_ (Benth.) L. P. Queiroz, an ornithophilous Fabaceae
Demetrio KM, Machado IC

FS07.P.21
Flower visits and fisiological characteristics of _Dombeya wallichii_ (Malvaceae) in Sub - Montane Ombrophilous Dense Forest
Brito LS, Pessanha BF, Correia LV, Guimarães JM, Halla J, Silveira R, Soares IA, Duarte HM, Martins RM

FS07.P.22
Plant - pollinator interactions in restored areas at the Atlantic forest: is the establishment of interactions predicted by flower and insect abundance?
Souza JMT, Ribeiro C, Padial AA, Varassin IG

FS07.P.23
Do all dishes seem the same? Assessing the pollen - anther visibility to bees
Fava WS, Maruyama PK

***(FS08)* Species Interactions**

FS08.P.01
Large – Scale pattern of interactions: the case of _Centris_ and floral oil producing plants in South America
Giannini TC, Pinto CE, Acosta AL, Taniguchi M, Saraiva AM, Alves dos Santos I

FS08.P.02
Ecology of interactions between _Coragyps atratus_ (Bechstein, 1793) and _Caracara plancus_ (Miller,JF, 1777) in regions of Uberlândia - MG
Souto HN, Marçal - Júnior O

FS08.P.03
Habitat selection and subsequent experience in a naïve young jumping spider
Omena PM, Romero GQ

FS08.P.04
Effect of habitat conservation in predation of artificial nests
Jesus FM, Rodrigues VB, Campos RI

FS08.P.05
Fluorescence in tropical crab spiders: a functional and evolutionary approach
Vieira C

FS08.P.06
Galling as ecosystem engineer
Oliveira KN, Curtinhas JN, Kaminski LA, Iserhard CA, Campos RI

FS08.P.07
Larval preference and performance of _Dryas iulia_ (Lepidoptera, Nymphalidae, Heliconiini) on different species of Passifloraceae
Ladeira FA, Valadão PD, Oki Y, Fernandes GW

FS08.P.08
Status of knowledge on Helminths of Amphibians in South America
Morais DH, Toledo GM, Aguiar A, Silva LAF, Silva RJ

FS08.P.09
Nutrient loadings may explain termite nest geophagy by parakeets
Costa - Pereira R, Severo - Neto F, Inforzato I, Dias OT, Guimarães L, LAPS RR

FS08.P.10
Clutch size adjustment and the preference for big leaves in the phytophagous insect *Mechanitis polymnia* (Lepidoptera, Ithominae)
Carvalho, MRM, Vasconcellos - Neto, J, Gomes, GC, Breviglieri, CPB

FS08.P.11
Does the distance from riparian forest determine the abundance of mistletoes?
Demczuk SDB, Zava PC, Chiba WAC

FS08.P.12
Modeling the interaction of homogeneous and heterogeneous risk of predation in the feeding behavior of rodents
Menezes JFS

FS08.P.13
Hemoparasites in anurans and reptiles in the Cerrado - Pantanal regions, Mato Grosso do Sul State, Brazil
Paiva F, Santos PS dos, Ferreira VL

FS08.P.14
Longitudinal study of hantavirus hosts in southern Brazil
Teixeira BR, Strecht L, Loureiro - da - Cruz NM, Oliveira RC, Vicente LHB, Guterres A, Gomes R, Santos E, Rubio GBG, Bonvicino CR, Gentile R, Jansen AM, Lemos ERS, D'Andrea PS

FS08.P.15
The novel diet of an isolated group of blond capuchin (*Cebus flavius*) in very small patches of forest in the Pernambuco Endemism Center, northeastern Brazil
Rodrigues CM, Medeiros HLC, Silva Júnior AP, Mendes Pontes AR

FS08.P.16
Architecture of *Tabebuia aurea* (Bignoneaceae) and parasitism by *Phoradendron affini* (Loranthaceae)
Demczuk SDB, Ragusa Netto J, Araújo T, Ribeiro E, Pessôa MB, Quimbayo JP

FS08.P.17
What really matters for red - rumped agoutis, *Dasyprocta leporina*, habitat selection in a mosaic of vegetation types in northern Brazilian Amazonia?
Burgos R, Gomes FFS, Silva Jr AP, Cysneiros FJA, Mendes Pontes AR

FS08.P.18
Folivory and colleter secretion in Rubiaceae species from South Amercian Tropical Season ecosystems
Figueiredo EF, Tresmondi F, Nogueira A, Guimarães E, Machado SR

S25.P.03
Spatial variation in herbivory rates on a Neotropical ant - plant (*Tococa guianensis*)
Bartimachi A, Vasconcelos H

***(S03)* Species Diversification in Tropical and Temperate Mountains**

S03.P.01
Insights into the historical construction of species - rich Mesoamerican seasonally dry tropical forests: the diversification of *Bursera* (Burseraceae, Sapindales)
Nova JA de, Medina R, Montero JC, Weeks A, Rosell JA, Olson ME, Eguiarte LE, Magallón S

S03.P.02
Novel pollination syndromes and growth forms fostered major cactus diversification events in semiarid landscapes of North and South America
Hernandez - Hernandez T, Magallon S, Schlumpberger BO, Eguiarte LE

S03.P.03
Evolution and diversification of the high altitude Liliputana Alliance species complex (Orchidaceae: Laeliinae), endemic to the Southern Espinhaço range, Brazil
Leles BP, Hufnagel L, Kamino L, Batista JAN, Lovato MB

S03.P.04
Study on avian diversity in the Ramsagar National Park site of Dinajpur district within Bangladesh
Mollik MAH

S03.P.05
Exploring the floral evolution of Trimezieae (Iridaceae)
Lovo J, Winkworth RC, Alcantara S, Mello – Silva R

***(S05)* Ecology, Evoution, Conservation, and Restoration of the Brazilian Atlantic Forest**

S05.P.01
Exotic invasive plants on forest restoration in Atlantic Forest, Brazil
Dias J, Scolari GO, Fonte MAAM, Mantoani MC, Torezan JMD

S05.P.02
Effect of resource addition on cricket diversity: disentangling local passive sampling from environmental biodiversity drivers
Szinwelski N, Sperber CF

S05.P.03
Evolution and diversification of *Ortgiesia* (*Aechmea*, Bromeliaceae) in Southern Brazilian Atlantic rainforest
Goetze M, Palma – Silva C, Zanella CM, Capra F, Buttow MV, Pinheiro FG, Bered F

S05.P.04
Isolation and characterization of nuclear microsatellite loci for *Aechmea caudata* (Bromeliaceae) a species from the Brazilian Atlantic Rainforest
Goetze M, Louzada RB, Wanderley MGL, Souza AP, Souza LM, Bered F, Palma – Silva C

S05.P.05
Species diversity and distribution pattern of Begoniaceae along an altitudinal gradient in the Serra dos Órgãos, RJ, Brazil
Engelmann RA, Jacques EL, Wesenberg J

S05.P.06
Altered species composition and diversity in fragments of the Atlantic Rainforest of Rio de Janeiro, Brazil
Thier O, Engelmann RA, Wesenberg J

S05.P.07
Survival of native tree seedlings planted in the recovery of a riparian vegetation stretch of Pandeiros river, north of Minas Gerais State, Brazil
Fagundes NCA, Santos CS, Silva JRT, Veloso VHS, Nunes YRF, Neves WV, Veloso MD

S05.P.08
Establishment of *Cecropia pachystachya* Trécul (Cecropiaceae) seedlings implanted in the recovery of the riparian vegetation of Pandeiros river, north of Minas Gerais State, Brazil
Santos CS, Fagundes NCA, Silva RHR, Veloso VHS, Nunes YRF, Neves WV, Veloso MDM

S05.P.09
Patterns of hybridization between two sympatric species of bromeliads from Brazilian Atlantic Rainforest: evolutionary and conservation implications
Zanella CM, Palma – Silva C, Goetze M, Pinheiro FG, Buttow M, Bered F

S05.P.10
What the value of secondary forests and plantations on the conservation of understory birds in the Atlantic Forest?
Boesing AL, Anjos L

S05.P.11
Quantitative measures of fog interception using *Sphagnum* spp.
Pompeu PV, Souza JPM, Fontes MAL, Cortines E, Barbosa ACMC, Batista TA

S05.P.12
Cloud cover for modeling indicator species of cloud forests in the Serra da Mantiqueira
Pompeu PV, Kamino LHY, Fontes MAL, Carvalho NR, Júnior FWA, Souza JP

S05.P.13
Patterns of tree turnover across an elevational gradient in the Brazilian Atlantic forest
Scaranello MAS, Vieira SA, Alves LF, Camargo PB, Santos FAM, Martinelli LA, Joly CA

S05.P.14
Colonization of large – Seeded species in hedgerows in an Atlantic Forest landscape is influenced by neighboring forest cover, but not by connection itself
Oliveira CCC, Pereira LCSM, Cury RTSC, Lima A, Torezan JMD, Shimabukuro YE

S05.P.15
Surrounding landscape affects woody species regeneration in reforested sitesin Atlantic forest domain
Pereira LCSM, Oliveira CCC, Torezan JMD

S05.P.16
Conservation genetics of endangered fern *Dicksonia sellowiana* Hook. (Dicksoniaceae) in Brazil
Santos J, Soffiatti P, Labiak P, Boeger W, Muschner VC

S05.P.17
Intraspecific variation of Atlantic Rainforest understory phenology: plant responses to light and microenvironment
Soares N C, Morellato LPC

S05.P.18
Are edges and young forests always preferred by leaf - cutting ants? The case of *Acromyrmex* in the Atlantic forest
Queiroz JM, Elizalde L

S05.P.19
Functional and phylogenetic diversity along a successional gradient of Atlantic Forest
Silva VM, Pillar VP, Marques MCM

S05.P.20
Genetic diversity of *Enyalius perditus* and *Enyalius bilineatus* from Atlantic Forest fragments of Minas Gerais State (Brazil)
Vargas SM, Malaguti S, Lima LMC, Rios CHV, Santos MO, Coelho CM, Sousa BM

S05.P.21
Species abundance distribution models on analysis of relation between bird diversity and environmental and anthropic variables
Rodrigues RC, Prado PI, Hasui E

S05.P.22
Phenotypic plasticity and genetic variability of an endemic species of cacti
Giovanoni S, Soffiatti P, Muschner VC

S05.P.23
High population structure and hybridization in a montane Atlantic forest orchid species complex
Koehler S, Rodrigues JF, Novello M, Abreu AG, Oliveira GCX, Veasey EA

S05.P.24
Seasonal variation of soil N - transformation rates along a precipitation gradient in three restinga vegetations of Southeast Brazil
Mardegan SF, de Mattos EA, Martinelli LA

S05.P.25
Effects of bird perches and plant functional traits on seed arrival and seedling establishment in abandoned pastures of Southern Brazil
Zwiener VP, Cardoso FCG, Padial AA, Marques MCM

S05.P.26
A survey of Arecaceae in the Southern Brazilian Atlantic Forest as an indicator of successional stage
Costa DGA, Martins GV, Magenta MAG, Giordano F

S05.P.27
Edge effects on riparian reforestation strips with native species
Mota MC, Gonzaga GS, Silva VFA, Pereira HCB, Val RS, Silva GC, Torezan JMD

S05.P.28
Diametrical distribution analysis of *Mollinedia widgrenii* A.DC. (Monimiaceae) in a fragment of semideciduous mountain forest
Medeiros CO, Higuchhi P, Souza SCA, Fontes MAL, Oliveira - Filho AT, Oliveira CDC, Souza JPM, Barbosa ACMC

S05.P.29
Ecological filters determining functional convergence and divergence on herbaceous and seedling strata of an Atlantic rain forest of southern Brazil
Fischer MF, Guimarães TFR, Garcias FM, Duarte LDS

S05.P.30
Microtopography and tree functional and phylogenetic diversity in Atlantic forests, southeastern Brazil
Silva IA, Rochelle ALC, Ferreira FS, Martins FR

S05.P.31
Relationship between soil fertility and species richness in a primary Atlantic Rainforest patch from Southeastern Brazil
Gastauer M, Meira Neto JAA

S05.P.32
Variation in floristic composition and demography over a 12 - year period in a Brazilian lowland Atlantic forest
Nascimento MT, Souza JS, Archanjo KMPA

S05.P.33
Does edge effects in tropical forest drives to impoverishment of galling insect assemblages? A case in Atlantic Forest of Brazil
Souza DG, Santos JC, Tabarelli M

S05.P.34
Structure of fruit - feeding butterfly assemblages in the Atlantic Forest of Southeastern Brazil: comparisons between canopy and understory
Carreira JYO, Santos JP, Iserhard CA, Freitas AVL

S05.P.35
The effect of linear edges on phylogenetic diversity at the Atlantic Rain Forest, RJ, Brazil
Rosado BHP, Hottz D, Simões - Jesus MF, Lima CL, Quinet A, Rodrigues PJFP

S05.P.36
Divergent successional trajectories in invaded and burnt pastures in the Brazilian Atlantic forest
Sánchez - Tapia A, Sansevero JBB, Garbin ML, Scarano FR

S05.P.37
Linear canopy opening did not affect the proportion of seed dispersal syndromes in a tree community at the Atlantic Rain Forest, RJ, Brazil
Hottz D, Costa AF, Rosa LPG, Simões - Jesus MF, Quinet A, Lima HC, Rodrigues PJFP

S05.P.38
Diversity of nematode community in sugarcane fields and remaining of Atlantic Forest
Vicente TFS, Pedrosa EMR, Cardoso MO, Leitão DHS, Oliveira AKS, Rolim MM

S05.P.39
Proposal for optimization of forest restoration in degraded areas in the Brazilian Atlantic Rainforest
Mattiello BH, Mussi BG, Pereira LG

S05.P.40
Beta diversity of tree species in different forest formations of southern Brazilian Atlantic Forest
Bergamin RS, Esquivel AM, Zanini KJ, Blanco CC, Müller SC

S05.P.41
Climate change threatens protected areas in the Atlantic Forest biodiversity hotspot
Lemes P, Melo AS, Loyola RD

S05.P.42
Spatial modeling of the seed flow for *Hymenaea courbaril* in a fragmented landscape at Pontal do Paranapanema, Brazil
Toledo RM, Kageyama P, Santos JD

S05.P.43
Keystone species as indicators of intact food webs in a biodiversity hotspot
Jorge MLSP, Galetti M, Ribeiro MC, Ferraz KPMB

S05.P.44
Differential productivity, phenology and NDVI in preserved subtropical forests of Northern Argentina: the importance of an endangered tree species for the functioning of a forest ecosystem
Campanello PI, Montti L, Cristiano PM, Goldstein G

S05.P.45
Urticalean clade in the Atlantic Forest: endemism and conservation
Gaglioti AL, Romaniuc - Neto S, Santos A, Pelissari G, Pederneiras LC

S05.P.46
Atlantic rainforest fragmentation analysis and landscape restoration management scenarios
Zanella L, Borém RAT, Souza CG, Alves HMR

S05.P.47
Spatial distribution of three palm species in fragments of the Brazilian Atlantic Rainforest
Monteiro LM, Gonzalez AHG, Portela RCQ, Santos FAM

S05.P.48
Seed dispersal and invasive plant species in the diet of a critically - endangered primate in the Atlantic Forest
Canale GR, Rocha L, Kierulff MCM, Chivers DJ

S05.P.49
Palm recruitment in Atlantic Forest fragments: understanding the consequences of empty forests
Dracxler CM, Pires AS, Fernandez FAS

S05.P.50
Variation on functional groups of plants at a gradient of defaunation in the Atlantic forest
Zipparro VB, Galetti M

S05.P.51
Does edge effect alter the outcome of an ant - plant mutualism in the Atlantic Forest?
Almeida WR, Câmara T, Reis DQA, Tabarelli M, Leal IR

S05.P.52
Seasonal variation in rainfall decreases photosynthetic pigments in three restinga vegetations of Southeast Brazil
Antonio J, Mardegan SF, de Mattos EA, Martinelli LA

S05.P.53
Soil - mediated effects on potential *Euterpe edulis* (Arecaceae) fruit and palm heart sustainable management in the Brazilian Atlantic Forest
Brancalion PHS, Vidal E, Lavorenti N, Batista JLF, Rodrigues RR

S05.P.54
Combining ecosystem service protection and biodiversity conservation in the Atlantic Forest of Brazil
Prist P, Giorgi AP, Mills M, Fuller T, Possingham H, Metzger JP

S05.P.55
Dung beetle communities and habitat complexity in different successional stages of Atlantic rain forest in the south of Brazil
Hernández MIM, Marcon CB

S05.P.56
Is there a relaxation on distance - dependent seed predation in small fragments of Brazilian Atlantic forest?
Santo – Silva EE, Tabarelli M

S05.P.57
Allometric relations of the sub - canopy tree *Bathysa australis* (A.St. - Hil.) & Hook. in an Atlantic Tropical rainforest of SE Brazil
Reis TS, Santos FAM

S05.P.58
Effect of forest distance and nurse Araucarias on expansion of Araucaria Atlantic forest over native grassland in southern Brazil
Leithead M, Schüler AS, Pillar VD

S05.P.59
Optimizing the evaluation of plant diversity in the tropics: a test with Atlantic Forest palms
Portela RCQ, Mattos EA, Pires AS, Braz MIG

S05.P.60
Invasion of domestic dogs in two Atlantic forest fragmented landscapes with different proportions of remaining forest
Frigeri E, Oliveira G, Espartosa KD, Pardini R

S40.P.01
Reestablishing ecological processes in tropical forests: reintroduction of an important seed disperser in the Brazilian Atlantic Forest
Cid B, Mello AFT, Figueira L, Ramos M, Kenup CF, Lucas IL, Zucaratto R, Pires AS, Fernandez FAS

***(S12)* Understanding the increase in lianas in Neotropical forests**

S12.P.01
Climber diversity and the forest expansion over *campos* grasslands: a nestedness analysis
Cappelatti L, Gonçalves LO, Seger GDS, Melo AS, Duarte LS

S12.P.02
Multiple evolutions of the furrowed xylem cambial variant in the Angiosperms
Pace MR, Lupi A, Angyalossy V

S12.P.03
A census of climbers in Atlantic Forest of southeastern Brazil
Villagra BLP, Gomes EPC, Burnham RJ, Romaniuc Neto S

S12.P.04
The effect of wound on the stem and cambial variant of *Mascagnia sepium* (Malpighiaceae)
Lupi ACD, Angyalossy V

S12.P.05
Cambial variations in the roots of Sapindaceae: a case study in *Serjania caracasana*
Bastos CL, Tamaio N, Angyalossy V

S12.P.06
Comparison of the anatomical pattern of the stem in the lianescent, arboreal and shrubby habits in the Bignoniaceae
Gerolamo C, Angyalossy V

S12.P.07
Mapping Oligarchic Lianas in Amazonia (MOLA): geographically significant biodiversity
Santanna CV, Sopher LS, Burnham RJ

S12.P.08
Quantifying lianas contribution and coverage to the canopy of a seasonal tropical forest in Panamá
Rodriguez - Ronderos ME, Schnitzer SA

S12.P.09
Effect of measurement location on lianas abundance and biomass in a Neotropical savanna
Carvalho PG, van Melis J, Morellato LPC, Grombone - Guaratini MT

S12.P.10
Evolution and development of tendrils: key insights for liana diversification
Sousa - Baena MS, Sinha NR, Lohmann LG

S12.P.11
Pervasive effects of the native collared peccary (*Pecari tajacu*) on lianas, understory vegetation, leaf litter, and leaf litter arthropods in lowland Central American rain forest
Michel NL, Sherry TW, Carson WP, Wright SJ

***(S21)* Conservation, Biolology and Evolution of Fig Trees and Their Associated Wasps**

S21.P.01
Effect of habitat loss on the mutualistic interaction between *Ficus eximia* and its associated pollinators
Rattis - Teixeira LM, Furini PR, Cerezini MT, Pereira RAS

S21.P.02
Size of forest patches, richness and abundance of fig trees (*Ficus* sp.)
Monteiro ECS, Ragusa - Netto J, Müller A, Terra JS, Becker B, Zava PFSCM

S21.P.03
Ecology of a Population of *Halysidota* sp. (Lepidoptera: Arctiidae) in a *Ficus* sp. (Rosales: Moraceae) in Campus Uvaranas of the State University of Ponta Grossa - Paraná
Yanzen RK, Room zar SM, Freitas LM, Silva MC

S21.P.04
Community structure of wasps on sympatric fig tree species in the Pantanal of Brazil
Costa PC, Pereira RAS, Graciolli G

***(S22)* Network Analysis in Pollination and Other Mutualistic Systems**

S22.P.01
Interactions networks plants and hummingbirds in cerrados areas of the Triângulo Mineiro and region
Machado AO, Oliveira AM

S22.P.03
Maximizing forest restoration using network analysis of seed dispersal
Silva FR, Furtado RC, Sfair JC, Rodrigue RR, Pizo MA

S22.P.04
Exotic bee is one of the most generalist bee species on Brazilian bee - plant interaction networks
Giannini TC, Imperatriz-Fonseca VL, Saraiva AM, Kleinert AMP

S22.P.05
The effect of trait matching in hummingbird - plant interaction networks
Bueno RO, Danieli – Silva A, Varassin IG

***(S26)* Trophic Downgrading in Tropical Terrestrial Ecosystems**

S26.P.01
Top - down effects of insects and fungi on tropical forest seedling diversity and composition
Lewis OT, Bagchi R, Gallery RE, Gripenberg S, Freckleton RP

S26.P.02
Does the strength of trophic cascades vary with ecosystem size? Tests using natural microcosms
Omena PM, Srivastava DS, Romero GQ

S26.P.03
Ecological determinants of extinction risk: local abundance, niche breadth and dispersal ability as correlates of small mammal responses to forest fragmentation
Martins TK, Püttker T, Pardini R

S26.P.04
Defaunation and trophic cascades on dung beetles in the Atlantic Forest
Bovy E, Culot L, Galetti G

***(S40)* Conservation at the EDGE: Ecolology and Evolution of the Largest Mammals in Neotropical Forests**

S40.P.02
Camera trapping of jaguars (*Panthera onca*). Density estimate in the "Várzeas do Rio Ivinhema" State Park, Mato Grosso do Sul, Brazil
Sana D, Lima F, Cullen L

S40.P.03
The jaguar's patches: how many habitat remnants are needed to keep jaguars in a fragmented landscape?
Zanin M, Palomares F, Brito D

Room Guaicurus

16h30 - 18h00 ***(S22)* Network Analysis in Pollination and Other Mutualistic Systems (Part II)**
Andréa Cardoso de Araujo (Universidade Federal de Mato Grosso do Sul, Brasil)
Ana M. Martín González (UC - Berkeley, USA & University of Copenhagen, Denmark)
Bo Dalsgaard (University of Copenhagen, Denmark)

16h30 - 16h45 ***S22.OC.07***
Spatial variation in plant - pollinator networks
Nielsen A, Totland Ø

16h45 - 17h00 ***S22.OC.08***
The restoration of pollination networks in Atlantic forest
Donatti AJ, Souza JMT, Varassin IG

17h00 - 17h15 ***S22.OC.09***
Restoration of plant - pollinator networks
Devoto M

17h15 - 17h30 ***S22.OC.10***
Plant - pollinator networks and fragmented landscapes: does plants' breeding system matter?
Astegiano J, Guimarães Jr. PR

17h30 - 17h45 ***S22.OC.11***
Does the modularity of mutualistic networks depend on the degree of interaction intimacy between interacting species?
Sebastián González E, Guimarães Jr. PR, Izzo TJ

17h45 - 18h00 ***S22.OC.12***
Species roles in plant - frugivore networks in the Atlantic Rainforest and their sensitivity to human disturbances
Vidal MM, Hasui E, Guimarães PR

Room Terena

16h30 - 18h00 ***(S03)*** **Species Diversification in Tropical and Temperate Mountains**
Richard H. Ree (Field Museum of Natural History, USA)
Suzana Alcantara (Universidade de São Paulo, Brazil)

Mountain systems have long been recognized as having less species diversity per unit area (alpha - diversity) and higher species turnover (beta - diversity) compared to lowlands, and these patterns are even more pronounced in the tropics. Many ecological hypotheses involving changes in productivity and environmental conditions have been proposed to explain these gradients. However, another characteristic of mountains is the prevalence of evolutionary radiations, in which certain clades of organisms show increasing alpha - diversity with altitude. The ecological and evolutionary causes of this pattern are still poorly understood. In this symposium, we will highlight phylogenetic studies of species diversification in mountain systems around the world, across a range of taxonomic groups. We are motivated to promote the value of comparative approaches in understanding the origins and dynamics of mountain biodiversity, and to help bridge the gap between ecological and evolutionary perspectives in studying elevational and latitudinal gradients.

16h30 - 16h45 ***S03.OC.01***
One species is many: unrecognized levels of diversification of tropical macrolichens in neotropical paramos
Luecking R

16h45 - 17h00 ***S03.OC.02***
Genomic RAD data resolve phylogeny and reveal hybrid introgression in a recently diverged clade of Pedicularis (Orobanchaceae)
Eaton DAR

17h00 - 17h15 ***S03.OC.04***
Understanding the diversification of microendemic montane species in the Brazilian Atlantic Rainforest by integrating environmental niche modeling and phylogeography of co - distributed taxa
Pie MR, Schwarz - Meyer AL, Firkowski CR, Ribeiro LF, Bornschein MR

17h15 - 17h30 ***S03.OC.05***
Plant diversification in Brazilian "campos rupestres"
Alcantara S, R Ree, R Mello – Silva

17h30 - 17h45 ***S03.OC.06***
Diversification rate and functional trait shifts: consequences of Forest - Fynbos transitions in the Cape Floristic Region
Onstein RE, Carter R, Xing Y, Linder HP

Room Karuha

16h30 - 18h00 ***(S40)*** **Conservation at the Edge: Ecology and Evolution of the Largest Mammals in Neotropical Forests**
Georgina O'Farrill (University of Toronto, Canada)
Sophie Calmé (Université Sherbrooke, Canada)
Patricia Medici (Tapir Specialist Group, Brazil)

Habitat fragmentation, land use change, explosion of human populations and current climate change have detrimental effects on species populations. These effects occur at faster rates than our knowledge of these effects and probably that of species' adaptation. Two species that are under high risk of extinction are tapirs *(Tapirus sp.)* and jaguars *(Panthera onca)*, respectively the largest herbivore and carnivore of Neotropical forests. Tapirs survived the Pleistocene extinctions and ever since have been able to persist despite the changes in their habitat. However, given their population status, tapirs have recently been added to the Evolutionarily Distinct and Globally Endangered (EDGE) species. Jaguars on the other are suffering from higher rates of hunting pressure, putting their populations at high risk of extinction. The loss of these species could cause a cascade of effects on the coexisting plant and animal species with detrimental effects on tropical biodiversity. Despite the potential risk of extinction of both species specially at a landscape scale, there is severe lack of information on their ecology and therefore on the potential consequences of their extinction. We believe that the conservation of these species requires the understanding of their ecology and evolution to create better management strategies that can ensure their survival in a changing environment.

16h30 - 16h45 ***S40.OC.01***
Conservation of tapirs at the EDGE: an insight into our knowledge of this unique species
O''Farrill G, Calmé S

16h45 - 17h00 ***S40.OC.02***
The IUCN/SSC Tapir Specialist Group (TSG) and Tapir Conservation Worldwide
Medici EP

17h00 - 17h15 ***S40.OC.03***
Botany, Genetics and Ethnobotany: a Crossed Investigation on the Elusive Tapir's Diet in French Guiana
Hibert F, Sabatier D, Andrivot J, Scotti – Saintagne C, Gonzalez S, Prévost M - F, Grenand P, Taberlet P, Chave J, Caron H, Richard - Hansen C

17h15 - 17h30 ***S40.OC.04***
Effectiveness of the largest Atlantic forest corridor in promoting gene flow of lowland tapir
Sanches A, Brocardo CR, Moreira Ramírez JF, Galetti M

17h30 - 17h45 ***S40.OC.05***
A novel approach to monitor tapir populations: a study case from El Triunfo Biosphere Reserve
Eduardo M, Carbajal - Borges JP, Miranda A, Gerhenson C

17h45 - 18h00 ***S40.OC.06***
Jaguar population viability: from a landscape perspective to a continental scale approach
Zanin M, Palomares F, Brito D

Room Kadiwéu 1

16h30 - 18h00 ***(S12)*** **Understanding the increase in lianas in Neotropical forests (Part II)**
Stefan Schnitzer (University of Wisconsin - Milwaukee, USA)
Frans Bongers (Wageningen University, The Netherlands)
Jennifer Powers (University of Minnesota, USA)

16h30 - 16h45 ***S12.OC.07***
The regeneration of lianas and vines from seed on Barro Colorado Island, Panama
Wright SJ, Hernandez A

16h45 - 17h00 ***S12.OC.08***
Contrasting chemical traits in Tropical lianas and trees: implications for future forest composition
Martin RE, GP Asner

17h00 - 17h15 ***S12.OC.09***
The geographic distribution of locally dominant liana species in Amazonian forests
Burnham RJ, Dos Santos MCV, Santanna CV, Silva JB

17h15 - 17h30 ***S12.OC.10***
Biomechanics and developmental diversity: two keys to climbing plant success
Rowe N, Speck T

17h30 - 17h45 ***S12.OC.11***
Seasonality of secondary growth of tropical lianas
Lima AC, Angyalossy V

17h45 - 18h00 ***S12.OC.12***
Dendrochronology of lianas of the Leguminosae family from the Atlantic Forest, Brazil
Brandes AFN, Barros CF

Room Kadiwéu 2

16h30 - 18h00 ***(FS13)*** **Bacardi Awards**
Chair: Susan Laurence (James Cook University, Australia)

16h30 - 16h45 ***FS13.OC.07***
Effects of different legislation on the conservation status of *Amburana cearensis* in northwestern Argentina
Politi N, Rivera L, Puechagut P, Lizárraga L, Carrizo R, Defossé GE

16h45 - 17h00 ***FS13.OC.08***
Species loss in private lands of the Amazon basin
Ochoa J

17h00 - 17h15 ***FS03.P.05***
The effects of wildfires on bird communities in the Brazilian Amazon
Mestre LAM, Cochrane MA, Rechetelo J, Thom G, Barlow J

17h15 - 17h30 ***FS13.OC.10***
Effects of discontinuity of rivers (damming) on the structure of Oligochaeta (Annelida) assemblage of the Upper Paraná River
Behrend RDL, Bem CC, Pires TB, Marchese M, Takeda AM

17h30 - 17h45 ***FS13.OC.11***
Niche conservatism within woody vegetation domains in South America
Giehl ELH, Batalha M, Oliveira - Filho AT

17h45 - 18h00 ***FS13.OC.12***
Fine – Scale spatial patterns and pond morphology jointly affect metacommunity structure of Neotropical tadpoles
Provete DB, Gonçalves – Souza T, Garey MV, Rossa - Feres DC, Martins IA

Room Guaicurus

18h00 - 18h55 **Plenary Talk: Ecological interactions between frugivores and fleshy - fruited plants: lessons from the past and a look to the future.** Bette Loiselle, University of Florida Gainesville, USA.

June 22 – Conservation and Sustainable Development

Room Guaicurus

08h00 - 08h55 **Plenary Talk: Phylogeny and the sustainable use of biodiversity.** Daniel P. Faith, The Australian Museum, Australia.

Room Guaicurus

09h00 - 10h30 ***(S30)*** **Changing Drivers of Deforestation (Part I)**
Rhett Butler (Mongabay, USA)
Lian Pin Koh (ETH Zurich, Switzerland)

Since at least the 1970s people have been lamenting the destruction of the world's great forests. But while they continue to fall at a rate of more than 20 million acres a year, something has changed. Instead of hundreds of millions of poor farmers chopping down trees to put food on the table for their families, deforestation is now increasingly driven by a relatively limited number of large corporations producing or seeking access to commodities. This trend is ultimately driven by global demands for food, (bio -)energy, and natural resources. In other words deforestation is increasingly driven by profit, rather than poverty; and by regional or international markets, rather than local needs. This shift has critical implications for saving the world's forests: (1) trends in deforestation including changing drivers; (2) the role of NGOs in curbing deforestation; (3) approaches for engaging the private sector in reducing deforestation (e.g. roundtables, certification, REDD); (4) loopholes in demand – Side policies, including responses from corporations to campaigns (greenwashing); (5) the rise of markets where there are no preference for „greener" products; (6) payments for ecosystem services; and (7) how humanity can navigate the consumption bottleneck without destroying the world's forests.

09h00 - 09h15 ***S30.OC.01***
Changing drivers of deforestation: what it means for conservation
Butler R

09h15 - 09h30 ***S30.OC.02***
Forest frontiers in the Andean Amazon
Killeen TJ, Ortiz E, Konig F de, Andrade A

09h30 - 09h45 ***S30.OC.03***
Belo Monte and the controversy over Amazonian hydroelectric dams as sources of greenhouse gases
Fearnside PM

09h45 - 10h00 ***S30.OC.04***
The gold mining boom in Western Amazon
Asner GP

10h00 - 10h15 ***S30.OC.05***
Characterization and quantification of deforestation risk model uncertainty: a case of the Brazilian Amazon
Souza CJ, Sales MH, Hayashi S

10h15 - 10h30 ***S30.OC.06***
Predicting regional scale impacts of deforestation patterns originating from contrasting development scenarios in the Brazilian Amazon
Michalski F, Norris D

Room Terena

09h00 - 10h30 ***(S25)*** **The Ecology and Evolution of Plant Defenses (Part I)**
Paul Fine (University of California - Berkeley, USA)
Anselmo Nogueira (Universidade de São Paulo, Brazil)

Considerable attention has been paid to the ecology and evolution of plant defensive traits and how these defenses interact with animal herbivores. Tropical biology has been key to the development of theoretical advances and empirical investigations in this field, with a majority of the world's biodiversity composed of tropical plants and their herbivores. In this symposium we highlight innovative perspectives in current research in the study of tropical plant - herbivore interactions. In particular, we hope to highlight ecological and evolutionary aspects of defensive traits, especially the consequences of coevolutionary interactions on plants and animals at both macro and micro evolutionary scales, for both interacting species as well as in the community context. The variation in the spatial and temporal scales of animal - plant interactions is explored among the speakers in order to connect ideas that expand on the theme, with the expectation to bring out new hypotheses and approaches to be tested in tropical systems in the future.

09h00 - 09h15 ***S25.OC.01***
Extrafloral nectaries as biotic defense in plant - insect interaction networks
Diaz - Castelazo C, Lopez - Carretero A, Rico - Gray V

09h15 - 09h30 ***S25.OC.02***
The influence of extrafloral nectaries on the structure of Cerrado arboreal ant community
Camarota F, Vasconcelos H, Powell S, Priest G, Marquis R

09h30 - 09h45 ***S25.OC.03***
Evolution of extrafloral nectaries and ant - plant interactions in Neotropical lianas
Nogueira A, Rey PJ, Lohmann LG

09h45 - 10h00 ***S25.OC.04***
Patterns of host plant use by lepidopterans in the cerrado savanna: effects from foliage - dwelling ants
Sendoya SF, Freitas AVL, Oliveira PS

10h00 - 10h15 ***S25.OC.05***
A mutualistic community of ants, plant and fungi: how a third partner affects plant biotic protection by ants.
Lauth J, Malé PJG, Leroy C, Roux O, Dejean A, Orivel J

10h15 - 10h30 ***S25.OC.06***
Temporal variation in the abundance and richness of foliage - dwelling ants in the cerrado savanna: extrafloral nectar as a mediating factor
Belchior C, Del - Claro K, Oliveira PS, Sendoya SF

Room Karuha

09h00 - 10h30 ***(S32)*** **Frontier Governance in Mato Grosso, Brazilian Amazon: Can Market Transformation and Public Policy Tame Agroindustrial Expansion and Postpone Forest Dieback? (Part I)**
Paulo Brando (IPAM, Brazil)
Daniel Nepstad (IPAM, Brazil)
Michael Coe (Woods Hole Research Center, USA)
Ruth DeFries (Columbia University, USA)

Mato Grosso is Brazil's largest agricultural state, its biggest deforester, and one of the world's most advanced experiments in "frontier governance". From 2005 to 2011, deforestation declined dramatically – ~90% below its 10 - year annual average of 8000 km2 – even as agricultural production continued to grow. This remarkable decline in deforestation (representing more than half of Brazil's 68% decline in the Amazon region) was the result of several interacting factors, including a retraction of the soy and beef industries, market exclusion of deforesters through "moratoria" on soy and beef and commodity roundtables, bold governmental interventions, a voluntary land registry, and REDD. The prospect of ending and perhaps reversing deforestation in the state is overshadowed, however, by severe droughts during which fires degrade large areas of residual fires. Possible impoverishment of aquatic ecosystems through the widespread application of agricultural chemicals and stream impoundment also continues even as deforestation rates decline. The decline in deforestation is also at risk because of recent changes to the Brazilian Forest Code. Mato Grosso represents one of the world's most advanced experiments in forest frontier governance, but has not been the focus of a dedicated symposium. We propose to bring together leaders from academia, industry, farming/ranching, NGOs, and government to examine the remarkable steps towards frontier governance that were achieved in Mato Grosso and the challenges that remain.

09h00 - 09h15 ***S32.OC.01***
The end of deforestation in the Brazilian Amazon
Nepstad DC, Carter JC, Bowman M, Cattaneo A, Rodrigues H, Schwartzman S, McGrath DG, Stickler CM, Lubowski R, Piris - Cabezas P, Rivero S, Alencar A, Soares - Filho BS, Almeida O, Stella O, Lima A, Merry F, Moutinho P

09h15 - 09h30 ***S32.OC.02***
Steps towards frontier governance in Mato Grosso II: the Brazilian Forest Code and REDD
Stickler CM, Nepstad DC, Alencar AAC, Azevedo AA, Lima A

09h30 - 09h45 ***S32.OC.03***
Building remote sensing databases for sugarcane and soy monitoring in Mato Grosso
Rudorff BFTR, Adami M, Risso J, Aguiar DA

09h45 - 10h00 ***S32.OC.04***
The system for environmental licensing of rural properties in the Brazilian Amazon: key factors for landowners' participation and resultant spatial patterns
Azevedo A, Saito CH, Nepstad D, Stabile M

10h00 - 10h15 ***S32.OC.05***
Vulnerability of smallholders' livelihood in Amazon frontier due to global warming and forest fires
Alencar A, Asner G P

10h15 - 10h30 ***S32.OC.06***
Managing the global land crisis: harnessing market forces and policy innovation to manage competing interests in the land in Mato Grosso, Brazil
Nepstad D, Azevedo A, Stickler C

Room Kadiwéu 1

09h00 - 10h30 ***(S20)*** **Tree Rings and Climate Change in the Tropics: Progress Over the Last Decades (Part I)**
Jochen Schöngart (Max Planck Institute, INPA, Brazil)
Roel Brienen (University of Leeds, United Kingdom)
Gregório Cardoso Tápias Ceccantini (University of São Paulo, Brazil)

Tree ring analysis is a powerful technique to study responses of trees to climate variation or reconstruct past climate conditions. While tree ring studies have traditionally focused on temperate regions, the number of studies on tree rings in the tropics has increased strongly over recent years and some important advances have been made in tropical dendrochronology. This increase is largely driven by the need to improve our knowledge on tropical tree responses to climate change over longer time periods (including pre - industrial times), and the need for palaeoclimatic proxies from the tropics. In this session, we intend to bring together researchers working with tree ring in the tropics and to provide an overview of the latest developments and challenges in this exciting research field. The focus will be primarily on tree ring studies in tropical lowland areas. Topics may include studies on tree responses to climatic variation and to atmospheric CO2, on the use of tropical tree rings as proxies for palaeoclimatic reconstructions, and on new developments and techniques in this area such as isotopes in tree rings (d18O, d13C and d15N), intra - annual variation in wood density, etc.

09h00 - 09h15 ***S20.OC.01***
Tropical dendroclimatology for the past millennium
Stahle D

09h15 - 09h30 ***S20.OC.02***
Understanding causes of changed tree growth after gap formation: δ13C - values in tree rings reveal a predominant effect of light
van der Sleen P, Soliz - Gamboa CC, Helle G, Pons TL, Anten NPR, Zuidema PA

09h30 - 09h45 ***S20.OC.03***
Dendroclimatological aspects of *Calophyllum brasiliense* Cambess. (Calophyllaceae) in different wetland forests of Brazilian ecosystems in the savanna and tropical rainforest
Rosa SA, Schöngart J, Ceccantini GCT

09h45 - 10h00 ***S20.OC.04***
Age cohorts of trees in a tropical forest reveal the disturbance history
Vlam M, Middendorp R, Sleen van der P, Mohren G, Zuidema P

10h00 - 10h15 ***S20.OC.05***
Dendroecology and X - Ray densitometry in *Pachira stenopetala*, Caatinga of Sergipe/BR
Anholetto Junior CR, Lisi CS, Nogueira Junior FC, Tomazello Filho M

10h15 - 10h30 ***S20.OC.06***
Ancient trees in Amazonian floodplains: implications for tropical forest ecology and climate change
Jochen Schongart, Wittmann F, Piedade MTF, Junk WJ

Room Kadiwéu 2

09h00 - 10h30 ***(S13)*** **How Tropical Phenology Can Contribute to Identify Responses to Human Disturbance (Climate Change and Fragmentation)? (Part I)**
Patricia Morellato (Universidade Estadual Paulista - Rio Claro, Brazil)
Pierre - Michel Forget (Muséum National d'Histoire Naturelle, Brunoy, France)

Phenology is the study of recurring cycles of plants and animals and its relation mainly to local meteorological data, as well as to biotic interactions and phylogeny. Recently, phenology has gain importance as the simplest and most reliable indicator of the effects of climate change on plants and animals. However, the strongest results connecting, for instance, changes on timing of first flowering and leafing and bird migration to recent global warming has come from historical phenological series from North Hemisphere. Long term data sets or monitoring systems, or papers addressing plant phenology and global warming are still scarce in the tropics, where we find most of world's biodiversity. In the present symposium we aim to address the applications and developments of phenology in the tropics, from the traditional "on - the - ground" observational phenological research to the recent near remote phenology using digital cameras. We want to go over the last developments relating plant timing, animal - plant interactions and evolutionary and ecological processes. The ultimate goal is to discuss whether and how tropical plant phenology can contribute to identify ecological and evolutionary responses to natural and man induced environmental disturbances (climate change and fragmentation).

09h00 - 09h15 ***S13.OC.01***
Phenology and ecological restoration: a review
Buisson E

09h15 - 09h30 ***S13.OC.02***
Phenology of herbaceous species in savanna and Tapia (*Uapaca bojeri*) woodland on Ibity Mounatin (Madagascar)
Alvarado ST, Buisson E, Rabarison H, Rajeriarison C, Birkinshaw C, Lowry II PP

09h30 - 09h45 ***S13.OC.03***
Floral phenology of *Catopsis berteroniana* (Schult & Schult. F.) Mez (Bromeliaceae), a dioic epiphyte in an oak forest of Oaxaca México
Mondragón D, Ramírez - Morillo I, Escobedo – Sarti GJ

09h45 - 10h00 ***S13.OC.04***
The effects of urban heat islands in the phenology of tropical and temperate trees
Alves - Eigenheer MA, Jochner S, Morellato LPC, Menzel A

10h00 - 10h15 ***S13.OC.05***
Phenological patterns of two contrasting altitudinal herbaceous communities
Le Stradic S, Buisson E, Fernandes GW, Morellato LPC

10h15 - 10h30 ***S13.OC.06***
The influence of climatic variability on tropical plant phenology: a comparison between Panama and French Guiana
Mendoza I, Wright SJ, Condit R, Caubere A, Chatelet P, Hardy I, Forget P - M

10h30 - 11h00 ***Coffee Break***

Room Guaicurus

11h00 - 12h30 ***(S30)*** **Changing Drivers of Deforestation (Part II)**
Rhett Butler (Mongabay, USA)
Lian Pin Koh (ETH Zurich, Switzerland)

11h00 - 11h15 ***S30.OC.07***
Global trade could increase and complicate GHG benefits from cattle ranching intensification in Brazil
Cohn AS

11h15 - 11h30 ***S30.OC.08***
Addressing the drivers of tropical deforestation: a policy perspective
May - Tobin C, Roquemore S

11h30 - 11h45 ***S30.OC.09***
Committed carbon emissions and deforestation from oil palm plantation expansion in West Kalimantan, Indonesia
Carlson K, Curran LM, Ratnasari D, Pittman AM, Soares - Filho, BS, Asner GP, Trigg SN, Gaveau DLA, Lawrence D, Rodrigues HO

11h45 - 12h00 ***S30.OC.10***
Pathways towards a sustainable Loreto, Peru
Jenkins CN

12h00 - 12h15 ***S30.P.02***
The implications of deforestation to the population of Sumatran Tiger Barisan Selatan National Park, Sumatra, Indonesia
Suyadi S

12h15 - 12h30 ***S30.OC.12***
Challenges of pulp and paper industry expansion in Indonesia's emerging carbon economy
Barr C

Room Terena

11h00 - 12h30 ***(S25)*** **The Ecology and Evolution of Plant Defenses (Part II)**
Paul Fine (University of California - Berkeley, USA)
Anselmo Nogueira (Universidade de São Paulo, Brazil)

11h00 - 11h15 ***S25.OC.07***
Ecological interactions of a multitrophic association in the Brazilian savanna: floral buds, beetles and wasps.
Torezan – Silingardi HM

11h15 - 11h30 ***S25.OC.08***
Soil quality and herbivory influence on the performance of the shrub Solanum sisymbriifolium (Solanaceae)
Nogueira de Sá F, Kerpel S, Bottini SS

11h30 - 11h45 ***S25.OC.09***
Synchrony of leaf production as a strategy to escape herbivory in tropical forests
Lamarre G, Fortunel C, Fine P, Baraloto C

11h45 - 12h00 ***S25.OC.10***
Structural defences against large mammal herbivores in southern African woody plants
Bond WJ

12h00 - 12h15 ***S25.OC.11***
Ontogenetic switches in plant defense
Boege K, Ochoa - López S, Villamil N

S12h15 - 12h30 ***25.OC.12***
Effects of global environmental change on above and below - ground plant - herbivore interactions: a meta - analysis of experimental studies
Mundim FM, Bruna E

Room Karuha

11h00 - 12h30 ***(S32)*** **Frontier governance in Mato Grosso, Brazilian Amazon: Can market transformation and public policy tame agroindustrial expansion and postpone forest dieback? (Part II)**
Paulo Brando (IPAM, Brazil)
Daniel Nepstad (IPAM, Brazil)
Michael Coe (Woods Hole Research Center, USA)
Ruth DeFries (Columbia University, USA)

11h00 - 11h15 ***S32.OC.07***
Hydrological consequences of deforestation and postdeforestation land management in the Amazon's agricultural frontier
Macedo MN, Coe MT, Riskin SH, DeFries RS, Neill C

11h15 - 11h30 ***S32.OC.08***
Large mammal conservation in an agricultural frontier: current and future scenarios
Carvalho Jr. O, Stickler C

11h30 - 11h45 ***S32.OC.09***
Pesticide use and biodiversity conservation in agroindustrial Southern Amazon
Schiesari L

11h45 - 12h00 ***S32.OC.10***
Testing the Amazon's savannization hypothesis: effects of induced - tree mortality by fire on the establishment of C4 grasses
Silvério DV, Brando PM, Balch J

12h00 - 12h15 ***S32.OC.11***
Predictive modelling of contagious deforestation in the Brazilian Amazon
Rosa IMD, Purves D, Souza Jr. C, Ewers RM

12h15 - 12h30 ***S32.OC.12***
A decade of deforestation and degradation in the Southeastern Amazon: implications for other tropical regions
DeFries R, Herold M, Hosonuma N, Macedo M

Room Kadiwéu 1

11h00 - 12h30 ***(S20)*** **Tree Rings and Climate Change in the Tropics: Progress Over the Last Decades (Part II)**
Jochen Schöngart (Max - Plank Institute & INPA, Brazil)
Roel Brienen (University of Leeds, UK)
Gregório Ceccantini (USP, Brazil)

11h00 - 11h15 ***S20.OC.07***
Dendrochronological analysis of Fokienia hodginsii and drought dynamics in Vietnam
Martin - Benito D, Buckley B, Nam LC

11h15 - 11h30 ***S20.OC.08***
Nitrogen isotopes in tree rings indicate changes in tropical nitrogen cycle
Hietz P

11h30 - 11h45 ***S20.P.03***
What tree ring studies can and cannot tell us about tropical tree responses to climate change
Zuidema PA, Groen P, Schip P, Sleen P, Sterc F, Vlam M

11h45 - 12h00 ***S20.OC.10***
Dendroecology of two tropical vicariant species from a vegetation mosaic
Locosselli GM, Buckeridge MS, Moreira M, Ceccantini G

12h00 - 12h15 ***S20.OC.11***
Are oxygen isotopes in Amazon tree rings a good proxy for Amazon rainfall?
Brienen RJW, Helle G, Pons TL, guyot JL, GLoor M

12h15 - 12h30 ***S20.OC.12***
The urge to use dendrochronology as tool for conservation polices of tropical trees
Ceccantini G, Locosselli G, Cardim R, Balboni B

Room Kadiwéu 2

11h00 - 12h30 ***(S13)*** **How tropical phenology can contribute to identify responses to human disturbance (climate change and fragmentation)? (Part II)**
Patricia Morellato (UNESP - Rio Claro, Brazil)
Pierre - Michel Forget (Muséum National d'Historie Naturalle, France)

11h00 - 11h15 ***S13.OC.07***
Application of fourier spectral analysis to study phenology: the case of *Cecropia* in the Neotropics.
Zalamea PC, Munoz F, Stevenson PR, Paine CET, Sarmiento C, Sabatier D, Heuret P

11h15 - 11h30 ***S13.OC.08***
Comparative phenology of two parasitic plants of the genus Struthanthus (Loranthaceae) infesting two different hosts.
Teixeira - Costa L, Ceccantini G

11h30 - 11h45 ***S13.OC.09***
Monitoring tree growth and phenology in restored forests
Cardoso FCG, Shimamoto CY, Botosso PC, Marques R, Marques MCM

11h45 - 12h00 ***S13.OC.10***
Studying phenology through a morphological and anatomical retrospective analysis under tropical climate: an example on *Parkia velutina*
Morel H, Mangenet T, Beauchêne J, Ruelle J, Nicolini E, Heuret P

12h00 - 12h15 ***S13.OC.11***
Remote phenology: applying digital images to monitor leaf phenology in the Brazilian Cerrado
Alberton BC, Almeida J, Henneken R, Torres RS, Menzel A, Morellato LPC

12h15 - 12h30 ***S13.OC.12***
Phenology, climate change and human - induced disturbances: a review
Morellato, LPC

12h30 - 14h00 ***Lunch***

Room Guaicurus

14h00 - 15h30 ***(S28)*** **Management of Tropical Protected Areas: Responses to Current and Future Threats (Part I)**
Vânia Regina Pivello (Universidade de São Paulo, Brazil)
William F. Laurance (James Cook University, Australia)

Tropical ecosystems sustain much of the planet's biodiversity, and protected areas are a cornerstone of efforts to conserve this biodiversity and natural ecosystem processes in perpetuity. Unfortunately, many of the world's tropical protected areas are being besieged by serious environmental threats. Habitat loss continues apace in the tropics, and as a result many reserves are becoming isolated fragments surrounded by drastically modified landscapes. Numerous reserves are also suffering from illegal encroachment, logging, wildfires, mining, poaching, edge effects, and other degrading activities. Future climate change, moreover, could potentially pose a serious threat to reserve viability. Given this panoply of current and potential future environmental threats, can protected areas in the tropics function as arks to help conserve imperiled biodiversity, or are these arks in danger of sinking? Does each protected area face a unique combination of threats, or do many reserves suffer from common drivers of change? How can reserves be designed to maximize their resilience to environmental perils, and which management strategies are most effective for limiting the impacts of internal and external threats to reserves? These questions will underlay our proposed half - day symposium, which is designed to provide a global perspective on tropical protected areas. Our speakers will include some of the world's leading authorities on protected - area management and conservation in the tropics. This symposium is highly topical and will surely be of broad interest to many attendees at the ATBC conference in Bonito.

14h00 - 14h15 ***S28.OC.02***
Woody vegetation change in all ecoregions and protected areas of Latin America and the Caribbean, 2001 - 2010.
Clark M, Aide TM, Grau HR

14h15 - 14h30 ***S28.OC.03***
Agricultural expansion can menace Brazilian protected areas during the 21st century
Dobrovolski R, Loyola RD, De Marco Jr. P, Diniz - Filho JAF

14h30 - 14h45 ***S28.OC.04***
Are parks succeeding? State of 101 protected areas in Latin America
Cuartas M, Terborgh J, Albacete C, Carréon G, Gatti G, Martinez M, Monjeau A, Pauquet S, Room SV, Shoobridge D

14h45 - 15h00 ***S28.OC.05***
Conservation performance of strictly - protected and sustainable - use tropical reserves under varying human population density and economic prosperity
Marques AA, Peres CA

15h00 - 15h15 **S28.OC.06**
Management challenges and perspectives in Brazilian federal protected areas
Ribeiro KT, Schmidt IB, Salzo I, Marini MMG

15h15 - 15h30 ***S28.OC.07***
Homeopathy principles in the management of cerrados: tackling the problem using small doses of the problem itself
Pivello VR

Room Terena

14h00 - 15h30 ***(S25)*** **The Ecology and Evolution of Plant Defenses (Part III)**
Paul Fine (University of California - Berkeley, USA)
Anselmo Nogueira (Universidade de São Paulo, Brazil)

14h00 - 14h15 ***S25.OC.13***
Host plant extinctions and insect herbivore coextinctions in a tropical elevational gradient
Garcia-Robledo C, Kress J, Staines C, Erwin T, Erickson D

14h15 - 14h30 ***S25.OC.14***
PacBio sequencing of plant - insect interactions: how does secondary chemistry influence host - use among the herbivores of congeneric plants?
Sedio BE, Baskerville EB, Westbrook JW, Hunter MD, Dick CW

14h30 - 14h45 ***S25.OC.15***
***Phylogenetic* and ecological determinants of plant - herbivore food webs in tropical forests**
Novotny V

14h45 - 15h00 ***S25.OC.16***
The strength and diversity of plant - herbivore interactions and the evolution of ecological divergence by trees across habitat gradients in Amazonian forests
Fine P, Metz M, Lokvam J, Ayarza JM, Lamarre G

15h00 - 15h15 ***S25.OC.17***
Herbivore - driven plant speciation in tropical forests, a return to Ehrlich and Raven
Marquis RJ, Room zar D, Barnett K, O'Brien D, Priest G, Baer C, Reinhardt J

15h15 - 15h30 ***S25.OC.18***
Macroevolution and the Diversity of Plants and Herbivores
Futuyma DJ

Room Karuha

14h00 - 15h30 ***(S31)* Opportunities and Challenges Facing Conservation in the Brazilian Amazon: Human and Ecological Dimensions (Part I)**
Luke Parry (Lancaster University, UK)
Joice Ferreira (Embrapa Amazônia Oriental, Brazil)
Jos Barlow (Lancaster University, UK)
Toby A. Gardner (Lancaster University & University of Cambridge, UK)
Alexander C. Lees (Museu Paraense Emílio Goeldi, Brazil)

The Amazon is the world's largest remaining expanse of tropical forest, encompassing some 40% of the world's remaining tropical forests and a rapidly growing population of more than 20 million people. The region provides locally, regionally and globally significant human - welfare benefits both in terms of economic goods (e.g. timber, agricultural products), and non - market ecosystem services, including the regulation of climate and the conservation of biodiversity. However rural development in this region is often unsustainable, resulting in forest loss, land degradation, depletion of vital ecosystem services and local (and potentially global) species extinctions. This symposium will bring together talks from a number of large – Scale projects, including the Rede Amazonia Sustentavel (RAS - coordinated by organizers of this symposium), which tackle the challenge of biodiversity conservation in the broader context of sustainable rural development. The symposium aims to integrate across different disciplines and research questions to contribute towards a broader understanding of how different land - uses impact upon the biodiversity and the environment, the provisioning of key ecosystem services and the overall benefits delivered for local communities and the rural economy.

14h00 - 14h15 ***S31.OC.01***
Quantifying landscape degradation at a deforestation frontier in the Brazilian Amazon
Gardner T, Nunes S, Ferraz S, Cardoso T, Begotti RA, Siqueira JV, Barlow J, Berenguer E, Ferreira J, Lees A, Parry L, Venturieri A, Souza Junior C

14h15 - 14h30 ***S31.OC.02***
The end of slash - and - burn by Amazonian smallholders?
Parry L, Barlow J, Gardner TA, Ferreira JN, Ferreira, A E de M, Morrello TF

14h30 - 14h45 ***S31.OC.03***
Temporal patterns of road network development in the Brazilian Amazon
Ahmed S, Ribeiro J, Ewers RM

14h45 - 15h00 ***S31.OC.04***
The influence of supply chain configurations on soybean profitability in the Brazilian Amazon: a comparative case study of Santarém, Pará and Sorriso, Mato Grosso
Garrett RD

15h00 - 15h15 ***S31.OC.05***
Biodiversity mapping to identify priorities for conservation and restoration in human - modified landscapes of the eastern Amazon
Thomson J

15h15 - 15h30 ***S31.OC.06***
The importance of degradation on tropical forests
Berenguer E, Barlow J, Ferreira J, Gardner TA

Room Kadiwéu 1

14h00 - 15h30 ***(S19)* Integrating Plant Eco - Physiology into a Whole Vision of Tropical Forest Function**
Juan M. Posada (University of el Rosario, Colombia)
Eduardo Arcoverde de Mattos (Universidade Federal do Rio de Janeiro, Brazil)
Lou Santiago (University of California Riverside, USA)

This symposium will be a unique opportunity to learn about the most recent progresses in plant eco - physiology in tropical ecosystems around the world. The last few years have seen significant advances in the field that have improved our understanding of the evolution of plant form and function and about the role that individuals play at the community and ecosystem scale. The symposium brings together researchers working on stress physiology, resource use, photosynthesis, water relations and plant functional traits, among others, and whose work helps establish how plant morphology and physiology influences distribution and abundance of plants and the organization of communities and ecosystem processes under a changing global scenario.

14h00 - 14h15 ***S19.OC.01***
Nocturnal transpiration and hydraulic lift: how do they affect hydrological cycles in Neotropical forests and Savannas?
Goldstein G, Bucci SJ, Scholz FG

14h15 - 14h30 ***S19.OC.02***
Temperature response of leaf dark respiration of tropical canopy trees and lianas and its implication for modeling forest responses to climate warming
Kitajima K, Slot M, Wright SJ

14h30 - 14h45 ***S19.OC.03***
Exploring the role of nutrients in determining the water relations and carbon allocation of woody plants in Neotropical savannas and semi - deciduous forests
Bucci SJ, Villagra M, Scholz FG, Goldstein G

14h45 - 15h00 ***S19.OC.04***
Trait variation along a broad geographical gradient for widespread neotropical savanna trees
Franco AC, Ferreira, CS, Rossato DR

15h00 - 15h15 ***S19.OC.05***
What natural and manipulative experiments can tell us about distribution and abundance of plants along environmental gradients? The case of the Brazilian Atlantic rainforest
de Mattos EA

15h15 - 15h30 ***S19.OC.06***
Integrating wood structure and function with the life of tropical rainforest trees
Hietz P, Rosner S, Hietz – Seifert U, Wright SJ

Room Kadiwéu 2

14h00 - 15h30 ***(S07)*** **Biodiversity of Freshwater Wetlands**
Pia Parolin (University of Hamburg, Germany)
Leandro V. Ferreira (Museu E. Goeldi, Brazil)
Freshwater wetlands provide important services to the environment and to the society, e.g. water storage, river discharge buffering, water purification and refilling of the groundwater level but also maintenance of a large biodiversity and livelihood for the local population. The tropics contain the most extensive areas covered by freshwater floodplain forests worldwide – in Brazil 20% of the territory can be classified as wetlands. Some of these are highly threatened by human impact caused by infrastructure projects, especially by the construction of hydroelectric dams and mining. Knowledge about species composition and distribution, species richness and diversity and interactions is extremely scarce. The present symposium aims at highlighting the status quo of organismic and functional diversity research, and of possible impacts of climatic changes on tropical freshwater wetlands.

14h00 - 14h15 ***S07.OC.01***
Tank bromeliads: under – Studied freshwater micro - ecosystems in tropical rain forests
Leroy C, Carrias JF, Corbara B, Pelozuelo L, Brouard O, Dejean A, Cereghino R

14h15 - 14h30 ***S07.OC.02***
Morpho - hydrodynamic conditions control the invertebrate benthic fauna along meander bends in a large tropical river (Paraguay River). Implications for habitat assessments and river rehabilitation design
Blettler M, Ezcurra de Drago I, Amsler M, Drago E

14h30 - 14h45 ***S07.OC.03***
Importance of artificial wetlands and lakes as habitats for birds
Zakaria M

14h45 - 15h00 ***S07.OC.04***
Dammed rivers and vegetation changes in Amazonia
Parolin P, Norconk M, Ferreira L.V.

15h00 - 15h15 ***S07.OC.05***
Land - use history and flood regime affect woody biomass accumulation in Amazonian floodplain forests
Lucas C, Schöngart J, Sheikh P, Wittmann F, Piedade MTF, McGrath D

15h15 - 15h30 ***S07.OC.06***
Endemism and the neotropical distribution of Amazonian white - water floodplain trees
Whittmann F

15h30 - 16h30 Poster Session and Coffee Break

(FS01) **Ichthyology**

FS01.P.01
Ecomorphological patterns of the fish assemblage in Tidal Rockpools in the Amazonian Costal Zone
Soares BE, Ruffeil TOB, Montag LFA

FS01.P.02
Growth pattern of the Four - eyed fish *Anableps microlepis* Müller &Troschel, 1844 (Cyprinodontiformes: Anablepidae) in the Amazon Coastal Zone, Brazil
Paz FA, Abreu NC, Soares BE, Montag LFA

FS01.P.03
Towards a non - lethal fish sampling technique in neotropical streams: comparing electrofishing, clove oil, and rotenone.
Allard L, Grenouillet G, Tudesque L, Khazraie K, Vigouroux R, Brosse S

FS01.P.04
Morphological responses of a tropical fish to river damming
Santos ABI, Camilo FL, Araújo FG

FS01.P.05
Phytosociological survey of the Island Ball Seven Teles Pires in Alta Floresta (Mato Grosso, Brazil)
Silva IV, Oliveira DM, Souza RM

FS01.P.06
Impacts of shrimp farms in mangrove areas of Brazil
Reis CRG, Nardoto GB, Oliveira RS

FS01.P.07
Age structure and growth of *Mimagoniates microlepis* (Steindachner, 1877) (Characidae, Glandulocaudinae) from an Atlantic rainforest stream, Paraná, Brazil
Braga MR, Vitule JRS, Braga RR, Aranha JMR

FS01.P.08
Effect of envinronment on the composition of the parasitic fauna of Hoplosternum littorale (Hanocock, 1828) (Siluriformes: Callichthyidae) collected in two localities of Peixe River, Middle Tietê River, São Paulo State, Brazil
Abdallah VD, Azevedo RK, Carvalho ED, Silva RJ

FS01.P.09
Distribution and richness of the ichthyofauna in the sub - basin of Ipixuna River, Mid Madeira, Western Amazon, Brazil
Anjos, MR, Manzatto AG, Rohleder LAS, Monte PMR

***(S03)* Avian Ecology and Conservation**

FS03.P.01
Bird functional diversity and ecosystem services in tropical forests, agroforests and open agricultural areas
Sekercioglu CH

FS03.P.02
Intrinsic biological features define diverse pathways to bird extinction in a megadiverse country
Machado N, Loyola RD

FS03.P.03
Geographic variation in song of a widespread neotropical bird: implications for biogeography and conservation
Smith - Patten BD, Patten MA

FS03.P.04
An evidence - based framework for reintroducing captive - bred cracids
Bernardo CSS, Lloyd H, Collar N, Azeredo R, Simpson J, Olmos F

FS03.P.06
Patterns and processes in the structure of nectarivorous bird communities
Vizentin - Bugoni J, Maruyama P, Sazima M

FS03.P.07
Temporal variation in bird assemblage in an area of abandoned pastures in a Tropical Dry Forest in state Minas Gerais
Silva, JMA, Gonçalves RMM, Siqueira PR, Leite LO

FS03.P.08
Diversity of birds in three urban lakes with different degrees of conservation from Campo Grande, Mato Grosso do Sul, Brazil
Dainezi DIS, Ilha IMN

FS03.P.09
The functional role of birds and bats in the regulation of arthropods in productive systems of cacao (*Theobroma cacao* L., Malvaceae) in southern Bahia
Silva RM, Lazaro - Melo V., Gomes LAC, Faria DM

FS03.P.10
Effects of agroforestry system cabrucas in fruit consumption by birds in two contrasting landscapes of southern Bahia, Brazil
Bomfim JA, Silva RM, Fernandes VS, Andrade ER, Cazetta E

FS03.P.11
Improving acoustic detection of tropical birds: a comparison of automated and manual identification methods
Cerqueira MC, Aide M, Ferraz G

FS03.P.12
Bird species in urban areas in the Southern region of the Brazilian Atlantic Forest
Boesing AL, Santos - Junior PCA, Zaiden T, Anjos L

FS03.P.13
Record and description of a nest of the barred antshrike (*Thamnophilus doliatus*) (Aves: Passeriformes) on the urban area of Campo Grande, Brazil
Peres ACC, Mizobe RS, Viana VF, Alencar JPSV, Posso SR, Duleba S

FS03.P.14
Feeding ecology of Tucuman parrot *Amazona tucumana*
Rivera L, Politi N, Bucher EH

FS03.P.15
A comparison of *Eleutherodactylus coqui* calling activity in two sites in Puerto Rico using ARBIMON's automated species identification software
Milan C, Ospina O, Aide M, Corrada C

FS03.P.16
Impact of landscape structure on the foraging behavior of the King Vulture
Marie - Ève A, Calmé S

FS03.P.17
Secondary forest structure and abundance relationship in three neotropical owl species
Riba L

FS03.P.18
Using genetic variation to infer the history of *Coereba flaveola* in the West Indies
Pil MW, Ricklefs RE

***(FS10)* Forest Fragmentation**

FS10.P.01
Species extinction following habitat loss – deterministic or random? Beta - diversity patterns across landscapes and fragments
Puettker T, Pardini R

FS10.P.02
Third dimension metric improves prediction of species occurrence in a fragmented landscape
Jardim LLCZ, da Silva LG, da Cunha RGT, Hasui E

FS10.P.03
Conservation value of different land use systems for the community of Scarabaeinae beetles (Coleoptera: Scarabaeidae) in fragmented landscapes of the South of Minas Gerais – Brazil
Costa CQ, Maciel R, Beiroz W, Barretto J, Korasaki V, Louzada J

FS10.P.04
Scolytidae (Coleoptera) in forest fragment of semideciduous tropical forest and reforestation of riparian vegetation in southern of Brazil
Ronque MUV, Flechtmann CAH, Lopes J

FS10.P.05
Comparison of tree assemblage in forest fragments surrounded by different types of matrices.
Carneiro MS, Ribeiro BR, Ramos FN, Pimenta EP

FS10.P.06
Influence of different matrix types in reproductive functional groups of tree assemblage in forest fragments
Carneiro MS, Ramos FN

FS10.P.07
Identifying conservation - priority in fragmented landscape based on multiple umbrella species concept
Coelho MTP, Hasui E

FS10.P.08
Influence of adjoining eucalypt plantations on nocturnal orthoptera communities from mangrove forests in Caravelas, Bahia, Brazil
Moreira LCB, Gastauer M, Meira Neto JAA

FS10.P.09
Impacts of pasture matrix on forest fragments using ant species richness as bioindicator
Dos Santos IA, Assis DS, Esteves FGV, Constantino A, Pereira CP, Ramos FN

FS10.P.10
Agricultural land - use matrix effects on amphibian biometry, abundance and species richness in Atlantic forest fragments
Faria LF, Angulo A, Hasui E, Santos TNS, Sampaio MFO, Silva VX

FS10.P.11
Urban population and gross domestic product can`t explain the habitat fragmentation to small mammals at Brazilians Pampas, but rural population can
Lima DO, Lorini ML, Crouzeilles R, Vieira MV

FS10.P.12
Small mammal responses to fragmented landscapes: a case study in the Brazilian Atlantic Forest
Rocha FS

FS10.P.13
Do beetles compensate the low seed predation by rodents in forest fragments? A test with an Atlantic forest palm in Brazil
Silva VM, Christianini AV

FS10.P.14
How does forest fragment size affect anuran metapopulations?
Faria LF, Angulo A, Hasui E, Santos TNS, Sampaio MFO, Silva VX

FS10.P.15
Are seasonal deciduous forests more resistant to habitat loss and fragmentation?
Orihuela RLL, Reis CRM, Jarenkow JA, Tabarelli M

***(FS11)* Conservation and Sustainable Development**

FS11.P.03
Sustainable agriculture: high conservation value or high confusion value?
Edwards DP, Fisher B, Laurance SG, Wilcove DS

FS11.P.04
The silence degradation in the water paradise: sedimentation in caves of Serra da Bodoquena karst area, State of Mato Grosso do Sul, NW Brazil
Cordeiro - Borghezan LM, Borghezan R, Trajano E, Escarpinati SC, Lima KM

FS11.P.06
Conservation genetics of tropical species
Antunes A

FS11.P.08
New forests in Latin America and Caribbean: where and why
Aide TM, Grau HR, Clark ML

FS11.P.09
Helping the enemy: native nurse trees facilitate aliens to invade Brazilian Semi - Arid Shrublands
Fernández LM, Fonseca CR

FS11.P.10
Species richness and endemism of cave bats and herpetofauna in Siargao Island Protected Seascape and Landscape, Philippines
Nuñeza OM, Galorio AHN

FS11.P.11
Fractal models of animal foraging in tropical forests
Miramontes O

FS11.P.12
Genetic diversity and forest cover analysis of twenty natural populations of *Euterpe edulis* Mart. in the state of Santa Catarina, Brazil
Cristofolini C, Steiner F, Altrak G, Zechini AA, Silva JZ, Montagna T, Peroni N, Reis MS

FS11.P.13
Impact of the regional network of conservation educators in Albertine rift on sustainability of biodiversity conservation in the region
Beth K, Erasme U, Donat N

FS11.P.14
Valuing Botanic Gardens: a case study in Brazil
Resende FM, Mendonça MP, Windham - Bellord KA, Andrade DC, Veríssimo MP

FS11.P.15
Morphology of fruit and seeds of *Dipteryx odorata* (Aubl.) Willd (Fabaceae).
Oliveira DM, Silva AB, Silva IV

FS11.P.16
Distribution range of *Thinouia myriantha* Triana & Planch (Sapindaceae)
Vilela – Santos MC, Barbosa FL, Oliveira CG, Rodrigues JD, Costa F, Burnham JR

FS11.P.17
Characterization of the genetic diversity of *Cedrela fissilis* in the Lagoa do Peri Municipal Park on the Island of Santa Catarina, Brazil
Cristofolini C, Steiner F, Lindner B, Altrak G, Montagna T, Reis MS

FS11.P.18
Genetic diversity and landscape analysis in nine natural populations of *Cedrela fissilis* Vell. in the Deciduous Forest of the state of Santa Catarina, Brazil
Steiner F, Cristofolini C, Zechini AA, Montagna T, Altrak G, Peroni N, Reis MS

FS11.P.19
Spatial distribution and reproductive dynamics of freshwater turtles in Araguaia river (Goiás)
Santos AC, Carvalho AR, Ferreira ME, Caramori SS

FS11.P.20
Rich and rare ain't the common share. Describing biodiversity and informing conservation practices for South American anurans.
Villalobos F, Provete DB, Gouveia SF, Dobrovolski R

FS11.P.21
Using the soil fauna as bio - indicator of different recuperation processes of mining areas in Porto Trombetas, Pará State, Brazil
Camilo FL, Santos ABI, Correia MEF

FS11.P.22
Do national red lists induce prioritization of research on endangered species? A case study on Brazilian vertebrates
Guimarães TFR, Meneses BA, Aydos B, Blum GB, Schuh M, Fonte LFM, Martins MB, Kindel A, Guadagnin DL, Becker FG

FS11.P.23
Short - term effects of visitor trampling on aquatic macroinvertebrates in a Brazilian ecotourism Karst Region
Escarpinati SC, Siqueira T, Medina Jr. PBM, Roque FR

FS11.P.24
Evaluation of the use of commercial techniques of Bromeliad cultivation to enable its use in envrinmental restoration: preliminary results
Sampaio MC, Monteiro MHM, Vasconcellos N

FS11.P.25
Conservation of palm forests in Northwestern Argentina: prioritization criteria
Puechagut PB, Politi N, Bellis LM, Rivera L

FS11.P.26
Conservation by use of Caraguatá (*Bromelia antiacantha*): production of fruits and management of natural populations in the Araucaria Pine Forest
Filippon S, Loch SSD, Altrak G, Peroni N, Reis SM

FS11.P.27
Acting against "*savannization*" process: a northern Amazon study case
Couto – Santos FR, Luizão F

FS11.P.28
What can dragonflies tell us about the Brazilian forest legislation?
Rodrigues ME, Braz TAS, Roque FO

FS11.P.29
Occurrence of *Aechmea nudicaulis* in the urban environment of Rio de Janeiro municipality
Pitta AC, Santana IM, Beiroz H, Sampaio MC, Freitas L

FS11.P.30
Effective population size for seventeen populations of *Ocotea catharinensis* Mez. (Canela preta) in the state of Santa Catarina
Duarte RI, Montagna T, Steiner F, Loch FASS, Fernandes CD, Zago JS, Reis MS

FS11.P.31
Good practices of the Ouricuri palm tree: productivity analysis of fruits of managed palm trees in the Brazilian semi - arid
Moura FBP

FS11.P.32
Effect of species abundance and seasonality on hunting practices in the Rio Xingu Extractive Reserve, Terra do Meio, Brazilian Amazon
Ramos RM, Vieira EM

FS11.P.33
Fauna monitoring in Pará (Brazil): the relationships between fauna and enterprise at a Protected area
Pereira LG, Dinucci KL, Carvalho AS, Mattiello BH

FS11.P.34
Low primate diversity and abundance in Northern Amazonia and its implications for conservation
Mendes Pontes AR, Paula MD, Magnusson WE

FS11.P.35
The impact of smallholders vs. Large – Scale companies in oil palm plantation expansion in Sumatra utilizing the 2000 & 2010 Land Cover maps of Insular Southeast Asia
Sinan AA, Lee S, Pin Koh L

FS11.P.36
Is extinction forever?
Patten MA, Smith - Patten BD, Crawford PHC, Hough DJ, Bridge ES, Kelly JF

FS11.P.37
Invasion biology and unmatched niches: what fo they say?
Alves DM, Brito D

***(S07)* Biodiversity of freshwater wetlands**

S07.P.01
Spatial distribution of floristic composition in altitude wetland of Catarinense plateau, Southern Brazil
Magalhaes TL de, Mantovani A, Bortoluzzi RCL

S07.P.02
Specific leaf area and foliar δ13C in mangrove areas of Ilha do Cardoso, southeast coast of Brazil
Reis CRG, Nardoto GB, Oliveira RS

S07.P.03
Phylogenies help to uncover diversity patterns in Neotropical Amphibians
Provete DB

S07.P.04
Breeding biology of the Yellow - Crowned Night - Heron (*Nyctanassa violacea*) in a Natural Reserve, Parque do Pereque, Parana, Brazil
Rechetelo R, Krul R, Mestre L, Monteiro - Filho E

S07.P.05
Prey consumed by Yellow - crowned Night - heron (*Nyctanassa violacea*) in a mangrove site in the state of Paraná, south Brazil
Rechetelo J, Krul R, Mestre L, Monteiro - Filho E

S07.P.06
Investigations on seasonal variation in physicochemical and phytoplankton analysis of Shaheed Ziaur Rahman Medical College and Hospital premises fishpond inside Bangladesh
Mollik MAH

S07.P.07
Ants as bioindicators of environmental degradation in the Brazilian savannah wetlands.
Costa - Milanez CB, Silva GL, Anjos DVS, Ribeiro FF, Castro PTA, Ribeiro SP

S07.P.08
Structural characterization of Aquatic macrophytes in Northeastern Aquatic Ecosystems
Araújo ES, Fernandes DS, Sabino JHF, Cotarelli VM, Siqueira - Filho JA, Campelo MJA

S07.P.09
Composition and structure of the lacustrine bird communities of seasonally flooded wetlands of western Brazilian Amazonia at low water
Santos P, Cintra R, Melo A

S07.P.10
The role of giant armadillos (*Priodontes maximus*) as physical ecosystem engineers in a Neotropical wetland
Desbiez ALJ, Kluyber D

***(S13)* How Tropical Phenology can Contribute to Identify Plant Responses to Human Disturbance (Climate Change and Fragmentation)?**

S13.P.01
Phenology and reproductive patterns of a tropical dry forest at different successional stages in the Espinhaço Moutains, southeastern Brazil
Quintino AV, Coelho MS, Almada ED, Fernandes GW, Espírito Santo MMD, Sánchez - Azofeifa GA

S13.P.02
Seed production differences of the Andean oak *Quercus humboldtii* Bonpl. in tow Andean forests of the Colombian Eastern Cordillera
Gonzalez A

S13.P.03
Flowering phenology and fruit set in *Anadenanthera falcata* (Fabaceae) a common tree of the Brazilian cerrado savanna: comparison between pasture, edge and interior
Athayde EA, Morellato LPC

S13.P.04
Vegetative phenology and colleters secretion in Rubiaceae species from cerrado and semideciduous forest in São Paulo state
Tresmondi F, Figueiredo EF, Nogueira A, Guimarães E, Machado SR

S13.P.05
Flower and fruit production in four species from Zingiberales order in central Amazonia: denso - dependence, edaphic condition or light variation are more important?
Rodrigues FRO, Costa FRC, Freitas CG, Barbosa CE, Dambros CS, Brandão DO, Azevedo RA

S13.P.06
Use of vegetation index in the analysis of fructification phenology in a Pantanal mesoregion of Brazil
Atique G., Penatti CP, Roche KN, Paranhos AF

S13.P.07
Phenology and reproductive system of *Helicteres velutina* K. Schum. (Malvaceae): a species with "footmade" pollination by hummingbirds
Demetrio KM, Machado IC

S13.P.08
Natural edge influences the phenology and reproduction of *Gomidesia blanchetiana* (Myrtaceae), an understory Atlantic Rainforest treelet
Morellato LPC, Gressler E

S13.P.09
Reconstructing the past phenological history of tropical trees: The illustrative case of *Recordoxylon speciosum* (Benoist) Gazel ex Barneby.
Mangenet T, Morel H, Ciminera M, Leclerq A, Lepape A, Sauvagnat M, Leudet de la Vallée B, Heuret P, Nicolini E

***(S18)* Environmental Controls and the Evolution of Water Use Strategies in Tropical Plants**

S18.P.01
Effect of seasonal water stress in the physiological parameters of different species in the area of environmental remediation
Rodrigues AL, Franco DM, Pavanelli JAP, Portella RO, Almeida TTD, Almeida LFR

***(S19)* Integrating Plant Eco - Physiology into a Whole Vision of Tropical Forest Function**

S19.P.01
Ecophisiological canopy adaptations of native shrubs and trees of the Eastern Range in critical environment for growth (Colombia, South America)
Melo O, Rodríguez N

S19.P.03
Effects of xylem water transport on CO2 efflux of woody tissue in a tropical tree
Kunert N, Mercado Cardenas A

S19.P.04
Test of the optimal light use efficiency hypothesis in Andean seedlings: implications for the scaling of photosynthesis
Posada JM, Rey AC, Medina JC

S19.P.05
Cluster - root formation and tissue P concentration in a Brazilian Proteaceae species as dependent on P supply.
Costa PB, Abrahão A, Lambers H, Oliveira RS

***(S20)* Tree Rings and Climate Change in the Tropics: Progress Over the Last Decades**

S20.P.01
Potentiality of the Meliaceae to dendrochronology and dendroecology, with emphasis in the genus *Cedrella*
Tomazello M

S20.P.02
Application of species modeling to improve dendroclimatological studies in the tropics
Mattos PP, Garrastazu MC, Salis SM, Braz EM

S20.OC.09
Pan - tropical tree ring research: detecting long - term effects of climate change on tropical forest growth
Groenendijk P, Vlam M, Sleen P, Zuid P

S20.P.04
ENSO – Sensitive proxy based on high - frequency densitometry of *Manilkara huberi* (Sapotaceae) a characteristic tree species form the Central Amazon rainforest
Pinto LAA, Spiecker, Kahle, Anhuf, Schöngart J

S20.P.05
Effects of the rainy season on growth of Mimosa tenuiflora in dry tropical forest, Brazil
Mattos PP, Braz EM, Domene VD, Sampaio EVSB, Gasson P, Pareyn FGC, Alvarez IA, Baracat A, Araujo EL

S20.P.06
Divergent growth responses to water availability may explain the coexistence of tree species in Bolivian tropical dry forests
Chaparro HA, Camarero JJ, Gutiérrez E, Toledo M, Corrià R

S20.P.08
Growth rings in deciduous tree species from northern Minas Gerais, Brazil
Martins TV, Barbosa ACMC, Fontes MAL, Santos RM

S20.P.10
Contrasting the association of tree ring series from two tropical dry season - deciduous species: *Intsia bijuga* from Madagascar and *Enterolobium cyclocarpum* from Costa Rica, with yearly precipitation data.
de Gouvenain R

S20.OC.09
Pan - tropical tree ring research: detecting long - term effects of climate change on tropical forest growth
Groenendijk P, Vlam M, Sleen P, Zuid P

***(S25)* The Ecology and Evolution of Plant Defenses**

S25.P.01
Morphological and histological characterization of extrafloral nectaries and associated ants in a Mexican rain forest
Aguirre A, Coates RG, Rodríguez - Morales D, Angeles G, Campos - Villanueva A, Díaz - Castelazo C

S25.P.02
Phenological variation and its impact on florivory in a Cerrado Malpighiaceae community.
Torezan – Silingardi HM, Vilela AA, Del - Claro K

S25.P.04
Chemical protection and nutritional value of *Ficus pertusa* and *Cecropia pachystachya* infructescences, keystone fruit sources in the Pantanal
Boaretto AG, Fischer E, Eriksson AF, Marque MR

S25.P.05
Physiological response of the date palm (*Phoenix dactylifera* L.) to the red palm weevil (Rhynchophorus ferrugineus Oliver) biotic stress
AlJabr AM, Al - Ayedha, HY, AlKhateeb, AS

S25.P.06
Interaction between *Senegalia tenuifolia* (Mimosoideae) and the dominant seed predator species (Coleoptera: Bruchidae): a preliminary study
Maia LF, Tuller J, Moraes RA, Faria LDB

S25.P.07
Effect of simulated herbivory in the survival and growth of *Actinocephalus polyanthus* (Eriocaulaceae), a sand dune monocarpic species
Tito R, Castellani TT, Fáveri SB, Lopes BC

S25.P.08
Edge effects alter plant - herbivore network structure
Pinho BX, Aguiar AV, Leal IR

S25.P.09
The nest density effect and the body size importance for ant - plant interactions
Almeida FS, Mayhé - Nunes AJ, Queiroz JM

S25.P.10
Leaf herbivore by leaf - cutting ants reduce female reproductive traits of *Miconia nervosa* (Sw.) Triana (Melastomataceae)
Câmara T, Barbosa VS, Leal IR

S25.P.11
Influence of extrafloral nectar and seasonality on the structure of ant - plant interaction networks in a neotropical savanna.
Belchior C, Sendoya SF, Del - Claro K, Oliveira PS

S25.P.12
Reduction of extrafloral nectary - bearing plants in a severely fragmented Atlantic forest landscape
Câmara T, Almeida WR, Santos BA, Tabarelli M, Leal IR

S25.P.13
Insect herbivores responses to plant characteristics in *Psychotria suterella* Müll. Arg. (Rubiaceae)
Tuller J, Ribeiro R M

S25.P.14
Herbivory in *Gomidesia palustris* (Myrtaceae) in two formations of restinga, southern Brazil
Tito R, Geisler GE, de Souza LP, Castellani TT, Lopes BC

***(S27)* Avian Malaria as a Model of Host - Parasite Interactions in Tropical Environments**

S27.P.01
Host – Specificity analyses of avian malaria parasites in bird communities from Southeast Brazil
Lacorte GA, Félix GMF, Pinheiro RBP, Almeida Neto G, Chaves AV, Leite LO, Santos FR, Braga EM

S27.P.02
Testing hypothesis of host exploration strategies using data on distribution of avian *Plasmodium* lineages in bird communities from Southeast Brazil
Lacorte GA, Félix GMF, Pinheiro RBP, Almeida Neto G, Chaves AV, Leite LO, Santos FR, Braga EM

S27.P.03
Colonization history and origin of the Galápagos flycatcher (*Myiarchus magnirostris*; Passeriformes: Tyrannidae) and its parasites
Sari EHR, Klompen H, Parker PG

***(S28)* Management of Tropical Protected Areas: Responses to Current and Future Threats**

S28.P.01
Estimating the effectiveness of Malagasy protected areas in reducing deforestation
Ricardo R, Helena U, Johanna E, Tarmo V, Mar C

S28.P.02
Comparative analysis of cost and viability of different management techniques to control the invasive grass *Melinis minutiflora* in the Cerrado Conservation Units
Rodovalho NL, Nardoto GB

S28.P.04
Reconciling customary land and conservation around the Manusela National Park in Seram Island, Indonesia
Liswanti N, Laumonier Y, Fripp E, Tjoa M, Silaya T

S28.P.05
Impact of Household Behaviour on Biodiversity Conservation
Taremwa NK

S28.P.06
A new land cover transition model scheme for Southeast Asian tropical forest conservation with scenario approach
Ishii R, Matsuoka M, Saizen I, Sakai S

S28.P.07
Mountain gorilla's food abundance variability over space and time in Volcanoes National Park, Rwanda
Bizuru E, Izabayo O

S28.P.08
Effectiveness of terrestrial protected areas for fish fauna preservation
Alves dos Santos D, Message HJ, Agostinho AA, Gomes LC

S28.P.09
Conservation status of the permanent protected areas of the Coqueiral Natural Reserve, Minas Gerais, Brazil
Souza CG, Zanella L, Carvalho LMT, Borém RAT, Alves HMR, Volpato MML

S28.P.10
Comparison of the bird assemblages sampled in selective logging and preserved sites in Flora Nacional do Jamari (Rondônia, Brazil)
Mestre LAM, Oliveira A, Laranjeiras TO, Favaro F, Carvalho A, Krul R, Silva G, Rechetelo J

S28.P.11
The contribution of protected areas to the livelihoods of the adjacent communities: a case study of the Volcanoes National Park in Musanze District, Northern Province of Rwanda
Taremwa NK, Musoni E, Mutandwa E

S28.P.03
Integrating local knowledge in land use planning through a collaborative approach in Papua, Indonesia
Padmanaba M, Boissiere M

(S30) **Changing Drivers of Deforestation**

S30.P.01
Multi - temporal analysis of land - cover change between 1956 and 2006 in the Brazilian Atlantic Forest: a case study of the Biguaçu River catchment, Santa Catarina
Boudreault CG, Comtois P, Refosco J, Sevegnani L, Custodio T

(S31) **Opportunities and Challenges Facing Conservation in the Brazilian Amazon: Human and Ecological Dimensions**

S31.P.01
Environmental correlates of hunting and bushmeat consumption in the Amazonian agricultural frontier
Torres PC, Morsello C, Parry L, Gardner T, Barlow J, Ferreira J, Pardini R

S31.P.02
Instream and landscape influences on fish species composition in Brazilian Amazon
Carvalho DR, Leal CG, Leitão RP, Hughes R, Zuanon J, Pompeu PS

Room Guaicurus

16h30 - 18h00 ***(S28)*** **Management of Tropical Protected Areas: Responses to Current and Future Threats (Part II)**
Vânia Regina Pivello (Universidade de São Paulo, Brazil)
William F. Laurance (James Cook University, Australia)

16h30 - 16h45 ***S28.OC.08***
Predicting changes in ecological thresholds with a spatially explicit Dynamic Global Vegetation Model
Blanco CC, Scheiter S, Sosinski E, Fidelis A, Anand M, Pillar VD

16h45 - 17h00 ***S28.OC.09***
Kilimanjaro under global change
Hemp A

17h00 - 17h15 ***S28.OC.10***
Trees for your buck: the cost - effectiveness of protected areas in the Brazilian Amazon and Atlantic Forest
Adeney JM, Peres CA

17h15 - 17h30 ***S28.OC.11***
Protected areas and ecological restoration: a two way path
Durigan, G

17h30 - 17h45 ***S28.OC.12***
Ecological restoration of protected areas in developing island nation: how useful is the science?
Florens FBV, Baider C

17h45 - 18h00 ***S28.P.03***
Integrating local knowledge in land use planning through a collaborative approach in Papua, Indonesia
Padmanaba M, Boissiere M

Room Terena

16h30 - 18h00 ***(S27)*** **Avian Malaria as a Model of Host - Parasite Interactions in Tropical Environments**
Robert E. Ricklefs (University of Missouri – St. Louis, USA)

It is increasingly evident that parasites and pathogens exert important influences on the distribution and abundance of host species, and that they are also critical determinants of invasion success in both natural and altered environments. Habitat alteration creates new contacts among species and produces the potential for emerging infectious diseases (EIDs). Nonetheless, for many kinds of hosts, little is known about their parasites and potential impacts. Owing to the availability of DNA amplification and sequencing, information is accumulating on the geographic and host distribution of avian haemosporidian ("malaria") parasites, which are becoming a model system for studying host - parasite relationships in natural and altered systems. In this symposium, based on studies of avian haemosporidia, we shall explore the nature of parasite - host relationships in intact communities of tropical birds (Svensson, Braga), impacts of habitat alteration on parasite communities (Sehgal), potential and realized impacts of introduced malaria and other pathogens in tropical island systems (Atkinson, Parker), and the role of tropical migrants in transmitting diseases between distant regions (Bensch).

16h30 - 16h45 ***S27.OC.01***
Ecology of avian pox and malaria in the Hawaiian Islands: an ongoing conservation crisis
Atkinson CT, LaPointe DA, Giambelluca TW, Camp RJ, Jarvi SI, Samuel MD

16h45 - 17h00 ***S27.OC.02***
Risks and consequences of the spread of avian malaria between the tropics and the temperate regions
Bensch S

17h00 - 17h15 ***S27.OC.03***
Galapagos birds and their blood parasites
Parker PG, Levin II, Zwiers P, Geest E, Perlut N, Kim D, Renfrew R

17h15 - 17h30 ***S27.OC.04***
Fine scale habitat elements impact the prevalence and diversity of avian haemosporidian parasites in tropical ecosystems.
Sehgal RNM

17h30 - 17h45 ***S27.OC.05***
Prevalence and diversity of avian haemosporidian parasites in different biomes in Brazil.
Braga EM, Lacorte GA, Moreira GF, Pinheiro R, Chaves A, Almeida Neto G, Neves FS, Fecchio A, Leite L, Santos FR

17h45 - 18h00 ***S27.OC.06***
Organization of a tropical and a temperate assemblage of avian malaria parasites
Coelho MS, Blake JG, Loiselle BA, Parker PG, Penrose AS, Ellis VA, Ricklefs RE

Room Karuha

16h30 - 18h00 ***(S31)*** **Opportunities and challenges facing conservation in the Brazilian Amazon: Human and ecological dimensions (Part II)**
Luke Parry (Lancaster University, UK)
Joice Ferreira (Embrapa Amazônia Oriental, Brazil)
Jos Barlow (Lancaster University, UK)
Toby Gardner (Lancaster University & University of Cambridge, UK)
Alexander Lees (Museu Paraense Emilio Goeldi, Brazil)

16h30 - 16h45 ***S31.OC.07***
Avian responses to Amazonian land - use change
Lees AC, Moura NG, Andretti CB, Davis, BW, Barlow J, Berenguer E, Ferreira J, Gardner TA

16h45 - 17h00 ***S31.OC.08***
Recovery of forest biodiversity and carbon stocks following degradation and natural regeneration in the Amazon
Ferreira JN, Gardner T, Berenguer E, Lees A., Moura NG, Solar R, Fonseca VH, Louzada J, Cardoso T, Vieira I, Parry L, Souza C, Barlow J

17h00 - 17h15 ***S31.OC.09***
Changing patterns of soil fertility and below ground carbon in human - modified Amazonian landscapes
Durigan MR, Cerri CEP, Camargo PB de, Ferreira JN, Oliveira Jr. RC de, Gardner TA, Berenguer E

17h15 - 17h30 ***S31.OC.10***
Responses of insect diversity and function to landscape change in the Amazon
Louzada J, Braga RF, Nichols E, França FM, Oliveira VHF, Solar R, Korasaki V, Schiffler G, Berenguer E, Barlow J, Ferreira J, Gardner T

17h30 - 17h45 ***S31.OC.11***
Biotic condition of freshwater systems in human - modified Amazonian landscapes
Leal CG, Leitão RP, Hughes R, Zuanon J, Gardner T, Kaufmann P, Pompeu PS

17h45 - 18h00 ***S31.OC.12***
Fire and the future of Amazonian forests
Barlow J, Parry L, Ferreira JN, Berenguer E, Carmenta RA, Cardoso A, Ferreira, A E de M, Costa, C D F, Lopes F, Gardner TA

Room Kadiwéu 1

16h30 - 18h00 ***(S18)*** **Environmental Controls and the Evolution of Water Use Strategies in Tropical Plants**
Luitgard Schwendenmann (The University of Auckland, New Zealand)
Viviana Horna (University of Bayreuth, Germany)

Scenarios of future global climate change predict an increase in the frequency and severity of droughts promoted by higher temperatures and altered precipitation regimes (IPCC 2007). These climatic changes will have a direct effect on the plant water cycle (Ryan 2011). Physiological responses of plants to changing environmental conditions and adaptation strategies have been investigated throughout the tropics. For instance, under seasonal dry conditions, plants reduce transpiration through leaf shedding or stomatal closure. Sunken stomata, thick cuticles, low surface/volume stem and leaf ratios are examples of plant traits which evolved under xeric conditions. The objectives of our symposium are: (1) to present the newest results from studies on plant water relations in different tropical ecosystems including multi – Scale experimental approaches and long - term monitoring; (2) to compare adaptive strategies of tropical plants to changes in environmental conditions; and (3) to identify future research needs to better understand and forecast the effects of climate change on plant water relations at the individual plant and community scale.

16h30 - 16h45 ***S18.OC.01***
Tree transpiration in tropical forest plantations: effects of species, seasonality and diversity
Kunert N, Schwendenmann L, Potvin C, Hölscher D

16h45 - 17h00 ***S18.OC.02***
The role of internal water sources in regulating the water balance of woody plants
Scholz FG, Bucci SJ, Goldstein G, Meinzer FC

17h00 - 17h15 ***S18.OC.03***
A continuum in phenology, photosynthesis, and water relations of seasonally dry tropical forest trees in Santa Rosa, Costa Rica.
Gutiérrez M

17h15 - 17h30 ***S18.OC.04***
Seasonal cycles of leaf desiccation and rehydration of a vascular resurrection plant under contrasting water availabilities at the brazilian 'Campos Rupestres'
Teodoro GS, Dawson TE, West AG, Reis Júnior JCF, Oliveira RS

17h30 - 17h45 ***S18.OC.05***
Morphological and ecophysiological adaptations of the African baobab (*Adansonia digitata* L.) to drought
Smedt S, Sanchez AC, Potters G, Samson R

17h45 - 18h00 ***S18.OC.06***
Water relations and hydraulic architecture of evergreen and deciduous tree species with different wood density: the effect of a severe dry spell in the semideciduous Atlantic Forest
Rodriguez SA, di Francescantonio D, Kostlin MR, Oliva Carrasco L, Trentini C, Lezcano OA, Campanello PI, Scholz FG, Bucci SJ, Goldstein G

Room Kadiwéu 2

16h30 - 18h00 ***(FS1)*** **Ichthyology**
Chair: Lisa Davenport (Duke University, USA)

16h30 - 16h45 ***FS01.OC.01***
Abundance partition and life - history evolution of tropical stream fishes in a microhabitat scale
Espirito – Santo HMV, Rodríguez MA, Zuanon J

16h45 - 17h00 ***FS01.OC.02***
Distribution, richness and population densities of subterranean fishes from Bodoquena Plateau caves, Mato Grosso do Sul, Brazil (Teleostei: Siluriformes)
Cordeiro - Borghezan LM, Borghezan R, Trajano E

17h00 - 17h15 ***FS01.OC.03***
Distribution and occupancy of non - native species in the upper Paraná river floodplain
Message JH, Daniel AS

17h15 - 17h30 ***FS01.OC.04***
Lateral migration of fish between an oxbow lake and an Amazonian headwater river
Davenport LC, Osorio D, Terborgh JW, Alvarez A, Ortega H, Quispe R, Chipollini V

17h30 - 17h45 ***FS01.OC.05***
Fishers' local ecological knowledge identify ecological functional groups of freshwater fishes in a large Brazilian Amazon River
Silvano RAM, Ribeiro AR, Clauzet M, Juras AA, Begossi A

17h45 - 18h00 ***FS01.OC.06***
Freshwater priority setting of the Amazon Basin
Riveros JC, Rodrigues ST, Suarez C, Oliveira M, Secada

Room Gaicurus

18h:00 - 18h55 **ATBC Presidential Address: Climate change in the tropics: the end of the world as we know it?**
Richard T. Corlett, National University of Singapore, Singapore

19h00 ***Closing Ceremony & Farewell Party***

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Caron H *S40.OC.03*
Carosini A *FS06.P.04*
Carpenter S *S37.OC.02*
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Carreño Rocabado G *S36.OC.01*
Carréon G *S28.OC.04*
Carrias JF *S07.OC.01*
Carrizo R *FS13.OC.07*
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Carstensen DW *S22.OC.03*
Carter JC *S32.OC.01*
Carter R *S03.OC.06*
Carvalho AR *FS11.P.19*
Carvalho MRM *FS08.P.10*
Carvalho A *S28.P.10*
Carvalho AR *S17.OC.12*
Carvalho AS *FS11.P.33*
Carvalho C *S17.OC.07*
Carvalho CJ *S33.OC.04*
Carvalho D *FS02.P.31*
Carvalho DR *S31.P.02*
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Carvalho J *FS04.P.67*
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Carvalho LCS *FS06.P.11*
Carvalho LMT *S28.P.09*
Carvalho N *S23.P.05, S23.P.10*
Carvalho NR *S05.P.12*
Carvalho P G *S12.P.09*
Carvalho R L *FS04.P.34,S08.P.01*
Casarin JC *S08.OC.07*
Cascante A *FS07.P.02*
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Castanho A *S10.OC.02*
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Castaño-Meneses G *FS07.P.07*
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Cavaleri MA *S01.OC.09*
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Cazetta E *FS03.P.10, S08.OC.05*
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Ceccantini GCT *S20.OC.03*
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Cereghino R *S07.OC.01*
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Choesin DN *FS11.P.07, FS12.OC.11*
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Chuyong GB *S16.OC.03*
Ciampi AY *S36.P.07*
Cianciaruso MV *S35.P.11*
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Clark M *S01.OC.04, S28.OC.02*
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Coelho LA *S04.OC.03*
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Coelho MG *S08.P.13*
Coelho MS *S08.P.17, S09.OC.08, S13.P.01, S27.OC.06*
Coelho MTP *S02.P.06,FS10.P.07*
Coforchange C *S01.OC.03*
Cohen MCL *S02.OC.02*
Cohn AS *S30.OC.07*
Colchero F *FS04.P.66*
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Corbara B *S07.OC.01*
Cordeiro JLP *S06.P.10*
Cordeiro-Borghezan LM *FS01.OC.02, FS11.P.04*
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Corrada C *FS03.P.15*
Corrada-Bravo CJ *S14.OC.04*
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Correia MEF *FS11.P.21*
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Corrià R *FS12.OC.09, S20.P.06*
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Cortes M *FS06.OC.02*
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Costa DGA *S05.P.26*
Costa FRC *FS04.P.02,S04.OC.10,S13.P.05*
Costa AF *S05.P.37*
Costa AN *S08.OC.04*
Costa CDF *S31.OC.12*
Costa CQ *FS10.P.03*
Costa F *FS04.P.45,FS11.P.16*
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Costa MAS *FS02.P.04*
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Costa PB *S19.P.05*
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Cracraft J *S04.OC.03*
Cranston KA *S41.OC.03*
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Duarte AS *FS04.P.73*
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Eaton DP *S06.OC.06, S06.OC.07,S06.OC.10*
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Eguiarte LE *S03.P.01,S03.P.02*
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Eler E *S04.OC.11*
Elespuru N *S10.OC.01*
Eleuterio AA *S36.OC.12, S36.P.06*
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Elizalde L *S05.P.18*
Eller C *S05.OC.15*
Ellis VA *S27.OC.06*
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Encinas J M I *FS02.P.25*
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Erwin T *S25.OC.13*
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Escarpinati SC *FS11.P.04, S36.P.08,FS11.P.23*

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Espírito Santo NB *FS05.OC.03, FS14.P.01*
Espírito-Santo M *S09.OC.09*
Espírito-Santo MM *S09.OC.10, S37.P.03,S23.P.06,FS04.P.16, S08.P.04,S11.OC.12*
Esquivel AM *S05.P.40*
Esteves FGV *FS10.P.09*
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Ettrich DE *FS09.P.04*
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Eycott AE *S36.OC.07*
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Fabre PH *S02.OC.04*
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Facure KG *S35.P.02*
Fadini RF *FS06.P.01, S23.P.02*
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Fagundes PB *S16.P.05*
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Faria DM *FS03.P.09*
Faria LDB *S25.P.06*
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Faria ML *FS06.P.13*
Farias I *S04.OC.05*
Fauset S *S17.OC.06*
Fava WS *FS07.P.23, S02.P.01*
Favaro F *S28.P.10*
Fáveri SB *S25.P.07*
Favier C *S01.OC.01, S01.OC.02,S01.OC.03*
Fayolle A *S17.OC.01,S36.OC.04*
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Felfili J M *S06.OC.02*
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Fernandes DS *FS04.P.03, S07.P.08*
Fernandes GW *FS02.P.17,FS02.P.18,FS04.P.26, FS04.P.62, S09.OC.09,S08.P.01, S08.P.19, FS06.P.02, FS08.P.07, S08.P.17, S09.OC.08, S13.OC.05, S13.P.01, S35.P.09*
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Fernandez F *S09.P.01, S11.OC.10*
Fernandez FAS *S05.P.49, S40.P.01*
Fernández LM *FS11.P.09*
Ferraz KMPMB *FS04.P.07,FS06.P.10*
Ferraz G *FS03.P.11,S38.OC.03*
Ferraz JBS *S16.P.15*
Ferraz KPMB *S05.P.43*
Ferraz S *S31.OC.01*
Ferreira A E de M *S31.OC.02, S31.OC.12*
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Ferreira FC *FS04.P.72*
Ferreira J *S31.OC.10*
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Ferreira AS *S08.P.08*
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Ferreira J *FS12.OC.02, S31.OC.01, S31.OC.06, S31.OC.07, S31.P.01*
Ferreira JN *S10.OC.10, S31.OC.02, S31.OC.12*
Ferreira L *S04.OC.11*
Ferreira LFG *FS07.P.08*
Ferreira LV *S07.OC.04*
Ferreira MMF *S23.P.10*
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Ferreira TS *FS09.P.06*
Ferreira VL *S06.P.06, S06.P.15*
Feteke F *S01.P.10*
Fiaschi P *S16.P.18*
Fidalgo ECC *S05.OC.04*
Fidelis A *FS09.OC.03, S28.OC.08,S35.P.01*
Fidelis AT *S08.P.06*
Figueira J E C *S06.OC.03*
Figueira L *S40.P.01*
Figueiredo FOG *FS04.P.02*
Figueiredo EF *FS08.P.18, S13.P.04*
Figueiredo F *FS04.P.20*
Figueiredo LGU *FS02.P.15*
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Figueroa-Castro DM *FS07.P.07*
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Oliveira CG *FS11.P.16*
Oliveira DM *FS01.P.05, FS11.P.15*
Oliveira DR *S08.P.15*
Oliveira EG *FS05.P.09*
Oliveira FMP *S29.P.22*
Oliveira G *S05.P.60*
Oliveira GCX *S05.P.23*
Oliveira GM *S08.P.12*
Oliveira Junior R C de *S31.OC.09*
Oliveira KN *FS08.P.06*
Oliveira LFB *S06.OC.09, S39.OC.03, S39.OC.05*
Oliveira LSB *FS04.P.18*
Oliveira M *FS01.OC.06*
Oliveira P S *S25.OC.04,S25.OC.06, S25.P.11*
Oliveira PE *S08.P.12*
Oliveira PEMA *S36.P.05*
Oliveira PS *FS05.OC.02*
Oliveira RC *FS08.P.14*
Oliveira RS *FS01.P.06, S05.OC.15, S07.P.02, S19.P.05*
Oliveira VHF *FS12.OC.02, S10.OC.10*
Oliveira-Filho AT *FS09.P.07, S05.P.28,FS13.OC.11*
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Oliveras I *S10.OC.08,S10.OC.09*
Ollerton J *S22.OC.02*
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Omena PM *FS08.P.03, S26.P.02*
Onefeli A O *S37.P.01*
Onofre FF *S09.OC.12*
Onstein RE *S03.OC.06*
Ordoñez-Ifarraguerri A *FS02.P.10*
Orihuela RLL *FS10.P.15*
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Orozco L *S09.OC.02*
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Ortiz E *S30.OC.02*
Orwin K *FS12.OC.05*
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Ospina O *FS03.P.15*
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Pacheco R *FS05.P.03, S08.P.07, S08.P.18*
Padial AA *FS07.P.22, S05.P.25*
Padmanaba M *S28.P.03*
Padoch C *S10.OC.07, S35.OC.02*
Pádua JAR *FS02.P.31*
Paggi GM *S05.OC.17, S06.P.19*
Paglia AP *S05.OC.06*
Pagotto CP *FS04.P.54*
Paine CET *S13.OC.07*
Paiva AMO *FS04.P.62*
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Paiva F *FS08.P.13, S06.P.13*
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Paixão E *S10.OC.12*
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Palmer TM *S26.OC.05*
Palmieri L *S21.OC.08*

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Paniagua N *S41.OC.02*
Pansarin E R *FS07.P.11*
Paolucci LN *FS05.OC.05*
Parada AG *FS04.P.45*
Paranhos AF *S13.P.06*
Pardini R *FS04.P.54, FS10.P.01, S05.P.60, S26.P.03, S31.P.01, S38.OC.01,FS04.P.70*
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Parolin P *FS02.P.23, S07.OC.04*
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Patané JSL *S04.OC.02*
Patel S *S04.OC.02*
Paterno GBC *FS09.OC.04*
Patten MA *FS03.P.03, FS11.P.36*
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Paulino Neto H P *FS07.P.15*
Paulo B *S23.P.01*
Pauquet S *S28.OC.04*
Pavanelli JAP *S18.P.01*
Paz A *S16.OC.08*
Paz CP *FS04.P.63*
Paz FA *FS01.P.02*
Paz H *S11.OC.01, S11.OC.08*
Pederneiras LC *S05.P.45*
Pedroni F *S06.P.04,S35.P.02*
Pedrosa EMR *FS04.P.18, S05.P.38*
Peixoto AL *S15.OC.02, S15.P.04*
Peixoto RTG *S05.OC.04*
Peixoto FP *S23.OC.18*
Pelissari G *S05.P.45*
Pélissier R *FS12.OC.09, S16.OC.03*
Pellegrini AM *S17.OC.12*
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Pellikka P *S36.OC.08*
Pelozuelo L *S07.OC.01*
Pena JCC *S06.P.01, S06.P.08*
Peña-Claros M *S01.OC.10, S29.P.08, S36.OC.01*
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Penha AS *FS04.P.07,FS06.P.10*
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Pérez AJ *FS04.P.17*
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Perez R *FS04.P.17, S17.OC.05,FS07.P.05*
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Perlut N *S27.OC.03*
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Phillips O *S04.OC.11, S10.OC.02,FS04.P.45*
Phillips OL *S01.OC.11, S01.P.01*
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Pillar VP *S05.P.19*
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Pinho BX *S25.P.08*
Pinho JB *S06.OC.08*
Pino D *S17.OC.05*
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Pinto *S20.P.04*
Pinto CE *FS08.P.01*
Pinto J *S41.OC.02*
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Pires GF *S08.P.05*
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Pitta AC *FS11.P.29*
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Prada CM *FS04.P.31*
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Prado PI *FS09.OC.02, S16.OC.12,S05.P.21*
Prance GT *S04.OC.09*
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Queiroz ACM *FS05.P.02, S16.P.12*
Queiroz CS *FS02.P.08*
Queiroz IR *FS02.P.04*
Queiroz JM *S05.P.18, S25.P.09*
Queiroz PS *FS05.P.10*
Quesada B *S04.OC.11, S10.OC.02*
Quesada M *FS07.P.02, S09.OC.03, S26.OC.12*
Quesada QA *FS04.P.45*
Quesasa M *FS09.OC.01*
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Quinet A *S05.P.35,S05.P.37*
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Rasplus J-Y *S21.OC.01, S21.OC.02,S21.OC.05*
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Ratsirarson J *S36.OC.09*
Rattis-Teixeira LM *S21.P.01*
Razafindratsima OH *FS06.P.06*
Read JM *S39.OC.05*
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Rebello VEF *S15.OC.06*
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Reis CRG *FS01.P.06, S07.P.02*
Reis CRM *FS10.P.15*
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Ribas CR *FS05.P.02, S01.P.07, S01.P.11*
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Ribeiro AR *FS01.OC.05*
Ribeiro BR *FS10.P.05*
Ribeiro C *FS07.P.22*
Ribeiro E *FS08.P.16*
Ribeiro EMS *S06.P.09, S29.P.19*
Ribeiro FF *S07.P.07,S08.P.01*
Ribeiro GHPM *S11.OC.09, S11.P.01,S10.OC.11*
Ribeiro KT *S28.OC.06*
Ribeiro LF *S03.OC.04*
Ribeiro M *S26.OC.01*
Ribeiro MC *S05.P.43, S21.OC.04*
Ribeiro Neto JD *S29.P.09*
Ribeiro PL *S02.P.04*
Ribeiro RM *S25.P.13*
Ribeiro SP *FS02.P.05, FS05.P.01,FS05.P.05,FS05.P.07, S07.P.07,FS04.P.19, FS05.OC.03, FS05.P.10, FS14.P.01,FS04.P.34,S08.P.01*
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Riberio J *S31.OC.03*
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Ricklefs RE *FS03.P.18, S27.OC.06*
Rico-Gray V *S25.OC.01*
Rifai S *S11.OC.09*
Rios CHV *S05.P.20*
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Riskin SH *S32.OC.07*
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Risso J *S32.OC.03*
Rito KF *S09.P.02*
Ritter CD *S04.OC.03*
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Roberto IJ *FS13.OC.01*
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Rocha GPE da *S08.P.15, S09.OC.11*
Rocha K *S29.OC.05*
Rocha L *S05.P.48*
Rocha LEA *FS14.P.01*
Rocha P *S02.OC.10*
Rocha RG *FS02.P.09*
Rocha SB *FS04.P.12*
Rocha W *FS14.P.01*
Rocha-Mendes F *S26.OC.01*
Roche KN *S13.P.06*
Rochelle ALC *S05.P.30, S16.P.09*
Rockwell C *S29.OC.05*
Rodarte R *S05.OC.10,S26.OC.01, S26.OC.01*
Rodovalho NL *S28.P.02*
Rodrigues M *S02.OC.08*
Rodrigues RC *S05.P.21*
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Rodrigues AK *S01.P.08*
Rodrigues AL *S18.P.01*
Rodrigues CM *FS04.P.32, FS08.P.15*
Rodrigues CS *S29.P.07*
Rodrigues DJ *S04.OC.10*
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Rodrigues H *S32.OC.01*
Rodrigues HO *S30.OC.09*
Rodrigues JD *FS11.P.16*
Rodrigues JF *S05.P.23*
Rodrigues LS *S08.P.07*
Rodrigues M *S02.OC.10*
Rodrigues ME *FS04.P.71, FS11.P.28*
Rodrigues MT *S04.OC.06*
Rodrigues PJFP *S05.P.35,S05.P.37*
Rodrigues RG *S09.OC.12*
Rodrigues RO *S13.P.05*
Rodrigues RR *S05.P.53*
Rodrigues ST *FS01.OC.06*
Rodrigues VB *FS08.P.04*
Rodriguez A *S38.OC.03*
Rodriguez LJ *S21.OC.03*
Rodriguez LJV *S21.OC.02*
Rodriguez MA *S38.OC.04,FS01.OC.01*
Rodríguez N *S09.P.01, S11.OC.10, S19.P.01, S29.P.16*
Rodriguez SA *S18.OC.06*
Rodriguez-Castaneda G .. *S24.OC.05*
Rodríguez-Morales D *S25.P.01*
Rodríguez-Ortíz CE *FS02.P.22*
Rodriguez-Ronderos ME . *S12.P.08*
Rogan J *S35.OC.03*
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Rohleder LAS *FS01.P.09, FS04.P.33*
Rojas RMR *FS06.OC.05*
Rolim HM *FS09.P.04*
Rolim MM *FS04.P.18, S05.P.38*
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Romaniuc-Neto S *FS02.P.29, S05.P.45,S12.P.03*
Romero E *S11.OC.01*
Romero GQ *FS04.P.01, FS04.P.15, FS07.P.10, FS08.P.03, S16.OC.10, S16.P.14, S23.P.03, S26.P.02*
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Ronque MUV *S08.P.02,FS10.P.04*
Rønsted N *S21.OC.01*
Roque FR *FS11.P.23*
Roque FO *S36.P.08,FS04.P.71, FS11.P.28*
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Rosa IMD *S32.OC.11*
Rosa LPG *S05.P.37*
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Rosado BHP *S05.P.35,S16.P.03*
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Roux O *S25.OC.05*
Rowe N *S12.OC.10*
Rowland L *S17.OC.11*
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Rozieanti S *FS12.OC.11*
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Rubín E *S41.OC.02*
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Rudolph B *FS02.P.23*
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Sabino JHF *FS04.P.03, S07.P.08*
Sacramento M *S02.P.06*
Sada D *S06.OC.07*

Sobrenome *Resumo*
Sadle J *FS04.P.61*
Sá-Haiad B *FS07.P.09*
Saito C H *S32.OC.04*
Saizen I *S28.P.06*
Sakai S *S28.P.06*
Sakishima T *FS02.P.01*
Salamao R *S04.OC.11*
Salas V *S28.OC.04*
Salazar D *S24.OC.04,S25.OC.17*
Salazar SM *S21.P.03*
Salengue EV *S29.P.24*
Sales MH *S30.OC.05*
Sales NM *FS06.P.02*
Salgueiro F *S02.P.02*
Salimena F *FS04.P.08*
Salimena FRG *FS02.P.28*
Salimon C *S29.OC.05*
Salinas D *S10.P.01*
Salinas L *S41.OC.02*
Salinas N *S10.OC.04,S10.OC.05, S10.P.01,S10.P.03*
Salis SM *S20.P.02*
Salzo I *S28.OC.06*
Samamé M *S41.OC.02*
Sampaio MC *FS11.P.24, FS11.P.29*
Sampaio EVSB *S20.P.05*
Sampaio MFO *FS10.P.10, FS10.P.14*
Sampaio PS *S41.OC.05*
Samson R *S18.OC.05*
Samuel MD *S27.OC.01*
Sana D *S40.P.02*
Sanches A *S26.OC.01,S40.OC.04*
Sanchez A C *S18.OC.05*
Sanchez AM *S01.OC.04*
Sanchez G *S09.OC.03*
Sanchez M *S35.P.02*
Sanchez-Azofeifa GA *S08.P.04,S09.OC.10,S09.OC.08, S13.P.01*
Sanchez-Azofeifa A *FS04.P.26*
Sánchez-Battenberg J *FS04.P.21*
Sánchez-Tapia A *S05.P.36*
Sandel B *S22.OC.02*
Sansevero JBB *S05.P.36*
Sansilvestri R *S01.OC.02*
Santana IM *FS11.P.29*
Santana J *S23.OC.13*
Santanna CV *S12.OC.09,S12.P.07*
Santiago AV *S33.OC.04*
Santiago DF *FS05.OC.01*
Santos ABI *FS11.P.21*
Santos C S *S05.P.07, S05.P.08*
Santos J C *S05.P.33*
Santos JM *S06.P.04*
Santos MCA *S06.OC.06, S06.OC.07,S06.OC.10*
Santos A *S05.P.45*
Santos AB *FS09.P.04*
Santos ABI *FS01.P.04*
Santos AC *FS11.P.19, S35.P.06*
Santos AMM *S05.OC.03*
Santos BA *FS06.P.04, S06.OC.05, S25.P.12, S29.OC.06*
Santos CD *S23.OC.13*
Santos CF *S23.OC.11, S23.P.13*
Santos dos J *S16.P.15*
Santos E *FS08.P.14*
Santos F *S04.OC.11*
Santos FAM *S05.OC.11, S05.P.13, S05.P.47*
Santos FAM *S05.P.57*
Santos FR *S27.OC.05, S27.P.01, S27.P.02*
Santos FS *S29.P.07*
Santos J *S05.P.16, S11.P.01*
Santos JD *S05.P.42*
Santos JP *S05.P.34*
Santos KCPS *FS05.P.10*
Santos MO *S05.P.20*
Santos P *S07.P.09*
Santos PS dos *FS08.P.13*
Santos RA *S23.P.04*
Santos RM *S09.OC.08,S20.P.08*
Santos TNS *FS10.P.10, FS10.P.14*
Santo-Silva EE *FS06.OC.06, S05.P.56*
Santos-Junior PCA *FS03.P.12*
Saraiva A M *FS08.P.01, S22.P.04*
Sari EHR *S27.P.03*
Sarmento K *FS04.P.25*

Sobrenome *Resumo*
Sarmiento C *S13.OC.07*
Sarukhán J *S37.OC.06*
Sass C *S02.OC.08,S02.OC.10*
Sattler D *S05.OC.04*
Sauvagnat M *S13.P.09*
Sayago R *S09.OC.03*
Sazima I *S22.OC.02*
Sazima M *FS02.P.32, FS07.P.03,FS03.P.06, FS07.P.17, FS07.P.19, FS12.OC.04, S05.OC.18, S22.OC.02, S22.OC.05*
Scaranello M *S05.OC.11*
Scaranello MAS *S05.P.13*
Scarano FR *S05.P.36*
Scariot A *S34.P.02, S34.P.03*
Schaefer C *FS04.P.51*
Schaefer HM *S08.OC.05*
Scheiter S *S28.OC.08*
Schiesari L *S32.OC.09*
Schietti J *FS04.P.20, FS04.P.25, FS04.P.45, FS04.P.50*
Schiffler G *S31.OC.10*
Schimann H *S16.OC.05*
SchipP *S20.P.03*
Schlumpberger BO *S03.P.02*
Schmaedecke G *S26.OC.01,S26.OC.11*
Schmidt FA *S01.P.07, S01.P.11*
Schmidt IB *S28.OC.06*
Schmidt IB *S08.OC.12*
Schmook B *S35.OC.03*
Schneider L *S35.OC.03*
Schnitzer S *S12.OC.05*
Schnitzer SA *S12.OC.01, S12.OC.03, S12.OC.04, S12.P.08*
Schoereder JH *FS05.OC.05,FS05.OC.06, S01.P.07, S01.P.11, S10.OC.10S29.P.06*
Scholz FG *S18.OC.02, S18.OC.06, S19.OC.01, S19.OC.03*
Schondube J *S11.OC.08*
Schöngart *S20.P.04*
Schöngart J *S06.OC.04,S07.OC.05,S20.OC.03,S20.OC.06*
Schuh M *FS11.P.22*
Schüler AS *S05.P.58*
Schwartzman S *S32.OC.01*
Schwarz M *FS04.P.45*
Schwarz-Meyer AL *S03.OC.04*
Schwendenmann L *S18.OC.01*
Scolari G O *S05.P.01*
Scotti-Saintagne C *S40.OC.03*
Scremin-Dias E *S29.P.14*
Sebag D *S01.OC.01*
Secada L *FS01.OC.06*
Sedio BE *S25.OC.14*
Seger GDS *S12.P.01,S16.P.06, S29.P.24*
Sehgal RNM *S27.OC.04*
Sekercioglu CH *FS03.P.01*
Sendoya SF *S25.OC.04, S25.OC.06, S25.P.11,FS05.OC.02*
Serra M *S34.OC.06*
Setty S *FS12.OC.06*
Sevegnani L *S05.OC.14,S29.P.13, S30.P.01*
Severo-Neto F *FS08.P.09*
Sfair JC *S12.OC.06,S22.P.03*
Shanley P *S34.OC.06*
Sheikh P *S07.OC.05*
Shenkin A *S01.OC.12, S29.OC.05*
Sherry TW *S12.P.11, S26.OC.08*
Shibuya PS *S06.P.03*
Shiels AB *FS04.P.44*
Shimabukuro YE *S05.P.14*
Shimamoto CY *S13.OC.09*
Shoobridge D *S28.OC.04*
Siddique I *S11.OC.08*
Siebe C *S37.OC.02*
Silander JA *S36.OC.09*
Silaya T *S28.P.04*
Siles T *S41.OC.02*
Silman M *S10.OC.05,S10.P.01*
Silva ACDRS *FS02.P.18, FS04.P.26,S08.P.19*
Silva CN *FS04.P.08*
Silva FR *S22.P.03*
Silva GF *S06.P.21*
Silva GL *S07.P.07*
Silva HS *FS04.P.16*
Silva JMA *FS03.P.07*
Silva JRT *S05.P.07*
Silva JZ *FS11.P.12*

Sobrenome *Resumo*
Silva MNF *S04.OC.05*
Silva PBG *FS05.P.05*
Silva RHR *S05.P.08*
Silva RP *S10.OC.11*
Silva WFM *S36.P.03*
Silva AB *FS11.P.15*
Silva AC *FS09.P.06*
Silva ACCP *FS06.P.03*
Silva ALV *FS04.P.56*
Silva D M *S08.P.01*
Silva DR *FS09.OC.03*
Silva G *S28.P.10*
Silva GC *S05.OC.07, S05.P.27*
Silva GF *S06.P.07*
Silva IA *S05.P.30, S16.P.09*
Silva IV *FS01.P.05, FS11.P.15*
Silva JB *FS04.P.17, S12.OC.09*
Silva JM *FS02.P.17*
Silva Jr AP *FS08.P.17, S05.OC.03*
Silva Júnior AP *FS02.P.20, FS04.P.32, FS04.P.55, FS08.P.15*
Silva Júnior MC *S06.OC.02*
Silva LAF *FS08.P.08*
Silva LVB *S08.OC.04, S08.P.08*
Silva MC *S21.P.03*
Silva MG *FS09.P.04*
Silva MND *FS04.P.55*
Silva N *S04.OC.11*
Silva Neto CM *S29.P.10*
Silva PPL *FS04.P.32*
Silva PR *FS02.P.22, FS07.P.04*
Silva RA *S09.OC.12*
Silva RJ *FS01.P.08, FS08.P.08*
Silva RM *FS03.P.09, FS03.P.10*
Silva RRP *S08.P.15, S09.OC.11*
Silva V X *S02.P.06*
Silva VFA *S05.OC.07, S05.P.27*
Silva VM *FS10.P.13, S05.OC.12, S05.P.19*
Silva VX *FS10.P.10, FS10.P.14*
Silva WFM *S36.P.04*
Silva Z *S16.P.12*
Silva-Espejo JE *S10.OC.05*
Silvano RAM *FS01.OC.05*
Silveira RMB *FS04.P.39*
Silveira AMF *FS04.P.17*
Silveira FAO *FS05.P.09, FS06.P.02*
Silveira FS *FS06.P.15, FS13.OC.05*
Silveira J *S35.OC.06*
Silveira LF *S02.OC.06*
Silveira M *FS04.P.45, S04.OC.11, S06.OC.05, S23.P.08, S23.P.09, S29.OC.05*
Silveira R *FS07.P.21*
Silvério D *S35.OC.01*
Silvério DV *S32.OC.10*
Silvius KM *S39.OC.01, S39.OC.03, S39.OC.05*
Simo M *S01.OC.01*
Simões-Jesus MF *S05.P.35,S05.P.37*
Simon MF *S08.OC.01*
Simpson J *FS03.P.04*
Sinha NR *S12.P.10*
Siqueira PR *FS03.P.07*
Siqueira T *FS11.P.23, FS13.OC.06, S26.OC.11*
Siqueira AA *S09.OC.12*
Siqueira Filho JA *S09.OC.12*
Siqueira Filho J *FS04.P.06, FS04.P.09*
Siqueira JV *S31.OC.01*
Siqueira PR *FS06.P.12*
Siqueira T *S26.OC.01*
Siqueira-Filho JA *FS04.P.03, FS06.P.03, S07.P.08*
Sist P *S36.OC.02*
Sites JW *S02.OC.03*
Sleen van der P *S20.OC.04*
SleenP *S20.OC.09, S20.P.03*
Slot M *S19.OC.02*
SLQ *S01.P.03*
Smedt S *S18.OC.05*
Smidt EC *FS07.P.16*
Smith-Patten BD *FS03.P.03, FS11.P.36*
Smoginski APA *S36.P.04*
Soares BE *FS01.P.01,FS01.P.02*
Soares I A *FS07.P.21*
Soares MHM *S36.P.03*
Soares MHM *S36.P.04*

Sobrenome *Resumo*
Soares N C *S05.P.17*
Soares-Filho B *S33.OC.01*
Soares-Filho BS *S30.OC.09,S32.OC.01*
Sobrinho M *S29.P.11*
Sobrinho TG *S01.P.07, S29.P.06,FS05.OC.05*
Socolowski F *S09.OC.12*
Sodhi NS *S29.OC.04*
Soffiatti P *S05.P.16, S05.P.22*
Solar RRC *S10.OC.10,FS05.OC.05,S31.OC.08,S31.OC.10,FS12.OC.02*
Solé M *FS04.P.72*
Solferini VN *FS02.P.07, FS12.OC.04, S02.P.05*
Soliz-Gamboa C C *S20.OC.02*
Sommer S *S38.OC.01*
Sonali S *FS04.P.61, S09.OC.06*
Sonké B *S01.P.10*
Sonsin JO *S35.P.10*
Sopher L S *S12.P.07*
Sosinski E *S28.OC.08*
Sothers CA *S04.OC.09*
Sousa BM *S05.P.20*
Sousa LC *S29.P.09*
Sousa-Baena MS *S12.P.10, S15.OC.04, S15.P.02*
Southworth J *S29.OC.05*
Souto HN *FS08.P.02*
Souza A P *FS02.P.32*
Souza C *S31.OC.08*
Souza JPM *S05.P.11,FS09.P.07, S05.P.28*
Souza MC *S08.OC.06*
Souza R F *FS05.P.01*
Souza S *S15.OC.03*
Souza S C A *S05.P.28,FS09.P.07*
Souza AC *FS06.P.14*
Souza AP *S05.P.04*
Souza CAS *S10.OC.11*
Souza CG *S05.P.46, S28.P.09*
Souza CJ *S30.OC.05*
Souza CV *FS04.P.56*
Souza DG *S05.P.33*
Souza F L *S06.P.17, S08.P.11*
Souza FC *FS04.P.29, S16.P.15*
Souza FL *FS02.P.06*
Souza FM *FS02.P.25,FS04.P.40*
Souza JMT *FS07.P.22, S22.OC.08*
Souza JP *S05.P.12*
Souza Jr C *S31.OC.01,S32.OC.11*
Souza JS *S05.P.32*
Souza Junior HG *FS02.P.20*
Souza LM *S05.P.04*
Souza PR *S06.OC.05*
Souza R M *FS01.P.05*
Souza S *S15.OC.04, S15.P.02*
Speck T *S12.OC.10*
Sperber CF *S02.P.03,FS05.OC.05,S05.P.02, S29.P.06,S08.P.10*
Spiecker *S20.P.04*
Sposito RC *S34.P.05*
SQH *S01.P.03, S01.P.05*
Srivastava DS *FS04.P.01, FS04.P.15, S26.P.02*
Stabile M *S32.OC.04*
Stacy E *FS02.P.01*
Stahl C *FS04.P.23, S17.OC.11*
Stahle D *S20.OC.01*
Staines C *S25.OC.13*
Staver AC *S01.OC.06*
Steiner F *FS02.P.15, FS11.P.18,FS11.P.12, FS11.P.17, FS11.P.30*
Stella O *S32.OC.01*
StercF *S20.P.03*
Sterling E *S41.OC.02*
Stévart T *S01.OC.01*
Stevenson PR *FS04.P.31, S13.OC.07*
Stickler C *S32.OC.08*
Stickler CM *S32.OC.01, S32.OC.02*
Stoner KE *S23.OC.14*
Stoner K *S11.OC.08*
Stouffer PC *S38.OC.05*
Straatmann T *S38.OC.03*
Strangas M *S02.OC.08*
Strecht L *FS08.P.14*
Strüssmann C *S06.P.06*
Suarez C *FS01.OC.06*

Sobrenome *Resumo*
Suazo I *S11.OC.08*
Suazo-Ortuño I *FS02.P.10*
Sugai JLMM *S06.P.15,S06.P.16*
Sukumar R *FS12.OC.08*
Sulistyawati E *FS12.OC.11*
Sunderland T *S34.OC.02*
Sutherland WJ *S22.OC.02*
Sutra J *S01.OC.02*
Suwa R *S10.OC.11*
Suyadi S *S30.P.02*
Svenning J-C *S01.OC.05, S22.OC.02*
SW *S01.P.03*
Swaine MD *S17.OC.02,S17.OC.06*
Swamy V *S26.OC.03*
Swenson NG *S16.OC.02*
SXM *S01.P.03*
Szabó MPJ *S06.P.18, S08.P.13*
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Tabarelli M *S05.P.33,FS06.OC.06, FS10.P.15, S05.P.51, S05.P.56, S25.P.12, S29.OC.01, S29.OC.06, S29.P.03, S29.P.11, S29.P.12*
Taberlet P *S16.OC.04,S16.OC.05, S40.OC.03*
TACJ *S26.OC.07*
Taddei VA *S06.P.05*
Takeda AM *FS13.OC.10*
Talora DC *S16.P.02*
Tamaio N *S12.P.05*
Tambosi LR *S05.OC.02*
Taniguchi M *FS08.P.01*
Taremwa NK *S28.P.05, S28.P.11*
Tarmo V *S28.P.01*
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Tavares LER *S06.P.11,S06.P.13*
Tavares V da C *S23.OC.06*
Teh YA *S10.OC.09*
Teixeira SP *S21.OC.05*
Teixeira TSM *S23.P.12*
Teixeira BR *FS08.P.14*
Teixeira FZ *S16.P.05*
Teixeira LMR *S21.OC.04*
Teixeira-Costa L *S13.OC.08*
Telford RJ *S36.OC.07*
Temeles EJ *FS07.P.01*
Teodoro GS *S18.OC.04*
Tepe EJ *S24.OC.05*
ter Steege H *FS04.P.45, S04.OC.11*
Terborgh J *S04.OC.11, S28.OC.04*
Terborgh JW *FS01.OC.04,FS04.P.45*
Terra JS *S06.P.15,S06.P.16, S21.P.02*
Thier O *S05.OC.04,S05.P.06*
Thijs KW *S36.OC.08*
Thom G *FS03.P.05*
Thomas DW *S16.OC.03*
Thomas R *FS04.P.45*
ThomsonJ *S31.OC.05*
Thurnbull MH *S10.P.03*
Ticktin T *S29.P.25*
Timmermann A *S22.OC.02*
Tiseer AF *S09.OC.06*
Tito R *S25.P.07, S25.P.14*
Tjoa M *S28.P.04*
Tokumoto Y *S19.P.02*
Toledo M *FS13.OC.04*
Toledo MCB *S06.P.21*
Toledo GM *FS08.P.08*
Toledo JJ *FS04.P.50*
Toledo M *FS12.OC.09, S04.OC.11, S20.P.06, S29.P.08, S36.OC.01*
Toledo RM *S05.P.42*
Tomas W *S23.P.08, S23.P.09*
Tomazello Filho M *S20.OC.05, S20.P.09*
Tonini H *S34.P.06*
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Torezan ZMD *S35.P.05*
Torezan-Silingardi HM *S25.OC.07, S25.P.02*
Torres A *S04.OC.11*
Torres PC *S31.P.01*
Torres RS *S13.OC.11*
Torrezan MA *S08.P.16*

Sobrenome *Resumo*
Totland Ø *S22.OC.07*
Toto M *S17.OC.02*
Tovar C *S01.OC.01*
Trajano E *FS01.OC.02, FS11.P.04*
Travassos BG *S02.P.02*
Trentini C *S18.OC.06*
Tresmondi F *S13.P.04,FS08.P.18*
Trigg SN *S30.OC.09*
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Tschapka M *S23.OC.04*
Tscharntke T *S01.P.07*
Tudesque L *FS01.P.03*
Tuller J *S25.P.06,S25.P.13*
Tuomisto H *S10.OC.01,FS04.P.02*
Turner B *S17.OC.05*
Tzeng HY *S21.OC.02,S21.OC.03*
TZH *S01.P.03, S01.P.05*
Uieda W *S23.P.03, S23.P.04*
Urashima DC *S29.P.07*
Uriarte M *FS06.OC.02, S10.OC.07, S35.OC.02*
Urquiaga E *S10.OC.08*
Urquiza-Haas T *S37.OC.06*
Uy K *S02.OC.12*
Val RS *S05.OC.07, S05.P.27*
Valadão PD *FS08.P.07*
Valdés-Velásquez A *S41.OC.02*
Vale MM *S23.P.12*
Valente-Neto F *S36.P.08*
Valenzuela D *S09.OC.02*
Valladares F *FS06.P.02*
Valverde T *FS04.P.21*
Van de Moortele P *S36.OC.08*
van den Berg E *S10.P.02*
van den Elzen E *S11.OC.01*
van der Sleen P *S20.OC.02*
van Melis J *S12.P.09*
Vanderwel MC *S01.P.01*
Vandvik V *S36.OC.07*
Varanda E M *FS07.P.06*
Varassin IG *FS07.P.12, FS07.P.22, S22.OC.08, S22.P.05, S35.P.07*
Vargas SM *S05.P.20*
Vasconcellos N *FS11.P.24*
Vasconcellos-Neto J *FS08.P.10*
Vasconcelos HL *FS05.OC.01, FS05.P.04, S08.OC.10*
Vasconcelos SS *S33.OC.04*
Vasconcelos V O *FS02.P.04*
Vasconcelos H *S08.OC.04, S25.OC.02, S25.P.03,FS05.P.06*
Vasconcelos HL *FS05.OC.04,FS05.P.03, S08.P.07, S08.P.08, S08.P.18*
Vasquez G *S29.OC.05*
Vasquez R *S04.OC.11,FS04.P.45*
Vaz MC *FS04.P.17*
Vaz-de-Mello FZ *S35.OC.06*
Veasey EA *S05.P.23*
Veja E *S37.OC.02*
Velazquez E *FS12.OC.03, S11.P.02*
Velo-Anton G *S02.OC.08*
Veloso JG *FS06.P.17*
Veloso MDM *S05.P.08,FS04.P.10, FS06.P.17; S05.P.07*
Veloso VHS *S05.P.07, S05.P.08,FS06.P.17*
Vendrami J *FS04.P.17*
Venticinque EM *FS04.P.11*
Venturieri A *S31.OC.01,S33.OC.04*
Vergueiro A *S02.P.02*
Veríssimo MP *FS11.P.14*
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